

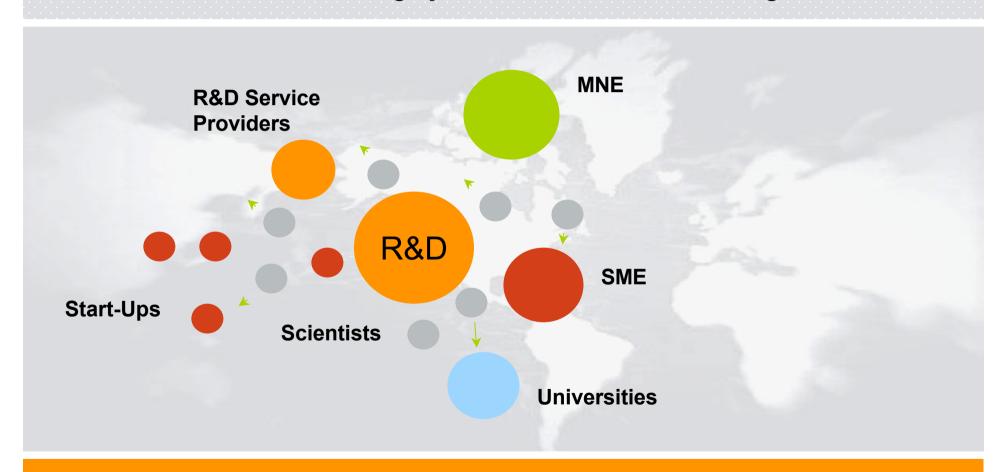
The Future of Corporate Innovation

Will there be an Outsourcing Endgame?

Summit of the Future 2005 | Andreas Neef

Background:

Rising Spread of Scientific Knowledge

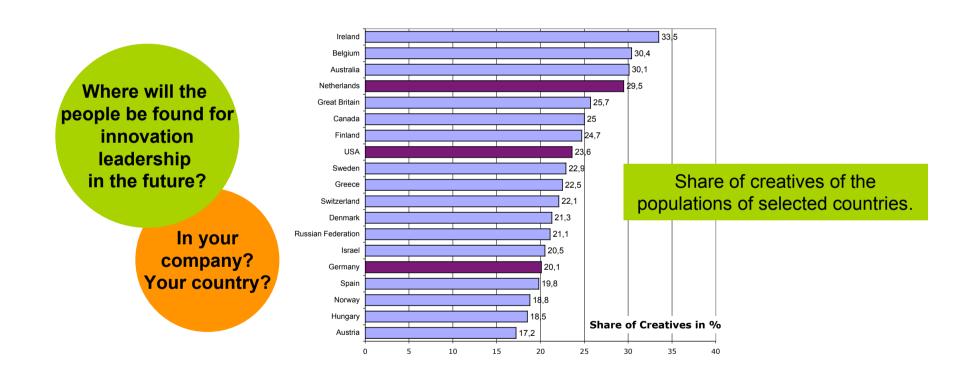


In the 21th century knowledge is highly mobile: The end of knowledge monopolies!



Background:

Creativity is a scare resource

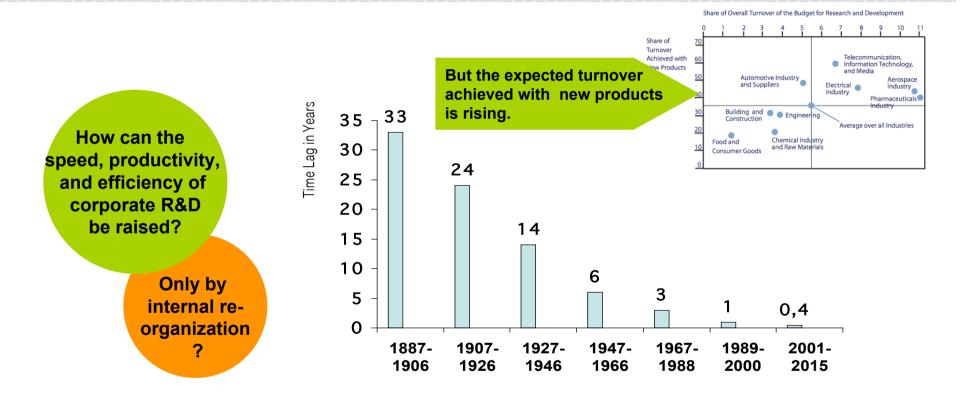


Companies will increasingly use global creativity resources!



Background:

Competetive Edge from Innovations Vanishes

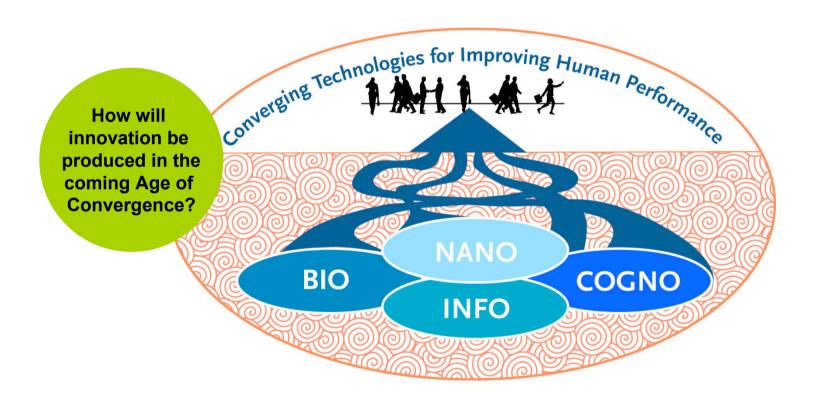


Companies are forced to produce a constant stream of innovations!



Background:

Technological Convergence (NBIC)



Technological Convergence, esp. NBIC will shape new knowledge landscapes.



Background:

Mature Consumers - New Demands on Technology

How can technology be successfully brought to the Mature Markets of the future?

Technology-Push?



Simple Technology-Push strategies don't fit a postmaterialistic world.

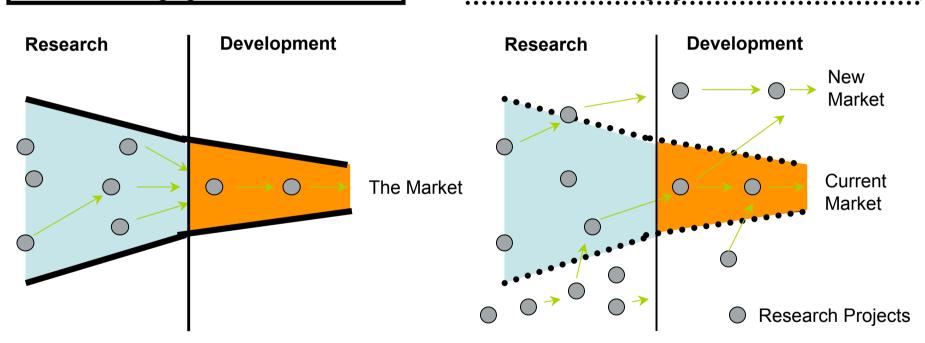


Background:

From Closed Innovation to Open Innovation

The Closed Innovation Paradigm for Managing Industrial R&D

The Open Innovation Paradigm for Managing Industrial R&D



Centralized R&D is replaced by open innovation structures.



Paradigm Shift:

From Closed Innovation to Open Innovation

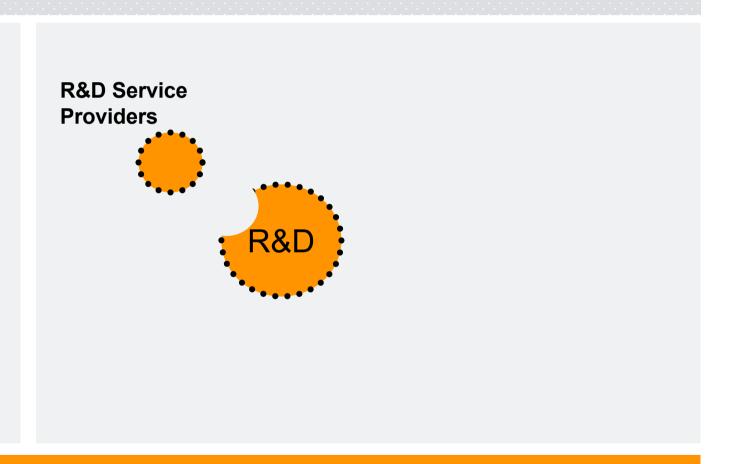
Closed Innovation Principles	Open Innovation Principles
The smartest people in our field work for us.	Not all the smartest people work for us. We need to work with smart people both inside and outside our company.
To profit from R&D, we must discover it, develop it, and ship it ourselves.	External R&D can create significant value, internal R&D is needed to claim some portion of that value
If we discover it ourselves, we will get it to the market first.	We don't have to originate the research to profit from it.
The company that gets an innovation to market first will win.	Building a better business model is better than getting to market first.
If we create the most and the best ideas in the industry, we will win.	If we make the best of internal and external ideas, we will win.
We should control our IP, so that our competitors don't profit from our ideas.	We should profit from others' use of our IP, and we should buy others' IP whenever it advances our own business model.

Open Innovation Systems need Open Innovation Cultures: Are you prepared?



Outlook:

From Outsourcing R&D ...

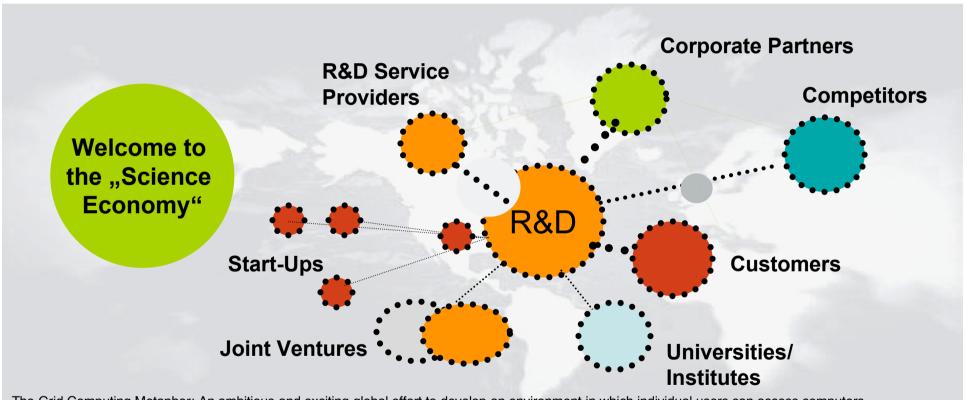


R&D outsourcing and offshoring are powerful and risky – and it's just the beginning!



Outlook:

... to a Global Innovation Grid ...



The Grid Computing Metaphor: An ambitious and exciting global effort to develop an environment in which individual users can access computers, databases and experimental facilities simply and transparently, without having to consider where those facilities are located.

Vision of the Innovation Grid: Simple, transparent, instant and worldwide access to globally distributed R&D resources and services.



Outlook:

What Will Your Core Competence Be, If Not Invention?

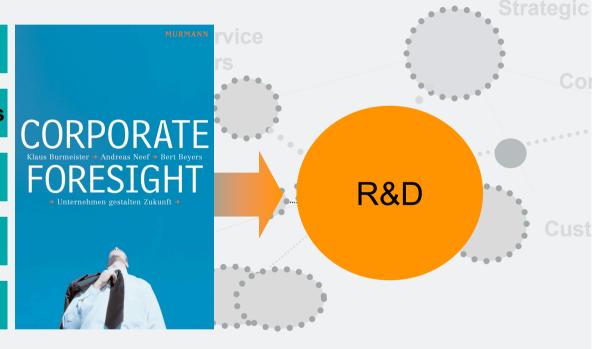
Strategic Visions/Goals

Changing Environments/Demands

Scenarios/ Future Applications

New Market Opportunities

Proactive Management of IP



Universitie

Corporate Foresight will become a core competence of innovation leaders!



Lessons from the Corporate Foresight Approach:

The 5 Innovation Parameters of the Future

Anticipation



Anticipate the changes in your environment and your customer's needs at an early stage!

Context



Envision future contexts, don't just invent technologies!

Quality



Develop and control standards for the quality of your innovation output!

Interfaces



Manage the complexity of interfaces within the innovation grid!

Timing



Synchronize processes and optimize your time-to-market!

The Future Framework for Managing Innovations.



Summary

- Creativity will become the scarce resource of the global economy
- We will see a paradigm shift to open innovation structures
- Outsourcing R&D is interesting but it's only the beginning
- In 2020 R&D will operate within a "global innovation grid"
- Corporate Foresight will become a Core Competence
- Be aware of the **5 strategic parameters of innovation**

Not an endgame... a new game has just begun!



Discussion

- 1. What is you personal R&D outsourcing experience? Do you believe in the "Global Innovation Grid"? How do we get there?
- 2. What will open innovation mean for your industry? Which challenges will you have to face? How to cultivate open innovation in your company?
- 3. Corporate Foresight and R&D: The future twins for success in the technology markets of the next decades?

Thank you!

