

Technology marketing and user involvement

Living Lab workshop June 21, 2007, Neubiberg

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Personal background

Present	 Professor strategy and marketing HTWG Konstanz, lake Constance university of applied science Working focus: Marketing for high-tech goods, dynamic management systems, CoP eArchitectures
	Research focus: ICT-supported platforms, processes and concepts for strategic management of dynamic inter- and intra-organisational networks

Professional experience and academic background	 Project manager Engineering Support System Eurofighter Project manager strategy consulting, Supplier-Relationship-Management-Systems Director, Siemens AG Corporate Strategy Head Strategy & Marketing, Siemens Business Services Germany Aeronautical Engineering (DiplIng.) Master of Business (DiplKaufm.) PhD Aeronautical Engineering (DrIng.)
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21-Jun-07



The eArchitecture Lab Constance is part of the Knowledge worker Productivity Lab

eArchitecture Lab Constance

Activities eArchitecture Lab

- Implementing, testing and evaluation applications/ systems that serve management system purposes
- Developing new approaches to management systems based on system integration and user involvement

Examples:

Arel (videoconferencing), Openscape (federated communication services), Solyp3 (strategic management)





Source: CeTIM



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21-Jun-07

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Accelerated innovation cycles seem to be more related with accelerated commercialization than accelerated R&D

Importance of accelerated commercialization



Source: Agarwal/Bayus (2002): The Market Evolution and Sales Takeoff of Product Innovations. Management Sciences, Vol. 48, pp. 1024-1041.





R&D-leadership is a prerequisite – however commercialisation seems to be key and user involvement strongly influences

Commercialisation strategies and user involvement





Source: Moore; Perillieux, R. (1987), Schnaars, 1986: When Entering Growth Markets, Are Pioneers Better Than Poachers?

User influence on successful commercialization is based on observing/copying behaviour, i.e. use of innovative products

Winning early adopters



- Marketing of innovative products is strongly influenced by adoption cycle
- Adoption cycle is driven by communication and/or by observing/copying use of innovative products
- Observing/copying of behaviour has a 10-times stronger impact !

→ However, only opinion leaders, i.e. early adopters strongly influence the early majority in copying behaviour

Source: Moore 1991; Crossing the chasm; Golder / Tellis, Pioneer Advantage: Marketing Logic or Marketing Legend?; Bass, F.M 1969, A New Product Growth Model for Consumer Durables, 1969, Management Science, 15, 215ff; Robertson / Gatignon, 1986: Competitive Effects on Technology Diffusion

21-Jun-07

Early user involvement enables a lead user driven approach – living lab infrastructures may facilitate this

Lead user sequence



Source: Eric von Hippel 2002, Horizontal innovation networks by and for users



Support focus of living lab infrastructures

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Summary – assumption and hypotheses

Living lab infrastructures should ...

- should be more concerned with innovation, i.e. commercialization than R&D
- should focus on lead user sequences to enable innovation processes driven by user involvement
- provide a link between R&D, i.e. companies and potential lead users
- In providing that link be more concerned with early adopters than about innovators
- lower the risk of application perceived by critical early adopters by e.g. providing protected testing environments
- Moderate the process of prototype development, information spreading and pre-commercial use between first customers, i.e. early adopters and companies





... which might help to find innovative and superior prototype designs

PalmPilot prototype – Museum of Modern Art





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21-Jun-07