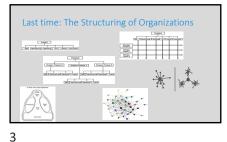
MOT121A
Leadership and Technology
Management

2023-2024
Dr. Robert M. Verburg
Module Manager

MOT121A Course Schedule

1 Water Schedule

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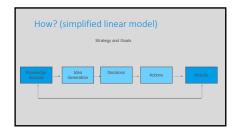
Today

The nature of the R&D process
Projects (ch.5 and ch.6)
Open Innovation

The R&D Process

It is driven by corporate strategies and goals that cascade down to the R&D organization, whereupon premises are formulated for valuable new products, platforms or extensions.

How in practice?



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Tacit (know-how)

Tacit (know-how)

Experts

Corporate knowledge

Core competencies

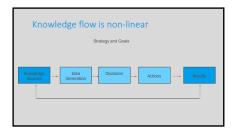
Customer perspective

External information

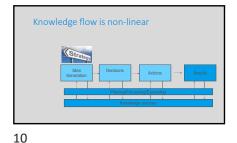
Data bases

Hard Archives

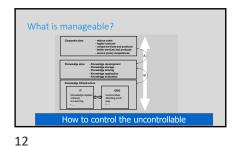
Explicit (know-what)



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The Ecology of Innovation Projects

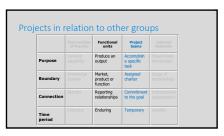
The project may be part of a co-located program (multiple projects run at one location)

It may be distributed (one project run from multiple locations with members from various organizations)

Or involving multiple projects at multiple locations at multiple moments in time

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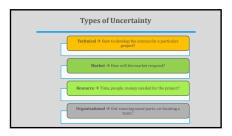


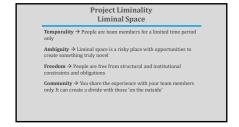




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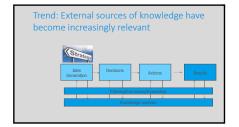
Agile method

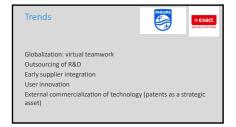
While traditional project planning (sometimes described as waterfall method) may be difficult in complex and even complicated projects.

New methods have been developed to try and take account of the uncertainty – agile methods.

Many different variants (e.g., Scrum, Kanban) of agile but all share same idea.

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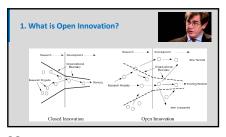


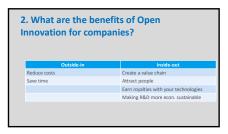
Examples of the use of external sources of knowledge?

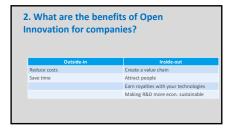
Agreements with competitors
Collaboration with customers
Collaboration with start-up companies
Collaboration with universities, knowledge institutes

Connectivity and depending in the knowledge of others

25 26 27







28 29 30



Factors that undermine the logic of (traditional) Closed Innovation

◆ Dispersion of scientific and technological knowledge die to the mobility of highly skilled workers

◆ The growing presence of venture capital

◆ The increasing role of user groups in the innovation process

◆ The shortening of technology lifecycles

4. What are the leadership challenges associated with Open Innovation?

- Major culture change (another mind-set)

- 'Not all smart people work for us!'

- Collaboration is vital yet risky

31 32 33

5. What are the implication of Open Innovation for Talent Management?

- New rewards systems

- Celebration of achievements

- (again) Collaboration is vital yet risky

Outside-In ?

Outside-In Inside-out
More common because less disruptive for the rest of the organization organizations
Also a fear that technologies will become successful outside of your own company.
Reciprocity is needed (taking seems easier than giving)

7. Differences between Open Innovation and Open Source software development?

There are commonalities but the notion of business models seems radically different.

Open source initiatives avoid business models whereas as Open Innovation is very much focused on creating business opportunities.

34 35 36

8. Why is the innovation of new Business Models (especially for services) important?

- A business model may be more successful than technology itself.
- A growth area (e.g. financial services)

9. The future of Open Innovation?

- * The notion of Open Innovation has been around for more than 15 years now?
- Ideas are abundant and maybe some public policies in relation to the protection of ideas should change in order to stimulate collaboration (or enable Open Innovation).



38 37 39

For next time: mandatory articles

- Criscuolo, P., Salter, A., & Wal, A. L. J. T. (2014). Going Underground:
 Bootlegging and Individual Innovative Performance. Organization Science, 25(5),
 1287-1305.

 2. Mohammadi, A., Broström, A. and Franzoni, C. (2017), Workforce Composition
 and Innovation: How Diversity in Employees' Ethnic and Educational Backgrounds
 Facilitates Firm-tevel Innovativeness. Journal of Product Innovation
 Management, 34, 406-426.

 3. Khangah, S., Volberda, H. W., Alexiou, A., & Annosi, M. C. (2022).

 Mitigating the dark side of agile teams: Peer pressure, leaders' control, and the
 innovative output of agile teams. Journal of Product Innovation Management,
 39(3), 334-350.

Thank you!

The MOT 1524 Course Team

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