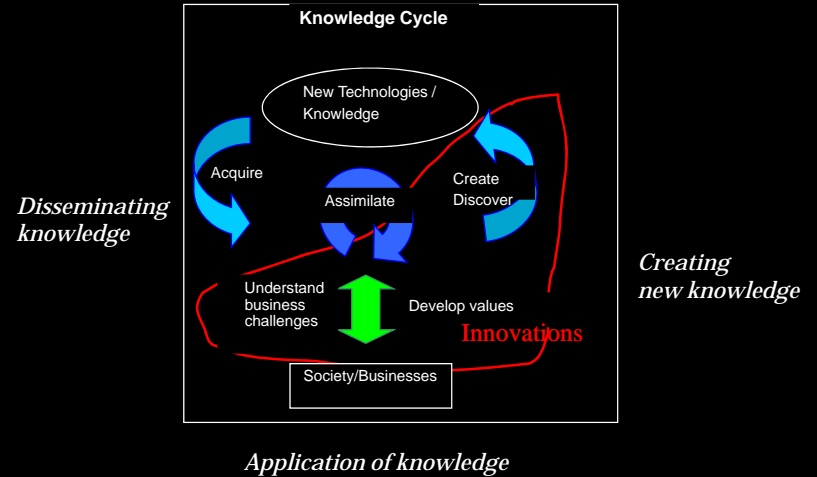


Innovation Eco-system and Value Creation

Broadening the perspective: tying the local to the global in the knowledge-based economy

Dr Diem Ho
 Member of the IBM Academy of Technology
 OECD Conference Globally Competitive, Locally Engaged – Higher Education and Regions,
 19- 21 Sep 2007, UP Valencia, Spain.
 diem_ho@fr.ibm.com

Innovation and the Roles of Higher Education

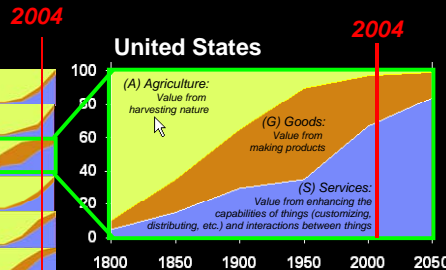


Moving toward a services economy

Top ten nations by labor force size
 (about 50% of world labor in just 10 nations)

A = Agriculture, G = Goods, S = Services

Nation	% WW Labor	%A	%G	%S	25 yr % delta S
China	21.0	50	15	35	191
India	17.0	60	17	23	28
U.S.	4.8	3	27	70	21
Indonesia	3.9	45	16	39	35
Brazil	3.0	23	24	53	20
Russia	2.5	12	23	65	38
Japan	2.4	5	25	70	40
Nigeria	2.2	70	10	20	30
Banglad.	2.2	63	11	26	30
Germany	1.4	3	33	64	44



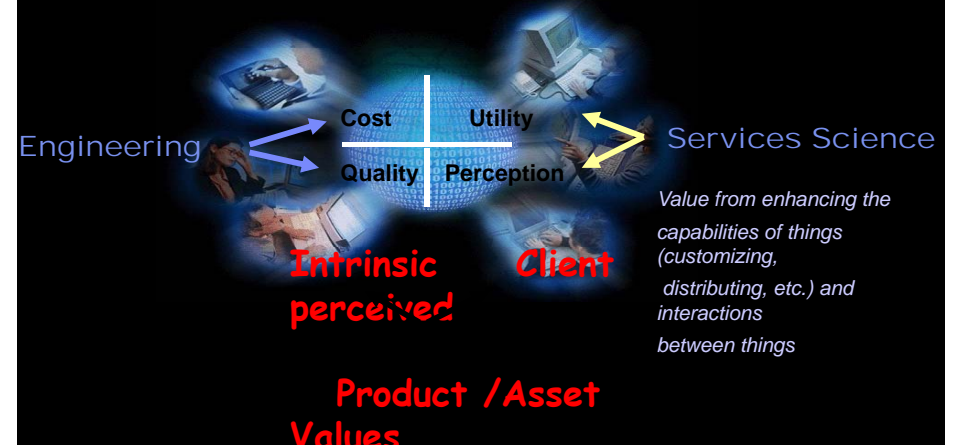
The largest labor force migration in human history is underway, driven by urbanization, global communications, low-cost labor, business growth and technology innovation

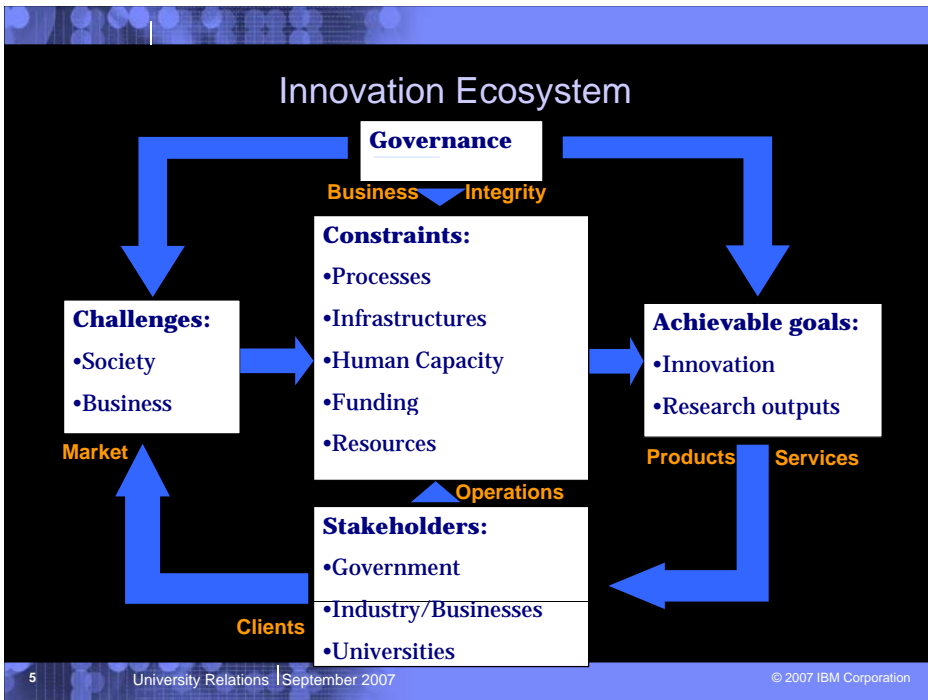
>50% (S) services, >33% (S) services

Services Science and Engineering: Value Creation

HOW VALUES ARE CREATED

Services focus on creating Utility Value or Perceived Value for a product/asset. They are in contrast with Engineering which focuses on Cost and Quality





Competitiveness cluster - Q@LI-MEDiterrannée example

Grand Saint-Charles
Un espace logistique, industriel et commercial de pointe et de poids

Four development axis :

- Varietal improvement of Mediterranean cultivated plants
- Sanitary security - Traceability of fresh and transformed products
- Food, Nutrition & Health - Regulation compliance, design of innovative products and new, nutritionally-optimized "health foods"
- Agri-Food marketing

Challenge: How to generate Innovation by a pro-active collaboration?

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Example: *Fresh on demand*, action against fresh food wastage

Total wastage: € 3 billion

Total wastage: €27+ billion

Production & Wholesale: flora holland, syngenta, the Greenery, ALPURO GROUP, Unilever, intergreen.

Logistics: DeliXL, Christian Salvesen.

Retailers: Schuitema, DEKA.

Out of home: Sodexo ho.

Others: WAGENINGEN UR, IBM, kpn, Ministerie van Economische Zaken, stw, landbouw, natuur en voedselkwaliteit, Erasmus Universiteit Rotterdam, Universiteit Twente, UNIVERSITEIT VAN TILBURG, MeteoConsult.

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Innovation in Higher Education

Faculty perspectives:

- Standing out among the out-standings
 - Patents
 - Publications
- Pushing the frontier of innovation and relevancy
 - Government/industry Partnership
 - practicality
 - alignment with government/industry strategic objectives
- Committing to change
 - Continual learning

Student Perspectives:

- Hitting the ground running
 - Employability
 - Knowledge
 - Experiences
 - Insight
 - Project based approach
- Preparing for innovation
 - Versatility: wider spectrum
 - Major
 - Minor
- Expecting the unexpected
 - Adaptability
 - Methodology
 - Framework

Knowledge Cycle: Acquire, Assimilate, Create/Discover, Develop values, Innovations, Understand business challenges.

Society/Businesses

Multi-disciplined and Collaborative Global Ambition starts at Home

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Thank You

About the speaker: Dr Diem Ho is Manager of University Relations for IBM Europe, Middle East and Africa (EMEA).

His mission is to build and manage relationships of mutual value for IBM and the academic community.

Diem's past research interests covered many disciplines in Science, Technology and Finance/Economics.

He has published widely in physics, mathematics, image processing, remote sensing, engineering, optimization and finance. He co-edited with Prof. Tom Schneeweis of the University of Massachusetts a book on Applications in Finance, Investments, and Banking published by Kluwer. This year he co-edited/authored a special issue of the *Computational Economics* on Stochastic Process and Data Analysis published by Springer..

He is an associate editor of the journal of *Computational Economics* (Springer) and is a member of the IBM Academy of Technology.

Before assuming his current position, he was the EMEA practice leader of the IBM Management Technologies Consulting Group, specialized in using Technologies to address Business Challenges in Banking and Finance sector.

Before joining IBM, Diem was an university professor and he continues to supervise PhD thesis to-date.

Diem obtained two Master degrees and a PhD in Magnetospheric Physics at Stanford University, California.

Back up

Innovation Value Creation

