

# The Wicked Challenge of Changing a University

## *Encouraging Bottom-up Innovation through Strategic Change*

### Norman Jackson

This extended essay was prepared as a background paper for a short course at the University of Limerick in April 2014. It draws on two examples of attempts to accomplish significant educational change through bottom-up innovation in two different English universities. The aim of the essay is to highlight the factors that encourage and support people who are trying to accomplish significant change and which enable bottom-up innovations to be sustained. Universities are inherently conservative and risk averse when it comes to changing what they do, 'yet to play its indispensable function in the new competitive environment, the typical university must change more quickly and more fundamentally than it has been doing' (Christensen and Eyring 2011: xxiii). Because of their particular organisational characteristics universities are difficult places to change. Bringing about fundamental change can be likened to a 'wicked problem' (Horst and Rittel 1978).

The essay begins by outlining the wicked nature of the challenge of accomplishing significant change and bottom-up innovation in a university before offering a range of perspectives and tools to help visualise the nature of innovation in complex adaptive university social systems.

The first case study shows how a university encouraged bottom-up innovation as one strategy within a comprehensive strategic change programme. It reveals how a combination of vision, determined leadership, facilitative management and additional resources enabled a range of innovations to be created, implemented and sustained. From the innovators' perspective 22 factors were considered to be important in bringing about change but experiences sometimes fell short of what they had hoped for in the way of support, recognition and empathy. From the organisational perspective, eleven factors are identified that were important to encouraging and sustaining bottom-up innovation in the context of a university involved in strategic change.

The second case study describes a different situation where a team of innovators working from the bottom tried unsuccessfully to bring about strategic change in a university. The dynamics of the situation are evaluated using the factors for accomplishing change identified in the first case study.

From the two case studies it would seem that 'bottom-up educational innovation' can take place in a university regardless of whether it is involved in strategic change as long as sufficient resources are available. But educational innovations will only be sustained if they are aligned with the direction of change that senior managers wish to take. Bottom-up educational innovation cannot produce strategic change unless it is supported by the top and middle of the organisation.

## BIOGRAPHY



*Norman Jackson* is Professor Emeritus at the University of Surrey, Founder of the Lifewide Education Community and a Fellow of the Royal Society of Arts. Between 2006-11 he was Professor of Higher Education and Director of the Surrey Centre for Excellence in Professional Training and Education (SCEPTre) at the University of Surrey where he developed and applied the idea of lifewide learning and education in a university environment. During a long career in higher education he has been a teacher, course tutor, researcher, inspector, consultant, policy developer, educational/curriculum developer and manager. He has also held senior positions with several UK national bodies including - Her Majesty's Inspectorate, Higher

Education Quality Council, Quality Assurance Agency, Learning and Teaching and Support Network and Higher Education Academy. His own innovations in educational practice have focused on students' and teachers' creative development through enquiry-rich and design thinking pedagogies, and experiential/immersive learning. His quest for a higher education curriculum that would be more supportive of students' creative development was driven by concerns that universities should be doing more to enable students to develop themselves for the complexities and challenges of their life. This journey led him to develop and apply the ideas of *lifewide learning* and *education*. Change through enhancement and innovation have been a recurrent theme in his published work and his latest book examines how bottom-up innovation in one university was accomplished within the context of vision-driven strategic change.



**They always say time changes things, but you actually**

**have to change them yourself *Andy Warhol***

## **1. THE WICKED CHALLENGE OF CHANGING A UNIVERSITY**

Accomplishing significant self-determined change through bottom-up innovation in a university is a 'wicked problem' (Rittel and Webber 1973). By that I mean accomplishing significant change is an ill-defined, ambiguous, socially grounded and often contested problem associated with strong moral, political and professional issues and values (Richie 2011). As far as changing an organisation is concerned - changing is the last thing that most people in the organisation want to do and engaging in change - moving from the known, the tried and tested ways of doing things into unknown and unproven territory is a risk that creates a big problem for most people. In other words the act of trying to engage a university in significant change creates a new wicked problem.

The term 'wicked' in the context being used here, is not about being evil, rather it describes an issue that is hard to understand and define, and highly resistant to resolution.

Universities encounter wicked problems or challenges when they are subjected to constant or rapid change, or unprecedented challenges. In such situations universities have to adapt and change to respond to these external forces which threaten their position. The risk of not changing outweighs the risk of changing but there is often not a clear sense of how or what to change. For example, in the UK the change from a mainly publicly funded to a mainly privately funded higher education system is driving all sorts of change. This change is bringing new entrants (competition) into the higher education market who are offering a very different but cheaper and more attenuated higher education experience to that offered by universities. The conditions are ripe for 'disruptive innovations' (Christensen and Eyring 2011) that will disturb the long established order - so watch this space!

We might define two very different scenarios in which universities engage in significant change. The first case is where a decision is made by a university to engage in self-determined change. The second is where circumstances force or encourage change to happen - such as the situation described above. The boundary between these scenarios is often blurred. This essay focuses on the first of these scenarios examining two case studies of change within UK universities in an attempt to draw out some important lessons about the relationship between innovation and strategic change.

At the outset it has to be recognised that the characteristics of universities as organisational environments for change contribute to the wickedness of the challenge. In the words of one retiring university leader:

Universities are pluralistic institutions with multiple, ambiguous and conflicting goals. They are professional institutions that are primarily run by the profession (i.e. the academics) often in its own interests rather than those of the clients and they are collegial institutions in which the Vice-Chancellor is less a CEO who can manage by diktat and decree and more a managing partner in a professional firm who has to manage by negotiation and persuasion. Change is extremely difficult to bring about in an institution with these characteristics. So, a prerequisite for change is some

pressure – often a threat from outside the institution – which convinces its members that change is necessary (Bain 2007:13).

Universities are large organisations, employing a multi-skilled workforce providing a complex range of services that extend well beyond their core missions of education, research and scholarship. Universities, at least in the UK, act as open systems connected to the external environment and wider world.

There are a number of features about universities that make them distinctive sites for change and those responsible for bringing about organisational change must orchestrate change by working both with the grain of their constituent academic cultures and across their cultural grains! One significant characteristic for an organisation the size and complexity of a university, is the nature of the fundamental transaction which takes place involving students and their teachers. While students in England now pay significant amounts of money for their higher education (ie they are consumers), the transaction which takes place is not like purchasing a product or service, because it involves the learner (customer) in a deep and effortful relationship with her subject, her peers, her teachers and their mediating artefacts, and her university. From their perspective they behave more like a 'partner' than a customer in so far as they help create the product (their own learning and development) with the help of teachers and others who support their learning. This relational side of the business of education lies at the heart of the motives that drive university teachers and support staff in their quest for improvement. Put another way, the motivation to improve performance for much of the workforce in higher education, is to improve students' experiences and make a positive difference to their lives. This means that from the perspective of a higher education teacher the motivation for improvement is not primarily to reduce costs and increase profits but to engage with and satisfy the deep moral purpose of education (Fullan 1993:18). If the people who work in a university believe that they are making a more significant difference to students' lives by changing what they do, they are more likely to involve themselves in change.

Another significant difference to most other organisations is that universities are organised into disciplinary tribes and territories (Becher 1989). The cultural and intellectual dynamics of disciplines (Becher 1989 and 1994) provide an important context for the way academics and their communities view what they do (teaching, administration, research, scholarship) and respond to change. Becher's assertion (1994:153) 'that the cultural aspects of disciplines and their cognitive aspects are inseparably intertwined', is born out not just in behaviours relating to research, but in different pedagogic beliefs and practices (Braxton 1995; Hativa and Marincovich 1995; Smelby 1996; Hativa 1997; Gibbs 2000; Neumann 2001). But the studies of Trowler (1998) and Knight and Trowler (2000) also show how important organizational contexts are in shaping thinking and behaviours. Trowler (1998) challenged some of the assertions made about disciplinary cultures being the key determinant in the way academics view a whole range of issues claiming that attitudes and values among academic staff were much more diverse and unpredictable than had hitherto been portrayed.



**People don't resist change.  
They resist being changed! *Peter Senge***

In addition to tribal complexity there is also the matter of professional autonomy in a university. Another distinctive feature of universities is that they permit and encourage significant levels of personal autonomy of large numbers of individuals who can therefore respond to change in ways that are consistent with their own beliefs, interests and prejudices.



Institutions of higher education are characterized by extremely decentralized structures of authority, remarkably dispersed incentive systems, and relatively few restrictions on the way people choose to use their time. These prominent organizational features that render colleges and universities distinctive among social institutions certainly help the academy protect its freedom from unwanted political and external influences. But they simultaneously act to subvert change of *any* kind (Ewell 2004:2).

It is this organisational respect for autonomy in the academy, combined with the ability of the academy to subvert change, that are the source of much of the 'wickedness' in the challenge of accomplishing change in universities.

Drawing on the insights gained through studies of change in university departments, Trowler et al (2003) provide a practical guide for people involved in facilitating change. They suggest (ibid: 13) that change strategies might focus either on big problems and the development of solutions that are tried, evaluated and revised or on changing beliefs by setting out the case for a particular course of action or why a particular innovation is preferred to existing practices.

there is a need for change agents to explain clearly repeatedly and in many ways why the change is beneficial. In that sense they need to focus on beliefs. Two significant limits to this focus are that we may need to affect networks of beliefs, going right back to root beliefs about learning, teaching and education; and changing beliefs is not sufficient to change practice because people need tools to support them in the practical business of change (Trowler et al 2003: 13-14)

## Why Change Fails or Succeeds in the Academy

In his reflective account of the lessons learned from educational reform in higher education Peter Ewell (2004) identifies a number of reasons for why changing practices in higher education is difficult - noting that 'grant-makers are happy if only a third of the projects they fund are successful' (ibid:p2). Reasons for failure (ibid p2-6) include:

- *The double edged sword of distinctiveness* - proclaiming what is wrong with current ways of doing things can provide a powerful rhetorical launch pad for a new change initiative and this often entails developing a new and distinctive language. However, efforts to promote conceptual and linguistic distinctiveness can prevent the integration of innovative practices into the mainstream. The exception to this condition is when the compelling story for change and the rhetoric of distinctiveness resulting from change become institutionalised.
- *The problem of extending experiments* - change efforts generally begin small as experiments. New ideas are turned into educational prototypes particularly if they are innovative and piloted before being fully implemented. But what is beneficial to getting

innovative change underway can be difficult to replicate and extend when individuals resist adoption of someone else's ideas rather than their own.

- *Special Funding* - change initiatives are almost always funded on a project basis using dedicated funds. These funds are often provided externally and are time limited. The transition from special funding to core funding (as the following case studies indicate) is one of the most difficult organisational manoeuvres a university can make.

Ewell (2004: 6-8) identified a number of basic characteristics that engender collective and collaborative commitment to change initiatives in universities and colleges, and enable institutions 'to work *across the grain* of established academic cultures':

- *Creating permanent structures* [or enterprises] *for collaboration* for example by attempting to foster generic skills and capabilities that are common to all disciplines across the curriculum.
- *Co-creating substantive and meaningful products* - 'the effectiveness of collaboration in undergraduate [change] initiatives depends equally on the extent to which effort is directed toward creating a *tangible collective product*'
- *Tangible benefits* - effective collaboration results in individual benefits for those who participate. Often the benefits derive from new productive relationships developed through working cooperatively with someone else on something that is meaningful and valued by all the participants.
- *Information as a lever for change* - effective collaboration depends on clear lines of communication and requires collaborators to have access to credible information about conditions and performance.

These ways of thinking about how change can successfully be accomplished across the cultural grain of departments are consistent with and complemented by the approaches recommended by Trowler et al (2003:17-18) for working within the cultural grain of academic departments. They argue that common sense, technical-rationale approaches to planning, communicating and implementing top down change, are appealing and necessary, but they need to be combined with approaches that are grounded in social practice theory suggesting that (ibid 18):

- 1 Any innovation will be received, understood and consequently implemented differently in different contexts (this is concerned with innovations and change that is imposed).
- 2 In HE the important contextual differences that affect the reception of and implementation of [educational] innovation relate to a) discipline and b) department
- 3 The history of particular departments, the identities of those within them and the way they work together are very important in understanding how innovations are put into practice
- 4 Successful change, like successful learning, is a constructive process - the change is integrated into the heads and hearts of those involved... the change is uniquely shaped during this process - acquiring ownership of change, the feeling that innovation is ours.
- 5 If there is congruence between an innovation and the context of its introduction at a particular time, then dissemination will be successful even if some pre-requisites are not in place. However, both the context and the innovation will be re-shaped in the process.

## Changing Organisational Culture

The fundamental reason why changing a university is a wicked problem is that by engaging in change we are affecting culture. Trowler and Knight (2001) view the culture of universities as 'protean and dynamic, not singular and static'. In their view every university possesses a unique and dynamic multi-cultural configuration which renders depiction difficult and simple depictions wildly erroneous. So values, attitudes, assumptions and taken for granted recurrent practices may be as different from department to department or building to building in one university as they are between one university and the next. They preferred to visualise academic organizations as networks of networks (Blackler et al 2000) or constellations of communities of practice (Wenger 2000) and argue that these fundamental social structures have to be recognised in bringing about organisational change. Because of these sorts of challenges there are no standard recipes for bringing about change in a university. Instead, the leaders of each institution, with their unique contextual understandings, must sense the pathway they need to encourage the people in their organisation to take, and act in ways that are more likely to take people in this direction.

Seel (2000, 2004) offers another view of organisational culture that is consistent with Trowler and Knight (2001). In his view -



organisational culture is the emergent result of the continuing negotiations about values, meanings and proprieties between the members of the organisation and its external environment. In other words, culture is the *result* of all the daily conversations and negotiations between members of an organisation. They are continually agreeing (sometimes explicitly, usually tacitly) about the 'proper' way to do things and how to make meanings about the events of the world around them. If you want to change a culture you have to change the conversations - or at least a majority of them. And

changing conversations is not the focus of most change programmes, which tend to concentrate on organisational structures or reward systems or other large scale interventions. (Seel 2004)

Seel<sup>1</sup> also offers insights into the way strategy and culture are related. In his view a change in strategy is effectively a change in the 'governing story' which an organisation tells about itself. If the strategy is to be effective, everyone in the organisation needs to be interpreting and re-telling that story, adapting it to their own circumstances. Since culture is the emergent result of all the conversations and stories which take place in an organisation, culture will inevitably change if new stories and conversations take place. In Seel's view, to bring about lasting cultural change, an organisation has to change the paradigm with which the organisation sees itself, 'unless the paradigm at the heart of the culture is changed there will be no lasting change' (Seel 2000).

A paradigm is a constellation of concepts, values, perceptions and practices shared by a community, which form a particular vision of reality that is the basis of the way a community organises itself. (Capra 1997:6).

If Seel's reasoning reveals why accomplishing significant change from the bottom of a university is a wicked challenge.

## The Complexity Challenge

Change, particularly large scale, transformational organisational change, can be a messy business (Jackson 2003). Context, scale, social interactions, culture, identity and tradition or historicity all influence the level of complexity and potential for messiness in any change situation. Open-ended poorly defined problems like strategic change require the vast majority of the people in the organisation to own the problem and be the agents of the solution (Heifetz and Linsky 2002). For system leaders and organisers this means creating the conditions and processes that will enhance the likelihood that people engage with strategic change and bring about change that is consistent with what is desired. Ultimately, the process is about stimulating the imaginations and inventiveness of people. Because of the multitude of factors involved, and because fundamentally changing organisations is about changing people, the study of organisations in the last decade has drawn heavily on complexity theory (Stacey et al 2000). Where large scale organisational change is concerned it is not possible to reach new horizons without grasping the essence of complexity theory.

The trick is to learn to become a tad more comfortable with the awful mystery of complex systems, to do fewer things to aggravate what is already a centrifugal problem, resist controlling the uncontrollable, and to learn to use key complexity concepts to design and guide more powerful learning systems (Fullan 2003a:21)



**There is nothing more difficult to take in hand, more perilous to conduct, or more uncertain in its success, than to take the lead in the introduction of a new order of thing.  
Niccolo Machiavelli The Prince (1532)**

## The Challenge of Leading & Managing Organisational Change

It is precisely because bringing about significant change in an organisation is difficult and complex, that good leadership and managerial skill is required in order to accomplish it. This is particularly true of the university environment with all of its cultural complexity. Universities are full of change and continually adapting to the multiplicity of forces for change. Effecting particular types of change on top of all the other changes that are happening with potential for conflict and interference, is all part of the wicked problem. George Bain, on the eve of his retirement as a Vice-Chancellor, made these observations about the role of a university leader in leading and managing change.

Management is the ability to cope with complexity, to devise structures and systems that produce order and harmony. Leadership is the ability to cope with change, to establish a new direction, and to get institutions and individuals to move in that direction. A Vice-Chancellor's job involves both management and leadership, but the latter is more important than the former. The key function of a Vice-Chancellor is to lead the university: to harness the social forces within it, to shape and guide its values, to build a management team, and to inspire it and others working in the university to take initiatives around a shared vision and a strategy to implement it. In short, a Vice-Chancellor should be an enabler rather than a controller. The job is 'to set the target that beckons' – a stretch target that drives the organisation forward by forcing innovation through deliberately creating a misfit between its ambitions and its current resources – and, having set it, to motivate people to hit it (Bain 2007:13)

But organisational change is not led only by a Vice Chancellor. It can and should be led by people at all levels each making a contribution that is woven together by the leaders, managers and facilitators of change processes. We have to acknowledge that Universities, with their hierarchical structures, strong procedural cultures and internal tensions relating to multiple goals are ideal organisational environments for wicked problems and they are also difficult environments for working with such problems.

A traditional bureaucracy, divided into vertical silos, in which most of the authority for resolving problems rests at the top of the organisation, is not well-adapted to support the kinds of process necessary for addressing the complexity and ambiguity of wicked problems. Bureaucracies tend to be risk averse, and are intolerant of messy processes. They excel at managing issues with clear boundaries rather than ambiguous, complex issues that may require experimental and innovative approaches. (Australian Public Service Commission (2007:13).

## **2. VISUALISING INNOVATION IN UNIVERSITIES & COLLEGES**

In their study of educational innovation in five UK universities, Hannan and Silver (2000) noted that systematised innovation – the purposeful and organized search for change to gain competitive advantage or deal with a problem was not as well developed in universities as it was in other sorts of organisations. They (ibid) noted that traditionally, in HE environments, innovation was undertaken by individual enthusiasts and consequently it was subject to the difficulties identified by Ewell (2004). Their study revealed the complex interplay between individuals who were trying to be innovative, their institutional environment and the wider communities to which individual teachers are connected.

They concluded that innovation relating to teaching and learning in universities is not normally conceived by the people involved, as being original ground breaking change. Rather it is viewed as 'what people do that is new in their circumstances'.

An innovation in one situation may be something already established elsewhere, but .... initiative takers and participants see it as innovation in their circumstances.. Such changes may be new to a person, course, department, institution or higher education as a whole. (Hannan and Silver, 2000:10).

According to these authors innovation [in teaching and learning] depends on a configuration of vital elements: how an institution's culture is interpreted by a range of constituents; the degree of conflict and consensus within it; the pattern of attitudes within which initiatives are received; the nature of and reasons for change and the ways in which it is managed; relationships between the centre and the periphery; and views of what needs to be sustained, adapted or abandoned in the historical moulding of an institution and its substructures. (Hannan and Silver, 2000:95).

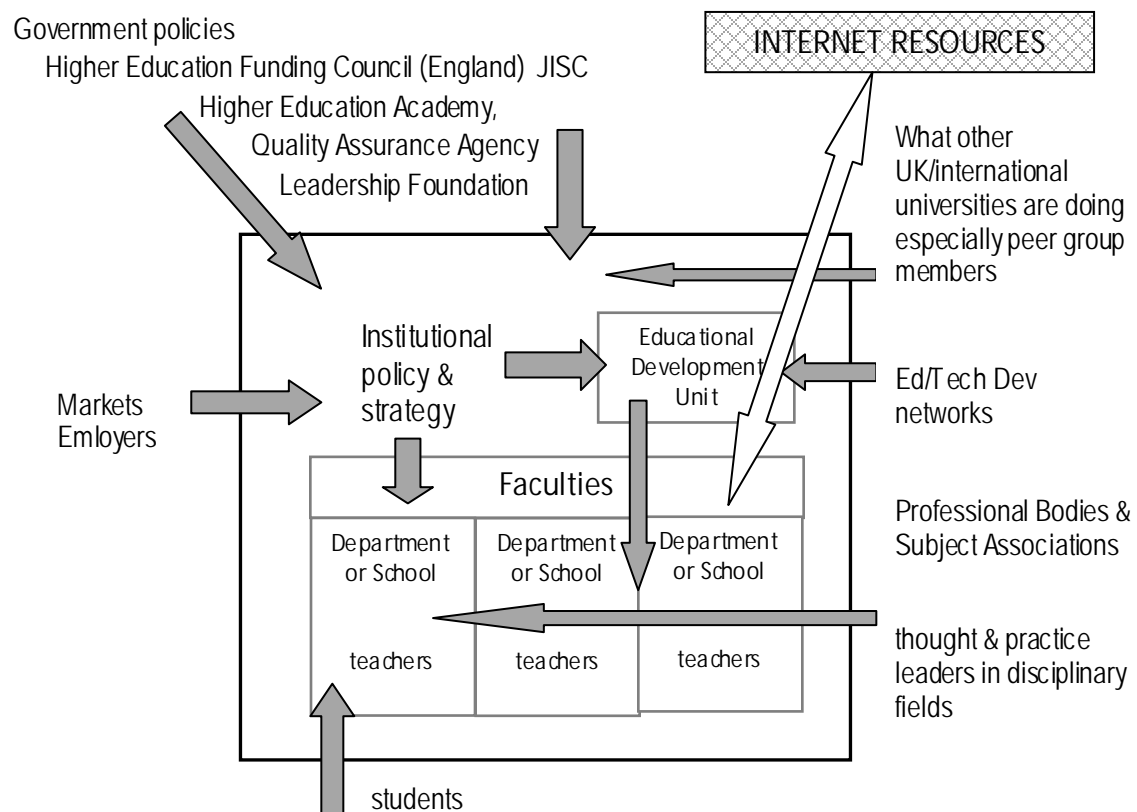
In England during the last 15 years, universities have been encouraged to change and innovate their teaching and learning practices through a range of Government funded initiatives promoted through the Higher Education Funding Council (England). These initiatives aimed to: 1) professionalise higher education teaching through formal training and membership of a professional body 2) reward excellent teachers and teaching and learning practices through formal systems of recognition and reward 3) encourage universities to



create their own infrastructures or centres of expertise to support the development of teachers and teaching innovation 4) encourage the sharing and codifying of 'good' practice and promoting scholarship of teaching and learning 5) creating new infrastructures at the system level (Higher Education Academy and Joint Information Systems Committee) to encourage, facilitate and support educational innovation 6) through funded initiatives directly encouraging the development of teaching and innovation in universities especially in the application of new technologies.

Figure 1 provides a simplified but typical structure of an English University showing the main forces and connectivities that shape, drive, inform and facilitate educational change and innovation. From a systemic perspective, the most important change in the last decade has been the way in which the internet provides easy access to ideas, scholarship, research and people that can facilitate the transfer of ideas and adoption and adaptation of innovations grown elsewhere.

**Figure 1** Simplified but typical structure of an English University and the forces and connectivities that shape, drive, inform and facilitate educational change and innovation



## Definitions

The word innovation is derived from Latin *innovat* - 'renewed or altered' verb: *novare* = make knew<sup>ii</sup>. So innovation is fundamentally about change and changing but in the last couple of decades economic and business uses of the term have come to dominate everyday thinking.

The process by which an idea or invention is translated into a good or service for which people will pay, or something that results from this process<sup>iii</sup>.

From a business perspective, innovation is the development of new customer value (meeting needs in new ways) rather than explicitly developing new things (Sawhney et al 2006). It is accomplished through new or better products, processes, services, technologies or ideas. Innovation is all about the application and better use of an idea and it may or may not include the invention of the idea as sometimes ideas have been around for a long time before a use is recognised or a market is created.

Anthropological views of innovation offer two views. The first considers humans to be pragmatists with innovations a function of their rational objectives and characterized by the materials at hand, the second considers humans as meaning- and symbol-making beings with innovations a function of their subjectively defined beliefs. From the latter perspective, innovation is culturally defined and stimulated, and thus innovation is essentially an act of cultural creation. Anthropology informs us that regardless of material or belief systems, each and every culture is necessarily and fundamentally different: an innovation which can be considered meaningful in one socio-cultural environment would not necessarily be considered meaningful in another.

The concept of social innovation is also relevant as education is a societal benefit. Phillips et al (2008:1) conclude that social innovation is the best construct for understanding—and producing—lasting social change which they defined as 'A novel solution to a social problem that is more effective, efficient, sustainable, or just than existing solutions and for which the value created accrues primarily to society as a whole rather than private individuals.'

This definition could be adapted in a meaningful and useful way to the educational context ie educational innovation is 'a novel solution to an educational problem, opportunity or challenge, that is more effective, efficient, sustainable, or just than existing solutions and for which the value created accrues to both the individual learner and society as a whole.'

Innovation can relate to the products and services of an organisation but they can also relate to its processes and procedures. Rogers (1995) defined innovation in terms of how it is perceived by individuals or workgroups in an organisation ie the organisational users of innovation rather than the market which uses its products or services.

An innovation is an idea, practice or object that is perceived as new by an individual or other unit of adoption.... If the idea seems new to the individual, it is an innovation (Rogers 1995:11).

Interestingly, this *organisational user* view of innovation is entirely consistent with research into innovation in UK higher education, conducted by Hannan and Silver (2000), who concluded that innovation was conceptualised as being something that is new to particular circumstances.

An innovation in one situation may be something already established elsewhere, but .... initiative takers and participants see it as innovation in their circumstances.. Such changes may be new to a person, course, department, institution or higher education as a whole (Hannan and Silver, 2000:10).

Rogers described the process of adopting an innovation as one of 'social construction' grounding the process in sociocultural practice theory.

When a new idea is first implemented in an organisation, it has little meaning to the organisation's members...Through a process of the people in an organisation talking about the innovation they gradually gain a common understanding of it. Thus the meaning of the innovation is constructed over time through a social process of human interaction (Rogers, 1995:399).

Innovation in social contexts, like higher education, may be driven by profit motives (by developing this new programme we can attract these new learners and gain more fee income) but it is also likely to be driven by professional values - a desire to improve students' learning experiences or social justice - increasing opportunities for people who do not normally participate in higher education.


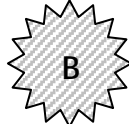
**Table 1** Types of change and increasing levels of difficulty in changing. Adapted from School for Innovators.<sup>iv</sup>

1	Doing the right things
2	Doing things right
3	Doing things better
4	Stopping doing things
<b>DOING NEW &amp; BETTER THINGS</b>	
5	Doing new things that other people are already doing
6	Incorporating what someone else is doing into your own system
7	Doing things no one else is doing
8	Trying to do things that can't be done

## Tools for Visualising Innovation

Innovation is part of the spectrum of change we are continuously involved in. If we imagine a hierarchy of levels of change such as is depicted in Table 1 we would not associate innovation with the first three levels of change. Rather it would be found in the types of change associated with levels 5-8 and it may also involve stopping doing something.

**Figure 2** Simple tool to help people think about innovation in their own practices

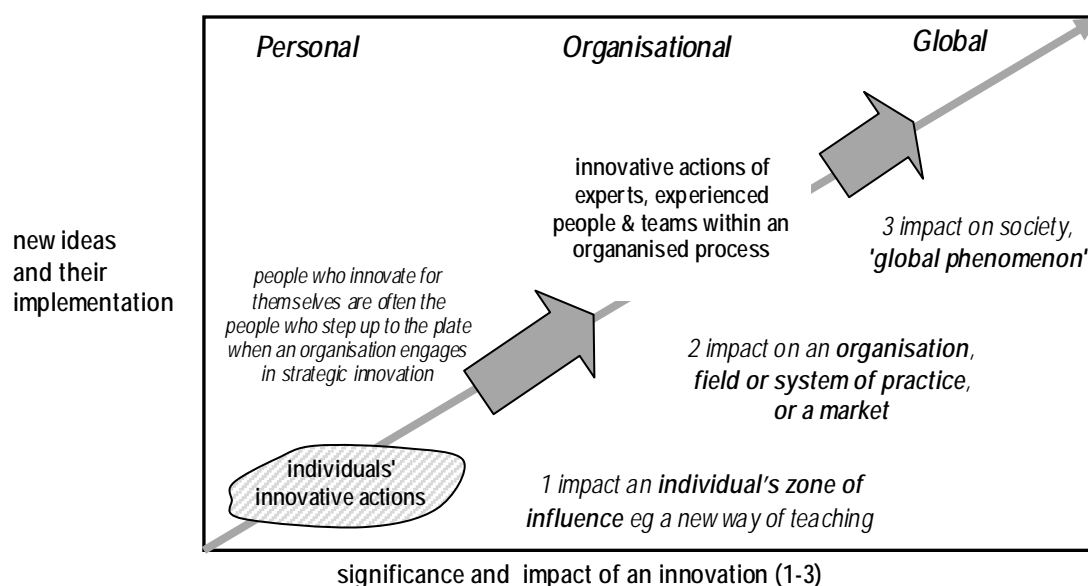
Adapting Existing Practice	Inventing New Practice
ADAPTIVE	ORIGINAL INVENTION 
INCREMENTAL	 ADAPTIVE INNOVATION

Innovation involves creating something new or different so we might characterise an innovation in terms of whether it is entirely original (Figure 2 area A) or whether it is combining and integrating things which already exist in novel ways and perhaps adding new

features (Figure 2 area B). This contrasts with change that is essentially incrementally different or adaptations of practices, services or products that already exist (Figure 2).

Innovation is accomplished by people who may be working alone or in collaboration with others. Innovation is related to creativity in that it is an act of creation that is applied to practice, products or services. Like the concept of creativity, innovation can be visualised in terms of its scope, significance and influence (Figure 3) mirroring the 4-C model of creativity proposed by Kaufman and Beghetto (2009).

**Figure 3** Innovation can be appreciated in terms of its scope, significance and level of influence.



At the global level there are innovations - like the world wide web - which have the potential to affect everyone on the planet. Individual organisations may develop a set of products and applications (like Apple for example) that are also global in their reach and effects. More often companies create and apply ideas that affect a specific market - for example a university developing its platform to serve new sorts of students. The platform is not new to the world because all universities will have a platform for supporting delivery, but the way it has been developed to meet particular needs is new to the organisation and to the learners it affects. Such innovations are normally created by teams of people working collaboratively with a shared vision of the product or service they are trying to create, but the groups themselves are open to ideas and influences from outside the organisation (as was the case in the example cited above). In these situations, home grown innovations selectively incorporate ideas and practices from other organisations. At the organisational level the definition of innovation developed by West and Farr ( 1990:9), which captures four important characteristics of innovation: a) intentionality b) newness (c) application (d) intended benefit, is appropriate.

the intentional introduction and application within a role, group or organisation of ideas, processes, products or procedures, new to the relevant unit of adoption, designed to significantly benefit the individual, the group, the organisation or wider society

At the individual level we all innovate to varying degrees in our daily lives. It's all part and parcel of adapting and seeking better, quicker, more effective ways of doing things.

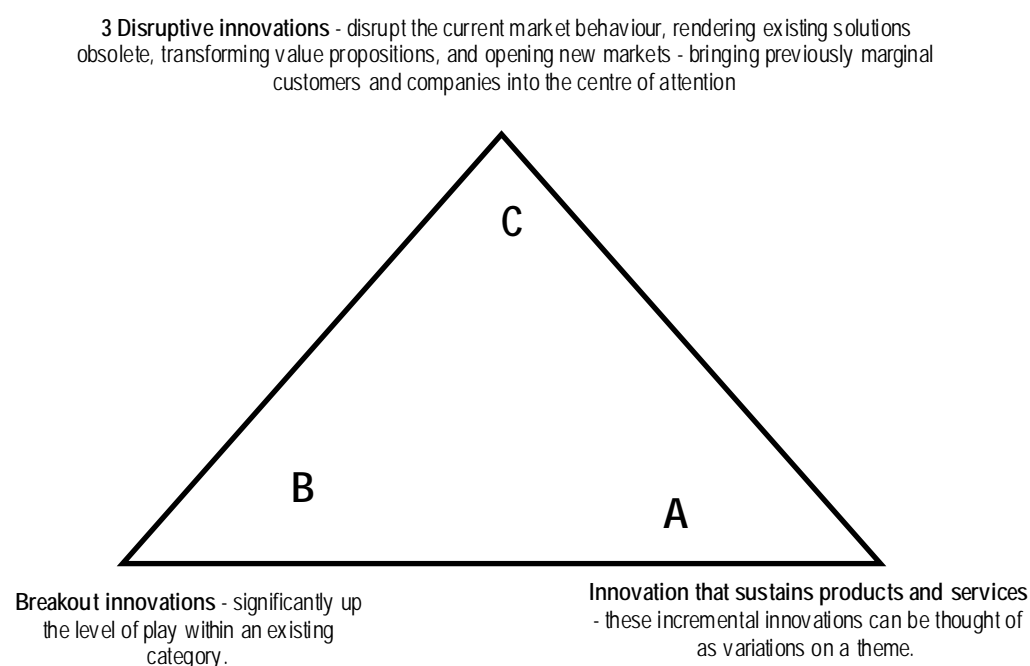
As individuals we also innovate in our professional lives. For example, in universities, the fact that Faculty have a high degree of autonomy and control over what they teach and how they teach it, means that teachers are continually inventing and re-inventing the curriculum, learning resources, teaching and learning strategies and assessment practices. Changing in a deliberate and incremental way, is a way of life for the conscientious higher education teacher. But, the norming process in the professional environment means that most teachers tend to adopt similar practices to their peers so even though there is lots of invention it tends to follow the patterns of behaviour already established in the local cultural setting - the department or school. Established practices like acceptable forms of assessment, rigid timetable structures and the rooms in which classes take place can all constrain innovation. But it is not uncommon for teachers to engage in more radical change or innovation for example when a new module or programme is being created, or an entirely new pedagogy (like problem based learning) or technology is being introduced for the first time. Some teachers create practices that are very different to local norms and these practitioners are perceived locally as the innovators or early adopters of new ideas or technology. Here we might adapt West and Farr's (ibid) definition to embrace this fundamental building block for organisational innovation.

*personal innovation* - the intentional introduction and application by an individual of ideas, and practices that are new to the individual, which are intended to benefit the individual, and others, in the situations they inhabit

Without this personal level of activity in an organisation, through which individuals learn to innovate, to experiment and turn their ideas into new practices, it is unlikely that innovation in a strategic organisational sense, will flourish.

A useful tool for categorising innovations is provided by Wai (2011 and Figure 4) which defines three categories of innovation - sustaining, breakout and disruptive.

**Figure 4** Summary of types of innovation (Wai 2011)



In the sustaining existing products and services category (A) are innovations that add more value to what currently exists.

Sustaining products and services (A in Figure 4) are the kinds of innovations companies often need to develop just to stay in the game. These incremental innovations can be thought of as variations on a theme. For example, in the category of household cleansers, a sustaining innovation might involve making the cleaning agent 10% stronger or pairing it with a new scent (Wai 2011).

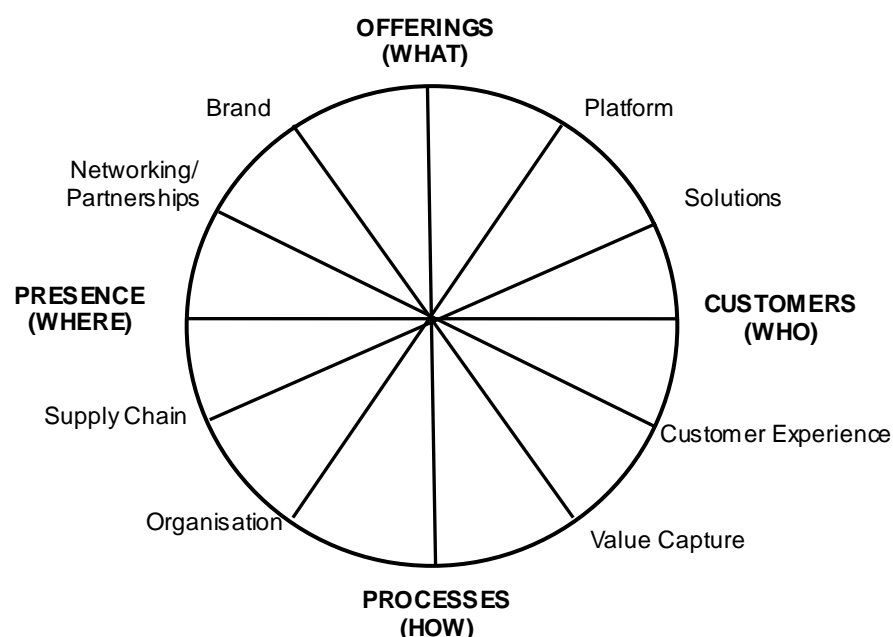
*sustaining innovation* makes something bigger or better. Examples of sustaining innovation include airplanes that fly further, computers that process faster...and universities with more college majors and better activity centres....A *disruptive innovation*, by contrast, disrupts the bigger and better cycle, by bringing to market a product or service that that is not as good as the best traditional offerings but is more affordable and easier to use. Online learning is an example (Christensen and Eyring 2011 p ).

Breakout innovations (B) offer significant improvements of existing products, services or processes, such that the results of innovation establish new standards or benchmarks.

Breakout offerings are those that significantly up the level of play within an existing category. The sleek Motorola Razr, with its boundary-pushing design, was a runaway success for Motorola. Seeing it, customers couldn't help but want it--over time making it the best-selling line of clamshell phones ever. That said, it was still a clamshell phone, sold and used in much the same way as previous cell phones (Wai 2011).

Disruptive innovations (C) are often brought to market by newcomers, while established providers tend to focus on innovations that sustain their well established enterprises. The later often ignore disruptive innovation assuming that their current customers won't be interested. But as disruptive innovations get better through their own sustaining innovations they become a threat to the traditional products of services.

**Figure 5** Innovation Radar - 12 dimensions of business innovation (Sawhney et al 2011: 30). The areas that SDP focused on are also shown.



## Organisational Innovation

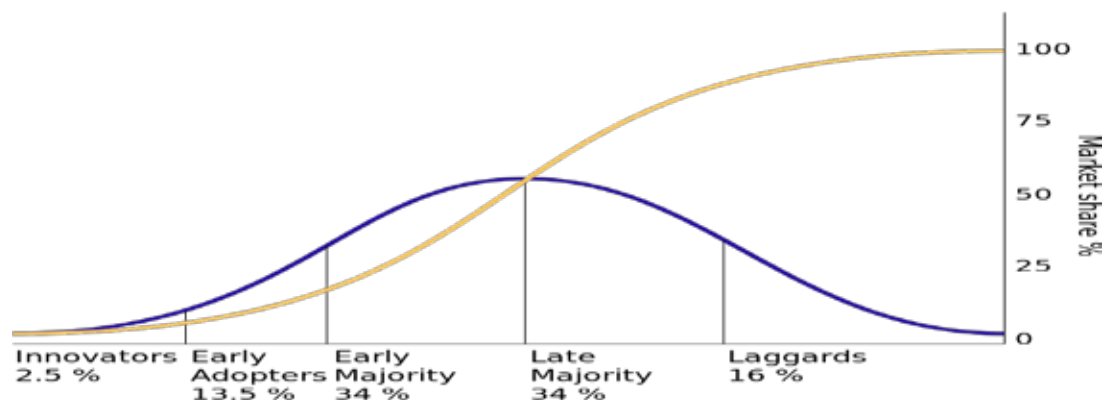
Organisational or business innovation used to be focused on products and services but the need to innovate means that businesses now approach innovation more systematically and holistically.

We define business innovation as the creation of substantial new value for customers and the firm by creatively changing one or more dimensions of the business system. (Sawhney et al 2011: 28)

These authors took a 360 degree view and identified 12 key dimensions of business (Figure 5) comprising four main 'anchors' 1) the offerings the company creates 2) the customers it serves 3) the processes it employs 4) the points of presence it uses to take its offerings to market. Between these anchors are embedded eight other dimensions of business systems.

Systematic innovation that is stimulated through a deliberate organisational change strategy requires well managed and repeatable processes to move an organisation beyond a dependence on sporadic innovations to create a more constant and dependable and flow of new ideas (Speirn et al 2008:4). Equally important are the cultural conditions that encourage people to feel empowered and to know that support will be available should they invest their time, intellect and creativity in developing a new idea which has good potential for adding value to what already exists.

**Figure 6** Rogers' Adoption / Innovation Curve. With successive groups of people adopting an innovation (shown in blue) the proportion of the population accumulates along the S-shaped adoption curve (yellow) i.e. successful innovation goes through a period of slow adoption before experiencing a sudden period of rapid adoption and then a gradual levelling off.



## Diffusion and Adoption of Innovations

Diffusion research centres on the conditions which increase or decrease the likelihood that a new idea, product or service will be adopted by members of a given culture. Diffusion of innovation theory predicts that media as well as interpersonal contacts provide information and influence opinion and judgment. Studying how technological innovation diffuses through a social system Rogers (1976, 1995) argued that information about an innovation flows through social networks. The forms of communication used can greatly assist this process. Innovation diffusion research has attempted to explain the variables that influence how and why users adopt a new innovation. Opinion leaders exert influence on audience behaviour via their personal contacts and the respect they command, but additional intermediaries

called change agents and gatekeepers are also included in the process of diffusion. Rogers identified five adopter categories : (1) innovators, (2) early adopters, (3) early majority, (4) late majority, and (5) laggards. These categories follow a standard deviation-curve which reflects take-up or adoption over time (Figure 6).

The figure shows that very few people adopt an innovation in the beginning (2,5%), early adopters making up for 13,5% adopt the innovation a short time later, the early majority 34% follow and the late majority 34% follow after some time finally the laggards make up for 16% may or may never adopt the innovation. Based on this distribution curve any university is likely to have about 15% of its members who are willing to innovate or experiment with new practice if they get the chance. These people possess a set of qualities, values and attitudes that when applied to change make them a powerful force. They include: passion, enthusiasm, commitment, ambition, creativity, drive, energy, integrity, honesty, openness to new experiences, self-confidence, self-belief, a positive and optimistic attitude, a willingness to stick their head above the parapet and lead change and the ability to sell their ideas, negotiate with and persuade others that their ideas have value. A willingness to work with ideas and situations that continually evolve means that innovators have to be flexible in their thinking and approach (Jackson and Campbell in press).

This idea works well when the target for innovation is a population of potential users for example a university wanting to promote the use of a new piece of technology. Organisations can of course influence adoptions through managerial actions, use of policy or offering incentives.

Rogers (ibid) considers that for an individual adoption of any innovation tends to follow a pattern:

- 1 **awareness** - knowing something exists
- 2 **interest** – this looks interesting
- 3 **evaluation** - but is it useful to me?
- 4 **trial** - lets try it out / I'm going to change what I do
- 5 **adoption** - well that seemed to work  
*and we might usefully add*
- 6 **adaptation** with a bit of tweaking I can make this work better for me

Rogers (ibid) also considered the influence on potential adopters of the *perceived characteristics of innovations* on the take up the innovation ie moving from *awareness* to *adoption*. They are:

- **relative advantage** (the 'degree to which an innovation is perceived as being better than the idea it supersedes or if there nothing comparable exists the degree to which the innovation affords *competitive advantage*)
- **compatibility** (the degree to which an innovation is perceived to be consistent with the existing values, past experiences and needs of potential adopters)
- **complexity** (the degree to which an innovation is perceived as difficult to use)
- **trialability** (the opportunity to experiment with the innovation on a limited basis and in a supportive environment)
- **observability** (the degree to which the results of an innovation are visible to others).



We might also add **sustainability** to this list of characteristics - the degree to which an innovation can be sustained within the resources that are available.

According to Rogers (ibid), innovations that have greater *relative advantage* and/or confer *competitive advantage*, and which are *compatible*, *trialable*, and *observable* are more likely to be adopted over existing products and services. And if they have similar functionality but are simpler than existing products and services that are more likely to be adopted.

## Evaluating Impact of Innovation in HE

Evaluating the impact of innovation will vary according to the purpose and complexity of the innovation whether the focus is on :

- 1) *the market* eg a new type of course using a new delivery platform and forms of teaching and learning practices
- 2) *the learner* eg new strategies to encourage and support more effective learning or perhaps new types of learning outcomes
- 3) *the organisation* eg new processes systems and practices that affect the way the organisation works

Historically, two types of evaluation have been used to understand the process, effects, influences and impacts of innovation programmes and initiatives in education (Preskill and Beer 2012:4). *Formative* (process of implementation) evaluations typically focus on details about how a programme model takes shape; their purpose is to improve, refine and standardise the programme and the approach assumes that a programme will soon become a model with a set of reproducible activities, that if implemented correctly and with sufficient quality, will produce a predictable chain of outcomes. The same assumption of a stable programme model underlies *summative* evaluations that seek to answer questions such as 'Did the programme work?' Should the programme be continued or expanded?'

The danger is that 'when a formative evaluation approach is applied to an innovation that is unfolding, it can squelch the adaptation and creativity that is integral to success' (Preskill and Beer 2012:5). As Knight (2003) explains evaluating the impact of new ideas and practices in complex turbulent social settings, like a university, is often not a straightforward matter.

complexity theories hold that it is not possible to say that x is the cause of y; more subtle thinking is needed about the relationship between activities and those things we claim to be their effects or outcomes... when it comes to appreciate the impact of [complex interventions] we do better to turn to appreciation, connoisseurship, constructive critique and similar dialogical practices (Knight 2003:87)

**Table 2** Assumptions and principles of formative and summative evaluation (Preskill and Beer 2012:4)

- The focus is primarily on model testing with a clearly hypothesised chain of cause and effect
- It is important to measure success against predetermined goals
- The evaluator should be positioned as an external, independent and objective observer
- Evaluations should be predictive logic models
- Evaluations follow a fixed plan

- Evaluation's purpose is to refine the programme or model and then render definite judgements of success or failure

It can be argued that bringing about significant change in a university (such as described in the case studies which follow) is akin to social innovation. While the long term goals might be defined the path to achieving them is less clear - little is known about what will work, under what conditions, how they will work and with whom? Also little may be known about the potential resistances to change, who will resist for what reasons? These things will only manifest themselves through the process of change. Decision makers and change agents have to explore what activities will trigger and then sustain change. Formative and summative evaluations are typically not structured to give decision makers the information they need when they need it to make informed decisions to support new developments where next steps are uncertain.

Preskill and Beer (2012:7) propose that an approach called Developmental Evaluation (DE) is more useful in supporting learning and adaptation in social innovations.

Developmental evaluation informs and supports innovation and adaptive development in complex dynamic environments. DE brings to innovation and adaptation the process of asking evaluative questions, applying evaluation logic, and gathering and reporting evaluative data to support project, programme, product and or organisational development with timely feedback (Patton 2011).

DE is used in social innovations where there is no accepted model for solving the problem. The practice of continuous learning is embedded into the process and the role of the evaluator is that of a strategic learning partner and facilitator. An emergent and adaptive evaluation design ensures that the evaluation has purpose and it can respond in nimble ways to emerging issues and questions. The developmental evaluator brings complex systems thinking to the conversations about the process and results of innovation in these contexts. Preskill and Beer (2012:7) elaborate the sorts of questions that DE seeks to encourage reflection, conversation and judgments of value around (Table 3).

**Table 3** Types of question answered by Developmental Evaluation (Preskill and Beer 2012:7)

- What is developing or emerging as the innovation takes shape?
- What variations in effects are we seeing?
- What do the initial results reveal about expected progress?
- What seems to be working and not working and why?
- What elements merit more attention or changes?
- How is the larger system or environment responding to the innovation?
- How should the innovation be adapted in response to changing circumstances?
- How can the project adapt to the context in ways that are within the project's control?

Evaluating the impact of particular individuals or organisational groups with particular responsibilities for promoting educational development and innovation within a university is of particular interest in the context of the two case studies in this essay. Hall and Loucks (1978) developed a tool for evaluating the level of impact of an educational intervention or unit that is supporting innovation that is very similar in its structure to Rogers' scheme (above) but goes beyond adoption to the dissemination of the adopted practice.

- |   |  |
|---|--|
| 0 | Not aware  |
| 1 | Aware  |
| 2 | Informed   |
| 3 | Interested   |
| 4 | Exploring and evaluating                           |
| 5 | Adopting and adapting (individual)                 |
| 6 | Adopting and adapting (group)                      |
| 7 | Disseminating in a community within an institution |
| 8 | Disseminating across communities in an institution |

This scheme was adapted by Knight (2003:89-90) to create a tool for evaluating the impact of an Educational Development Unit on a university.

In concluding these comments on the evaluation of innovation in complex social environments like a university, it must also be appreciated that by its very nature, innovation is risky and unpredictable in terms of:

- which particular activity/intervention will work or prove useful or not
- who will benefit
- when exactly it will become useful and
- under which particular set of circumstances it will be useful
- whether the discovery and application will be as intended, or possibly of a quite different nature (Perrin 2000).

When academics try to enhance existing practice through an incremental change, there is a high probability of improvement. This is not the case with innovation which attempts to create something entirely new in that context.

One does not expect new concepts necessarily to work — indeed, if one is trying really new and unknown and hence risky approaches, most should *not* work (Perrin 2000). In business 'on average, good plans, people, and businesses succeed only one in ten times' (Zider (1998:136).

Innovation involves encouraging the generation of ideas and putting promising concepts to the test. Hargadon and Sutton (2000), Zider (1998) and others remind us that 'success' often only comes after initial 'failure'. Managing and minimising the risk of failure is a serious aspect of innovating in the higher education environment which has the responsibility to provide students with experiences that do not impact adversely on their learning.

It is right to be concerned about the potential adverse effects of innovation and to develop capability for managing risk, but over concern can reduce the capability to innovate and adapt and this holds an even bigger risk to universities. Christensen and Eyring (2011) have perhaps done more to raise awareness of this dilemma.

The current crisis in today's universities is real, and much of it is of the universities' own making. In the spirit of honouring tradition universities hang on to past practices to the point of imperilling their futures. When reduced budgets force them to cut costs they trim but rarely make hard tradeoffs. Nor do they readily reinvent their curricula to better prepare students for the increasing demands of the world of work. Paradoxically, they respond to economic downturn by raising prices. From a

market competition standpoint, it is slow institutional suicide. It is as if universities do not care what is going on around them or how they are perceived.

...the ideal of the traditional university with its mix of intellectual breadth and depth, its diverse campus social milieu, and its potentially life-changing professors, is needed now more than ever.

Yet to play its indispensable function into the new competitive environment, the typical university must change more quickly and more fundamentally than it has been doing....

The combination of disruptive technology and increased focus on educational outcomes opens the door to new forms of competition.. This is a situation that is ripe for disruption..

If [universities] cannot find innovative, less costly ways of performing their uniquely valuable functions, they are doomed to decline... Fortunately, such innovation is within their power.  
Christensen and Eyring (2011 xxii-xxv)

Christensen and Eyring crystallise the challenge for universities in a video interview for their book 'The Innovative University' <http://www.theinnovativeuniversity.com/about/>  
Here is an extract from the interview.

Higher Education historically has not been very good at finding out what students want and what they need. In the future there will be a wider array of choices for our students. When do I learn? Where do I learn? What do I learn and How do I learn? They will be able to make choices that are not only unique but which vary through time. And they are going to say this semester I'm going to go to college, or this semester I'm going to be at college but take half my courses on-line, or this semester I'm going to go to China and take only half of my courses and they will all be on line.

### **3. CASE STUDY**

#### **A Tale of Bottom-up Innovation Supporting Strategic Change**

##### **Introduction**

This illustrative story about trying to accomplish significant bottom-up change in a university is based on a study of strategic change at Southampton Solent University (Jackson in press), a medium size university of about 17,000 students<sup>v</sup>. The University's origins can be traced back to a private School of Art founded in 1856, which eventually became the Southampton College of Art. Mergers with Southampton College of Technology, and later the College of Nautical Studies at Warsash, led to the establishment of the Southampton Institute of Higher Education in 1984. Southampton Institute became a university in July 2005. The university is proud of its heritage with strong traditions in vocational forms of education particularly in business, technology, art and design, and maritime courses. Strong links with employers enable students to gain valuable work relevant education which strengthens their career prospects.

In 2007 the University's first Vice-Chancellor, Professor Roger Brown, retired and Professor Van Gore, who had been Deputy Vice Chancellor, took on the role of institutional leader. It is this point that marks the start of a new period of change. A new Pro Vice-Chancellor (Academic) was appointed in October 2007 and one of the first things she was asked to do was to co-ordinate the strategic planning process. The essence of the plan - a one page

presentation (Figure 7) was developed by the senior management team during Autumn 2007 and published early in 2008.

To secure the additional resources needed to accelerate strategic development the University prepared a bid for additional funding through HEFCE's<sup>vi</sup> Strategic Development Fund (SDF) whose purpose was to support change and innovation in the HE sector. The first stage of the bidding process was an exploration of options for strategic change conducted over 6 months the results of which fed into the bid for Strategic Development Funding to :

accelerate achievement of its Strategic Plan and enable the creation of a distinctive and different kind of University whereby the cultures of academe and business could be bridged to provide fit for purpose industry relevant programmes meeting the needs of employers, whilst offering learners an experience to enable them to function in a fast changing world. Southampton Solent Strategic Development Fund Business Plan abbreviated text p7.

**Figure 7** Southampton Solent University Strategic Plan 2008-13

<p><b>Vision</b></p> <ul style="list-style-type: none"> <li>• A vibrant, inclusive and successful University that is well known for the excellence of its work with students and employers and the effective integration of theory and practice</li> <li>• A stimulating student experience characterised by intellectual rigour, personal fulfilment and excellent career prospects</li> <li>• Imaginative external partnerships which develop the University and make a significant contribution to social justice and economic competitiveness</li> </ul> <p><b>Mission</b></p> <p>The pursuit of inclusive and flexible forms of Higher Education that meet the needs of employers and prepare students to succeed in a fast-changing competitive world.</p> <p><b>Objectives</b></p> <ol style="list-style-type: none"> <li>1. Inclusive and flexible forms of Higher Education that meet market needs;</li> <li>2. Imaginative working partnerships with Further Education and employers;</li> <li>3. A significant contribution to social justice and economic competitiveness for Southampton and its region;</li> <li>4. Knowledge creation and exchange that fuse academic rigour and professional practice;</li> <li>5. Excellent student employability;</li> <li>6. Entrepreneurship and diversified income streams;</li> <li>7. Changed employment arrangements that support high performance;</li> <li>8. Sustainable growth and investment in the estate.</li> </ol>
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The core ideas that formed the basis of what became known as the Strategic Development Programme or SDP are represented graphically as a series of three concentric circles Figure 8.

The outer circle contained three aspirational strategic initiatives - merger with a further education provider, co-location with a media company and the formation of a Marine Skills Hub that, if they came to fruition, would be funded by the university and its partners.

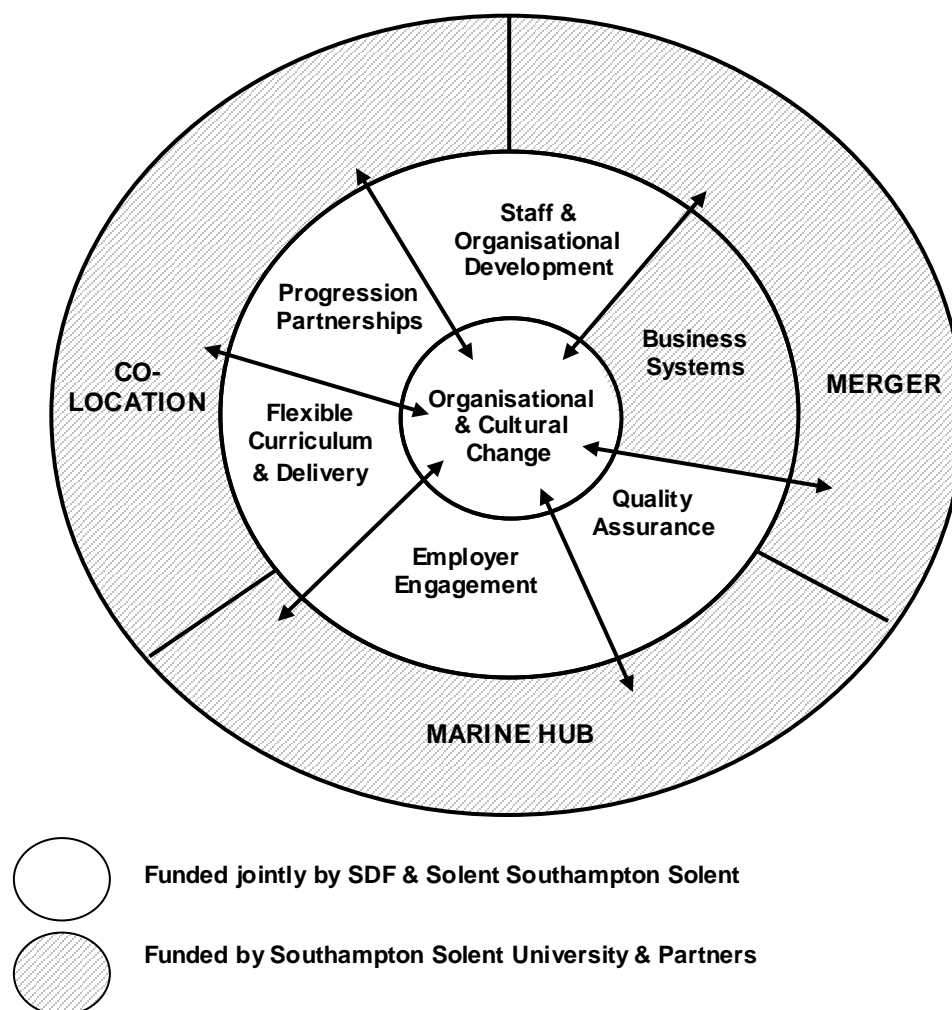
The middle circle contained five key areas for development that were being funded by HEFCE namely, staff and organisational development; progression partnerships; flexible curriculum delivery; employer engagement and quality assurance, together with new business systems whose development would be funded by the university.

The inner circle represents the fundamental change in culture that was anticipated as an outcome from the process.

The anticipated deliverables from the programme of development work in four areas of core activity - progression partnerships; flexible curriculum delivery; employer engagement and business systems development were detailed in a table of anticipated Outcomes and Outputs.

The additional resources from HEFCE (£7.4 million over 3 years) enabled the university to distribute over £1.3m per year to support educational change and innovation, with a similar amount (equivalent to the Full Economic Cost element) assigned to the development of new business systems. This was effectively the university's investment in its own infrastructure.

**Figure 8** Summary of the key elements of the Strategic Development Programme. SDF bid p6



## Leading and Managing Significant Change

The strategic change process was led by the Deputy Vice-Chancellor (Academic) and it is important to note that this leader has remained with the project from conception and design to completion (over 4 years). The programme leader viewed SDP not as a discrete project but as part of an integrated portfolio. This enabled connections to be made that might not otherwise have been made and allowed for the emergence of opportunities that had never

been anticipated. The leader acted as a 'broker' to bring people, resources, challenges and opportunities together - to make something happen or create something new.

I think that brokerage is part of my role. The difficult balance all the time is making sure that you are alert to what people are telling you, that you are listening very carefully as well. ....It is a very privileged position to be able to see not only what is going on across a programme of activity such as this, but also to have an overview of what is going on in terms of the university's other activities. I saw one of the key parts of my role was to be a champion for SDP at the highest levels of the university, but also, and probably more importantly because in the end it's the real work, to see those connections between what the university was doing and what was happening within SDP so that if there was some mutual advantage there we didn't miss the moment. And I've really tried throughout the whole project not to miss the moment, and that's impossible to write into a project bid or a timeline or anything like that. But it's been absolutely key because those opportunities come up and sometimes you just have to take it at that moment and see those connections and do it. Many of the things that emerged from SDP would not have happened any other way. So perhaps that's been the most important contribution I've been able to make to ensure that the vision that we have for SDP could be realised, the constant searching for the opportunities, linking up, connecting things.....sometimes I feel like I'm just weaving all the time, just pulling threads across, knitting them together and weaving them. *DVC Academic*

It has often been said that managing change where academics are concerned is like herding cats (Garrett and Davies 2010) and the use of project management methodology to manage innovation in the academic environment has the potential to create cultural and procedural dissonance (Kenny 2002). Bates (2000) compared a university to a "Post-Fordist" organisation - a term used to describe an organisation, where teams of largely self governing experts are loosely held together by a common goal or purpose, only in universities there are at least two purposes formed around teaching and research and these are not always well connected.

The SDP-bid identified the need for a dedicated team to manage the three year programme so the appointment of a Project Manager and the rest of the team was an important step early in the life of the programme.

The absolutely key element was appointing [the SDP Manager] to oversee the management of the project. Appointing someone who was willing to work with all of the complexity and ambiguity resulting from the way we were running the programme was vital. She has such an amazing range of skills and an ability to work with this type of programme. If we'd not made the right appointment there I think it's unlikely we would have been able to complete the work as well as we have done. *DVC Academic*

Here we see some of the qualities required for managing a large scale change project in the sort of organisational situation described by Bates (2000) who highlights the tension between the classic project management approach used in business environments and the traditional way in which academic staff in a university work. The cultural aspect of the independence of academics and the nature of their work, in which they have a range of teaching and other responsibilities, makes traditional project management practices problematic for educational development projects in which they are involved. In an attempt to overcome these challenges Bates (2000:73) advocated 'a much looser project management approach that specifies responsibilities and completion dates but does not attempt to quantify every activity on a micro level'.

One of the cultural issues relevant to change in a university is the tradition of deliberation and critical analysis which pervades every aspect of academic life. This can lead to inertia, a tendency to prevarication and a reluctance to make decisions to act. An underpinning philosophy of the SDP Team was the belief that change will only happen if people engage in activity that is likely to bring about change.

[The SDP Manager] is notorious for sometimes getting into trouble because she would say "Just do it. Just get someone in. Let's just do it," and riding roughshod over all the HR protocols...it was sometimes perceived as being a bit too hasty and too none democratic..but it did mean that things happened and we could make progress.

Interestingly, the Project Manager, brought with her a model of organisational change that viewed the university as a complex adaptive social system (Stacey 1996) and this way of thinking influenced the small project management team.

[the SDP Manager] based our approach on something called – complex systems. ...she kept thrusting things in front of me which I probably should have read more thoroughly. But I sort of got it. I got what she was trying to do and we tried to work in an emergent sort of way. But we didn't know it was a theory called complex adaptive systems *SDP Team member*

The important thing was that this way of thinking chimed with the way the project leader also believed that strategic change should be approached. Both the leader and manager respected the emergent and adaptive nature of change and the need to 'watch in anticipation' that good things would emerge if the right conditions were created. Such a perspective has important implications for the way the SDP and organisational development within it was conceptualised and implemented.

There are many indications that project management was conducted in a way that was sympathetic to the way Bates (ibid) considered it had to be conducted in a university setting.

The SDP Team fulfilled a number of important roles including: building trusting relationships with staff, sensing the needs and interests of the university community and how they aligned to the needs and interests of SDP. The role involved promoting the SDP and raising awareness of the opportunities it provided through events that they organised. It involved finding people who had ideas that they wanted to turn into new practices and encouraging and mentoring colleagues so that they were able to secure the resources to undertake this work. It also involved monitoring progress and holding those who received funding and support to account so that they could provide feedback to the Management Board. Above all the role involved putting their energy, enthusiasm and creativity into the process of engaging the university so that the intended outcomes could be achieved. These roles were complex and interconnected and they involved participating proactively rather than reactively in the change process.

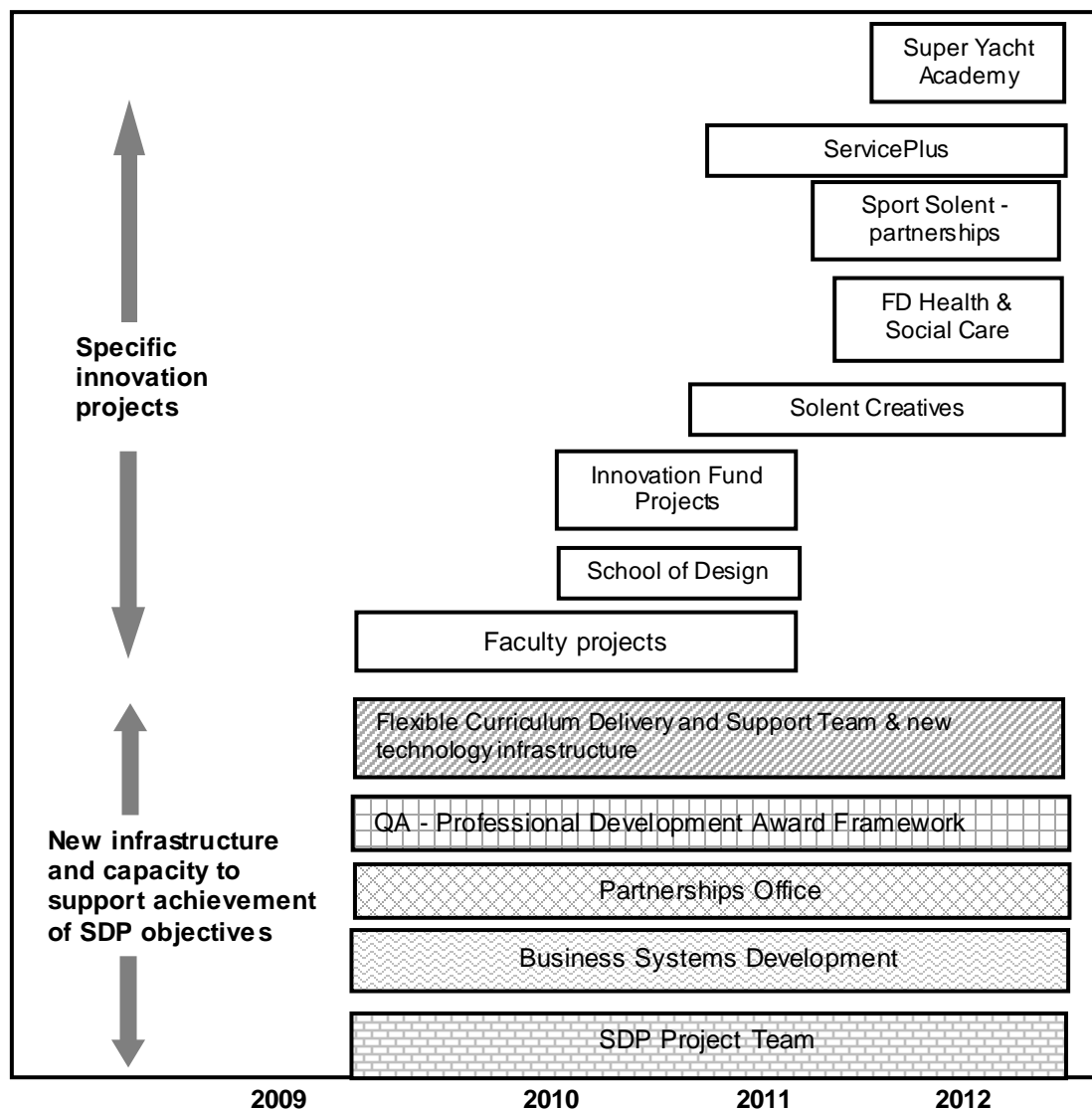
## Pattern of Development

The SDP has a *beginning* in which the focus was on engaging Faculties and the building of infrastructure to support the changes that were anticipated. A *middle* during which many experiments were undertaken and the best ideas were implemented, and an *end* which was focused on consolidating the gains that had been made. But like all organisational change there is never really an end as the continuous process of change means that ends are



merely the platform for new change. Another way of describing the overall pattern of development is that the first two years of SDP were focused on achieving the objectives set out in the SDP plan through Faculty- and Service-based projects. The final year of the programme was about sustainability and making decisions about which parts of the SDP to maintain as part of business as usual and supporting staff in developing their capability and confidence to move the organisation forward. Figure 9 provides a map of the significant elements of the process and provides a timeline for locating the case studies described in subsequent chapters.

**Figure 9** summary of some of the major activities undertaken within the SDP over the three years of the programme. Innovation case studies (unshaded boxes) described by Jackson *ibid* are located on this timeline.



The story of SDP is complicated because it involves change within particular organisational structures like Faculties, Schools, Services and individual subjects and programmes. But it is a story whereby successful achievement in these areas has been enabled or facilitated by central infrastructures like Quality Assurance, Partnership Team, Flexible Curriculum Delivery and Support Team and a variety of new business systems. When these two dimensions of change are integrated change can be viewed through the lens of the broad

themes that SDP was intended to address namely - employer engagement, flexible curriculum and delivery, and new partnerships for progression.

While innovation was only one aspect of the comprehensive change that SDP was intended to promote, the aspiration to innovate was deeply embedded in the change strategy. But how did the people who brought about the changes described in the case studies view the changes they had accomplished?

Academics are modest in the claims they make about their own contributions to the development of practice but they are no strangers to change, designing and implementing new curricula, teaching, learning and assessment practices is a part of everyday life. But SDP provided the Southampton Solent academic community with encouragement and support to engage in more significant change and innovation. This distinction of significance was made by many contributors during interview who emphasised that what they had done was more than the incremental change that characterises every day work.

## Types of Educational Innovation

The types of educational innovations accomplished within SDP are rich and varied and they extend across all four faculties and several non-academic areas. Examples are shown in Table 4 using the twelve dimensions of business innovation diagram Figure 5 (Sawhney et al 2011: 30) as a mapping tool.

Consistent with previous studies of innovation in universities, interviewees recognised that their educational designs and experiences were new and original to their own thinking and practice and to their own context but they could not always appreciate the significance of their inventions in the wider university context and beyond. To understand the wider implications they needed the perspectives of others who were better placed to make that judgement eg members of the SDP team or senior managers.

**Table 4** Examples of SDP educational innovations using the twelve dimensions of business innovation diagram Figure 5 (Sawhney et al 2011: 30) as a mapping tool.

### ***What? new offerings***

New types of educational programme like the:

- Foundation Degree Health and Social Care designed, delivered and resourced in partnership with a local Hospital Trust.
  - MSc Shipping Operations
  - new designs for professional development units in areas where there are known to be markets
- New types of experiences for developing employability skills
- within existing programmes eg real world design, manufacture and marketing of garments in fashion courses
  - new opportunities for freelance work with employers in the creative arts through Solent Creatives

### ***Who? new customers***

New types of learner like :

- distance learners who are working at sea served by the MSc Shipping Operations or SuperYacht Academy
- learners served by new professional development units in areas where there is a market for this type of provision.

### **How? new processes**

New business systems and processes

New delivery and marketing platforms - Solent Virtual Campus, SuperYacht Academy

New networks through the assimilation of existing networks from outside the university into the university structures Solent College School Partnerships

New problem solving and opportunity creating practices -

### **Where? - new points of presence to take offerings to market**

New relationships with FE colleges to improve student progression.

New relationships/strategic alliances with employers to create new co-designed programmes like the Foundation Degree Health and Social Care

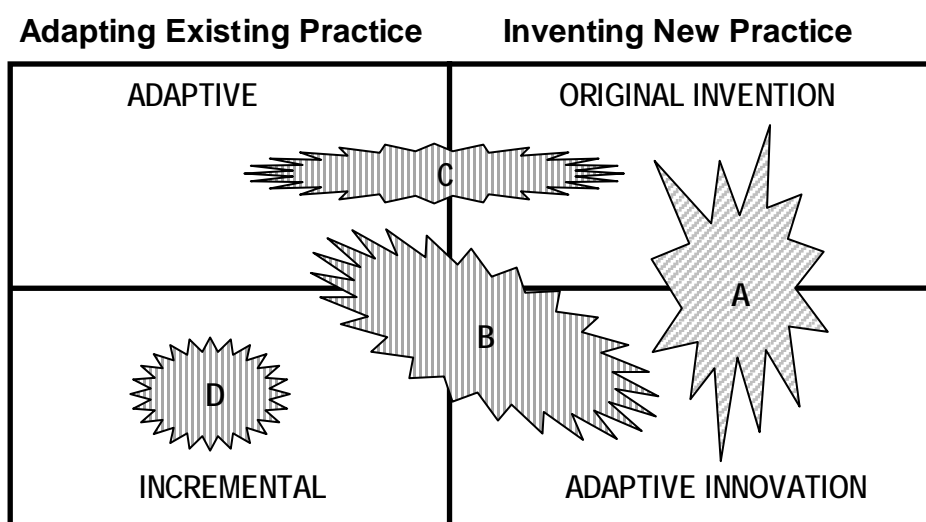
New relationships with schools and colleges through the sports partnership

Contributors to the SDP case studies were invited to locate their own project in a framework (Figure 10) which categorised change as either essentially building on existing practice (either incrementally or more adaptively) or essentially inventing new practice where non-existed before, perhaps incorporating some elements of things that existed before but conceptually creating an entirely new process, service or product. The following conclusions can be drawn from these patterns of change.

Firstly, very few of the SDP innovations described in the case studies (Jackson 2013) were entirely new inventions created from a blank sheet of paper - all incorporated elements that had existed before into entirely new designs for services and processes. Essentially new inventions for the institutional context incorporating some existing elements (A domain in Figure 10) include: the 1) MSc Shipping Operations, 2) Foundation Degree in Health and Social Care, 3) Solent Creatives 4) Warsash SuperYacht Academy (see Jackson 2013 for descriptions of these innovations).

The second pattern of innovation (B in Figure 10) is one where the orientation is on transfer and assimilation, followed by significant adaptation such as occurred when Sport Solent appropriated an existing external network structure into the university, assimilated it into its structures and then began adapting it by introducing new elements and connections.

**Figure 10** Summary of types of innovation found within Southampton Solent University's strategic development programme (SDP)

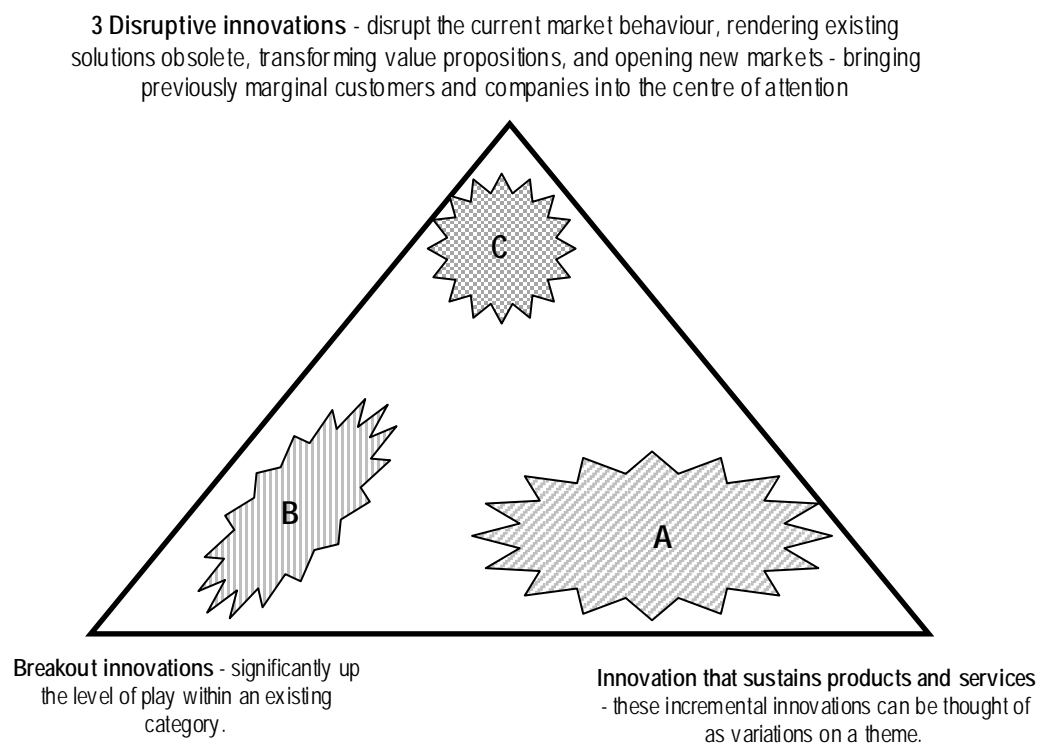


Some innovators also recognised a combination of adaptations of home grown practice combined with original invention (pattern C) such as was found in the School of Design's 'Collegiate range' and 'Industry-school partnerships' projects.

The fourth pattern of change associated with the SDP innovations was the shift to incremental change once the main change had been accomplished (D). All the case studies reveal this pattern once they have been through the first cycle of implementation.

Using the tool developed by Wai (2011 and Figure 11) there are examples of SDP innovations in all three categories. Innovations that fall into the sustaining products of services category include most of the innovations that were created through the SDP Innovation Project Fund (Jackson in press). Examples of sustaining innovations include the introduction of new software to create better reading lists or the introduction of text messaging to improve access to the library enquiry service. Most of the innovations described in the School of Design SDP project also fall into this category. The university's attempts to involve its administrative teams, by building a culture of continuous improvement through the Service Plus approach to identifying and solving problems, might also be placed in this category of innovation. Another significant area of development work was focused on business systems and the processes that underlie them. These are best seen as structures that support and enable the other innovations. In that sense they are sustaining innovations but they pave the way for others to create breakout and disruptive innovations.

**Figure 11** Summary of types of innovation associated with SDP case studies. See text for explanations of letter coding.



In the breakout innovations category we are dealing with significant improvements of existing products, services or processes, such that it sets new standards. SDP

innovations that fall into this category include Warsah SuperYacht Academy which created a new portal as a way of representing and marketing its educational opportunities and other services to a niche market that Warsah Maritime Academy was already serving. There are other players in this field but the portal sets new standards in targeting and presenting educational and training opportunities to a niche market. Furthermore, this innovation could combine with the type of on-line delivery developed in the MSc Shipping Operations to create an innovation that was disruptive.

The Foundation Degree in Health and Social Care might also be described as a *breakout innovation* because the change has 'significantly upped the level of play within the category of activity called 'working with employers to provide learning and development opportunities for their employees.' In developing this programme which closely relates to the needs of a specific employment sector, using new principles of design (a structure based on self-contained Professional Development Units - PDU's), it might also be deemed 'disruptive' as it is opening up entirely new markets. Perhaps it is also disruptive to thinking within the university in the sense that 1) it offers a new model for working collaboratively with employers in the co-design and co-delivery of learning and 2) this new form of collaborative provision is challenging traditional ways of organising and allocating resources and making decisions. Because of this it may lead to new forms of organisation and new business models.

Some innovations span more than one innovation category, especially if they are viewed from different user perspectives. For example, from the perspective of someone working in a local school- Sport Solent's School and College Partnership scheme could be described as an innovation that *sustains services* (services that had previously been provided by someone else). However, from the university perspective this is more of a *breakout innovation* because the change created an entirely new network structure which effectively created an entirely new university service enabling students to find high quality work placement opportunities in sport-related professional fields.

Three characteristics distinguish disruptive innovation from regular change (Clayton et al 2011, Soares and Morgan 2011). Firstly, disruptive innovators target their service or product at the needs of a new group of customers. Initially, this may be a local niche market but over time attempts are made to expand from local to regional, national and international markets. Where a product or service already exists, the 'disrupter' provides a simpler, more affordable product than the one offered by other companies but often there is no suitable product or service in an entirely new market. These new customers have a different job they want done to what higher education normally provides. The second characteristic is that disruptive innovation uses enabling technology which simplifies and routinises the way a company delivers its service or product. The third and final characteristic is that disruptive innovation eventually gives way to a new business model—a new way to organize the people, technology, and processes to deliver a service at a lower cost in an expanded market. The new business model allows disruptive innovators to beat their competitors who are unable to respond because they are locked into an old, clunky business model.

From the characteristics described above, the best example of an SDP innovation that meets these criteria is the MSc Shipping Operations which is seeking an entirely new market (professional learners who are at sea) and has adapted its expertise in maritime

education face to face delivery to on-line delivery. The programme is designed in both a continuous and small course Professional Development Unit (PDU) format again to meet the needs of these types of learner. Learners make use of their own professional experiences and the technology permits interaction with other learners even though they may also be at sea. Technology, in the form of a new delivery platform, is clearly the enabling device. But the teachers have had to adapt and develop new forms of pedagogy to support and deliver this type of programme.

## Innovator Perspectives on Accomplishing Change

The innovation of professional practice is a highly situated phenomenon. Only the people involved can see the possibilities and turn their imaginations into new practice that has meaning in and beyond their context. One of the important contributions that the innovators can make to organisational learning, is to share their perspectives on the factors that enabled or inhibited change in their particular contexts.

A questionnaire was developed from a pilot study within the larger SDP study which identify factors that seemed to be important in enabling change to happen. These factors showed a remarkable degree of consistency with a recent study conducted by Amabile and Kramer (2012), of factors that influence inner work life, which in turn impact on employee performance and creativity in the work environment. A small number of additional factors were incorporated into the questionnaire from this study. A total of twenty two factors were identified in the questionnaire and twenty one people who were involved in SDP innovations completed it. Their responses are summarised in Table 6

The most striking conclusion is that all these factors are important to people when they are undertaking significant change. 21 of the 22 factors scored an average of 4 or more, and 19 factors scored 4.3 or more (max 5.0). The only factor to score less than 4 was (1) 'Having a clear vision of how the university saw its future and how SDP contributed to that vision.' However, most innovators had a clear vision of what they wanted to accomplish. Their vision is clearly more important to them than the strategic vision of the institution.

The highest rated factors scoring 4.5 or higher (max = 5.0) were -

- 2 My readiness and willingness to get involved in the opportunity provided by SDP
- 3 My vision of what I wanted to achieve
- 4 My will/motivation to succeed with something I cared about
- 12 Having good communication with the people I needed to talk to
- 13 The active involvement of others - good teamwork
- 15 Feeling trusted and being allowed to get on with it without interference
- 16 Feeling that I made good progress within the time available
- 17 Feeling that what I was doing was valued by my colleagues

Personal characteristics (my will, my vision, my readiness) feature prominently in what is important, together with the way people wanted to be trusted and feel that their contributions would be valued. High value is also placed on communication, the social dimension of work and the need to make progress. The large number of factors innovators believe are involved in enabling innovation to be accomplished is striking and accounts for some of the complexity involved in innovating.

**Table 6** Innovator ratings (n=21) of the importance of a range of factors in enabling them to accomplish their innovation A) importance to them B) extent to which this factor was realised.

	A					Av	B					Av
	Not very important		important		Not realised		realised					
	1	2	3	4	5		1	2	3	4	5	
1 Having a clear vision of how the university saw its future and how SDP contributed to that vision		1	4	12	3	3.7						3.8
2 My readiness and willingness to get involved in the SDP opportunity			1	5	15	4.7			2	8	11	4.4
3 My vision of what I wanted to achieve			2	7	12	4.5		2	4	9	7	4.1
4 My will/motivation to succeed with something I cared about			1	9	12	4.7		1		13	7	4.2
5 Having explicit goals and realistic work plans to achieve my objective		1	1	8	11	4.4	2		8	5	6	3.1
6 Having the autonomy to implement the project as I wanted to		1	2	8	10	4.3	1	1	5	8	6	3.8
7 Having the opportunity to use my personal creativity	1	1	3	5	11	4.1		1	7	8	5	3.8
8 Believing I could take risks without feeling I would be criticised if I wasn't completely successful	1		1	9	10	4.3		3	3	7	8	4.0
9 Having the financial resources I needed when I needed them			1	7	12	4.3	1	2	4	11	3	3.6
10 Having the time I needed to complete the job			1	10	10	4.4	2	4	8	6	1	3.0
11 Being able to find the help I needed when I needed it			2	10	9	4.3	1	1	12	6	1	3.4
12 Having good communication with the people I needed to talk to			1	9	11	4.5		3	7	6	5	3.6
13 The active involvement of others - good teamwork				6	15	4.7			5	11	5	4.0
14 Learning through the experience (learn from problems as well as success)			2	11	8	4.3			3	12	5	3.9
15 Feeling trusted and being allowed to get on with it without interference				7	14	4.7	1		2	10	9	4.4
16 Feeling that I made good progress within the time available			1	8	12	4.5	1	1	4	7	8	4.0
17 Feeling that what I was doing was valued by my colleagues			2	6	13	4.5		1	4	10	6	4.0
18 Feeling that what I was doing was valued by Head of School/Service/ Dean			3	7	11	4.4		1	8	8	4	3.7
19 Forming new productive relationships with colleagues in my school or elsewhere in the university		1	3	7	10	4.2			3	10	8	4.2
20 Forming new productive relationships with people outside the university		1	2	8	10	4.3		1	4	8	8	4.1
21 Feeling that the environment encouraged and supported me throughout the process especially when things did not go as planned			2	11	8	4.3	1	3	9	6	2	3.2
22 Feeling my contribution to the SDP has been recognised and appreciated			1	12	8	4.3		2	4	13	2	3.7

Innovators were invited to consider the extent to which each factor was realised through their particular SDP change project. The general conclusion here is that there is often a gap between innovators ratings of the importance of a factor in accomplishing significant change and the extent to which it was realised in their particular innovation process.

Eight factors had significantly lower average scores for realisation compared to the average scores for what was believed to be important, namely -

- 5 Having explicit goals and realistic work plans to achieve my objective (3.1 versus 4.4)
- 9 Having the financial resources I needed when I needed them (3.6 versus 4.3)
- 10 Having the time I needed to complete the job (3.3 compared to 4.5)

- 11 Being able to find the help I needed when I needed it (3.0 versus 4.4)
- 12 Having good communication with the people I needed to talk to (3.6 versus 4.5)
- 13 The active involvement of others - good teamwork (4.0 versus 4.7)
- 18 Feeling that what I was doing was valued by the Head of School/Service or Dean (3.7 versus 4.4)
- 21 Feeling that the environment encouraged and supported me throughout the process especially when things did not go as planned (3.2 versus 4.3)

These factors boil down to a combination of having the resources to complete the task of innovating, and innovating in an environment that supports and values the efforts of the innovator. In other words there was a consistent pattern of responses that suggests that there is a gap between the type of environment innovators believe is important to bring about innovation successfully and the environment that they experienced while they were innovating. Closing this gap would go a long way to creating an organisational culture that was as supportive of innovation as the innovators would like it to be.

#### **4. IMPORTANT FACTORS INVOLVED IN FACILITATING BOTTOM-UP INNOVATION THROUGH STRATEGIC CHANGE**

The study of strategic change at Southampton Solent University demonstrates the value of bottom-up innovation within a comprehensive and sustained strategic change project. While top down initiatives, like the introduction of new business systems and processes are essential to enabling a university to be more effective, responsive and adaptive in its educational work, it is the innovators who provide the key resource to enact and embody the significant educational changes the university is trying to make. The study reveals that innovators thrive in an organisational culture where leaders and managers are encouraging, supporting and enabling. Where they have the resources - especially time to make change happen. Where the institution's systems and procedures enable rather than hinder progress. Where they have the respect, emotional support and encouragement of managers and colleagues and where they can find help when they need it. Where they feel their efforts have been valued and have made a positive difference.

It stands to reason that for organisational change to be successful the conditions and situations embodied in the factors that innovators consider to be important in accomplishing significant change (Tables 6 & 7), have to be supported and realised. Eleven factors, identified and elaborated below, provide an overarching framework within which bottom-up innovation is more likely to be encouraged, supported and facilitated within a process of strategic change.

##### **1 Leading strategic change is shared and distributed**

*Whole organisation change is led from the top, middle and bottom. Leadership is shared and distributed throughout the organisation and innovators must be viewed as leaders of strategic change.*

Leading from the top involves visualising the future and creating the conditions that motivates people to move the organisation in the direction of that future. It requires an integrating style able to hold the vision and deliver on commitments, but which is also open, flexible and



trusting to allow ideas to emerge from the middle and bottom, and enable people to take ownership and exercise their autonomy to create and implement change. It involves trusting people to create the change once the direction has been set and encouraging and supporting the right sort of changes as they emerge.

Leading from the middle requires managers to accept responsibility for involving their Department, School, Faculty or Service in the strategic change and creating the conditions that encourage and enable their staff to participate in change. Leading from the middle involves translating organisational objectives into objectives that are meaningful in the local socio-cultural practice environment. Leading from the middle does not mean 'go and do it' it means 'we will do it together.'

Leading from the bottom involves individuals accepting responsibility to make change happen by adapting existing or inventing new practice that is consistent with the change the institution is seeking to make. The innovators are people who lead change by involving themselves in it and showing others how to accomplish it.



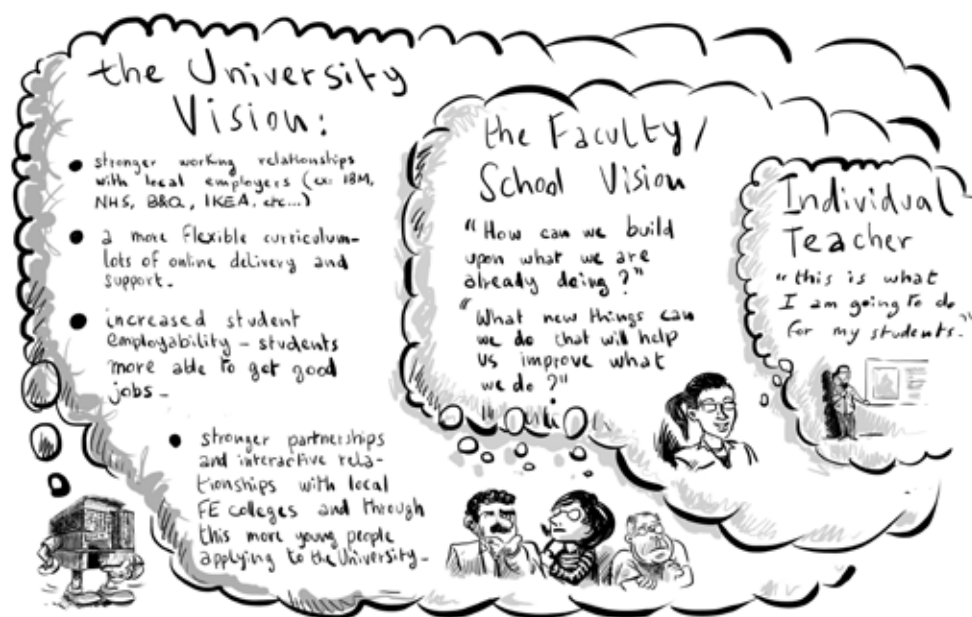
There is one secret to leading organisational change. The leaders at the top and in the middle have to create the conditions in which people at the bottom feel empowered and are enabled to change themselves and their own practices in order to make strategic change happen. This is a shared concept of leadership in which leadership is broadly distributed, such that people within a team and organization lead each other. It is a social, non-hierarchical concept and contrasts with more traditional notions where leadership roles are vested in individuals appointed by management.

## 2 A vision that inspires people to create their own visions

*An organisational vision for strategic change must encourage and enable people to create their own visions through which they can enact and embody change that they own. The secret of encouraging bottom-up innovation through strategic change requires people to connect their own visions for educational change with the institution's strategic ambition.*

Organisational change involves someone with the power and authority to see the direction in which the organisation needs to travel and communicate that through a vision for a different and better world. An organisational vision for strategic change, must encourage and enable people to see things in a different way and inspire them to create their own visions through which they can enact and embody change that they own. A vision at the top is of little value if people at the bottom cannot understand and relate it to their world of everyday practice. Middle managers have an important role in translating high level ideas and engaging staff in new conversations about the implications of such ideas.

The SDP vision was simple and clear, and consistent with the University's strategic plan. But the vision has to be interpreted and animated through conversation so that they enter the imaginations of individuals. The SDP Team and the SDP Project Leader played an important role in communicating the vision to all parts of the university but middle managers were key to translating the vision into ideas that their staff could create meanings that related to their everyday work.



## 3 A strategy for both planned and emergent change

*To be successful a strategy for significant change has to be owned at the top, middle and bottom of the organisation. Strategy needs to balance the needs for planned action with the need to create the conditions that encourage an organic and emergent process of change in the practice environment.*

The university set out to transform itself through the SDP and investment in bottom-up innovation formed a significant part of the strategy. The architects and managers of the strategy were aligned in their thinking and action was coordinated and sustained in a consistent manner over time. Furthermore the vision that was communicated and the support that was given from the top encouraged and enabled people in the middle and bottom of the organisation to interpret the SDP goals in ways that were meaningful to their own contexts and practices.

You have to balance the pursuit of aspirations and goals with taking advantage of unanticipated opportunities. Managing this part of the strategy process is often the difference between success and failure for companies.. (Christensen et al 2012:42)

For a strategy to be successful it needs to involve deliberate planned actions to achieve tangible objectives and goals but also contain the space and intention to improvise as new and better ideas emerge. It needs to encourage, stimulate and support activity that will lead to change and provide sufficient resources to enable change to happen and ensure that people involved in change have the necessary resources when they need them. This process of connecting top, middle and bottom in this way is more likely to create ownership and responsibility for ideas and actions so that the change that emerges is owned at all levels of the organisation.



Emergence cannot be controlled, predicted or managed but the leaders, managers and facilitators of organisational change can create conditions that are more likely to lead to changes of a certain type (Richard Seel's ten conditions for emergence are highly relevant here - Seel 2006). The successful management of change combines and integrates managed, purposeful and focused change through planned activities that enable and encourage people to *improvise and discover* the best ways forward for themselves.

#### 4 Capacity to broker and facilitate organisational change

*The involvement of brokers to facilitate and manage strategic change within and across the cultural and practice grains of a university and between the cultures of different organisations*

The SDP team played a key role in supporting this strategy for emergence. They encouraged and facilitated staff engagement and cultivated relationships and activities. They performed a 'brokerage role' which Jackson (2003) considers an essential role in bringing about change in complex organisational systems. Organisational brokers work in collaborative and creative ways with people, ideas, knowledge and resources to enable things to happen that otherwise would not happen. Brokers are a kind of multi-skilled anthropologist who can get inside and comprehend not just needs and desires, but the language, politics, positioning and outlook of the different parties (Barnett 2003:xviii).

Given the organic nature of the emergent process they were trying to facilitate, the SDP team's brokerage role might be characterised through the metaphor of gardeners cultivating the conditions for SDP projects to flourish and enable people with new ideas and practices to grow through the process of enacting change.

Overcoming inertia and securing initial engagement is the most difficult thing to achieve in bringing about change in a university. Like all good gardeners the SDP team were proactive, they 'nudged' people into action and encouraged them to take risks - sometimes in opposition to established procedures. Like good gardeners the SDP Team kept a watchful eye on their garden. They were the eyes and ears of the institution gathering information relevant to accomplishing change and monitoring and documenting progress and making small interventions where they believed more growth could be nurtured. As some of the case studies reveal, bringing about change, especially when it is on top of an already busy life, can cause anxiety and be very stressful. On occasion members of the SDP Team provided emotional support, 'a shoulder to cry on', or took on a coaching/ mentoring role suggesting that they were also involved in the empathetic management of anxieties within the SDP process. The SDP Team was also proactive in sowing new seeds (eg involving new people), propagating ideas and disseminating the results of innovation.



The SDP Team with its overview of the 'Solent garden' and its expertise in organisational change was also able to appreciate what was missing. The willingness to try out new techniques and take risks, led to the introduction of entirely new and novel approaches to organisational change, such as the ServicePlus approach.

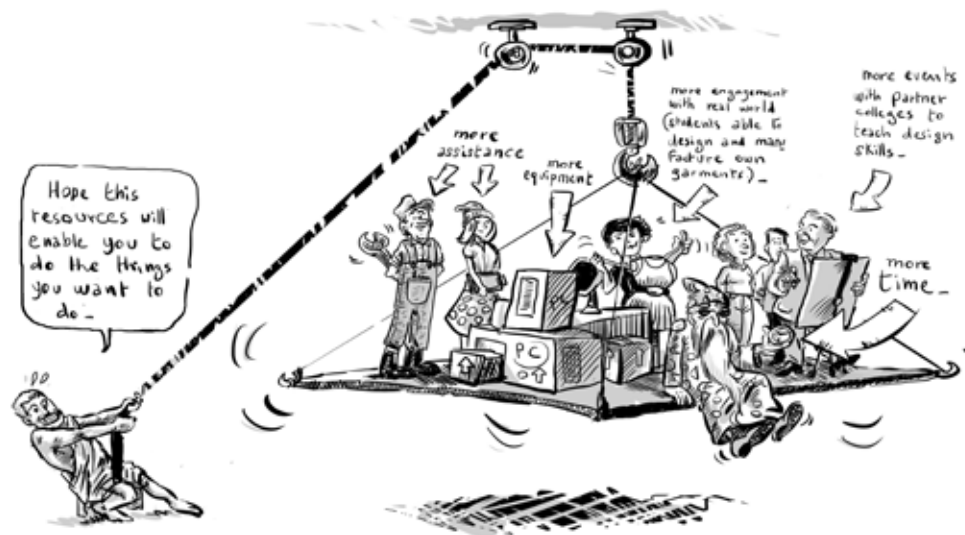
Like all good gardeners the SDP Team accumulated and used the knowledge that they had gained about what works or doesn't work. This book is just one example of the concern for consolidating and applying the learning that was gained.

The change programme also utilised brokers who spanned organisations. For example, the secondment of a member of the Southampton Hospital NHS Trust to the University resulted in a number of innovations that would not have been possible without their involvement.

## 5 Effective but flexible approach to managing and accounting for resources

*Changing an organisation requires new resources or the redistribution of existing resources - the most important of which is time. Resourcing change that is emergent requires a more flexible and adaptive model of distributing resources than is used in more predictable operational processes*

Real strategy in companies and in our lives is created through hundreds of everyday decisions about how we spend our resources. As you live your life from day to day, how do you make sure you are heading in the right direction? Watch where your resources flow. If they're not supporting the strategy you've decided upon, then you are not implementing that strategy at all. (Christensen 2012: 62)



Large scale organisational change requires the distribution of significant new resources. While it is a straightforward matter to distribute and account for resources in a system that is operating in a business as usual mode, it is not so easy when the business is change and much of that change appears in an emergent form. The case studies reveal that from the innovators' perspective resourcing mechanisms were not always responsive to the emergent nature of the change process.

Large publicly funded projects in universities are often overseen by a Steering Committee whose purpose is to ensure that there is proper and effective accountability. For the SDP project the decision was taken to use the existing university 'Management Board', the senior collective managerial decision making body of the university to provide the supervisory and project approval function. This governance mechanism was efficient in terms of the use of managerial time and they served the project well: the downside was that SDP was treated as one item in a busy and competing business agenda and the structure did not encourage the growth of new institutional champions beyond the membership of Management Board.

People who were directly involved in change discussed resources in terms of their time and workload, and their ability to manage their time for development work alongside existing teaching and administrative commitments. Being able to manage and juggle time for development and existing commitments is an essential capability for all those involved in change. For academics the additional complication is managing time within a fairly rigid academic calendar and weekly timetabling.

SDP resources provided additional capacity to employ knowledgeable consultants, or administrative or technical assistance from people within and outside the School. People also talked about resources in terms of funding and physical resources like equipment, the manufacturing of products created through an educational process, and social activity like hosting events and exhibitions for students from local 6th Form Colleges. The Strategic Development Fund was able to help with all these things.

SDP provided a reason and focus for change and through the resources it provided it enabled more ambitious change to occur than would have been possible through the normal incremental change process. SDP was able to provide time, support and funding that was not otherwise available, thus acting as a catalyst to enable individuals to actualise their ideas

I mean bottom line, it gave us the cash, so it bought time and it bought people like the part-time lecturer. We could pay her to undertake that research. We could pay a student to upload, so it gave us the cash and freed up some of our time to get involved with it as well through remission.  
*Innovator*

Transparency and fairness in how resources are allocated to where they are needed is an important aspect of involving people in change.

*Faculty Dean* We had to create a fair system. It was creating that fairness that was the hard bit.

*Interviewer:* So creating a fair system sounds like an important thing to do when you are trying to get buy-in above and beyond the day job.

*Faculty Dean:* Hugely, it is massively important to me....The teams know that work with me that I will be awfully fair about sharing out the workload and sharing out the rewards that come from it as well. You do get money that comes in. I have gone over backwards to be transparent about it.

The downside of upfront planning and resource allocation is that estimates have to be made in advance of the problems, challenges and opportunities being known. Consequently it is difficult to anticipate needs and match actual requirements particularly in response to the unforeseen challenges of radical change.

I think .....more resources would have been helpful because ..... they didn't realise how big each project was, so ideally each of those projects should have had an extra person giving their assistance and that would have been very helpful to all of them actually. *Innovator*



When such transparency is not achieved, and the people involved in bringing about change feel there is a mismatch between what they are being asked to do and the resources that are available to do it, there is dissatisfaction and a loss of morale. As one innovator explained.

[there was resource, but there wasn't sufficient resource to do what we had to do] It required the goodwill of people like myself and my colleagues to work holidays and not have a break basically, it pushed us to the limit, it really did push us to the limit. So, again, I wouldn't say it was rational because it's about power and politics, you know, it wasn't allocation on the basis of this is what's needed here and that's what's needed there, it was, you know, there were certain things going on at levels I wasn't involved in that meant that it wasn't transparent so I wouldn't say it was rational in a way everyone understood. *Innovator*

## **6 People must create change - involving people in changing is crucial**

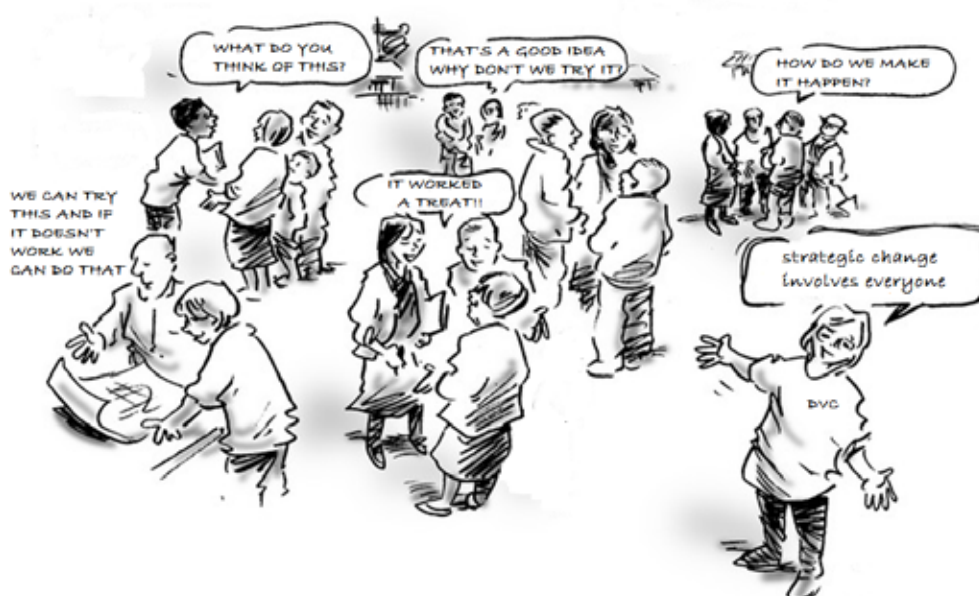
*Strategic change must involve the whole organisation. It involves working within, across and outside the cultural and practice grains.*

Underpinning the SDP strategy was a belief that change will only happen if people do new things ie change comes from acting, doing and making rather than just thinking and talking about it.

Another important belief underlying the strategy was that change must involve most of the people in the organisation. The SDP sought to involve the academic (faculty) teaching community in all the Faculties and Schools through the funding of innovation through Faculties, Schools and individuals. It engaged Faculty and Service Administrative teams through the Service Plus project that sought to involve administrators in creating solutions to

problems and challenges. Furthermore, by changing a number of business systems that were central to many of the university's operations it involved all staff in fundamentally new practices that were more in tune with the strategic changes the university was seeking. The feeling that everyone was involved, and change was not just targeted at a specific group of people was an important factor in accomplishing change at the organisational scale. By offering incentives to stimulate change and innovation within academic Faculties and Schools the university was seeking to work within the disciplinary cultural grain.

By supporting individuals and teams with central expertise, for example in the design of on-line flexible learning, the university facilitated development and innovation in the Schools that was more consistent in its outcomes and quality standards than if development had been entirely from within the School. There are many examples of the university supporting innovation within the cultural grain to achieve the global objectives of the SDP in ways that are appropriate and relevant to the discipline area.



Working across the academic cultural grain has been accomplished through the introduction of new business systems and through the Service Plus project which is increasingly involving teams containing both academics and administrators.

Working outside the existing cultural grain is witnessed in the Foundation Degree in Social and Health Care and more recent spin-offs where university staff are working in partnership with employers who have a very different cultural heritage to that found in the university.



*People are more likely to commit themselves to significant change if their will to be involved is driven by their own intrinsic motivations rather than extrinsic forces. Giving people the choice or freedom to choose to be involved seemed to be crucial for involving innovators*



*Giving people the opportunity to use their creativity to bring about the changes they would like to make is the best way of involving people in strategic change. The real value of change initiatives is in enabling people to realise their creative potential to actualise themselves to become who they want to become*

you have to harness your champions and your front [line] leaders *Dean*

Innovators are people who create and innovate regardless of whether there is a strategic change initiative they are the key resource for leading bottom-up change and to changing institutional culture. The SDP performed the role of an 'attractor' and people who are naturally innovative will be attracted to such initiatives.

I always put my hand up for those things because I like doing other things. I mean I love teaching but obviously I like getting involved in other projects. *Innovator*

I respond to challenges and I am always looking for the next thing, the next idea. I come up with lots of ideas. I like following through with them as much as I can. Obviously there does need to be support for that, so yeah. I have got involved as much as I can. *Innovator*

People like to invent their own ideas they don't like being given them. For any plan for change to be credible it has to be based mainly on ideas that are familiar and authentic to the people who will turn them into new practice. This is why top down strategy has to enable people to interpret the strategy offered by the top and create their own ideas for change at the bottom.

A strategy that seeks to involve everyone in change (Figure 6) invites the innovators and early adopters to lead strategic change through their inventions of new practice and adaptations to existing practice. The insights and new practice models that they provide can then be adapted to other parts of the organisation and change is propagated in this way. Organisational and trans-organisational brokers involve others through activity that

encourages, supports and generally facilitates change. External consultants may also be employed to introduce new ideas and / or facilitate changes of behaviour (for example the involvement of administrators in bringing about change through the ServicePlus project). The process of disseminating the results of change, for example through the annual Solent Exchange conference, means that large numbers of people in the organisation are exposed to new ideas and ways of doing, and the introduction of new business systems and processes means that most people in the organisation are eventually involved in change.

## 7 Effective and meaningful communication

*Communication that is meaningful connects the managed, social and individual worlds of change and is the means to overcome the barriers between these different worlds. You cannot change an organisation without changing the conversations within it (Seel 2004).*



Communication, more specifically communication that is meaningful to those receiving it, pervades innovators' stories of change. If visions, ideas and invitations to contribute are not communicated in a way that has meaning to those who receive it - nothing will happen. The lesson is clear that just sending information to people who are busy and who have many urgent priorities, will often not cause them to act. What causes them to act is when information causes them to create their own interpretations and meanings for themselves.

A good example of this is seen in a story called, 'Where and how does strategic change begin?' Strategic change has to begin somewhere and that is when 'someone chooses to do something and then acts on that decision'. The case of the School of Design provides a good example. The Faculty of Technology had spent a year implementing an SDP project so the Head of School was well aware of the SDP and the opportunities for getting involved but involvement was triggered by a specific event that suddenly created new meaning.

[it was at] a head's meeting, everyone was talking about it. I suddenly thought, oh, what was going on here? ..... I ... sat there listening to what other people were doing and I think I heard that [two Faculties] were developing lots of professional development units.....I thought, oh, that's a lot; we're not even doing any.. Listening to what other people were talking about I just thought, we need to be doing this, and that was important. That day, I can sort of picture myself in that meeting

thinking, I feel like we failed and we need to do something about it. And that, to me, was the day when I decided we would do something about it.

From this story it can be inferred that the decision for the School to be involved in the SDP did not arise from the formal distribution of information about the SDP, rather it emerged through social interaction and conversation - a Head's meeting in which people talked about their involvement in SDP. The change in attitude that resulted in the School becoming involved in the SDP was due to conversations that carried personal meaning and significance, and created feelings of dissatisfaction and a sense that an opportunity was being missed. An opportunity highlighted by what others were managing to achieve. This is a good example of how communication about the SDP became personally meaningful and it was only at the point at which it became meaningful that it became emotionally engaging and change began to happen.

Good communication and relationships, and the mutual understandings that grow through meaningful conversation lie at the heart of any successful change and the converse is also true: you cannot accomplish complex change without lots of meaningful communication.

Communication, particularly conversation, lies at the heart of an organisation's culture. But culture is also about what people do and how they act and behave. What the SDP did was to change the nature and pattern of conversations which enabled people to do new things and these activities stimulated different sorts of conversation. What emerged through this process was new learning, new ways of being and doing and the modification of culture in small but measurable ways.

## **8 The will and capability to resolve 'local contentious practice'**

*Tensions and conflicts often arise when bottom-up innovation meets existing procedures and systems. A system in change needs the awareness, will and capability to facilitate the resolution of local contentious practice.*

People working in an organisation (persons in practice) historically constitute their everyday world as they help to make it through their participation in it while being shaped by the world in which they are a part (Holland and Lave 2009). Local contentious practice, and its resolution, lies at the heart of bringing about innovation in an organisation that is full of systems, procedures and traditions. Local practice comes about in the encounters between people as they address and respond to each other while enacting cultural activities under conditions of political-economic and cultural historical conjuncture. Elements of the SDP narrative reveal that when working within their cultural domain (eg their school) innovators have control over what they do. But once they have to relate their innovations to existing business systems there is often conflict between the new practices they were trying to create and practices that already existed within the institutions established systems and processes.



Posing the question 'how can we do this?' challenges existing ways of doing things and the innovator initiates the struggle to resolve the issue. These are the 'pinch points' where innovations can be thwarted and innovators can become demotivated if progress cannot be made towards resolving the problem. These are the areas that organisations involved in strategic change need to pay particular attention to. Relationships and communication between innovators and system owners are crucial to resolving these troublesome areas.

One of the really crucial factors in enabling local contentious practice to be resolved, is for the people who are trying to make change happen to be able to find people who will help them overcome the procedural and decision making barriers between different parts of the organisation. These are the brokers and boundary spanners, that silo'd organisations need in order to unblock things that seem to be frozen.

## 9 Building new relationships and collaborative partnerships

*Organisational change is accomplished through the deepening of existing relationships and the forging of new collaborative partnerships that generate ideas, and provide encouragement, practical help and support.*

The SDP study demonstrates the importance to those accomplishing change of new relationships through which ideas were generated, problems were solved and practical and emotional support was given. Such relationships helped innovators to appreciate the value of their own work and efforts, encouraged them to 'go the extra mile' and enabled them to persist especially at the most frustrating and challenging moments.

Forming productive, co-creative and emotionally supportive collaborative working relationships with members of their School or colleagues in central university departments - particularly the Flexible Delivery Team (e-Development and Educational Technology Unit)



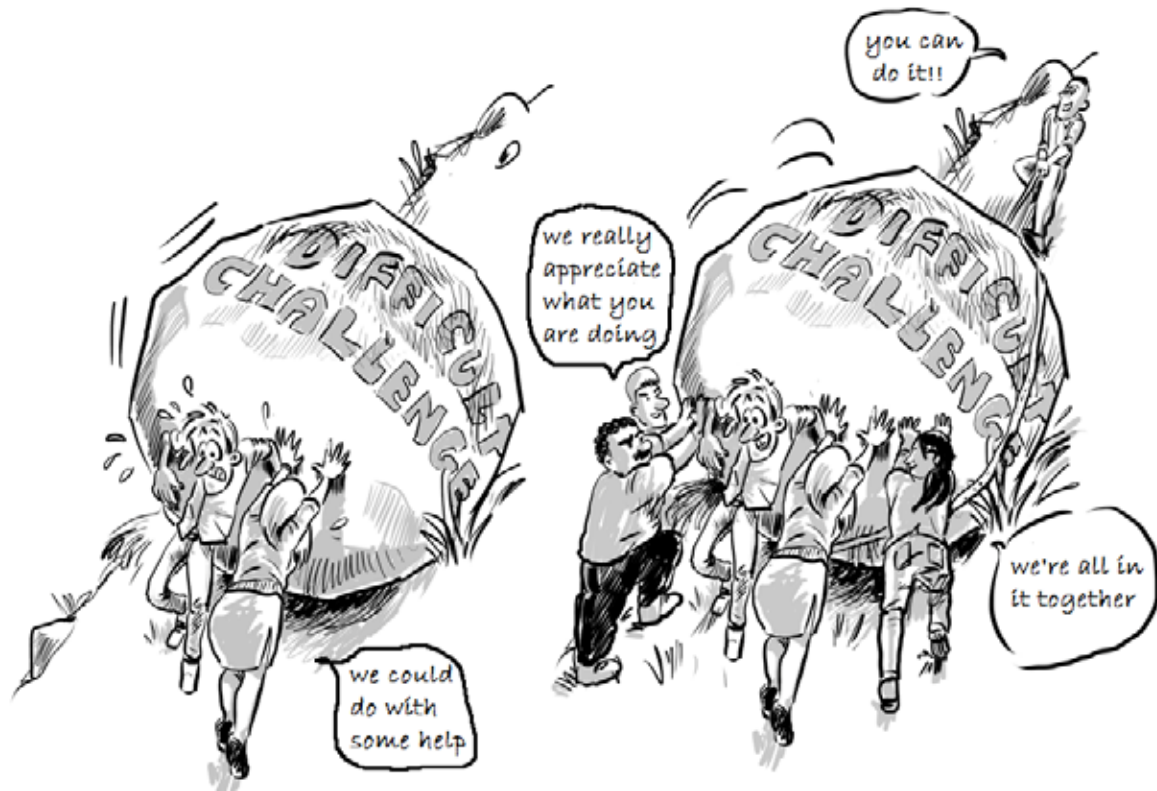
and Partnerships Office was an important strategy for innovators. Extending existing relationships or building new relationships in the external environment was also a priority in the strategic change process. Relationship building with employers was crucial to the success of several of the innovations. In the case of the Foundation Degree in Health and Social Care the relationship was underpinned by a formal

strategic alliance but ultimately it is the interpersonal relationships between the directly involved in change that really matter.

## **10 A socio-cultural environment that nourishes people emotionally**

*An emotionally nourishing environment helps people deal with the challenges, stresses, anxieties and frustrations of trying to bring about significant change and helps them to remain positive in the face of setbacks.*

Stress, anxiety and frustration are often associated with significant organisational change as people encounter problems and setbacks, things do not work out as intended or other situations. Sources of stress, anxiety and frustration encountered in this study included: 1) the competing demands of developing new practices while continuing to teach 2) inadequacy of resources for some projects where the amount of resource was underestimated or could not be estimated in advance, or when there was a lack of transparency as to how resources were being allocated 3) insufficient support when dealing with difficult problems 4) seeming inability of some institutional systems, procedures and infrastructures to adapt to the changes that they were creating. Such adverse psychological impacts could have been reduced if participants had more time particularly at critical moments in the change process, had more resources - not only money but practical help at certain stages of their project and had more support and empathy in resolving difficult problems that blocked progress.



Amabile and Kramer's study of the socio-cultural work environment identified four categories of nourishers (Amabile and Kramer 2011: 131- 33) and all seemed to be important to the innovators. They have a significant impact on the way they feel and on their creativity and productivity. These are:

*1 Respect* - managerial actions determine whether people feel respected or disrespected and recognition is the most important of these actions.

*2 Encouragement* - for example when managers or colleagues are enthusiastic about an individual's work and when managers express confidence in the capabilities of people doing the work increases their sense of self-efficacy. Simply by sharing a belief that someone can do something challenging and trusting them to get on with greatly increases the self-belief of the people who are engaging with the challenge.

*3 Emotional support* - People feel more connected to others at work when their emotions are validated. This goes for events at work, like frustrations when things are not going smoothly and little progress is being made, and for significant events in someone's personal life. Recognition of emotion and empathy can do much to alleviate negative and amplify positive feelings with beneficial results for all concerned.

*4 Affiliation* - people want to feel connected to their colleagues so actions that develop bonds of mutual trust, appreciation and affection are essential in nourishing the spirit of participation. One of the challenges for innovators is that they often feel alone because they are moving into new territory by themselves - where there is no-one they can affiliate with!

The role of the SDP team was important here in giving people an affiliation that was purpose- as well as culturally-based.

It is clear from the case studies that innovators thrive and innovation is more likely to happen when the environment is emotionally nourishing in the manner described above. An environment that is respectful, positive, encouraging and emotionally as well as practically supportive. SDP was an important additional element in the institutional climate that contributed to a climate of positivity.

the way I find the most effective way to get things accomplished is to constantly believe it is possible to have a sort of can-do attitude and to assume other people have also got a can-do attitude and to treat them as if they have. On the whole I find that I get more productive responses if I do that. But it involves huge amounts of diplomacy and of trying to establish and sustain relationships, really. We want the shared goal, don't we? How do we together make that happen? Sometimes you just want to say 'For goodness sake, get on with it and do it.' Yeah, I think its masses of flexibility, respect, grace and diplomacy. *Innovator*

A lack of support might not be due to deliberate interference: rather it might be due to more passive disinterest.

I think it is largely because people have got enough on their plates. This is something that is different, it demands them to think in a different way, to do things in a different way. With the best will in the world, they are busy enough and I quite understand where they just don't really want to try. *Innovator*

But the case studies also reveal that progress was hindered where there was scepticism about the potential of an idea or where ideas were not respected and someone else's ideas were imposed.

I think overall, because in some ways it's been a relatively small part of our business up until now, there was some scepticism from a number of people ...not just here but [higher up]..... and probably because they didn't really understand the market, underestimated just what the true potential was. *Innovator*

*Appreciating and valuing the efforts of innovators and the contributions they have made*



Professional satisfaction and a sense of well being through accomplishment in the workplace often derive from the belief that our work and contributions to change are valued by colleagues, managers and students. Recognition, for what they had done and achieved, was very important to the innovators and it's absence was a source of unhappiness

The university's annual Solent ExChange conference provided one opportunity for participants to share their innovations and gain recognition from colleagues in other parts of the university. Events that were organised locally like Away Days or talks also provided important opportunities for public recognition.

It was probably only until the Away Day they really fully understood what we were doing with everything.....the Away Day was for the staff in a way. I just wanted everyone to feel part of something good and that we've achieved *Head of School*

Anyone who takes risks to deliver a change he or she feels the organisation is seeking, needs to know whether their efforts have made a real difference but it is surprising how many innovators said they lacked this feedback.

The problem is that I have never felt comfortable or confident in the University's strategic decision to back this. It's almost been like a, "we'll see how they get on" and there doesn't seem to have been the commitment.

I just felt for me personally I needed to know that this was the way we were headed and that we weren't just doing this just for a play to see how it would go, because it took so much work and I still don't feel comfortable that I'm hearing that message, this is the way the University is going to go. Well not the whole University obviously, but a significant portion of the University's strategy may be devoted to this type of approach. *Innovator*

## 11 Sharing what has been learnt and celebrating what has been achieved

*If expansive learning is a core enterprise in strategic change then it is important that new knowledge and understanding grown through the change process, is made available and distributed to other members of the organisation in ways that are appropriate and meaningful to them. Only then can what has been learnt be applied.*





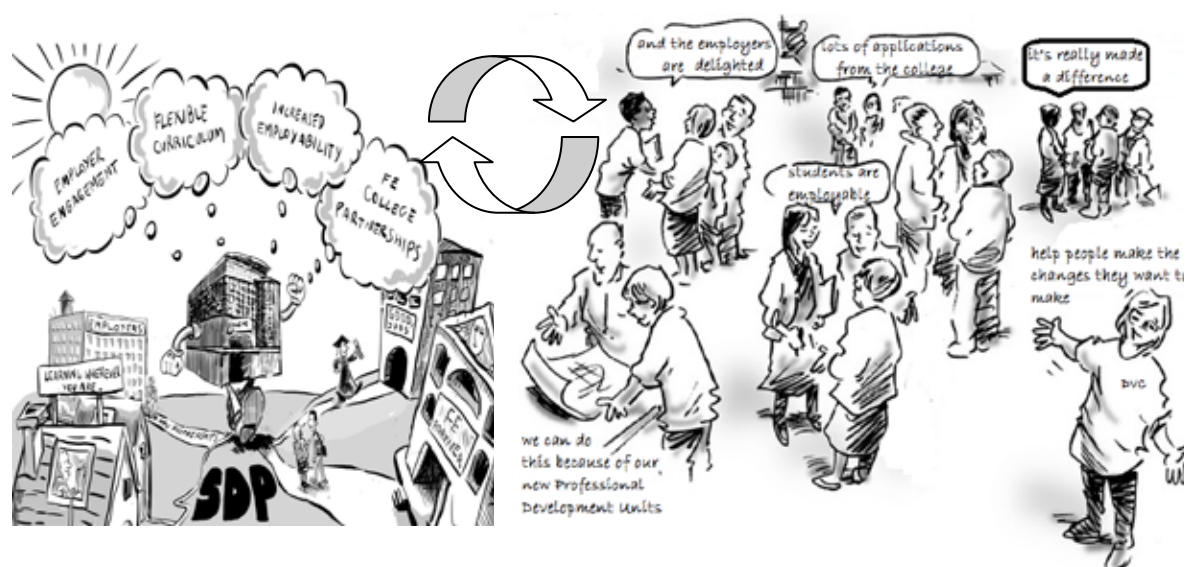
The dissemination of learning and celebration of what has been accomplished were important processes in the SDP. In each of the three years there was an annual one day conference called Solent Exchange. The design of the conference changed during the course of the three years from an initial focus (Year 1) of trying to get more people involved and showing them how they can get involved, through sharing and celebrating achievements (Year 2 and 3) to focusing on sustaining new practices.

This brings us back to the important issue of meaningful communication and the plethora of ways and occasions through which people have conversations. Creating opportunity for meaningful communication is as important after change has been accomplished as it is before and during the change process, remembering that to change an organisation you need to change a majority of conversations in the organisation (Seel 2004).

## A self-actualising university

*The secret of accomplishing significant organisational change is to engage the people who want to actualise themselves through their innovations with the strategic changes the organisation wants to make*

In trying to answer the question how does a university accomplish strategic change in which a large part of the change is brought about through the educational innovations of teachers (faculty) we discover that an organisation's strategic ambition and the will and creativity of the individuals who bring about change are intertwined.



In its mission and vision statements a university sets out where it believes its destiny and future identity lie but it is only through the concerted and deliberate actions of individuals and groups of individuals in its community, each of whom is striving to actualise their own vision and destiny, that the university achieves its ambition.

People leading and enacting change appear to be a particular type of person with the will to get involved in something and stay involved until the job is done. Not only do they generate

ideas, they also like to actualise these ideas and they do not want to fail so they persist until they are satisfied. The will to complete something is as strong as the will to begin it.

It is the will to be and become a certain sort of person (like a better teacher) or to help others (like enabling students to learn better), or to develop a better system (to improve the support given to students, teachers or perhaps external employers and businesses), that provides the deep motivational force for many of the people who contributed to the Southampton Solent change project. The combination of challenge, personal autonomy, the desire for doing something new and the invention and mastery of new practice, and the belief that people are making a valuable contribution to the educational enterprise of students, were the most important factors that caused deep and sustained engagement in SDP projects.

Accomplishing an innovation is inherently a challenging and creative process. Innovators viewed creation in terms of the invention of practice that was entirely new to them or existing practice that was significantly modified. They also recognised creation in new relationships and infrastructures to support new practice, and new policies and procedures to guide future practice. The real value of initiatives like SDP is in enabling people to realise their creative potential to actualise themselves to become who they want to become. Innovators and early adopters thrive in such a culture.



I don't really call them students. I think they are designers or photographers or whatever the student is.....' You are actually working now, you are part of industry. What you are doing is part of a unit. It sort of carries the same risk as if you are doing it in business. The money is not involved where you could design a collection and it doesn't sell. Well, that is a risk. But the risk they are learning, no, because I think it enriched them. It was exactly the same as what we would do in a [commercial] unit, but we actually went further and actually said we are going to produce these to actually contextualize your whole learning process.... People usually stop at the ...concept [stage]. You do the concept and then you say 'Actually here is what we are handing in on a sheet [of paper] and then it is done.' You don't really get a final outcome. You just sort of maybe theorize the work, but you don't actually actualize the work.

This project allowed them [the students] to actually reach out and visualize what is possible. It is fantastic for me to .....see those students design and then see people wear [their garments]....People are actually paying real money..... then it becomes something special, I think.

That is my motivation for being in it.. That is my motivation for being here, otherwise I would still be working in industry *Innovator*

What comes out of this process is not something that can easily be codified or quantified on a piece of paper. What comes out of it are new relationships and new sorts of conversation within and outside the university, new forms of practice and models or approaches that can be re-used and adapted to other contexts, and new ways of seeing and understanding things - in other words culture that is different to what existed before.

## **5. CASE STUDY**

### **A Tale of Bottom-up Innovation Encouraging Strategic Change**

We might test the utility and validity of these overarching factors or principles for accomplishing strategic change in a university with other case study examples where efforts to change were not so successful. In this second case study I draw on my own experience of trying to accomplish significant change at the University of Surrey between January 2006 - March 2011. Here the intention was to try to encourage the university to change strategically by innovating from the bottom ie one of the purposes of innovation was to try to bring about organisational change.

#### **Background**

The University of Surrey is a medium size university of about 15,000 students including 4000 post graduate students. The university is ranked in the top 20 universities in Britain (Guardian League Tables, 2013). There is a strong focus on graduate employability and a strong tradition of work-based learning in the academic programmes. Over 70% of undergraduate students are either enrolled on 4 year programmes which include a work placement year, or in the health and social care field involve an curriculum in which academic study and professional practice are integrated. International students make up 20% of the student population, making the university one of the most international in the UK. The University was placed 35th in the latest Research Assessment Exercise (RAE).

In 2005 the University was awarded a grant (£2.5m over 5 years) to establish a Centre for Excellence in Teaching and Learning (known as CETLs) - one of 74 established in England. The grant was given because of the universities commitment to the development of professional capabilities alongside more traditional academic skills and knowledge, and excellent outcomes in terms of graduate employability (either top or in the first three positions in the first destination statistics over 10 years).

The Surrey Centre for Excellence in Professional Training and Education (SCEPTre)<sup>vii</sup> was established in January 2006 and closed in March 2011. The funding enabled the university to set up a small core team (Director, Centre Manager, Centre Administrator and an Educational Developer), together with two year-long student internships and up to ten students working on part-time (1 day per week) contracts.

SCEPTRe initially had two related educational objectives:

- To support and enhance professional training (year long work placements) within a higher education experience that sought to develop professional as well as academic values and capability;
- To develop enquiry-rich learning practices to prepare students for living, working and learning in an increasingly complex world.

SCEPTRe was initially conceived as a vehicle for connecting and supporting the enhancement or innovation of practice in a set of existing contexts (academic curriculum – professional training - work placements) and pedagogies (e.g. work place learning, enquiry learning, Personal Development Planning and learning through experience and reflection on experience). SCEPTRe tried to visualise this role of connecting and integrating contexts and pedagogies in its own vision of 'learning for a complex world', which was embodied in a symbolic wall drawing.



Exploration of this idea led to the development of the idea of a 'lifewide curriculum', literally all the concurrent experiences that make up a learner's life while they are studying at university (Jackson 2008a & b, 2010). This idea connected to a university imperative when it created its first Student Experience Strategy in 2009, namely to examine the proposition that a Surrey undergraduate education provided 'a more complete education'. SCEPTRe used this opportunity to add a third educational objective to its mission - to develop a framework that

would encourage, recognize and value informal learning gained through experiences outside the credit-bearing academic curriculum

SCEPTRe's productivity, engagement and reach statistics were impressive. During the five years of its existence, it sponsored and managed nearly one hundred and thirty curriculum development or educational research projects including fifteen projects involving external partners. It worked collaboratively with the university's e-Development Unit to offer Learning with New Technologies Awards which encouraged teachers to incorporate new technology into their teaching and learning strategies. It pioneered new and imaginative ways of working with students - for example creating a student organisation called CoLab to provide the Centre and the University with new capability for engaging with emerging technologies<sup>viii</sup>. Most of these sponsored projects involved practitioners doing things that were entirely new to them and to their contexts so were innovative at the personal level. A high proportion were also innovative at the organisational level.

It made thirty one teaching Fellowship Awards to support educational development much of it innovative in Faculties and Departments in the University, and another thirteen Fellowship Awards to academic teachers in other universities and colleges. It sponsored and organised seven conferences including four national conferences on the educational themes of the Centre, twelve Training Academies for professional development, over 60 seminars many of which were streamed, recorded and archived, and six events specifically for business representatives (Jackson and Purvis 2011<sup>ix</sup>).

**Figure 11** Overview of the main ways in which educational change and innovation was supported, sponsored, facilitated and undertaken by SCEPTRe during the five year project.

<p><b>Encouragement &amp; sponsorship of HE teachers</b> in the wider community develop and implement their own innovations consistent with SCEPTRe's vision and goals through 1) SCEPTRe Fellowships 2) Professional Development Academies and Conferences 3) sharing of practices through streamed / filmed events that were later archived.</p>	
<p><b>Encouragement &amp; sponsorship of University of Surrey teachers, tutors, administrators</b> to develop and implement their own innovations consistent with SCEPTRe's vision and goals through. 1) SCEPTRe Fellowships 2) Curriculum Development Awards 3) Teaching with new technologies awards</p>	
<p><b>SCEPTRe's own innovations</b> e.g.  Lifewide Learning Award  CoLab - student team of technologists  Design Thinking Academies  Immersive Experience Symposium  Extensive use of technology - to film, stream, document and record activity  Awards for students and staff</p>	

While there was no contractual obligation to do so, SCEPTRe took its role as a nationally-funded centre seriously believing that the work it undertook should a) engage and involve people in the wider higher education community b) should be readily accessible to the members of the community. SCEPTRe reached out to many and varied institutions, through events, developmental activities and fellowships. Because of this SCEPTRe developed a large supportive following in the community. Interviews with people who participated in such activity demonstrated an impressive impact on HE and other professional institutions, on individuals and on groups, as well as in some cases on whole institutions.

## Organisational Context

Securing external funding to support educational improvement and innovation is no guarantee that the organisational environment will be receptive and willing to embrace the changes that a new organisation will bring. Although SCEPTRe was seen as a useful addition to the organisational capability for supporting the enhancement of learning and teaching there was already an organisation within the university that fulfilled this role causing confusion in the minds of some university staff as to why there should be two, seemingly similar organisations involved in educational development.

During the first 18 months of the project (Jan 2006-July 2007) SCEPTRe established itself within a relatively stable institutional environment and a positive climate of acceptance and interest. The rest of the project (2007-March 2011) was conducted in a more challenging, turbulent and

uncertain environment. Organisational restructuring in Autumn 2007 from seven Schools to four Faculties resulted in significant job losses particularly amongst the professional training / placement management community that SCEPTrE was working with a number of local champions for SCEPTrE and other staff with whom SCEPTrE had formed good working relationships (including six of SCEPTrE's Fellows) also lost their jobs in 2007-08. This destruction of working relationships with one of SCEPTrE's main communities of practice took a long time to rebuild. Furthermore, the message that seemed to be conveyed by these institutional actions was that being committing to educational innovation at the University of Surrey did not count when it came to restructuring.

another significant disruptive disappointment has been the dramatic loss of staff through two rounds of redundancy (through restructuring) who were otherwise SCEPTrE champions and whose knowledge, experience and inspiration to others to improve their teaching and learning quality, has simply disappeared. Some have said that a consequence of this is the potential for less engagement with SCEPTrE as staff who have gone are those who did not contribute anything of value to the recent RAE. *Independent Evaluator SCEPTrE Evaluation Report*

This apparent lack of valuing commitment to teaching was reinforced in 2009 with the imperative for academic staff to perform well in the next Research Assessment Exercise (RAE) which, through peer review, ranks UK universities according to their research output. There was evidence of teachers being dissuaded from getting involved with SCEPTrE or applying for Fellowships in order to focus on their research.

Of course these are the realities of trying to work in a university that is a) trying to become a more profitable business and b) trying to compete as a top research institution. The result for SCEPTrE of trying to work in an institution where historically achievements in teaching were seen as of lower status than achievements in research, meant that broad support for its mission to develop and pioneer new teaching and learning strategies, was generally lacking beyond the champions and enthusiasts.

SCEPTrE has had to evolve itself as a viable entity in a culture that has not traditionally put the issue of teaching and learning quality very high up on its agenda. *Independent Evaluator SCEPTrE Evaluation Report*

Resistances can be attributed in part to a predisposition to prioritise research over teaching (reinforced by Faculty as well as University wide reward and recognition practices), and the complaint about being cognitively overwhelmed by communication that is not core to the teaching modus operandi in part because of a survival mentality. This mentality has become more significant as people have felt more insecure after restructuring severed valued colleagues from their roles, and in part because of the sheer workload that has come about due to staff losses, and increased demands from all directions. Super-imposed on all these considerations is the issue of resistance in a climate of what has been a continuous process of restructuring, redundancy and staff insecurity. *Independent Evaluator SCEPTrE Evaluation Report*

This challenging and rapidly changing organisational context contrasts with the stability of the organisational environment in the first case study of a university that was not making staff redundant or heavily engaged in the RAE, and where there was a strong and consistent message from the leadership of the organisation that commitment to innovation in teaching and learning was valued by the university.

A second complicating factor for SCEPTRe was that during the five years that SCEPTRe was in existence three different senior managers had responsibility for the enterprise: two different managers in the last 2 years both of whom had significant and pressing priorities to deal with that had nothing to do with SCEPTRe's mission. While the first senior manager was part of the bidding process and was entirely empathetic with SCEPTRe's mission and role, the third senior manager was pursuing an entirely different agenda in entirely different economic circumstances. This contrasts with the first case study where the senior manager with responsible for the SDP led it from conception to completion.

A third complicating factor was the absence, for most of SCEPTRe's existence, of a university learning and teaching strategy that contained within it a vision of education that SCEPTRe could be part of. There was a strategy but it was little more than a checklist of things to be accomplished typically driven by poor scoring items in the annual National Student Survey. The strategy lacked any sort of vision to which SCEPTRe could relate and associate. Because of these organisational factors SCEPTRe had to try to create a strategic position and role for itself in the university.

The 'story' of SCEPTRe's is that its positioning within the University has always been something that has had to be negotiated and renegotiated at the margins of mainstream University culture. Although in principle, there was strategic endorsement of SCEPTRe's role as a means of improving the quality of teaching and learning activity, in practice, the precise remit and modus operandi remained to be elucidated in both strategic and tactical terms. SCEPTRe has always had to battle a position for itself within the University vis-à-vis other strategic operations (especially Professional Training and Careers Committee)...and in the context of major restructuring efforts, re-groupings and the creation of new Centres (like Centre for Educational and Academic Development). This has meant that SCEPTRe has mainly been about 'brokerage' (based on partnership and collaborative working principles), and securing some strategic leverage through persuasion and finding shared interests around which to develop new learning enterprises. *Independent Evaluator SCEPTRe Evaluation Report*

The situation for SCEPTRe is in sharp contrast to the first case study in which the Strategic Development Programme was integral to the delivery of the university's five year strategic plan.

These organisational contextual factors go a long way to explaining the key organisational challenges and realities that were faced by SCEPTRe when trying to accomplish change and support innovation at the University of Surrey. SCEPTRe's role and impact as an organisational force for innovation and change must be assessed as a connective force, striving to generate change in a diffuse (non-systematic) and bottom-up way without a strong policy vehicle and without a strong alliance with senior institutional managers who were driving a developmental agenda. Given this situation, SCEPTRe adopted the role of an organisational 'broker' - a networking and community building organisation with the skill and capability to bring people, ideas and resources together to create new practices and contexts. In the absence of a strong connection to senior management this brokerage role must be viewed as a bottom-up phenomenon. Through this brokerage role, SCEPTRe instigated micro-level, bottom-up change, through sponsorship and support of local champions and people who were interested in being involved in SCEPTRe's work. In other words SCEPTRe acted as an attractor in the institutional system - attracting the enthusiasts

with ideas and beliefs who wanted to bring about change. Underlying this strategy was the belief that with the right sort of encouragement and support individual practices would influence other people and eventually coalesce into something more 'collective' and 'cultural'. This bottom-up approach was the antithesis of a systemic top-down model of change.

In the absence of being embedded in a strong institutional learning and teaching strategy, and without the pull of Faculties wanting to access and make strategic use of SCEPTRe's resources, moving beyond the relatively small proportion of staff who wanted to engage, has proved to be the central challenge. SCEPTRe has consistently engaged a minority of staff who are already highly motivated to improve their teaching and learning quality, who are attracted to SCEPTRe's learning philosophies, ways of working and community orientation/support; for whom research on teaching and learning is integral to their personal research agenda (and their promotion strategy) and who are strongly intrinsically oriented to their own personal and professional development as well as the personal and professional development of their students. *Independent Evaluator SCEPTRe Evaluation Report*

SCEPTRe's overall impact was consistent with its essentially bottom-up, negotiated remit, to influence practice in a diffuse and subtle way through changing individual practice and helping to create new networks of relationships to influence others. Interviews by a team of independent evaluators demonstrated that local practices changed and in some Faculties, changes begun to coalesce and reflect in student achievement and feedback to staff. Interviews strongly endorsed that SCEPTRe had a tangible impact on individuals (staff and, students) across the University.

SCEPTRe has achieved its educational mission through a combination of skilled brokerage, being proactive in creating opportunities to lever local change, as well as rapid responding to external and internal imperatives arising along the way, and manoeuvring itself at a strategic level. This positioning challenge is strongly reflected in the fact that a significant proportion of University staff and students will not be able to say with any certainty what SCEPTRe is about. One particular challenge arising in relation to achieving this position has been the relative lack of engagement with SCEPTRe of professional training staff within Faculties, particularly given that professional training was a core part of the initial remit in the University application for CETL resources. Staff in PT operations have either been engaged in some highly active way (through the Fellowship Scheme or Curriculum Innovation Scheme or regular PT conversational sessions) or not at all. Professional/placement tutors who have not engaged with SCEPTRe say they simply have not had the time to engage because of their other commitments, and that it is either a fruitless luxury to be able to 'drop in' to a lunch time seminar, or simply not a priority for them. *Independent Evaluator SCEPTRe Evaluation Report*

## Example of trying to innovate from the bottom

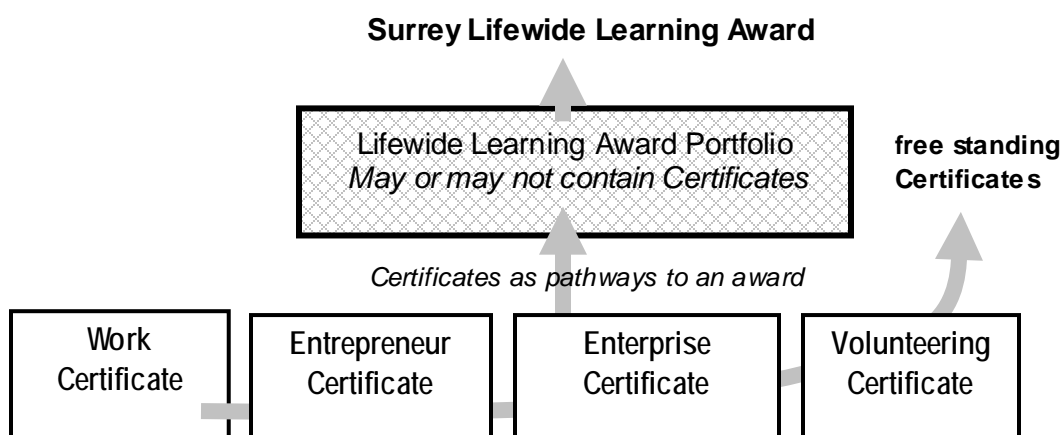
The attempt by SCEPTRe to develop and introduce the Surrey Lifewide Learning Award is chosen to illustrate some of the features of trying to innovate from the bottom, in the sort of organisational environment described above. It was the single most important area of educational development and innovation undertaken by the Centre. The Award was developed in 2009 and early 2010 and piloted with a small group of students between May 2010-11. Information about the award is preserved at: <http://www.surreylifewideaward.net/>

SCEPTRe's desire to extend the strong tradition of experience-based learning beyond year long work placements into other experience-based learning environments, and a university imperative to examine the proposition that a Surrey undergraduate education provided 'a



more complete education', led SCEPTrE to examine the idea of a 'lifewide curriculum'. The concept of *lifewideness* was developed through a series of papers (Jackson 2008a&b, c, 2009, 2010a) and the idea was recognised as having value in the University's first Student Experience Action Plan (July 2009). It led to the proposal, by SCEPTrE for a Lifewide Learning Award that would value and recognise learning gained through co- and extra-curricular activities.

**Figure 12** Lifewide Learning Award Framework developed by SCEPTrE

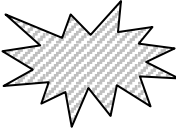


The Award Framework (Figure 12) comprised an overarching award and a family of certificates underpinned by a lifewide learning capability and values statement that encouraged learners to reflect on different aspects of their development. The Lifewide Learning Award was awarded to a student who demonstrated learning and personal development through their co-curricular and extra-curricular experiences, in line with the requirements for the award. A minimum involvement of 150hours of experience-based and reflective learning was required. Students decided what experiences to include in their portfolio but they had to demonstrate what new learning and personal development had been gained by referencing it to the award's capability and values statement. The Award was piloted between May 2010-11 ( <http://www.surreylifewideaward.net/> ). Further details of the award and how it was assessed are described by Jackson 2011 and Jackson et al (2011).

## Nature of innovation

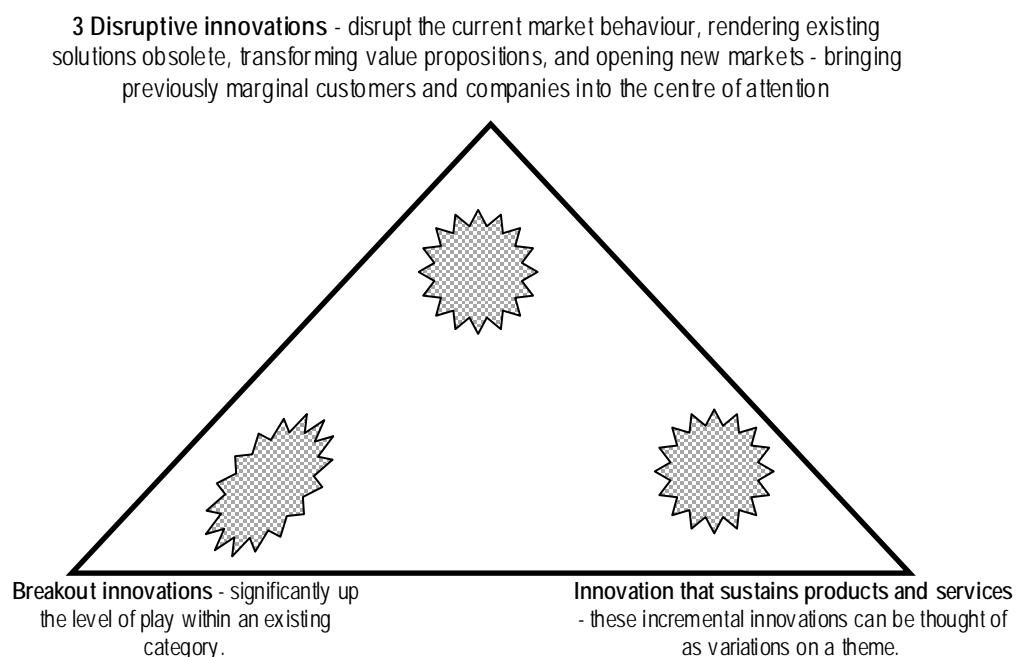
The Surrey Lifewide Learning Award was an original invention (Figure 13). The underpinning thinking an concept, the design, infrastructure and guidance and support mechanisms and assessment practices were invented within the university and within a particular set of contexts without reference to what was happening in other institutions. Piloting of the award framework enabled the team responsible for the award to gain experience and practical and procedural knowledge with which the scheme would have been refined had there been a second cycle of implementation. This knowledge was then used at a later date in adapting the framework to another context (see concluding paragraphs of the essay).

**Figure 13** Surrey Lifewide Learning Award Innovation

Adapting Existing Practice	Inventing New Practice
ADAPTIVE	ORIGINAL INVENTION 
INCREMENTAL	ADAPTIVE INNOVATION

The Surrey Lifewide Learning Award might be located within all three categories represented in Conrad Wai's tool for categorising innovation (Wai 2011 and Figure 14). Firstly, it could be argued that in positioning the development as part of the university's student experience strategy, which had been formed around the idea of 'come to this university for a more complete education', the innovation was helping to *sustain* the brand, services and product of a University of Surrey experience. Alternatively, if the university's commitment to experiential learning through work placement is considered to be a category of learning, then the Lifewide Learning Award expands and ups the level of play within the category called 'learning through experience', as this was the primary focus and purpose of the Award.

**Figure 14** Possible ways in which the Surrey Lifewide Learning Award Innovation might be conceptualised as an innovation using the tool developed by Wai (2011)



The innovation might also be perceived as being disruptive in the sense that it challenges traditional ways of thinking about what learning is and where and how learning occurs. In doing so the Award scheme was attempting to transform the value proposition associated with the way people develop through their whole experience while they are a student. The framework had the potential to include many more students in experience-based learning than were currently involved in the year-long work placement scheme so it had the potential to open up new markets to this form of learning. In other words, the Lifewide Learning Award could be included in different innovation categories according to the different functions it was perceived to serve.

## Innovator Perceptions of Factors Involved in Change

The two innovators involved in the Award rated the factors that they considered to be important in accomplishing change by developing and piloting the Surrey Lifewide Learning Award are shown in Table 7.

**Table 7** Innovator ratings (n=2) of the importance of a range of factors in enabling them to accomplish the changes associated with the development and piloting of the Surrey Lifewide Learning Award A) importance to them of this factor for accomplishing significant change B) extent to which this factor was realised in the particular change process.

	A					B				
	Not very important		important			Not realised		realised		
	1	2	3	4	5	1	2	3	4	5
1 Having a clear vision of how the university saw its future and how SCEPTrE contributed to that vision				1	1			2		
2 My readiness and willingness to get involved in the opportunity provided by SDP			1		1			1		
3 My vision of what I wanted to achieve				1	1	1			1	
4 My will to succeed with something I cared about					2				1	1
5 Having explicit goals and a realistic work plans to achieve my objective			1		1	1				1
6 Having autonomy to implement the project as I wanted to					2		1			1
7 Having opportunity to use my personal creativity				1	1				1	1
8 Believing I could take risks without feeling I would be criticised if I wasn't completely successful				1	1				1	1
9 Having the financial resources I needed when I needed them					2				1	1
10 Having the time I needed to complete the job				1	1			2		
11 Being able to find the help I needed when I needed it				2					2	
12 Having good communication with the people I needed to talk to					2		1			1
13 The active involvement of others - good teamwork					2					2
14 Learning through the experience (learn from problems as well as success)					2					2
15 Feeling trusted and being allowed to get on with it without interference					2				1	1
16 Making good progress within the time available					2					2
17 Feeling that what I was doing was valued by my colleagues					2			1		1
18 Feeling that what I was doing was valued by Associate Deans Learning and Teaching and Senior Managers					2	1	1			
19 Forming new productive relationships with colleagues in my school or wider university					2					2
20 Forming new productive relationships with people outside the university					2					2
21 Feeling that the environment encouraged and supported me throughout the process especially when things did not go as planned					2			1	1	
22 Feeling my contribution to the university has been recognised and appreciated					2			1	1	

The most striking conclusion is that all these factors were important to the innovators. All 22 factors scored an average of 4 or more, and 13 factors score 5 (the maximum score). The innovators also considered the extent to which each factor was realised through their particular SDP change project. The general conclusion here is that there is often a gap between innovators ratings of the importance of a factor in accomplishing significant change and the extent to which it was realised in their particular innovation process. Twelve factors had lower realisation scores than the score given to the importance of the factor in bringing about change. The greatest discrepancy was in factor 18 'Feeling that what I was doing was valued by Associate Deans Learning and Teaching and Senior Managers'.

## Additional Factors

The politics of accomplishing change in a 'collegial' university is a significant additional factor in trying to accomplish innovation when every step has to be justified, accounted for and negotiated not just with supervising managers but with colleagues on various committees involved in decision making.

SCEPTRe created annual work plans that were discussed, agreed and reviewed with its Steering Committee (twice yearly). The details that emerged were discussed regularly and any changes negotiated with its Executive Group. The significant proposals like the Surrey Award Framework had to be presented, discussed and approved by the University's Learning and Teaching Committee. Considerable time, intellectual and emotional energy was spent on preparing documents that make explicit every aspect of what is being attempted and any member of a Committee can say something that might block progress or add conditions which are not always helpful. The process is highly political, a source of anxiety and stress and can be very disruptive and personally demeaning. Committee Chairs are crucial enablers or disablers in this process of collegial decision making.

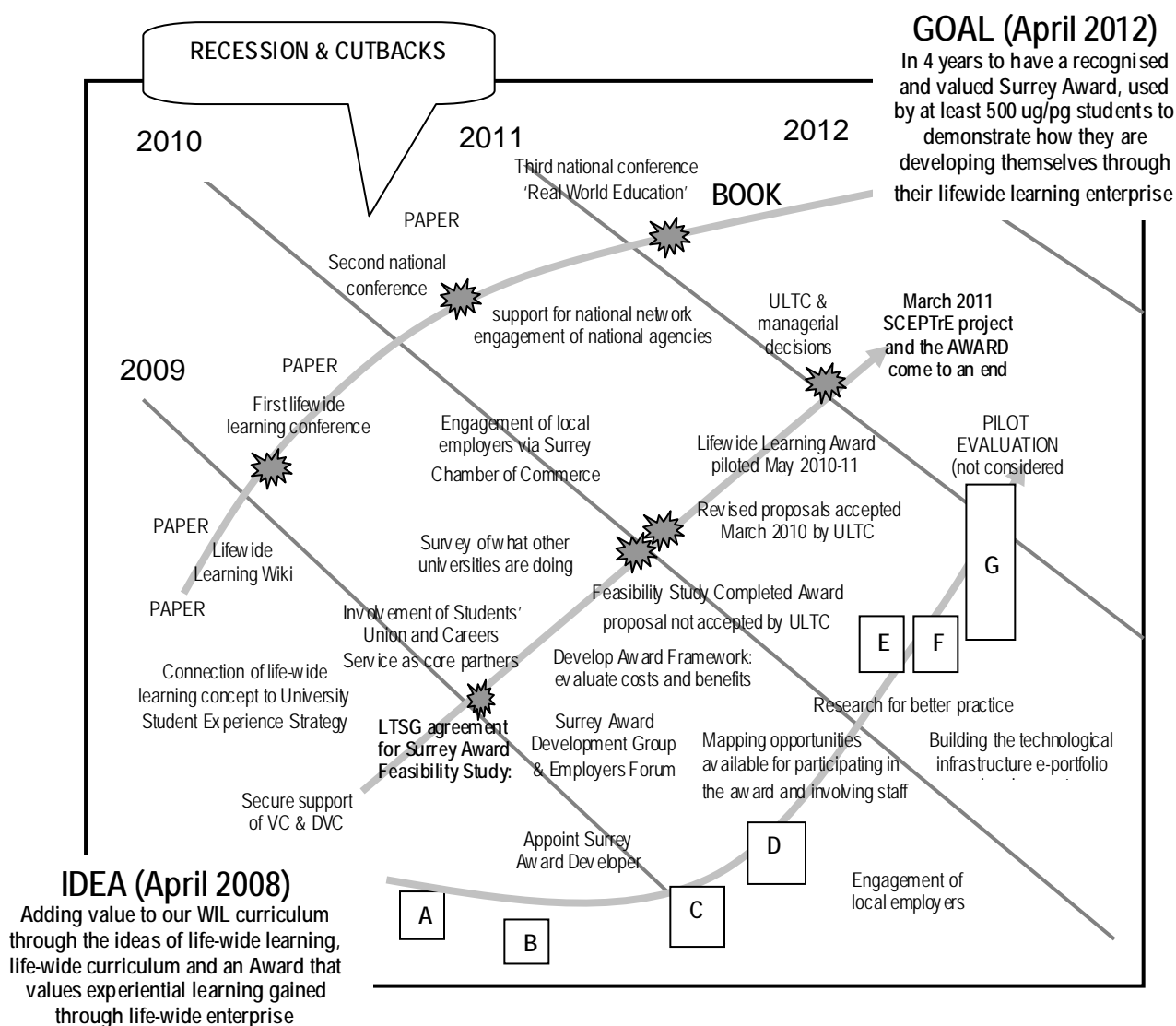
## Strategy for Bringing About Strategic Change

SCEPTRe was never part of a university strategy for change. Rather, SCEPTRe attempted to build on the existing educational model which valued students' experiential learning in the workplace and create movement towards a more holistic model of learning which valued students' development in all parts of their life.

In planning and orchestrating a significant change process in a university there is so much that cannot be predicted – a plan can at best only provide a sense of what the planner imagines has to be done at any stage in the project. It must also contain the space for emergent opportunity or responding to the unanticipated consequences of actions. In a dynamic change environment it is much easier to fill in the details of a plan after it has been completed! It is also sometimes wiser to wait until something happens in order to know how to respond and capitalize on a situation as it develops.

SCEPTRe's plan for developing, piloting and implementing the idea of an Award, to recognize and value learning achieved outside the academic curriculum, contained three main strands of activity (Figure 15). Much of this strategy was created as the innovation progressed ie the details of the plan were not conceived at the start of the process.

**Figure 15:** The strategy used by SCEPTRe to try to accomplish change at the University of Surrey through the introduction of a new and broader concept of learning, achievement and personal development namely the Surrey Lifewide Learning Award. Grey lines represent three main strands: *top-line* conceptual development, scholarship, research and public engagement, *middle - line* political engagement with senior managers and committees, *bottom -line* practical development and implementation (source: Jackson 2011)



**Building Blocks:** A – Learning through Experience Certificate, B – Share experience website to facilitate reflective blogging. C – Learning through Part-Time Work and Volunteering Certificates D- New life-wide Award Annual Prize E – Lifewide Award website [www.surreylifewideaward.net](http://www.surreylifewideaward.net) F – Lifewide Learning Award Framework. G - Award pilot and development of assessment and awarding practices

**Abbreviations:** VC/DVC – Vice-Chancellor & Deputy V-C, LTSG – Learning and Teaching Strategy Group, ULTC – University Learning and Teaching Committee

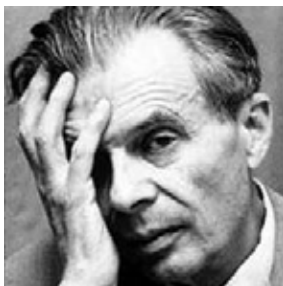
These strands embrace: 1) conceptual – the elaboration of the new educational proposition and the creation of an evidence base to support the concepts 2) political and collegial – engagement with the managerial and formal deliberative Committee and QA structures of the university 3) practical – development of new practice, support and guidance, technological

infrastructure, marketing and implementation. Jackson (2011) provides a comprehensive description of each of these strands of development. In spite of this extensive programme of institutional engagement, in December 2010 with three months to go before the pilot ended and before the evaluation report had been completed, the decision was taken by Senior Managers not to implement the Lifewide Learning Award once the SCEPTRe project was concluded in March 2011. The timing of the decision was related to the decision to close SCEPTRe and the consultation relating to making its staff redundant.

The economic situation in late 2010 was clearly an important contextual factor in this decision. Who could have predicted in 2008 when we began our journey to explore the idea of a more complete education that, that we would complete our development work in the midst of a global recession and massive cuts in public funding for higher education. Not surprisingly, the university was looking to make savings and at a time of stringent cuts there was no capacity, in the face of competing priorities, to fund the posts needed to support the Award. Neither was there an appetite for starting new enterprises. It might be argued that this is the fault of the development team for not persuading the University that the Award was worthy of investment even in a difficult economic climate, and to some extent this must be true. But decision making in an environment of cost-cutting does not follow the same rationale as when conditions are more favourable, and other factors, like the priorities of the new Deputy Vice Chancellor, were also involved.

## 6. MAKING SENSE OF BOTTOM-UP INNOVATION

The two examples case of attempts at bottom-up innovation in two English universities, one seemingly embedded in and supported by a strategic change process and the other trying to provoke strategic change, provide much useful information about the process and practice of bottom-up innovation in universities. This final section tries to draw more general conclusions from the two stories.



**The vast majority of human beings dislike and even actually dread all notions with which they are not familiar... Hence it comes about that at their first appearance innovators have generally been persecuted, and always derided as fools and madmen. *Aldous Huxley***

### Innovator Perspectives

The study of strategic change revealed that the innovators - the people who take on the challenge of accomplishing difficult change, are the key resource to enact and embody the significant changes the university was trying to make. Only the innovator can visualise a change that will make a real difference in their professional context and it is only the innovators who have the will and capability, and the willingness to develop the necessary capability, to make change happen.

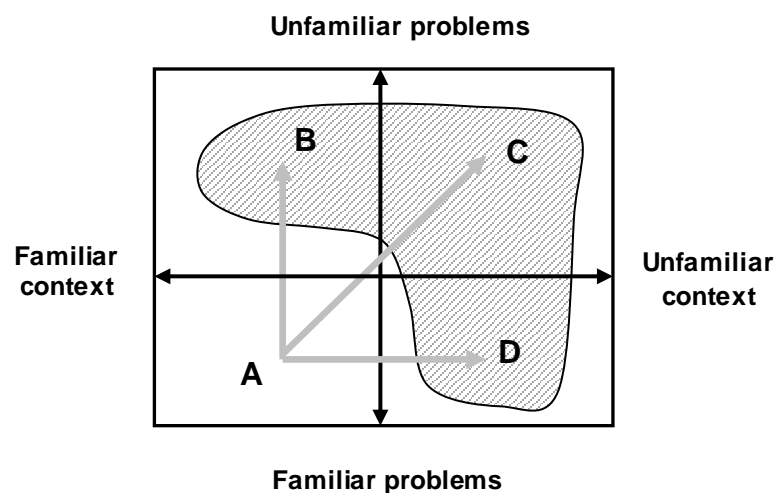
The way innovation is understood by participants in the two Case Studies is consistent with a previous study of innovation in UK universities (Hannan and Silver 2000) that viewed innovation as significant change that was new to an individual in their own contexts. Many of the individuals who accomplished change were modest in their claims but the way they describe their accomplishments shows that the changes they had made were significant to them.

While everyone has the potential to be an innovator not everyone wants to be one. The people who accepted responsibility for leading change were generally from that small portion of the institutional population that comprised the natural enthusiasts, innovators and early adopters (Rogers 1995 and Figure 6). These people possess particular characteristics that made them special within the organisational community. They include: passion, commitment, ambition, creativity, drive, energy, integrity, honesty, openness to new experiences, self-confidence, self-belief, a positive attitude and optimism, a willingness to stick their head above the parapet and lead change and the ability to sell their ideas and persuade others that their ideas have value.

Both the SDP and SCEPTre projects provided new external funding to support change from within the organisation but innovator narratives in both universities reveal that these resources did not fully compensate them for the time they spent in developing and implementing their ideas. These additional investments of time were often made at unsocial hours, in order to sustain and complete their innovation project, within a busy work-life schedule. Such investments were driven by personal beliefs and a sense of professional responsibility to complete what they had begun.

People who try to change what they do in a significant way also bring into existence new things - ideas, practices, products, services, processes. In other words individual creativity and the co-creativity of groups are involved in the very act of designing, inventing, improvising and adapting (recreating).

**Figure 16** Relationship between context, capability and creativity (adapted from Stephenson 1998:5). Letters refer to scenarios described below. The shaded area represents situations that have the greatest potential for personal creativity and innovation because we have to invent/adapt/improvise in these spaces.



Much of our working life is spent in familiar situations and contexts where we don't have to pay too much attention to what we are doing and we can reproduce our responses without really thinking deeply about our actions (position A Figure 16). John Stephenson, who invented this conceptual tool, considered this space to be one in which we practised dependent capability and he related this to traditional teaching approaches adopted in higher education. We can, if we choose, adopt and perform the routines we have learnt in these situations with little or no need to invent anything new. This is the domain of incremental rather than radical change.

Our personal creativity in this domain is not focused on mastering new contexts and difficult problems, rather we can choose to use our creativity to transform the ordinary into something which has extraordinary meaning for ourselves. Indeed our capacity to see, value and utilise the ordinary in new or unusual ways is a feature of our creativity in all domains of this conceptual territory.

Moving to the other domains in Figure 16 (B, C & D) we can appreciate that if we are confronted with a problem, challenge or opportunity, or we enter or create a context that is unfamiliar, we have to develop new contextual experiential knowledge and / or invent and try out new practices and ways of behaving. Through this process we are creating new understandings and new ways of performing or producing. These are the situations in which we develop (invent) new capability. The SDP encouraged, indeed demanded that people create or explore these sorts of situations in which the challenges, opportunities, problems and contexts were unfamiliar in order to understand these situations and invent solutions that would enable the university to exploit their educational and business potential. It is in such situations that the innovations described in this book were accomplished.

Innovators draw on competencies and experiences from a range of past experiences and they are not afraid to try new things. They are willing to try something and if it doesn't work to try something else. Self-confidence and self-belief are essential to managing the complexity they encounter and they learn from their *iterative* experiences of trying to do new things. Because they put themselves into new and unfamiliar situations in order to create change - the innovators are effectively at the leading edge of changing practice and therefore bringing about cultural change within their social practice domain.



**You must be the change you want to see in the world.**

As human beings, our greatness lies not so much in being able to remake the world.... as in being able to remake ourselves. **Mahatma Gandhi.**

## Why Innovate?

The question of why people get involved in trying to innovate, why they attempt to create significant change is an important question for a university wanting to stimulate and harness the ideas and creativity of its staff. It is clear that innovators tap into a rich source of value-based motivations that energise and sustain them through the trials and tribulations of



accomplishing significant change. The conclusion drawn from the study of strategic change was that the overwhelming sources of energy, enthusiasm and commitment to engaging with unfamiliar problems, challenges and contexts are intrinsic in nature. Maslow (1943) developed a framework *Hierarchy of Needs* for analysing the motivational forces behind human behaviour and growth. His model was extended by other people to include 'levels' ('Cognitive', 'Aesthetic' and 'Transcendence' – helping others achieve self-actualisation). Maslow's hierarchical and sequential model has been criticised because in real life people tend to access and utilise different levels of motivation simultaneously rather than sequentially. To address this criticism Alderfer (1980) combined Maslow's five categories into three categories in his Existence-Relatedness-Growth (ERG) theory (Table 5). This framework has been adapted to include the range of needs that innovators were trying to fulfill in creating 'a novel solution to an educational 'problem' that is more effective, efficient, sustainable, or just than existing solutions and for which the value created accrues to both the individual learner and society as a whole.'

**Table 8** Alderfer's (1980) Existence-Relatedness-Growth (ERG) theory of personal needs adapted to include and make explicit social and organisational needs

	Personal Need and Value	Social Need and Value	Organisational Needs and Value
Growth	As a person - the intrinsic desire for personal development - to become the person they want to be and become. It involves doing things that are interesting, challenging and personally rewarding.  <i>These include Maslow's intrinsic esteem category and the characteristics included under self-actualisation.</i>	As a teacher/educator, the extrinsically motivated desire to help other people become who they want to become.  To make a positive difference to the lives of current students by enhancing their chances of gaining employment in their fields of study, or as a service provider improving access to services that will help them learn.  To extend opportunities for learning to people who have not previously been served in a way that meets their needs.	As a teacher/educator to develop myself to have the confidence and capability to engage in innovation and make a real difference to my university.
Relatedness	The intrinsic desire we have for maintaining important interpersonal relationships. <i>These social and status desires require interaction with others. They align with Maslow's social need and the external component.</i>	To build new relationships with the community, to better meet the needs of business or public sector organisations - including local schools and colleges	To build new relationships with the community, to better meet the needs of the university's mission
Existence	Provides our basic material existence requirements. They include <i>Maslow's physiological and safety needs</i> . They include doing things in order to feel more secure in a job.		

The first set of needs (those that are most frequently declared) relate to social need and benefit. These include the desire to make a positive difference to the lives of students by enhancing their chances of gaining employment in their fields of study, or as a service

provider improving access to services that will help students to learn, and also to extend the opportunity for learning to students who have not previously been served in a way that meets their needs. These motivations relate to the deep sense of moral purpose that drives the innovation process in universities.

The second need is the need to build new relationships that help create a stronger and more supportive community within the university and or outside the university. In both of the examples given these needs are fundamentally connected to the strategic needs of the university as expressed in their mission and values statement (Southampton Solent University) or student experience strategy (University of Surrey).

But it is also clear from the narratives of innovators that involving themselves in innovation fulfils the important personal need of 'renewing and developing themselves'. Of making their own professional life more interesting, more challenging, more engaging, more meaningful and more rewarding. Of putting into practice what they believe and of accessing and implementing their personal creativity to add value to the educational world they inhabited. Of achieving something that they personally valued - irrespective of what colleagues around them thought. Of being the person they wanted to be and who they wanted to become. But it helped if what they believed in was aligned to what the organisation was striving to achieve.



People want to be part of something bigger than themselves. When people believe they are making a real contribution to a meaningful purpose, they will pour their heart and soul into every task. Figure out what that big idea is for your organization, then remind people at every turn how they are contributing to that noble purpose. When inspired, they will find new ways to reach their highest potential. Help people *self-actualize* by defining a meaningful purpose. (Belmont 2012).

This is the way in which personal and organisational growth become inextricably linked. In the case of the Solent University the SDP provided the 'big idea' into which innovators could pour their heart and soul into. In the case of the University of Surrey, SCEPTRe with the support of the university, created its own vision of a more complete education which provided the space and inspiration for innovators to work towards a bigger purpose.

The motivational forces that drive the leaders of bottom-up change, that encourage people to put themselves into unfamiliar territory with unfamiliar problems and contexts, that push themselves into uncomfortable experiences with all the attendant risks, anxieties and fear of failure, and which lead to people investing significant amounts of their own time and intellectual and emotional capital in their project, can be viewed through Self-Determination Theory (SDT) (Deci and Ryan 2000, Ryan and Deci 2000). SDT proposes that people have an innate psychological need for autonomy, relatedness and competence, which influence intrinsic goal focus and motivation, and which impact on well-being. By satisfying these needs, outcomes of individual agency (innovation), motivation to learn and novel skill mastery arise. This motivation inspires personal creativity as individuals enact their desire to invent and embody their inventions. Interest, confidence and excitement arise from the self-determined, authentic situations created by individuals to achieve their ambitions. The ability to create and practice their own autonomy and intrinsic, often value-based motivations, enables individuals to continue despite the challenges they encounter until they accomplish what they set out to do or discover something better along the way.

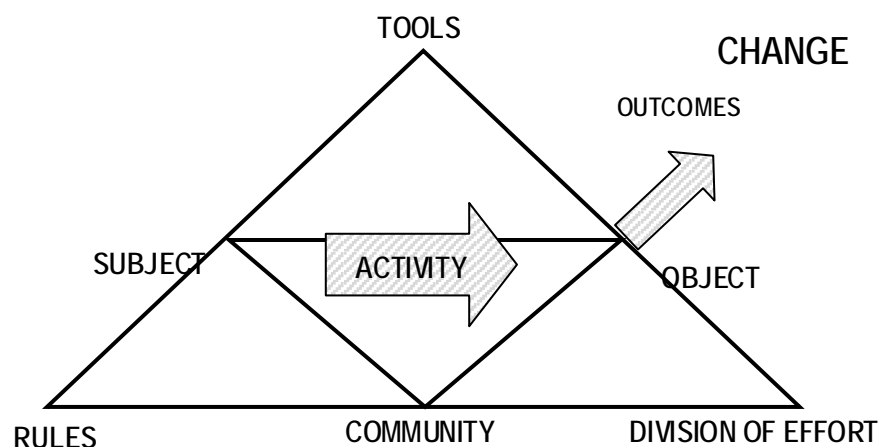
## Activity-based View of Innovation

Change is brought about through people engaging in activity that is more likely to result in the desired changes. According to Engestrom (1987) organisations can be viewed as an activity system or more accurately a constellation of simultaneous, activity systems. Engestrom (*ibid*) developed a model of an activity-based system (reproduced in Figure 17) which provides a useful framework for understanding how a wide range factors work together to influence purposeful activity.

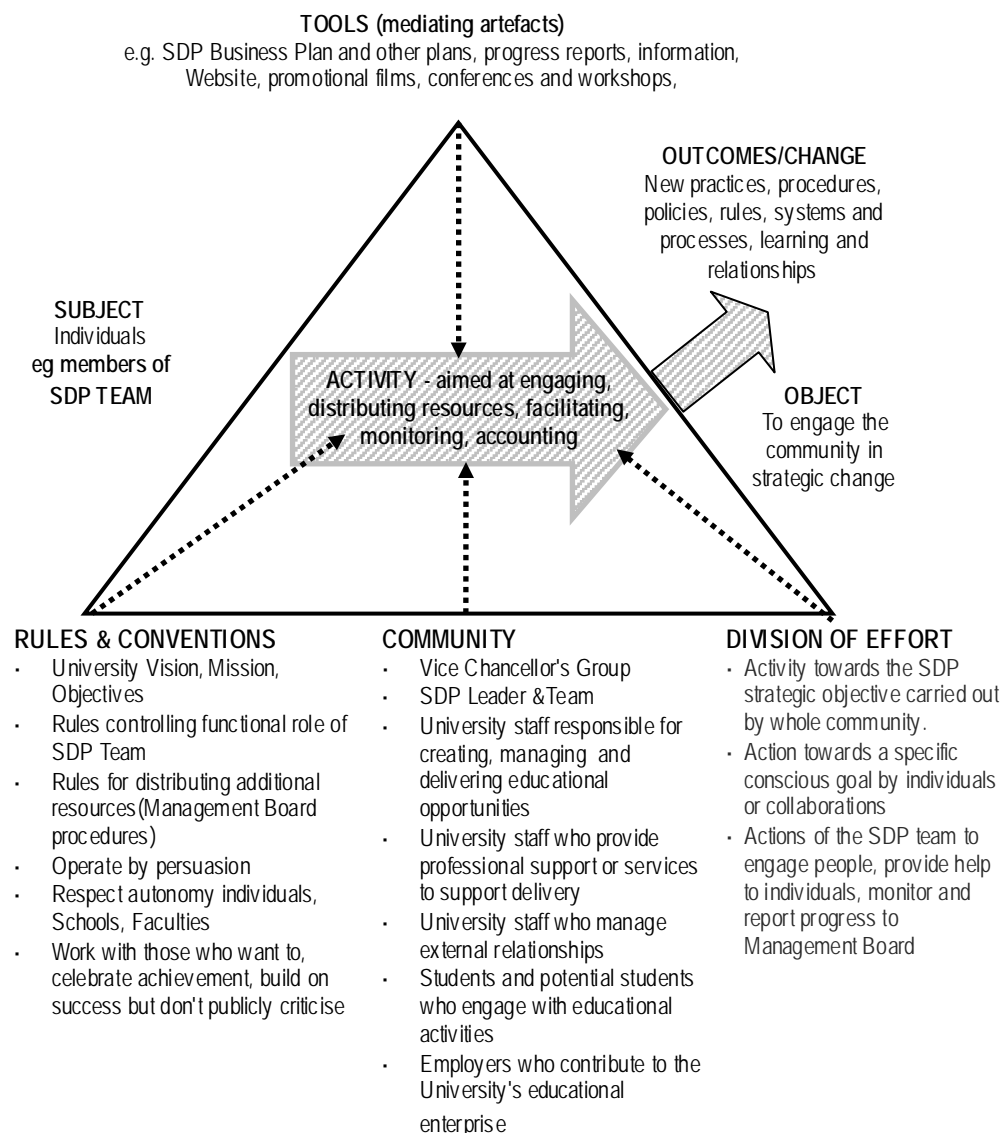
In order to reach an *outcome*, (change), individuals engage in purposeful activity, often working collaboratively with other people to produce certain *objects* (e.g. experiences, knowledge, and physical products). Activity is shaped by the community working within the organisation's written and unwritten rules and with the tools to achieve needs and ambitions. In engaging in activity to create and implement new practices individuals learn, and the accumulated collective learning of many individuals expands the learning of the organisation.

The premise of activity theory is that a collective work activity, with the basic purpose shared by others (community), is undertaken by people (subjects) who are motivated by a purpose or towards the solution of a problem (object), which is mediated by tools and/or signs (artefacts or instruments) used in order to achieve the goal (outcome). The activity is constrained by cultural factors including conventions (rules) and social organisation (division of labour) within the immediate context and framed by broader social patterns (of production, consumption, distribution and exchange). Activity theory provides a conceptual framework from which we can understand the inter-relationship between activities, actions, operations and artefacts, subjects' motives and goals, and aspects of the social, organisational and societal contexts within which these activities are framed.<sup>x</sup>

**Figure 17** The structure of human activity (Engeström 1987:78)



**Figure 18** Solent University Strategic Development Programme mapped onto Engstrom's (1987:78) activity system diagram

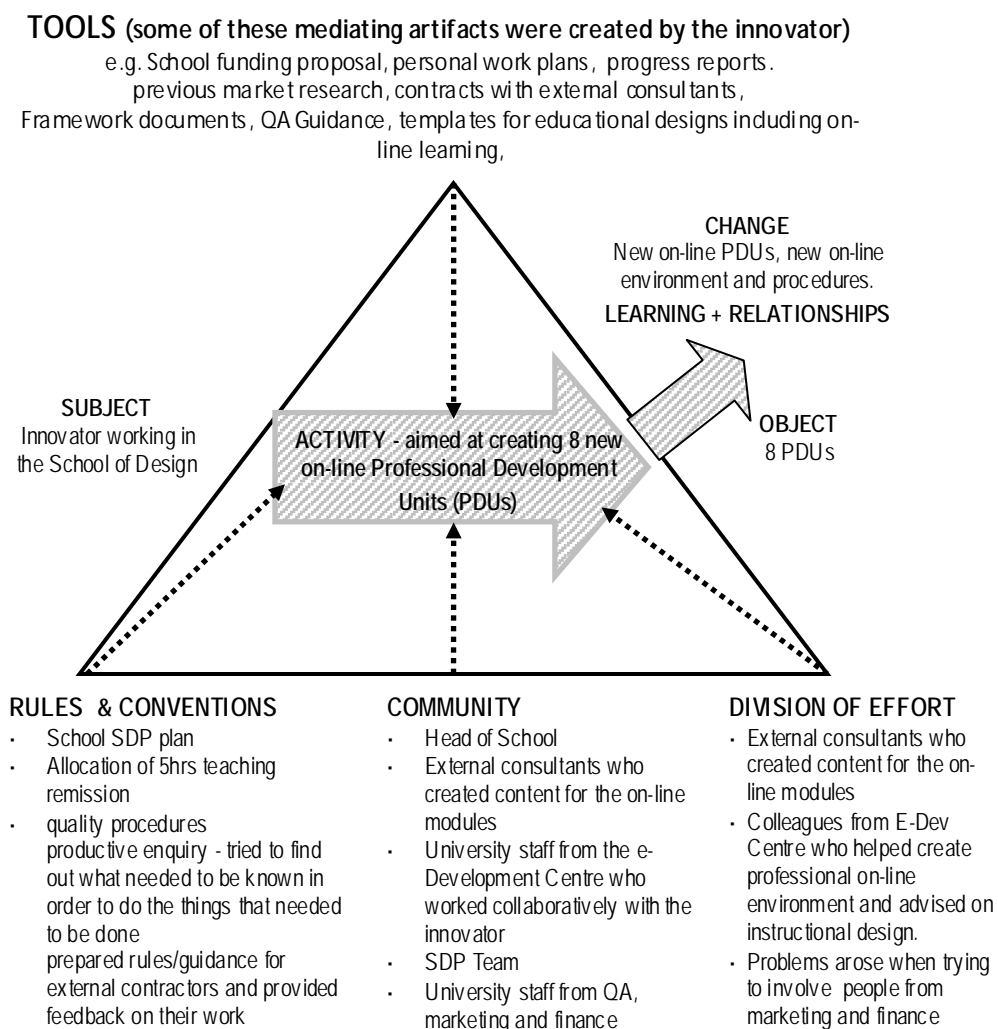


We can use this descriptive framework to reveal some of the detail in the activities, interactions and relationships within strategic and or innovation change process. For example, Figure 18 summarises the pattern of relationships and activities of the SDP team at Southampton Solent University as they encouraged and helped the community to engage with the SDP, provide practical help and emotional support and develop the intelligence needed to keep the project leader and the Management Board informed of progress.

We can extend activity-theory modelling to the level of individual innovators (Figure 19). Using the story of one of the innovator's in the School of Design at Southampton Solent University we can see that the innovator was guided by the objectives in the School's SDP project plan (School objectives that were aligned to the overall strategic objectives of the programme). Her activities were geared to creating eight new on-line Professional

Development Units. Such things did not yet exist so she was in effect breaking new ground and had to invent tools/frameworks in order to achieve her goal. She received little practical help until she had structured her environment for learning and achievement. This involved 1) contracting two external consultants with industry specific knowledge to write the content 2) finding colleagues from the E Development Centre who were expert in the design of on-line learning materials. An example of local contentious practice emerged as the innovator tried to find out how register and secure payment for people wanting to study the PDU's. There was no existing procedure. At the time the innovator was interviewed this was still a source of frustration but over the next six months the matter was resolved. Illustrating how innovators provoke the organisation's established systems to change.

**Figure 19** Example of an individual's activity system created through their involvement in the SDP using the framework provided by (Engeström: 1987:78). The innovator whose comments were reported under hard and soft systems thinking (above) is used to model activity.



## Bottom-up Innovation often results in Local Contentious Practice

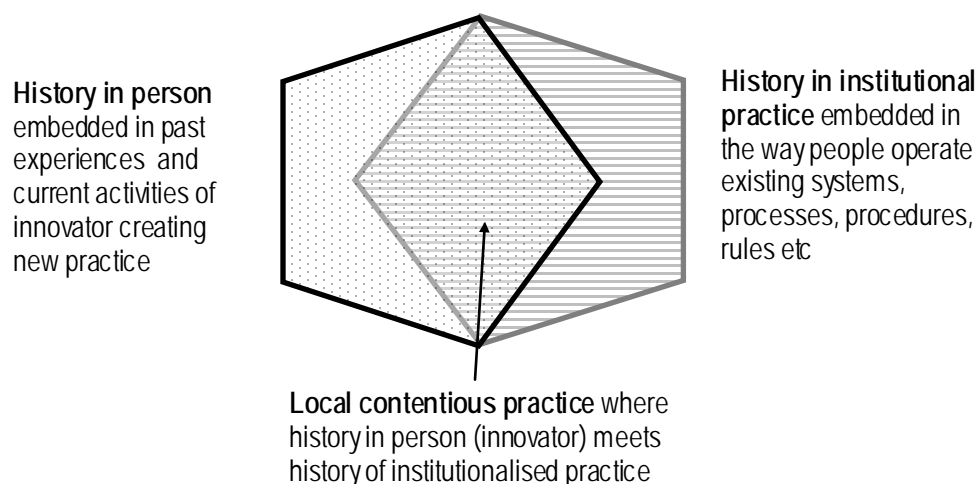
People working in an organisation (persons in practice) historically constitute their everyday world as they help to make it through their participation in it while being shaped by the world in which they are a part (Holland and Lave 2009). The social systems within which people work (work groups, schools and universities) are often described as *communities of practice* (Lave and Wegner 1991). Within such communities which share the tacit knowledge of 'the way we do things here', practices evolve continuously through interactions, the sharing of ideas and individuals or groups applying new ideas to their practice. Holland and Lave (2009) represent this evolutionary process as a constellation of 'enduring struggles' mediated through what they call 'contentious local practice'.

If we recognise that the participants are historically related, partially united, partially divided, and surely always in conflict and tension through different political stances and relations of power, then a reasonable designation for this would be 'contentious local practice' (Holland and Lave 2009:3)

Local contentious practice lies at the heart [of organisational change]. Local practice comes about in the encounters between people as they address and respond to each other while enacting cultural activities under conditions of political-economic and cultural historical conjuncture. Bordieu expresses much the same idea when he describes such moments of practice as bringing together two forms of history. (ibid:3)

Holland and Lave created a simple graphic to illustrate the dynamics of their concept of 'contentious local practice' (Figure 20 adapted from Holland and Lave 2009:3). Such sites are not generally the sites for innovation but they are the sites that can inhibit or thwart innovations. The examples of accomplishing innovation in two universities revealed many instances of local contentious practice - some of which were resolved quickly, some of which proved more difficult to resolve and some of which never get resolved - they have to be worked around. Posing the question 'how can we do this?' challenges existing ways of doing things and the innovator initiates the struggle to resolve the issue. The issue may be ignored by the service owner or the service or process owner might sit down with the innovator to find out what they are trying to do and develop a work around or practical solution. Through this tussle organisational practice is eventually changed or the innovation will not be implemented.

**Figure 20** Relationship between history embodied in a person and history embodied in institutional practice. Local contentious practice occurs where an individual who is developing new practice comes into conflict with the traditional way things are done here. Adapted from Holland and Lave (2009).



This anecdote illustrates innovators' struggles.

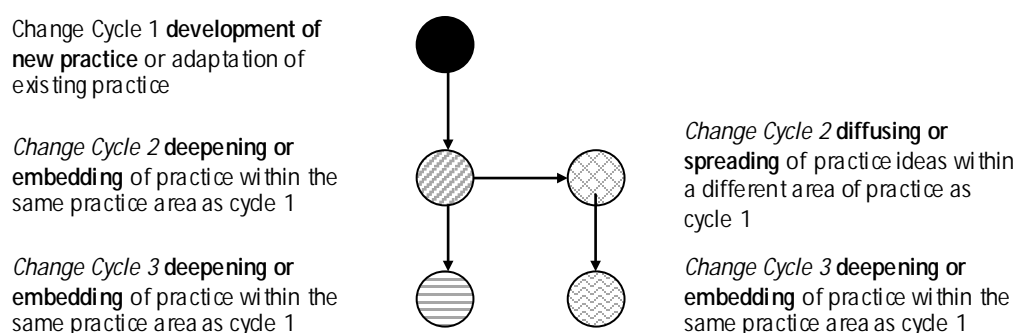
we set about.....developing a branded collegiate range... So we got the design specs done, everything up to industry standards, a great project for all the students who were involved because it had to be real....then we started talking to manufacturers and you get into university financial regs....we found a company in Turkey [that could manufacture the garments]. Now, of course you get into contracting this was over 20k, three bids. How do you get different companies to put their costing in line with the university? They want payment up front. The university doesn't pay for things up front, only on delivery. [we had] enormous amounts of problems with that but we did it by the skin of our teeth. On the last week before the financial year ended, we managed to get them delivered and then paid for and the company went with it but the company wasn't used to being paid after delivery; they're used to being paid before. So the university did not have the kind of agility it needed to work in this way. It tested everybody to see how we could make this happen, and... the good thing about the SDP, it gave the project the clout to make it happen. That was quite important because if this was just a project that I was pushing through on a school budget, it wouldn't have happened. All those barriers would have just kept up but the barriers came down because everybody knew it was an SDP project. So that was actually really important. So there was a will to make this happen and it did. *Head of School Southampton Solent University*

Failure of many innovations in universities is often a failure of unresolved local contentious practice. The example of the Surrey Lifewide Learning Award could be viewed as an issue of contentious local practice that the institution was not prepared to try and resolve.

## Sustaining and Expanding Innovation

In strategic change processes those sponsoring change assume that those who participate in the change process will continue to participate and embed or adapt their change so that it is sustained so that there is a return on the additional resources invested to bring about change. They also hope that the practice will be diffused or spread beyond the area where new practice was developed thus amplifying the value of the original investment. We might liken this to a change 'chain reaction' occurring in two dimensions - deepening or embedding, and diffusing or spreading (Figure 21). In this way the effects of an initial intervention can 'grow legs', and over time a new way of thinking and practising can have a significantly larger effect than could be observed or accounted for at the end of the initial change.

**Figure 21** Types of change chain reaction associated with strategic change interventions



The study of change at Southampton Solent University revealed a number of examples to show that this is an important process in expanding and sustaining change. For example, in the School of Design several innovators used the metaphor of *growing legs* to explain the widening effects and consequences of the project they had been involved in.

## Expanding Organisational Learning

Both case studies of trying to accomplish change began by creating a new contradiction. For SCEPTRe the contradiction was in the way the University sought to develop undergraduate students for the world ahead of them and its own vision of a more complete education that tried to develop people as whole people.

In the case of the SDP the contradiction created a gap between the educational practice that historically and currently existed in the university, aimed at traditional 18-21 learners, and the ambition of the university to address the needs of non-traditional learners and employers, and the future position it would like to occupy in the higher education market.

In both examples the purpose of the contradiction was to encourage new ways of thinking and discussion about the education of learners and the resources provided were intended to stimulate activity to engage with and address these contradictions. When viewed from this perspective, people who got involved in change, analysed the implications for their practice of new propositions, designed and experimented with new educational practices and created new delivery and support mechanisms aimed at resolving the contradiction. Through this process they were engaging in what Engeström (1987, 2011) calls - expansive learning.



In....*expansive learning* (Engeström, 1987), we meet a kind of learning that goes beyond the dichotomies between formal and informal learning, between individual and organizational learning, and between learning and developmental transformation. To construct an *expanded context*, individuals have to face and articulate the inner contradictions of their organizations and institutions. This requires that they seek and form alliances and initiate joint efforts at analysis, design and experimentation. Such learning is not anymore satisfied with finding the right answers but aimed at grasping why the institution functions as it does and how to go beyond it. Moreover, such expansive learning efforts make use of diverse tools and

resources, including informally gained experiences and observations as well as appropriate formal learning opportunities (Engeström, 2011:2).

Organisational change (Figure 22) combines and integrates the managed/planned /deliberate strategy, actions and language (left hand side of figure) with improvised/emergent/ strategy, actions and language (right hand side of figure).

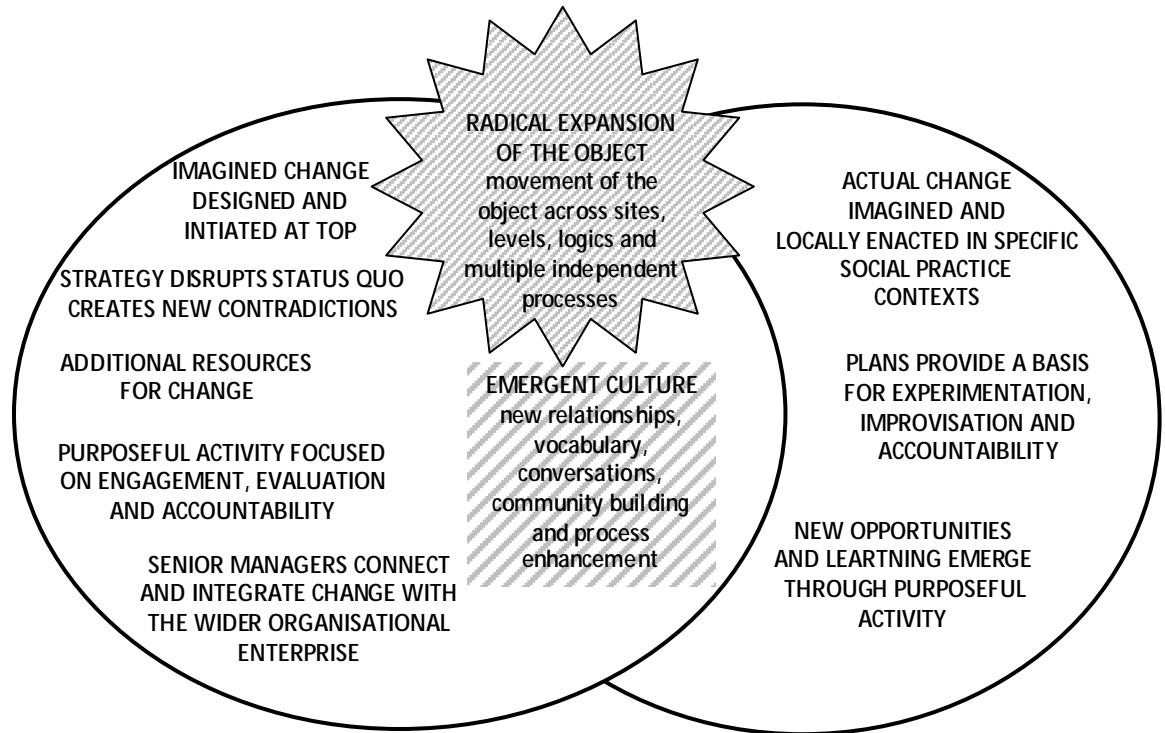
Mostly, organisational change is brought about by the continuous incremental changes made by every member of the organisation as they go about their daily business. The sense of community and purpose is historically constructed around and through these core activities but periodically, the organisation may be 'encouraged' to see and move beyond its current practices through top down initiated and managed interventions like the SDP or bottom-up, top-down supported interventions like SCEPTRe. But the way change actually happens, the way expanded organisational learning actually occurs is captured well by Engeström (2011:13).

Expansive learning may be started by one person questioning and problematising some aspect of the present practice. This may provoke another person to analyze the problem, and another one to propose a new model for the activity, which the others examine - and so forth. Expansive learning moves like a soccer game in which individuals and sub-groups pass the developing idea through learning actions to one another until a new model ready to be experimented with has been created and implemented in practice. The dynamics of the collective learning process are created by a trading and negotiation in which the area of mutual interest and a picture of a new shared object of



activity begin to take shape gradually, in exchanges in which the participants try to relate their resources and ideas to the other discussants' situation and vice versa (Engeström 2011:13).

**Figure 22** Multidimensional activity-theoretical approach to organisational change represented as an interplay of managerial and practitioner thinking, action and creativity that stimulates expansive learning, community building, and process enhancement and the radical expansion of the objects of strategic change. Adapted from Kajamaa (2011 :148)



## Some Conclusions



From the two case studies it would seem that *bottom-up educational innovation* can take place in a university regardless of whether it is involved in strategic change as long as sufficient resources are available. But bottom-up innovation alone cannot produce strategic change unless it is supported by the top and middle of the organisation. Such innovations will only influence the thinking of institutional leaders and be sustained if they are aligned with the direction of change that leaders wish to take.

Both case studies reveal that given a sufficiency of resources (additional external funding) university leaders are prepared to explicitly or implicitly support attempts to innovate within the organisation as long as the innovations are broadly in line with what the university is trying to achieve. Encouraging and permitting such activity increases the chances of new ideas being turned into concrete practices that can then be evaluated and judged for their worth.

Both case studies show that not all the innovations that were attempted were sustained. In particular, the SCEPTRe case study shows that even when a considerable investment has been made to develop new educational practice that was aligned to an institutional policy, the innovation was not adopted. The price of trying to be innovative from the bottom of a university may well be failure to achieve the objective. We might reflect on the most important reasons for this apparent failure by benchmarking the SCEPTRe situation against the twelve factors that were identified as being important to successful innovation in a university identified in the Southampton Solent University Case Study (Table 9).

**Table 9** Comparison of critical success factors identified in the Southampton Solent Case Study with SCEPTRe's experience of trying to accomplish change.

Critical Success Factors Case Study 1	SCEPTRe's attempt to create a Lifewide Learning Award ✓/X Aspects where this factor was or was not sufficiently realised
1 <i>Significant organisation change is led from the top, middle and bottom. Leadership is shared and distributed throughout the organisation and innovators must be viewed as leaders of strategic change.</i>	<p>✓ SCEPTRe acting as an organisational change agent, saw its role as one of promoting new ways of thinking and through its activities, discussion and negotiation with its stakeholders trying to lead or show the university how a broader conception of learning and education could be integrated into its educational model.</p> <p>X The SCEPTRe project and the Lifewide Learning Award initiative were never part of a strategy that was led from the top of the organisation. Rather, SCEPTRe's strategy was to try to demonstrate the value of the award in order to convince the leaders that it was worthy of adoption. The failure was to persuade the third senior manager to be responsible for the SCEPTRe project, to incorporate these ideas into their own leadership strategy.</p>
2 <i>An organisational vision for strategic change must encourage and enable people to create their own visions through which they can enact and embody change that they own. The secret of encouraging bottom-up innovation through strategic change requires people to connect their own visions for educational change with the institution's strategic ambition.</i>	<p>X One of the issues for SCEPTRe was the <i>absence of an institutional vision for teaching and learning</i> that SCEPTRe could be part of. SCEPTRe created its vision 'learning for a complex world' 6 months after it started. This vision was articulated in a wall sized picture - everything SCEPTRe did was related to this vision which the university accepted but did not embrace.</p> <p>The nearest the university got to creating a vision was the marketing inspired idea in its first Student Experience Strategy of 'a more complete education'. SCEPTRe embraced this and tried to use it as a lever for showing the university how the Lifewide Learning Award could contribute to the educational experiences of students and be consistent with its ethos of valuing experiential learning. The university seemed to abandon the idea before it was fully developed.</p>
3 <i>A strategy for both planned and emergent change. Strategy needs to balance the needs for planned action with the need to create the conditions that encourage an organic and emergent process of change in the practice environment.</i>	<p>✓ SCEPTRe demonstrated skill and capability in working with both planned and emergent processes and the University encouraged and supported this practice. The need to continually demonstrate performance against intentions combined with the ability to continually negotiate work plans through a small Management Board and a larger stakeholder Steering Committee provided an effective ongoing mechanism for reviewing and negotiating plans in the light of the effects of actions.</p>
4 <i>The involvement of brokers to facilitate and manage strategic change within and across the cultural and practice grains of a university and between the cultures of different organisations</i>	<p>✓ SCEPTRe achieved its educational mission and accomplished the changes it was able to accomplish through a combination of skilled brokerage, being proactive in creating opportunities to lever local change, as well as rapid responding to external and internal imperatives arising along the way, and manoeuvring itself at a strategic level.</p>
5 <i>Changing an organisation requires new resources or the redistribution of existing resources - the most important of which is time. Resourcing change that is emergent requires a more flexible and adaptive model of distributing resources than is used in more predictable operational processes</i>	<p>✓ The external funding for SCEPTRe was ring-fenced which meant that it was immune from institutional 'interference'. It was held accountable for the way it allocated its resources through twice yearly Steering Committee meetings, monthly monitoring reports and regular reviews by the Finance Department, but it had considerable flexibility in the way it was able to manage its budget. This was essential in working in both a planned and an emergent way.</p> <p>X When the additional resources ceased, and at a time of severe cutbacks in the university due to the economic recession, SCEPTRe as an organisational entity was vulnerable. At a time of cost-cutting with most staff on fixed term contracts, SCEPTRe was easy to eliminate.</p>
6 <i>Involving people in change is crucial. Strategic change must involve the whole</i>	<p>✓ SCEPTRe worked with Faculties and academic and non-academic Departments. Indeed, it acted as a facilitative structure for spanning the</p>

<p><i>organisation. It involves working within, across and outside the cultural and practice grains. Giving people the choice or freedom to chose to be involved seemed to be crucial for involving innovators. The real value of change initiatives is in enabling people to realise their creative potential to actualise themselves to become who they want to become</i></p>	<p>organisational structures that kept people apart.</p> <p>The whole CETL initiative served the purpose of creating opportunity for many people to be creative - to try to achieve what they valued. The university gave SCEPTRE the opportunity to work in a creative way. SCEPTRE had the freedom to chose the developmental pathway it took and there is no doubt that this freedom engendered enormous commitment of the innovators. In many senses SCEPTRE operated outside the normal ways of working in the university. There is no doubt that SCEPTRE enabled the people who took advantage of the resources and support it provided to realise more of their creative potential. The Lifewide Learning Award provided a new structure around which non-academic departments like Careers could connect and interact with students in new an exciting ways.</p> <p>X SCEPTRE tried to promote the Lifewide Learning Award as an integrating structure but in spite of attempts to involve the whole institution (Faculties, Central Service Departments involved in student support and the Student Union) buy in to the idea was patchy in the absence of strong support from senior managers.</p>
<p><i>7 Communication that is meaningful connects the managed, social and individual worlds of change and is the means to overcome the barriers between these different worlds. You cannot change an organisation without changing the conversations within it (Seel 2004).</i></p>	<p>✓ The SCEPTRE team was acutely aware of the importance of effective and meaningful communication to all parts of the institution and worked very hard to engage the different constituencies it served. It made particular use of the video recorded testimonies of students who participated in the award as a means of showing others the value they had gained from the experience. There is no doubt that SCEPTRE made a significant contribution to conversations about teaching, learning, education and professional development within the university and in the wider HE community.</p>
<p><i>8 Tensions and conflicts often arise when bottom-up innovation meets existing procedures and systems. A system in change needs the awareness, will and capability to facilitate the resolution of local contentious practice.</i></p>	<p>X The Lifewide Learning Award created a state of local contentious practice effectively juxtaposing an unfamiliar and contested concept of learning and personal development against a traditional view of what higher education learning and education meant in this university. It proved impossible to resolve in the short time available to demonstrate the value of the award to students and given the organisational contexts described above.</p>
<p><i>9 Organisational change is accomplished through the deepening of existing relationships and the forging of new collaborative partnerships that generate ideas, and provide encouragement, practical help and support.</i></p>	<p>✓ SCEPTRE was well aware of the need to develop and maintain good working relationships with people. It identified specific individuals, organisational groups and communities within and outside the university to work with and also created its own communities - some transient some more permanent.</p> <p>X The failure was in not establishing a partnership with the third senior manager responsible for the SCEPTRE project.</p>
<p><i>10 An emotionally nourishing environment helps people deal with the challenges, stresses, anxieties and frustrations of trying to bring about significant change and helps them to remain positive in the face of setbacks.</i></p>	<p>✓ The small SCEPTRE Team (4.5 FTE staff and two fulltime interns) provided an emotionally nourishing environment. Empathy and support were provided by SCEPTRE's champions from across the university and in the case of the Lifewide Learning Award from members of the Steering Committee (very supportive company CEO) and our two external advisors (one academic and one business representative).</p> <p>X The failure was in SCEPTRE not gaining the empathy and ownership for the Lifewide Learning Award innovation by the responsible senior manager in the final stage of the SCEPTRE project. The senior manager was appointed in the final year of SCEPTRE's existence and the Award was not one of their priorities.</p>
<p><i>11 Sharing what has been learnt and celebrating what has been achieved. If expansive learning is a core enterprise in strategic change then it is important that new knowledge and understanding grown through the change process, is made available and distributed to other members of the organisation in ways that are appropriate and meaningful to them. Only then can what has been learnt be applied.</i></p>	<p>✓ SCEPTRE was conscious of its role as a developer of ideas and knowledge for practice and as a facilitator to help others do these things. During the five years of its existence SCEPTRE sponsored and organised seven conferences including four national conferences on the educational themes of the centre, twelve Training Academies for professional development, over 60 seminars many of which were streamed, recorded and archived, and six events specifically for business representatives. There was plenty of opportunities for university staff to learn about SCEPTRE's work and to learn new techniques to enhance their teaching or to develop themselves through their own projects. A suite of wikis was established covering the main themes of work and these provided hosts for the knowledge that had been gained. An e-book was established (over 30 chapters and currently 9000 hits). Specific activities relating to the development and sharing of knowledge about lifewide learning included two national conferences, a wiki and a published book - Learning for a Complex World: a lifewide concept of learning, development and achievement. Also the website that was developed to support learners on the award has been preserved for others to use the resources that were produced.</p> <p>X The failure was in the university not capitalising on these unique resources.</p>

All the factors identified in Table 9 were relevant to the SCEPTRe change project in general and to the Lifewide Learning Award in particular. Areas of 'failure' might be summarised in terms of the SCEPTRe project and the Lifewide Learning Award initiative never being part of a strategy that was led from the top of the organisation and never being part of a vision for education and learning at the University of Surrey. A significant reason for failure to accomplish the Lifewide Learning Award innovation was embedded in a lack of interest or empathy in what SCEPTRe was trying to accomplish by the Senior Manager responsible for SCEPTRe during the final stage of the project. The absence of a history of involvement in the SCEPTRe project as it evolved may have been a contributory factor as there would have been no sense of ownership or responsibility for the outcomes. The lack of empathy might have been the result of differences in educational philosophy, of different priorities and of pressures to cut costs. The university was actively cutting costs and making staff redundant across the university. As only one of SCEPTRe's staff was on a permanent contract it was relatively easy to let people go without incurring additional costs. It's impossible to untangle the economic, political and ideological factors they were all part of the wicked challenge that set the scene for this essay. Perhaps the most important failure was the university not making the most of the additional investment that had been made. While many individuals clearly benefited from the opportunities afforded by SCEPTRe and made changes to their practices the University failed to capitalise on SCEPTRe as a resource for changing and enhancing its educational model in a way that some other universities had achieved.

## But Not Being Successful Does Not Mean Failure

Anyone who involves themselves in innovation has to be prepared to accept that they may not be successful in achieving their goals - that is the nature of innovation. But after working very hard to achieve something for a long time failure to achieve a goal can be emotionally difficult. The SCEPTRe team had to come to terms with feeling that their ideas and the important practical work that had done around supporting students' lifewide learning had been rejected by the university, especially as the decision not to continue to full implementation was taken while the Lifewide Learning Award pilot was still in progress and before the evaluation report had been completed. This decision had been conflated with the decision to close SCEPTRe in March 2011 when external funding ceased.

Our ability to reason and rationalise failure often drives our spirit to try again and the failure of the University of Surrey to see the value and potential of SCEPTRe's work on lifewide learning, education and personal development, provided some of the people who had been involved with the opportunity to take their ideas forward in a different way.



After leaving the University the SCEPTRe team published a book (Jackson 2011) so that what had been learnt could be shared.

<http://lifewideeducation.co.uk/>



A Lifewide Education Community of Interest, has been formed to continue the work of developing and promoting these ideas.

And a Lifewide Development Award<sup>xi</sup>, adapted from the Surrey Lifewide Learning Award, is being piloted.

In this way SCEPTrE's legacy might prove to be more disruptive and of value to the world than if it had remained within the university environment in which it had been created.

In trying to adapt this innovation to a new context and create social movement around it I am conscious of following a simple set of rules developed by Michael Fullan (Fullan 2003: 23) which have been instrumental in sustaining my work with higher education communities.

- Start with the notion of moral purpose, key problems, desirable directions, but don't lock in (*eg to help people develop through all of their life experiences*)
- Create communities of interaction around these ideas (*eg lifewide education community*)
- Ensure that quality information infuses interaction and related deliberations (*eg Lifewide Magazine, e-book, forum exchanges, and social network postings*)
- Look for and extract promising patterns - consolidate gains and build on them (*an ongoing process*)

You can find out more about lifewide education at

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## End Notes

<sup>i</sup> <http://www.new-paradigm.co.uk/Planning.htm>

<sup>ii</sup> (Oxford Dictionary).

<sup>iii</sup> Business Dictionary <http://www.businessdictionary.com/definition/innovation.html#ixzz29IDLGezs>

<sup>iv</sup> School for Innovators (<http://www.thinking-expedition.com/change7.html>).

<sup>v</sup> <http://solent.ac.uk>

<sup>vi</sup> Higher Education Funding Council (England)

<sup>vii</sup> <http://sceptre.org.uk/>

<sup>viii</sup> The CoLab initiative became a national case study (<https://wiki.brookes.ac.uk/display/slidacases/Surrey>).

<sup>ix</sup> SCEPTRE's work is documented on its website <http://www.sceptre.org.uk> and wikis which can be accessed through the website. An end of project evaluation report, together with other key documents can be found at: <http://sceptreevaluation.pbworks.com>

<sup>x</sup> <http://www2.warwick.ac.uk/fac/soc/ier/glacier/learning/theories/activitytheory/>

<sup>xi</sup> <http://www.lifewideaward.com/>