The River Metaphor for Strategic Management

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This article introduces a new metaphor for strategic management, namely, that of the strategy river. In comparison with the frequently used concept of path-dependency, the strategy river emphasizes time and timing, co-evolutionary interplay between strategies and institutional environments, strategic momentum and the systemic nature of decision-making. Based on the scrutiny of its theoretical underpinnings, we argue that the strategy river metaphor is based on an alternative paradigm of organizational evolution. Furthermore, the river metaphor is perceived with respect to many realities of managerial decision-making.

Keywords: Strategic management, River metaphor, Path dependency, Decision-making, Organizational evolution

Since the 1980s, evolutionary management theorists have argued the need to understand path-dependency in strategic management (e.g. Barnett & Burgelman, 1996; Nelson & Winter, 1982), which has lately resulted in increased attention to issues such as co-evolution (Lewin & Volberda, 1999; Eisenhardt & Galunic, 2000), timing (Albert & Bell, 2002; Brown & Eisenhardt, 1997), and time spacing and patching (Eisenhardt & Brown, 1998; Eisenhardt & Brown, 1999). More specifically, path-dependency has been conceptualized to symbolize the dynamic nature of decision-making (see e.g. Eriksson, Majkgard, & Sharma, 2000; Mueller, 1997; Sterman & Wittenberg, 1999).

Lately, however, strategic management researchers have argued the need for conceptual development towards a more dynamic, systemic, cognitive and holistic theory of strategy (see e.g. Sanchez & Heene, 1997). In our view, the concept of path-dependency adheres only partially to a systemic theory of strategy and thus illuminates only some aspects of organizational life. Moreover, despite its popularity in strategic management research, the concept of path-dependency has remained rather abstract and therefore inaccessible to a wider managerial audience.

This is partly due to the industrial organization economics background of the concept (Liebowitz & Margolis, 1995; Tirole, 2001).

We attempt to capture the evolutionary, dynamic and systemic nature of strategic decision-making in a new metaphor, namely the strategy river. With the aid of this complementary metaphor, our aim is to enrich critically our understanding of the evolutionary aspects of strategic management. We see that strategic decisions, like rivers, are constrained not only by the historical decisions made (as in the path-dependency metaphor) but also by issues related to timing and co-evolutionary interplay with the environment. On the other hand, we see that strategic decision-making takes place in systemic, network-like settings, which resemble the molecular structure and behavior of water. Much like water, we perceive the future strategic direction of a company to be determined by its current velocity, mass and direction.

Organization theorists and strategy researchers have used many kinds of metaphors over the past two decades. To name a few, jazz (Hatch, 1999), team sports (Keidel, 1987), Chinese elephant (Ming-Sum, 1998), jigsaw puzzle, ice skater, jazz band (Neilson, 1992), house (Pearce & Osmond, 1996), disease (Wyld, Phillips, Phillips, & Cappel, 1998), food and war (Oliver, 1999), safari (Mintzberg, Ahlstrand, & Lampel, 1998), military (Winsor, 1996) and theater (Terry, 1997) metaphors have been used in a more or less disciplined way. In organizational and management research, metaphors have traditionally been used for pedagogical purposes, namely to simplify otherwise abstract phenomena (Palmer & Dunford, 1996). In theorizing, metaphorical language has been used partly for the same reasons, not only to make complex arguments more understandable, but also because metaphors can create new meanings and connections between concepts that have not had any previous connection (Weick, 1989; Letiche & van Uden, 1998). As posited in the constructionist social sciences (Mir & Watson, 2000), metaphors help not only to understand complex phenomena, but take
into account our perspective of the world as well (Weick, 1989). As Gareth Morgan has pointed out, ‘the use of metaphor implies a way of thinking and a way of seeing that pervade how we understand our world generally’ (Morgan, 1986).

Conventionally, the use of metaphors has been bipartite. On one hand - managerially oriented literature has used metaphors lightly as a means to convey the essence of strategy to managers (see e.g. Oliver, 1999; Pearce & Osmond, 1996). On the other hand, the postmodernist research tradition is very keen on the rigorous treatment of metaphors in management research (see e.g. Hatch & Weick, 1998). There is a certain ontological difference between the two: the former uses metaphors as illustrations of managerial reality, whereas the latter sees reality as a projection of human imagination. Even though we attempt to categorize the strategy river metaphor rigorously, this paper does not belong to the postmodernist narrative tradition in management research, but operates on a rather shallower level of social scientific thought. Together with Morgan and Smirich’s (Morgan & Smirich, 1980) classification, we see ‘reality as a concrete process’.

Following this introductory part, the paper is divided into four parts. Before moving on to describing the strategy river metaphor, we iterate the foundations into four parts. Before moving on to describing the strategy river metaphor, we iterate the foundations into four parts. Before moving on to describing the strategy river metaphor, we iterate the foundations into four parts. Before moving on to describing the strategy river metaphor, we iterate the foundations into four parts. Before moving on to describing the strategy river metaphor, we iterate the foundations into four parts.

What is Path Dependency?

The idea of path-dependency emerged from the so-called new institutional economics tradition founded by the works of, for example, Coase, Simon, March and Commons (further discussed in Vromen, 1995) in the 1950–1960s and has continued to evolve around the contributions of Williamson (1975), Coase (1937) and North (1990). The initial conceptualization that made the principle of path-dependency accessible to contemporary economics and management research originates from the work of Brian Arthur (1989) and Paul David (1986). Strategy research concentrating on the resources, dynamic capabilities and the evolution of the firm (e.g. Teece, Pisano, & Shuen, 1997; Barnett & Burgelman, 1996) has adopted path-dependency as a means of coping with complex organizational contingencies through time.

Some of the more central definitions and treatments can be summarized as follows:

- ‘The behavior of an organism through a short interval of time is to be accounted for by (1) its internal state at the beginning of the interval, and (2) its environment at the beginning of the interval (which will)…determine…the behavior …of the internal state will be at the next moment of time’ (March & Simon, 1963)
- ‘A path-dependent stochastic process is one whose asymptotic distribution evolves as a consequence of the process’s own history’ (David, 2001)
- ‘A firm’s previous investments and its repertoire of routines (its ’history’) constrains its future behavior’ (Teece, Pisano & Shuen, 1997)
- The evolutionary perspective… means developing dynamic, path-dependent models which allow for possible random variation and selection within and among organizations’ (Barnett & Burgelman, 1996)

Arthur and other prominent scholars emphasized the dynamic nature of economic life by arguing that ‘history matters’ (Arthur, 1989; Arthur, Ermoliev & Kaniovski, 1987). In strategic management research, it is equally accepted that the notion of path-dependency is simplified by the ‘history matters’ mantra. The notion of path dependencies recognizes that ‘history matters’. Bygones are rarely bygones despite the predictions of rational actor theory’ (Teece, Pisano, & Shuen, 1997). The notion of path-dependency has been reduced to the simple idea of historical contingency, without respect for the systemic and evolutionary nature of strategic decision-making. Many have argued that the idea of path-dependency should symbolize both the evolutionary and systemic elements of strategic management (see e.g. Barnett & Burgelman, 1996; Eriksson, Majkgard, & Sharma, 2000), but we only perceive this in the theoretical underpinnings of path-dependency and not in the actual concept. The actual concept of path-dependency, in the way it is used as a metaphor in strategic management, suffers from oversimplification.

The theoretical foundations are rich in evolutionary and systemic aspects. The economics-flavored theoretical foundation of the idea of path-dependency (see e.g. Lewin, 2001) advocates the principles of non-linearity and self-organizing, systemic behavior (Arthur, Ermoliev & Kaniovski, 1987). Equally, the systemic nature of economic activity, innumerable interactions occurring interdependently simultaneously and sequentially, is one of the basic prob-
lemes of strategic management (Brown and Eisenhardt, 1997; Sanchez and Heene, 1997; Stacey, 1995). Complexity theorists have argued that such systemic circumstances are ultimately characterized by self-organization (Kauffman, 1995; Holland, 1996; see also Stacey, 1995).

Self-organizing systems are processes whose evaluation cannot be predicted although they follow existing and emerging rule-settings (Arthur, 1989; Holland, 1996). The visualization of this is a non-linear web in which the components can interact in countless probable ways (Holland, 1996). Consequently, a very small change between two components is a good example of how the self-organizing principle affects strategic management, among other things. Brian Arthur has argued that technologies form and develop as an interactive network: innovations in technology A create new markets in technology B, and together these motivate innovations in C (Arthur, 1989). A real-life example is the emergence of the modern automobile that created market opportunities for gas stations, motels, and restaurants, thus creating a cluster of technologies around the primary innovation.

A consequence of the self-organizing principle is that the number of innovations will grow the more complex and diversified a system is. Furthermore, technological innovation processes are path-dependent processes: a dominant innovation such as the automobile or the clock creates a cluster of techniques (and businesses) which may cause these technologies to lock-in. In other words, path-dependency means that even accidental, small choices in the past might have enormous consequences. Once in a path, it would be most expensive to abandon the dominant technology cluster and to change to other clusters (David, 2001). Again, the example of the clock is figurative: it would be if not impossible, at least expensive to swap to some other time-measuring system.

Both economics and strategic management researchers agree on the dynamic and evolutionary nature of decision-making. Past and present decisions affect decision-making trajectories in the future (North, 1990). The classic example of path-dependent development in economics is the QWERTY keyboard which has dominated typewriting machines even though there are other, economically superior alternatives such as the Dvorak keyboard. The central lesson in the QWERTY story is that the adoption of this system created a lock-in situation that has been impossible to break until recently (voice-activated typing etc.) (overview to the QWERTY discussion in e.g. Lewin, 2001; Liebowitz & Margolis, 1995).

Management literature has emphasized that firm capabilities evolve as a function of the historical pattern of decisions (Teece, Pisano & Shuen, 1997). Key elements of the evolutionary perspective to strategic management include organizational learning, firm lock-in in e.g. partnerships and competitive positions, as well as the development of switching costs through investment decisions (Barnett & Burgelman, 1996). A classic example of firm evolution in management research relates to a corporate divestment decision where a divested division from a conglomerate cuts one possible development path from future strategic scenarios but might create new paths or niches via increasing resources in the other divisions.

The idea of evolutionary decision-making is in principle incorporated in the path-dependency metaphor. Three important nuances of the theory are, however, not incorporated. These are the notions of lock-in through cumulative momentum, timing and co-evolutionary interplay with the environment. Path dependency, as a metaphor, does not consider the cumulatively growing momentum of a string of strategic decisions as illustrated by the QWERTY example. Neither does it appreciate the significance of timing and the pressure of high-velocity environments (Eisenhardt, 1989; Ilinitch, D’Aveni, & Lewin, 1996) or the significance of co-evolutionary interplay organizational actors and environments (Lewin & Volberda, 1999) even though these are central to evolutionary management theory. Through the incorporation of such issues, the river metaphor has potential to enrich evolutionary management theory and complement the concept of path-dependency.

Simultaneously, the river metaphor is poised to make the entire path-dependency ideology more accessible to managerial decision-making. Due to its origin in the industrial organization economics literature, the entire set of concepts around idea of path-dependency has remained rather abstract. By incorporating elements of managerial reality, e.g. the feeling that everything is linked with everything else, the pressure to make hurried decisions, the helplessness managers feel when they disagree with the general strategic logic that has already gained momentum as well as the perceived impossibility of changing the rules of the game, we hope to provide a set of metaphors that demonstrates a more complementary view on how strategic management activities occur.

Strategy River

The path as a metaphor of strategic decision-making is useful in the way it highlights the influence of past decisions on current and future strategic options. It advocates a process perspective of managing firms by highlighting the evolutionary nature of a firm’s life and has enriched the strategic management discourse with such key concepts as dependency and sequentiality. However, we believe that the path metaphor of strategic decision-making is insufficient and abstract. In the following, we highlight some of
the problems relating to the path metaphor and suggest ways in which the strategy river could serve as a complementary and more accessible strategy metaphor.

**Evolution and Dynamics in Decision-making**

Firstly, the basic problem of the path metaphor is that paths do not force decision-makers to move. Path dependency implies that decision-makers have to follow the chosen path or bear high switching costs (pushing through the dense forest to another parallel path), but metaphorically, the dynamics are dependent on the decision-maker’s movement. Moving backward would thus be as easy as moving forward. According to the path metaphor, the same decision can also be repeated. Returning to the previous decision-making ‘intersection’ is possible. A river, on the contrary, flows forward (actually downwards) constantly.

The river metaphor argues that strategic decision-making situations cannot be revisited, even later. It respects managerial reality by highlighting the fact that strategic decisions cannot be undone. A river never flows back to its previous intersection. Strategic decisions have immediate repercussions and even attempting to ‘cancel’ a strategic decision creates bad will and eats into a manager’s credibility. The strategy river also forces the decision-maker to move constantly. A decision-maker cannot stop at an intersection (as in the path metaphor), but is forced to make a decision in a limited window of opportunity. Similarly, managers cannot freeze e.g. the organization, technological development, the development of consumer tastes or competitors, and win time to perform a careful analysis to justify a strategic decision.

**Time and Timing**

Secondly, the river metaphor is superior in the way it emphasizes the importance of timing. Not only is timing essential since the decision-maker cannot stop and win time, but the decision-maker also needs to relate the strategic decisions to different timing-contingent phases. Examples of this are e.g. macro-level business cycles and technology life cycles. If we compare a water-rich spring to the high phase of a business cycle, it is evident that decision-makers have much less time than in winter (low business cycle) or relatively close to the sea (mature life cycle). Likewise, the decision-maker needs to understand when a breakthrough technology or a technological discontinuity is approaching in order to make full use of it. Much like a rapid or a waterfall, these can be undetectable to the decision-maker until they actually occur. Thus, the river metaphor helps to visualize different decision-making rhythms and emphasizes the relevance of timing.

**Co-evolutionary Interplay**

Thirdly, we feel that path metaphor overemphasizes historical contingencies and mitigates the co-evolutionary interplay a firm and its strategy has with the environment. The river metaphor is contingent on the decision-making’s environment, or ‘landscape’ in which the river flows. The features of the landscape, e.g. the steepness of the slope and the shape and depth of the riverbed, constrain the flow of the river. The speed of the river varies depending on the place and time. On mountains, the flow is always more frantic than near the sea. Similarly, deep riverbeds make rivers flow faster and shallow embankments allow water to flow with different speeds, since water flows slower near shallow embankments than in the middle of the river. This thought is potentially appealing to managerial decision-making. Young companies can and have to make more frequent strategic choices. If the gains from the business are big, companies and strategies tend to move fast. Moreover, some business and industries allow for more variety in the ways firms can operate e.g. how fast business is conducted or what level of ambition a company generates.

Strategy is dependent not only on the landscape, but strategies also shape landscapes. According to a textbook, ‘as the river approaches the base level, downward cutting is replaced by lateral cutting, the river widens its bed and valley, and develops a sinuous course that forms exaggerated loops and bends called meanders...velocity is governed by the volume of water, the slope of the bed, and shape of the channel (which determines the amount of frictional resistance)’ (Encyclopedia, 2001). Despite the slowness of environmental change, firms with significant momentum can have an influence on the institutions in their environment. Firm strategies exist in co-evolutionary interplay with such institutions as regulation and legislation, industry logic (i.e. ‘the rules of the game’) and societal belief systems (reflected in ‘public opinion’).

From the river metaphor perspective, it is interesting that the majority of European rivers are governed not only by natural reasons, but also by built channels, water volume control-systems, and modified river slopes. In a way, institutions are parallel phenomena with such man-made constructions: they are socially-created rules that affect not only the direction of the organization, but velocity as well. Institutions not only regulate strategic decision-making. They give directions as well by creating rule-settings and structures thus making strategizing more predictable. For example, many countries represent a hostile environment for businesses because of their unstable rule-settings: it is hard to see the direction of the river if there are no trustworthy guidance systems.

The river, its landscape, i.e. the institutional and non-institutional environments (Lewin & Volberda, 1999)
and the timing aspects form a co-evolutionary process that can provide possibilities for new organizational directions. ‘...escarpments and the differences in the resistance of rocks create irregularities in the bed of a river and can thus cause (for example) rapids and waterfalls.’ Similarly, long periods of frost (i.e. depressions that cut down on investment opportunities) or rain that cause flooding (economy-wide transformation periods) can narrow down the strategic alternatives or facilitate crossing rivers or channels. Thus to be able to understand the formation of strategic alternatives, one has to understand the co-evolutionary interplay between the river, the landscape and the various time-related aspects (e.g. various cycle phases and the timing of decision-making).

Momentum

The product of co-evolutionary interplay between strategies and landscapes is visualized in the momentum at which the river flows. The path metaphor does not incorporate strategic and organizational momentum to the same extent as the river metaphor. The product of the mass of water and its velocity determines how much the river modifies the topography by deposition and erosion and how changes in the topography change the course of the river. Rivers with high momentum tend to shape their landscape more. Fast flowing rivers have even been witnessed to flow uphill momentarily. Deep and narrow rivers tend to diverge less often.

In this sense, the river metaphor illustrates the importance of momentum and inertia in strategic decision-making. Strong strategic imperatives, either at the industry or firm level, tend to reduce the probability and possibility of divergence from the general strategic direction. When a strategic imperative gathers momentum inside an organization, alternative strategies or strategic opportunities are dismissed more easily and only very significant changes in the business environment change the strategic direction. Antagonists are disregarded or dismissed. Moreover, momentum can turn to inertia. Firms with a history of single, strong strategic directions have trouble reacting to emerging opportunities, diversifying with success and adapting to changing landscapes.

Systemic Nature of Decision-making

The strategy river metaphor helps to visualize the process of strategic events and respects many of the managerial realities of factual strategic decision-making situations. The river metaphor, however, does not tell us very much about the decision-making processes as such. For the purpose of illuminating strategic decision-making processes, we introduce another, partly related metaphor, namely, water. Water represents the systemic nature of a river and illustrates the plethora of systemic linkages created by strategic decision-making processes.

By definition, water is an ‘...odorless, tasteless, transparent liquid ...chemically ...compound of hydrogen and oxygen’ (Encyclopedia, 2001). From the perspective of organizational metaphor, the most interesting quality of water is its structure. Firstly, the atoms in one molecule are arranged with two H–O bonds in an asymmetric way. It is not necessary to explain the electrical qualities of a water molecule in detail, but the most important characteristic is that an electric dipole gives rise to attractions between neighboring opposite ends of water molecules, with each oxygen atom being able to attract two nearby hydrogen atoms of two other water molecules. This hydrogen bonding is strong enough to keep the water liquid at ordinary temperatures (Encyclopedia, 2001).

Differences between the ‘path’ and ‘river’ strategy, metaphors are shown in Table 1.

Theoretical Discussion

The purpose of this study was to critically evaluate the value of the path-dependency metaphor for strategy and organization research. This was done by complementing the concept of path-dependency with another ‘strategy river’ metaphor. Theoretically, the concept of path-dependency is inherently interdisciplinary. Path dependency has arguably acted as a linking concept between three disciplinary domains, namely those of industrial organization and economics (e.g. Arthur, 1989; David, 2001; Katz and Shapiro, 1986; see overview in Tirole, 2001), evolutionary and behavioral organization theory and sociology (e.g. Hannan and Freeman, 1977; Hannan and Freeman, 1984; Lewin and Volberda, 1999; overview in Romaneli, 1991) as well as contemporary theory of strategic management (Burgelman, 2002; Teece, Pisano & Shuen, 1997).

The river metaphor can be perceived as enriching researchers’ conceptual understanding. The river metaphor relates to established construction especially from the competence perspective of strategy research. The high-velocity nature of decision-
Table 1  Path vs. River Metaphors of Strategy

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<td>Time and timing</td>
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making (Eisenhardt, 1989) is explicit in the river metaphor. Likewise, momentum thinking in the river metaphor bears resemblance to the tendency of strategic management to converge on dominant strategic imperatives which are characteristic of a particular era. Examples of such imperatives include the strategic planning in the 1960s, the portfolio management in the 1970s, the industrial organization perspectives of the 1980s and the resource-based view in the 1990s.

However, the strategy river metaphor is also meta-theoretical by nature. It gathers theoretical insights from a number of disciplinary streams of thought and presents them in a single conceptual entity. Cursory viewed, the river metaphor seems to be underpinned by an incoherent group of theories that operate on various different levels of analysis. These include, for example, *negotiated order* (Strauss, 1963), *emergence of strategic action* (Mintzberg & Waters, 1982) and *social systems* (overview in Romanelli, 1991) and *stakeholder plurality* (see e.g. Donaldson, 1999).

Firstly, the river metaphor reflects the principle of emergence both in the way social systems are created and the way strategic decision-making takes place. One of the key perspectives in evolutionary organization theory research argues for the emergent nature of social systems (Van de Ven, 1989). As Romanelli (1991: pp. 96) states, ‘This perspective views variations in organizational forms as arising dynamically through the cumulative interactions of entrepreneurs and organizations towards the establishment of a new …system’. In strategic management theory, emergent strategies are perceived to flow naturally from bottom to top, whereas intended strategies created by top management will be reflected from top to bottom before they can be implemented (Mintzberg, 1992). Strategic innovation networks are examples that reflect both types of emergence. Building on Arthur’s (1989) argument, a small strategic decision can move an organization to a position where even random choices create a whole set of strategic opportunities. A good example is how the Finnish conglomerate Nokia realized in the early 1990s that it had a strong competitive advantage over other cellular phone producers primarily because of some almost accidental processes in the 1960–1970s.

Secondly, the river metaphor reflects negotiated order. The basic concept is the idea of negotiated order which states that individuals and interest groups maintain and re-negotiate continuously implicit and explicit agreements and organizational rule-settings (Strauss, 1963). The theory of negotiated order explains the mechanisms in which social systems are constructed and maintained. A vast number of interactions between and inside organizations cause them to function as evolutionary systems and it is crucial for the organizations’ survival that this complex process of interactions emerges around them (Cilliers, 2000).

Finally, the identification and categorization of groups and actors in a real-life environment requires a lower level of abstraction. In this sense, stakeholder management theories are a crucial underpinning. According to stakeholder management frameworks,
an organization has to balance the interests of its stakeholders in order to secure the organization’s long-time survival (Freeman, 1984). From the river metaphor point of view, Freeman’s notion that stakeholder relations are actually implicitly or explicitly negotiated agreements (Freeman & Evan, 1990) fits nicely the interactive environment around molecule clusters.

In our view, all these theories reflect the principle of a network-like organization of social and economic activity. Unlike the path-dependency metaphor, theoretical underpinnings of the river metaphor reflect the principles of spontaneous or accidental selection, repeated interaction, adaptation to systemic changes and spanning of organizational boundaries. Based on this, we perceive the strategy river metaphor to be founded on an entirely different paradigm and theoretically constructed in a different way from the path metaphor. Whereas the path metaphor can be argued to originate from a more hierarchical world-view, the river metaphor emphasizes dynamics, timing, systems and co-evolutionary interplay. We argue that the strategy river metaphor adheres to a paradigm called ‘the existence of a network society’ (Castells, 1996). The network society logic argues essentially that the economy functions as a complex system of interlinked actors, activities and resources, whose interplay resembles spontaneous market ordering on one hand and large hierarchies on the other. Following the logic of Morgan and Smirch (1980), the river metaphor pulls together a group of specific theoretical principles as well as the influence of ‘the existence of a network society’ paradigm. The theoretical structuring around the river metaphor is illustrated in Figure 1.

Finally, the purpose of this paper was not to campaign for the replacement or the revision (Hatch, 1999) of the path-dependency metaphor, but to enrich the discussion with a metaphor that highlights the evolution of both organizational life as well as strategies in which they are managed. Thus, the river metaphor attempts to introduce a fresh perspective into strategic management which can be seen to enrich the conceptual treasure chest of both managers and theoreticians.

Managerial Implications

In addition to examining the theoretical structuring of the river metaphor, this paper concentrates on addressing the managerial accessibility of the ‘path’ and ‘river’ metaphors of the evolutionary, timing and systemic effects of strategic management. Part of the value of building and enhancing metaphors related to strategic decision-making emerges from the fact that managerial problems very seldom fall within disciplinary boundaries set out in the academic literature or functional boundaries within organizations.

A further managerial implication of introducing the river metaphor is that it strengthens managerial cognition about strategy. Actually, there are several mechanisms through which the potential of the river metaphor, as any metaphor, is realized. Firstly, there is the obvious influence on managers’ personal decision-making. If the river metaphor succeeds in depicting the reality of managerial decision-making situations, managers can potentially utilize their fuller understanding of the nature of strategic management in their decision-making processes.

Secondly, along the lines of Morgan and Smirch (1980), we feel that a multitude of metaphors is needed to communicate the complexity surrounding
the concept of strategy. The river metaphor can become a communication tool, which is used to pass on especially issues related to the timing, phasing, momentum or interplay in a given strategic decision-making situation. Thirdly, we see the river metaphor as a very useful tool in managerial education. For example, the river metaphor helps understand the temporal dimensions of strategic decision-making, e.g. haste, even when the strategic route is reconstructed with hindsight. This has value, especially in case-based teaching.

As such, the river metaphor further refines the impression of strategy as part of evolutionary organizational life and as a means of coping with complexity, uncertainty, change and systemic nature of the business-making environment. It emphasizes earlier attempts to describe and make strategy in a way that reflects a ‘messy’ managerial reality, similar to muddling through (Lindblom, 1959) and patching (Eisenhardt & Brown, 1999).

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