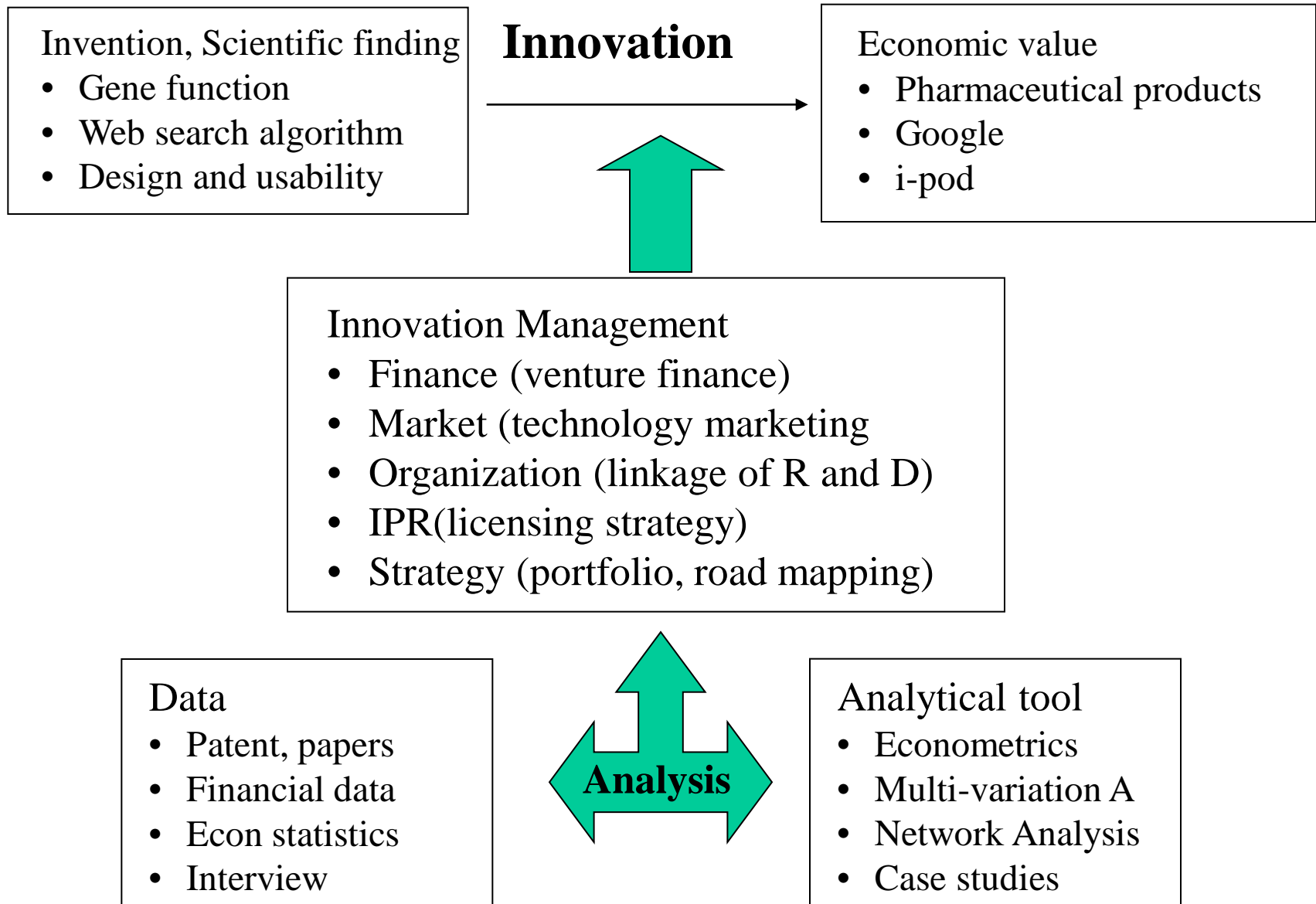


What is Innovation Management?



Broad Research Questions

- Slowdown of Japanese economic growth rate. Is there any problem with innovation capacities and R&D strategy in Japanese firms? Compared with US, Europe, China..?
- Japanese firms are not active in networking of R&D activities, including linkages with universities? How about IP strategy to facilitate open innovation?
- How to make most of IT investment at firms?
Understanding effective IT management and strategy.
Japanese firms are lagging behind US ones in this regards?
- To what extent, are Korean and Chinese firms catching up with Japanese ones? Particularly in electronics industry?
- Why are entrepreneur activities low in Japan? What's a key difference from US?
- What should Japanese company do for technology management for emerging economies such as China?

Criteria of research themes at Motohashi Lab.

- Reality and relevance for business/policy people
 - It is a relevant question which is really asked by business and/or policy people?
 - Are hypothesis and results feasible? (Reality check from business and/or policy people)
- Reliability of datasets and logical reasoning
 - Choose appropriate research method depending on dataset
 - Hypothesis testing is conducted logically? Enough iterations are conducted between hypothesis buildings and empirical findings?
 - Robustness check with final results is enough?
- Originality of research
 - Original idea of researcher is incorporated?

Research Subjects (1)

- Research on Open Innovation
 - Empirical analysis of open innovation
 - Innovation database incl. patent database (IIP-PD)
 - Open innovation research by innovation survey
 - Firm's IP management studies
 - Quantifying patent value and license market research
 - IP strategy and standardization (how open is open innovation?)
- Empirical Analysis of IT Innovation
 - Dynamics of IT industry and innovation performance
 - Competitiveness of Japanese IT firms, demise of integrated electronics companies?
 - New business models in IT industry (digital convergence, social networks, etc)
 - IT use and firm performance
 - International comparison of IT investment strategy: J, US, Korea and China
 - Sector specific analysis of IT innovation (financial services, etc.)
 - Economic analysis of “cloud computing”

Research Subjects (2)

- Sector specific study on technology management
 - Biotechnology and pharmaceutical innovation
 - Japan-US comparison of biotech firms' activity
 - Evaluation of pharmaceutical R&D pipelines
 - Innovation model of PV and clean-tech ventures
- Productivity and Industrial Competitiveness of Japan
 - Macro level analysis of IT and productivity in Japan, US, Korea and China
 - Industrial Productivity Database: Japan, US, Korea, China and Taiwan
 - ICPA(International Comparison Among Asian Countries) Project at RIETI
 - Results forthcoming in *Productivity in Asia*, by Edward Elgar
 - Sources of IT innovation and macro economic impacts (semiconductor, internet etc.)

Research Subjects (3)

- Technology management for emerging economies
 - Innovation system in China
 - Evaluation of China's technology competitiveness (patent and research paper data)
 - R&D strategy of multinationals in China
 - Role of academic invention, science park (with Tsinghua University)
 - Infrastructure business globalization strategy
 - Railway industry in India (with JR East)
 - Solar IPP business in Thailand
 - Water business in China
- Science on Science: Basic Research for Innovation Analysis
 - Automated classification of patent by natural language understanding
 - Social network analysis of researchers and firms
 - Agent based simulation model development

Education Activities

- Phd course
 - Department of Technology Management for Innovation
 - Graduate School of Engineering, University of Tokyo
 - Assisting individual research project works (for doctor thesis)
- Master course
 - Department of Technology Management for Innovation, Graduate School of Engineering, University of Tokyo
 - Course works (in Japanese) and master thesis
 - International Technology Management Program (ITMP), an English course is also open for non-Japanese speaking students (with Japanese government scholarship). Please refer to our department English web-site, as follows
<http://tmi.t.u-tokyo.ac.jp/english/index.html>

Our Laboratory

Staffs

- Research associate, students (about 20 graduates and 2 undergraduates), post doctors, visiting scholars etc.
- Mix of various background people (foreign students, mid career phd students etc.)
- Visit our website for details

<http://www.mo.t.u-tokyo.ac.jp/>



(at our lab tour in Thailand, September, 2010)