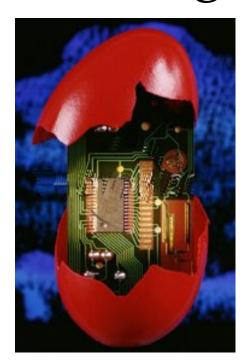
Managing Emerging Technologies



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Introduction

DEFINITION

 Emerging Technologies are those that are technologically immature, or those that are mature but have not yet achieved their potential level of acceptance and market penetration "Managing emerging technologies represents a 'different game', requiring a different set of management skills, frameworks, and strategies than those used by established firms to manage existing technologies"

> Source: Day & Schoemaker, Wharton Business School

DEFINITION



• Emerging Technologies Management is the discipline that specialises in competing and succeeding despite the high levels of risk, uncertainty and change that are associated with emerging technologies



The Situation

CHALLENGES FACED BY ENTERPRISES

- Emerging technologies already creating and restructuring industries
- Ambiguity and confusion around emerging technologies
- Emerging technologies require new approaches
- Emerging technologies being brought to market quicker
- Limited understanding as to how each emerging technology affects a specific enterprise/industry
- "Incumbent's curse"

UNMET NEEDS IN ORGANISATIONS

- Evaluation of emerging technologies
- Designing & managing alliances

People

ORGANISATION

Process

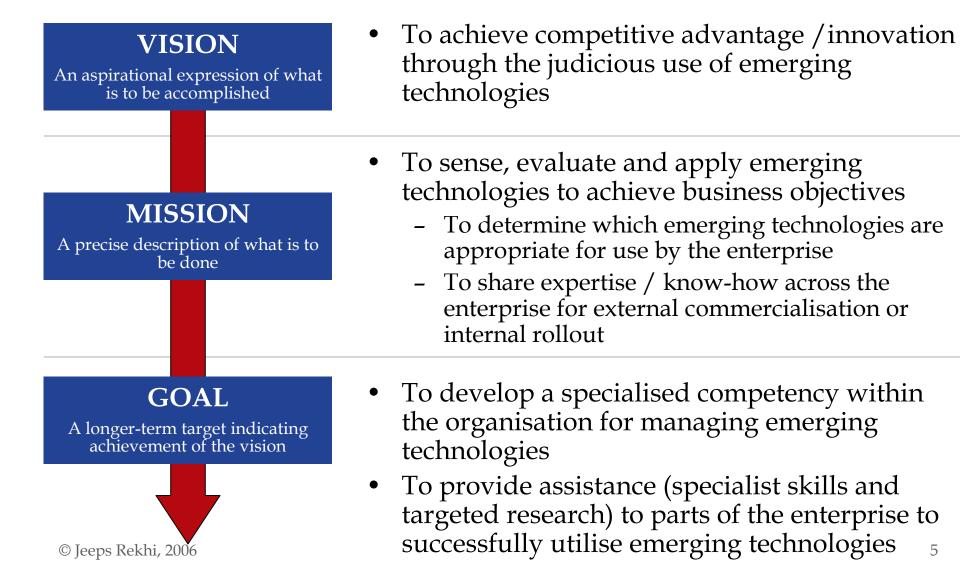
Technology

- Strategies for participating in emerging technologies
- Developing products for really new markets
 - Designing organisations to compete in emerging technologies
 - Managing intellectual capital
 - Evolution of emergingtechnology-based industries

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The Solution





Why Bother ?

APABII

BENEFI

More than four fifths of global executives say that technology will be critical to their company's ability to adapt business models and implement strategy in the coming 5 years

Source: Economist Intelligence Unit, 2005



- Better understand the future of your industry and any potential disruptive innovations
 - Changes to the market, risk of becoming uncompetitive or redundant
- Adopt a structured approach to deal with the technological uncertainties, ambiguous market signals, and embryonic competitive structures that accompany emerging technologies



- Create new technical capabilities quicker than competitors
- Raises probability of success in identifying and capitalising on emerging technologies
- Reduces burden on the organisation and duplication of effort
- Reduce costs of existing technical infrastructure



Delivery Of Solution

Development of 3 stage process:

Step	Activity	Decisions Supported
1. Identifying & Understanding Emerging Technologies	Researching	• Whether to investigate the emerging technology or not
2. Determining Potential Impact Of Emerging Technologies	Evaluating	•Whether to deploy the emerging technology or not
3. Capitalising on Emerging Technologies	Committing	• How to deploy the emerging technology

Role Supported:

- To drive the project and provide all necessary skills until decision to deploy
- To provide focused expertise during deployment



Solution Differentiators

- Development of long-term perspective through internal competency
 - Continuous research rather than just a snapshot of the market
 - Lessons learned create a reinforcing learning loop
- Specifics of the industry and the organisation are taken into account
 - Both substantially affect which emerging technologies to select
- Flexibility in applying knowledge holistically or for particular lines of business
 - Can be applied to external commercialisation or internal roll-out
 - Skills transfer to other parts of the organisation