NECESSITY SHOULD BE THE MOTHER OF INNOVATION

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The imperative of thinking differently, identifying and exploring opportunities for innovation, may never be greater for many organisations than in a period of economic recession, yet the likelihood of it occurring in practice given the frequent need for short-term ‘fire-fighting’ may never be lower. At an economy-wide level, the same impasse and disjoint between what is required and what is likely to happen in practice jeopardises the process of renewal and recovery. There may not be an obvious solution to this conundrum but there are some straightforward possibilities that might be considered by organisations small, medium and large, private or public.

It has long been recognised that entrepreneurship and innovation underpin economic development and progress. Back in the early 20th century Joseph Schumpeter, the famous Austrian economist, emphasised the crucial distinction between incremental and discontinuous innovation. The first builds on gradual improvements to the accepted and established methods of operation whilst the second causes radical change. The first improves, the second transforms. Whilst Joseph Schumpeter was observing these characteristics in the generic context of economic development precisely the same principles apply to individuals and also businesses and organisations of all kinds.

Incremental innovation may be important in maintaining or increasing market share often in response to market research and customer feedback. The inspiration for radical innovation that involves considering key aspects of a business from non-obvious, different and novel perspectives may reveal opportunities previously unrecognised. These innovations are not just restricted to products, services and processes but also refer to organisational behaviour, structure and culture. Whilst it may be important for...
organisations to refresh their ‘offer’ in order to remain competitive within existing markets and technologies it is also crucial that they undertake a more wide-ranging and free-thinking review of all areas of their operations to ensure that opportunities previously unrecognised are not missed. To achieve this requires rigorous ‘pre-concept’ preparations prior to ‘post-concept’ implementation strategies. Consider the continuum of innovation that stretches from problem or opportunity identification all the way through to a new innovation.

Given a problem, opportunity or perceived need then in a perfect rational world those considering implementing an effective response would follow a simple but rigorous procedure.

In the definition phase they would strip the problem down to its root causes and prioritise these so that they could be dealt with one at a time.

In the discovery phase the root cause concerned would be comprehensively explored with as rich a set of solutions as could be produced using divergent thinking and solution storming.

In the determine phase the wealth of spontaneous ideas and solutions would be sorted and sifted and reduced to a number of viable practical alternatives. Proven techniques would then be used to ascertain the best possible solution.

The new product, process, mode of organisation or structure that emerges from this pre-concept focus would then be subject to more familiar considerations in terms of development, design and eventual deployment.

In practice, as individuals or organisations, we tend to neglect this crucial ‘pre-concept’ focus and default immediately or very quickly to the nearest solution emerging from previous experience or that deployed by others. When confronting a problem there is pressure to seek a solution as quickly as possible. This means that the rigours of definition, solution generation and solution selection are neglected and the flow of new ideas and concepts into organisations and economic progress more generally may be suboptimal. Pre-concept innovation analysis may also help to filter out unworkable concepts at an early stage when the sunk cost involved is quite low. Insufficient focus on problem definition, idea generation and concept selection often allows significant costs to be incurred before fundamental weaknesses that could have been detected much earlier are fully recognised.

In order to determine the levels of innovation in a business it is important to consider the extent to which opportunity identification activities are present and pre-concept analyses are undertaken. The extent to which new products processes and organisational changes are introduced should also be considered. As indicated above time pressure may appear to preclude these considerations in practice particularly when ‘fire-fighting’ in a recession but finding some space to reflect on these issues in the context of prevailing business practice could make a significant positive difference.

In the ‘Ingenuity Approach’ developed over the past two years at the University of Nottingham Institute for Enterprise and Innovation (UNIEI) at Nottingham University Business School (NUBS) has been designed with the specific aim of ‘demystifying’ pre-concept innovation activities. It enables and encourages individuals and teams to think differently, more creatively and more effectively. It leads to the generation of non obvious and often superior solutions. This approach has been applied successfully in practice with a wide variety of groups including high growth SMEs, large public and private organisations, academics, post graduate students and now, most recently, the mass application of the principles with over 800 first semester undergraduates. Future developments include an exploration of the ways to harness the creativity of hundreds of teams of bright young minds by encouraging them to apply the Ingenuity approach to pressing live problems affecting people, communities and businesses. The outcomes are impossible to predict but their impact could be enormous.

The Ingenuity approach is now available more widely from Amazon through the publication ‘Ingenuity in Practice – A Guide for Clear Thinking’ written by Paul Kirkham, Simon Mosey and Martin Binks.