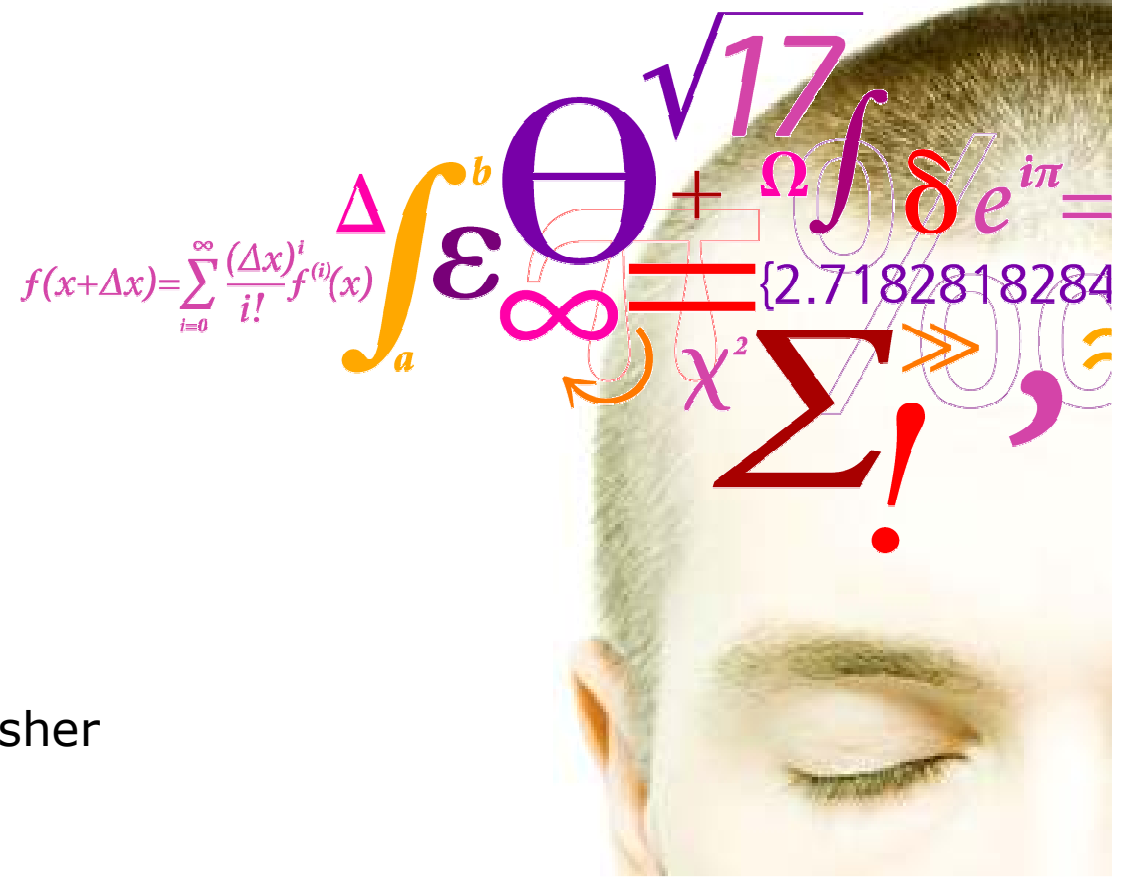# How to Boost Innovation by Direct Use of University based Research – case studies from the Technical University of Denmark
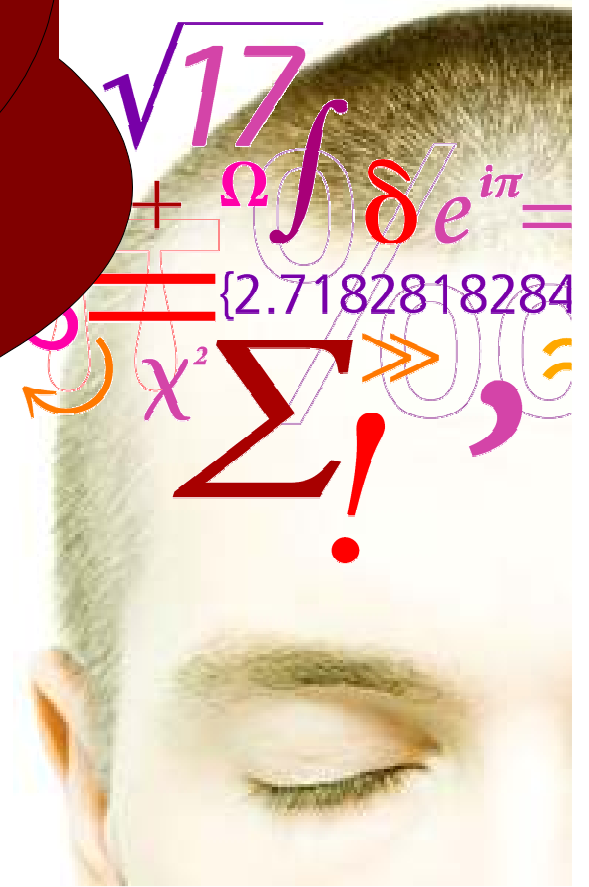
DTU

$$f(x+\Delta x)=\sum_{i=0}^{\infty}\frac{(\Delta x)^i}{i!}f^{(i)}(x)$$

Δ $\int_a^b$ ε θ $\sqrt{17}$ Ω $\int$ δ $e^{i\pi}$ ∞ $\{2.7182818284$ χ^2 $\sum$ $!$

Jens Rønnow Lønholdt, Knowledge Pusher

Technical University of Denmark

Education

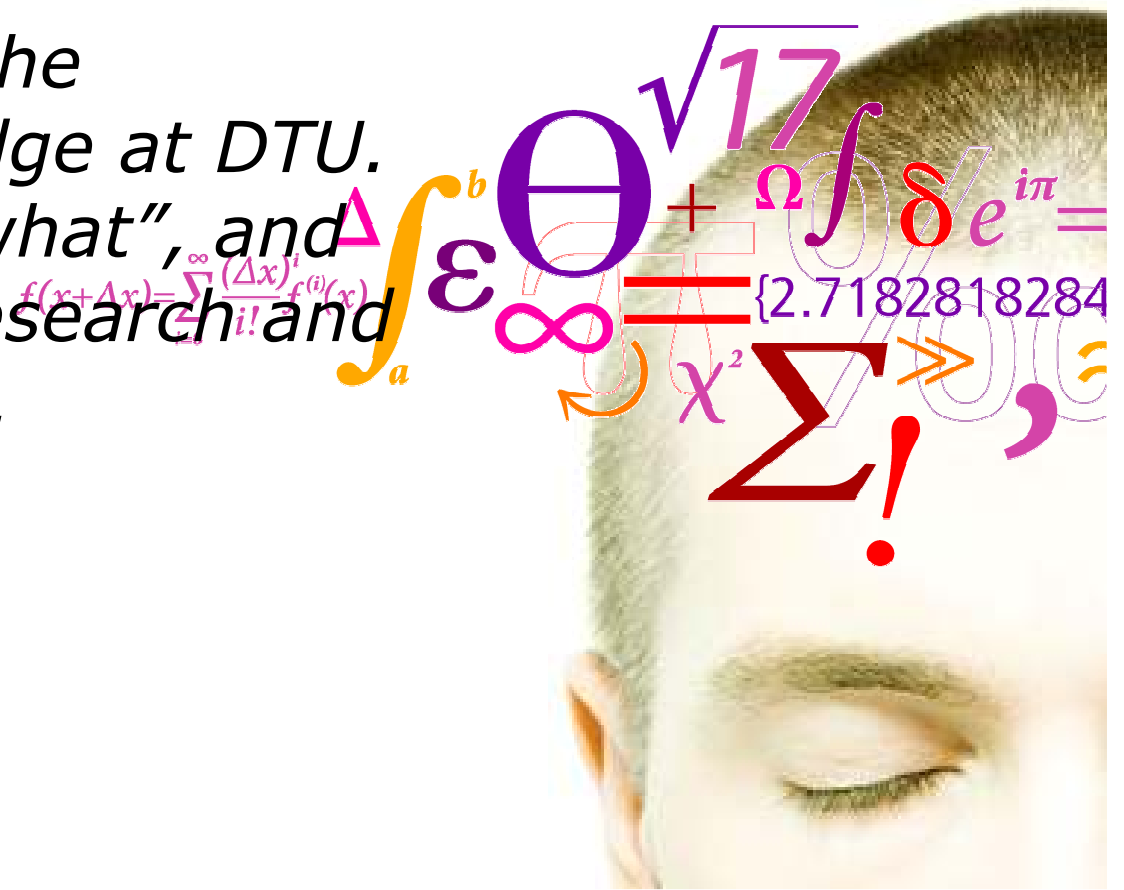Innovation

Public Sector Consultancy

DTU Match
The Knowledge Transfer Function at DTU

- Four years development project
  (2008 – 2011)

- Mission: *DTU Match is the gateway to the knowledge at DTU. We know "who knows what", and bridges technological research and commercial enterprises.*

One-Stop-Science-Shop is a 3 year project, funded by the Danish Research and Innovation Council.

The project partners include

- DTU, Technical University of Denmark
- KU, University of Copenhagen
- IPU, an independent innovation company related to DTU

The purpose of the project is to develop and test methods and tools to support innovation, primarily in small and medium companies, with special emphasis on utilization of **research based knowledge**, in collaboration between universities and companies

The methods and tools have been developed and tested in collaboration with more than 15 **Technology Jumpers**, who have been carried through individually designed workshop programs and innovation processes.

Innovation is an individual and iterative process involving many skills and uncertainties. However, from the Technology Jumper activities is concluded, that a **general innovation process** can be established

15 SMEs through the process

- **One group:** Well established companies with substantial engineering capacity

- **One group:** Young market and product professionals

- **One group:** Young people with bright ideas

"The square root of the square root"

- Technology transfer is a professional function not an administrative function

- Start up meeting very important

- Business development capacity is decisive

- Need for professional education of Innovation Process Consultants

Match Function at DTU

- At DTU: one number, one e-mail address, one home page
- Local branches at two municipalities
- Direct contact to researchers
- Innovation processes based on Technological Jumpers
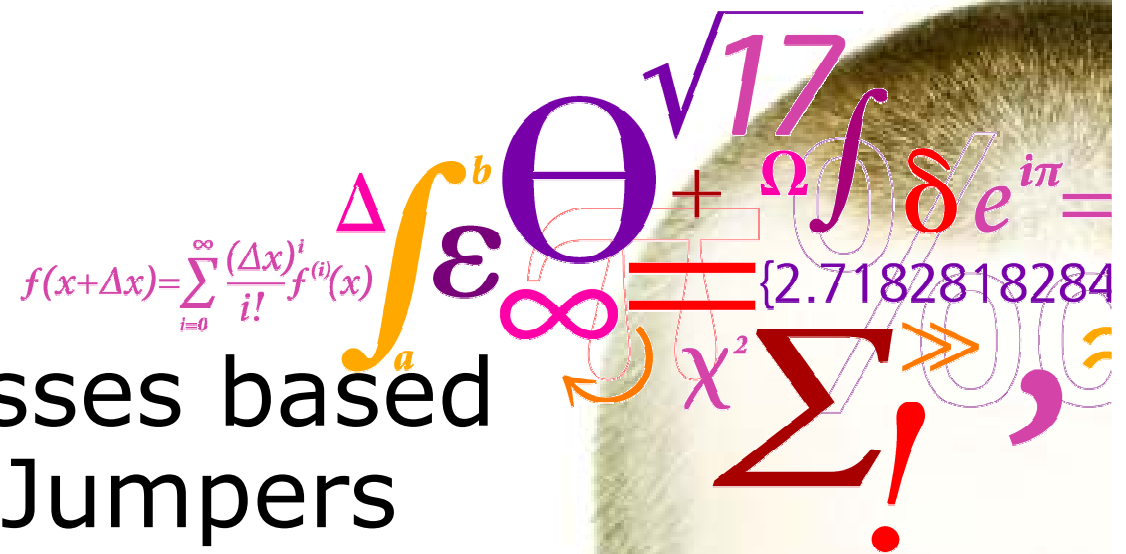
Focus: now, then and in the future

- Pro-active and not only reactive

- University co-operation: A *One-Stop-Science-Shop* for Denmark, with an international branch

- Branching out from the pure technical aspects

$$f(x+\Delta x)=\sum_{i=0}^{\infty}\frac{(\Delta x)^i}{i!}f^{(i)}(x)$$

- "Next practise", not "best practise"

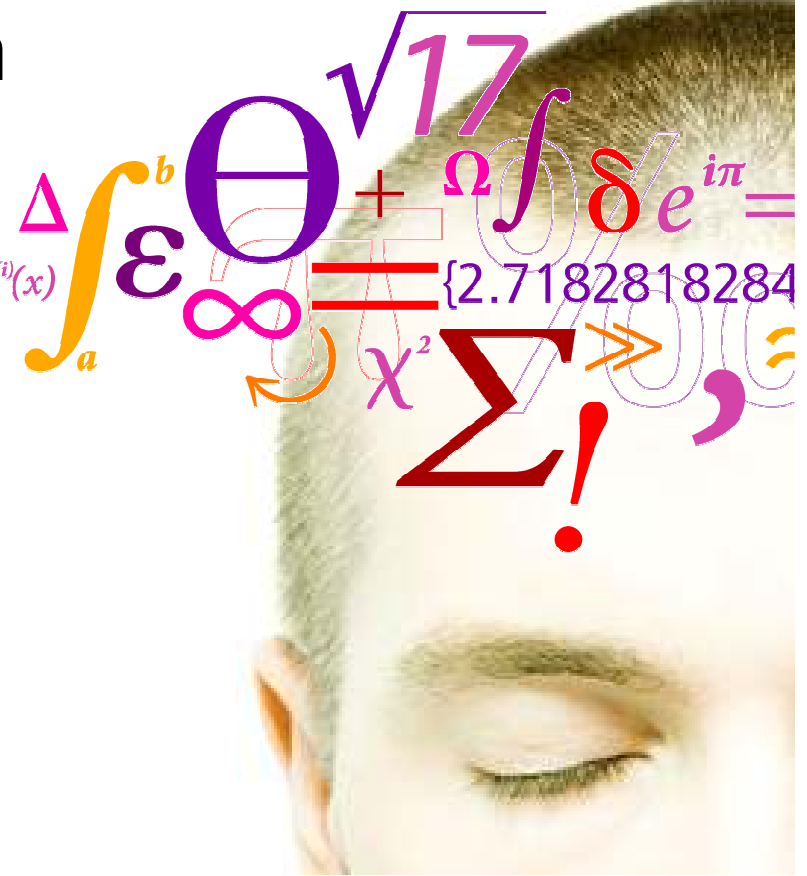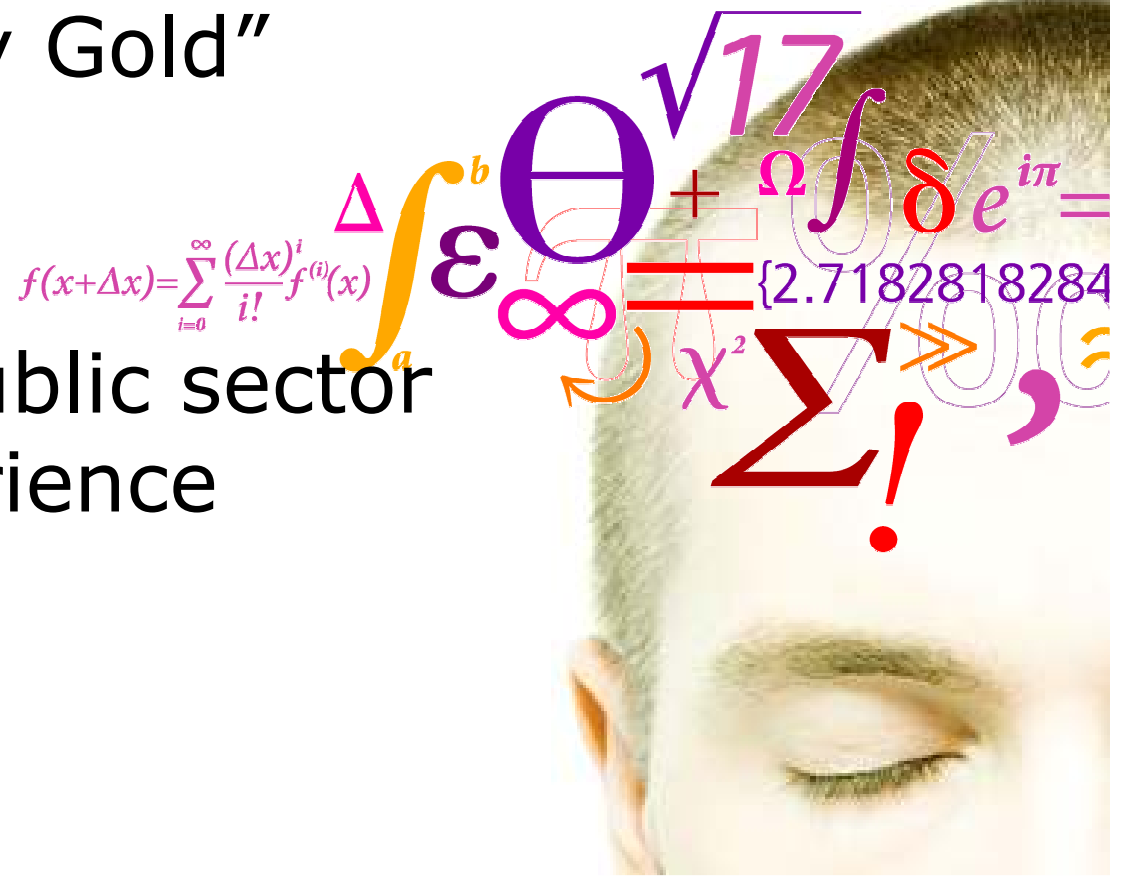- Commercialising the concept in co-operation with amongst others private companies

DTU
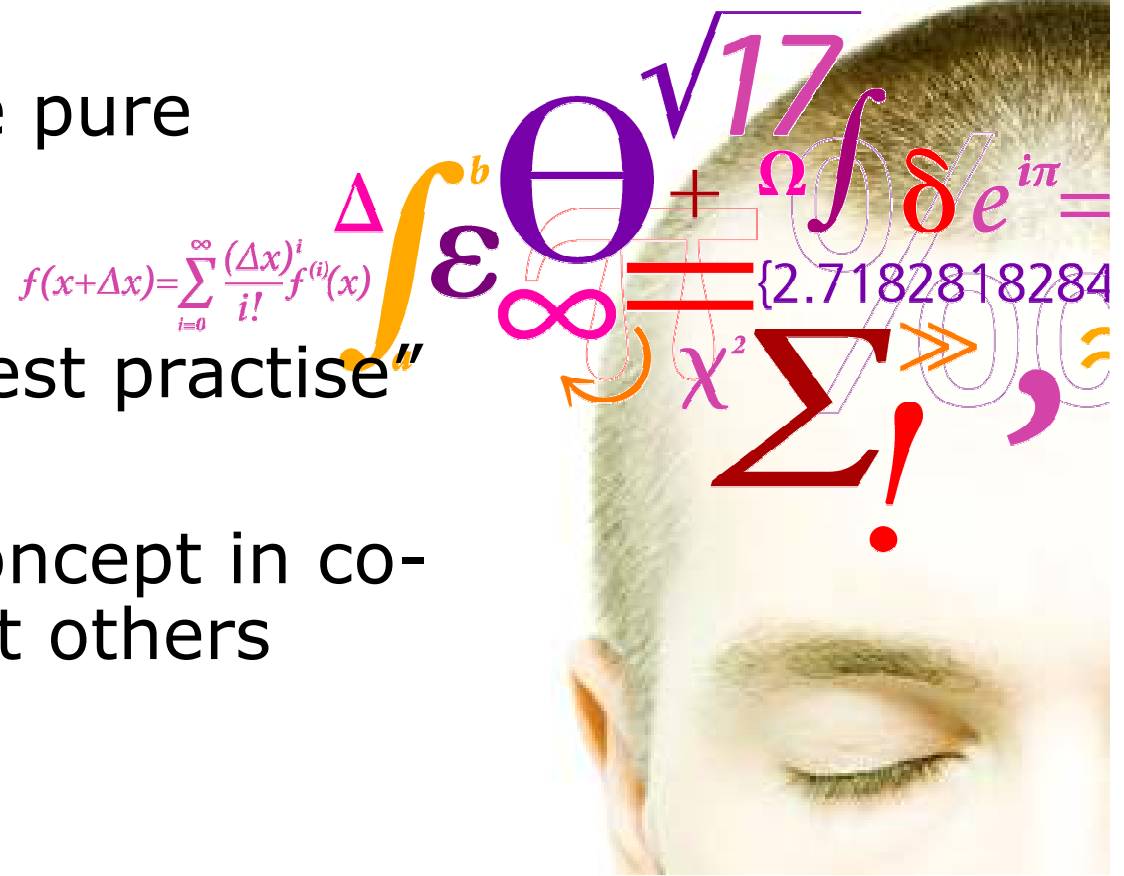
"The most successful companies in the future will not be the one with the best organisation, but the one with the best network, and the best capability to use this network"

Mr. Somebody

Next year DTU is launching a flexible Master in Design and Management of Knowledge Processes and Creativity in Network
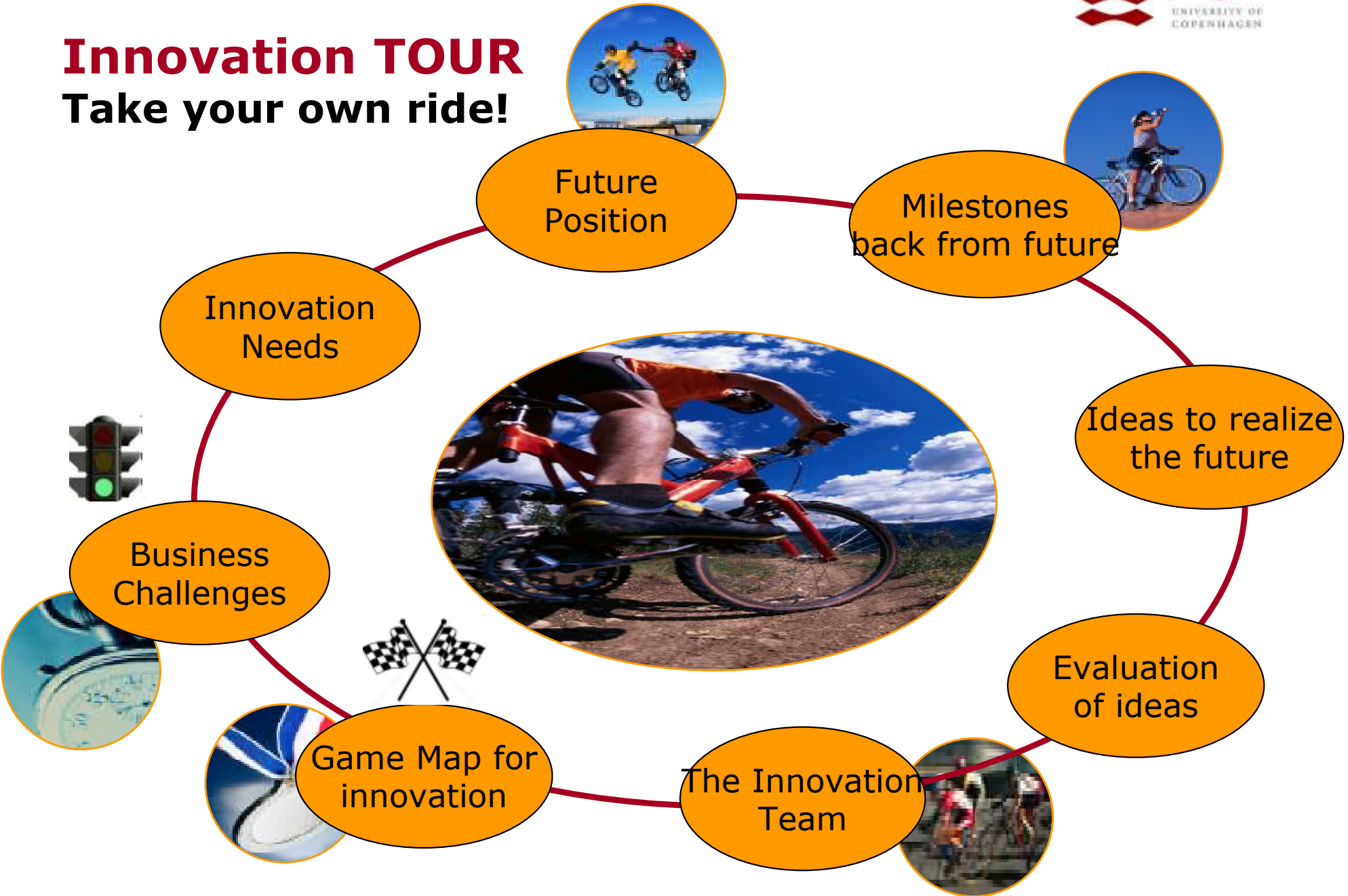
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Other demand driven innovation case studies from DTU

- Climate change and water management

- Activating the "Grey Gold"

- Merging research, consultancy, and public sector expertise and experience

$$f(x+\Delta x)=\sum_{i=0}^{\infty}\frac{(\Delta x)^i}{i!}f^{(i)}(x)$$

One-Stop-Science-Shop

Innovation TOUR
Take your own ride!

Future Position

Milestones back from future

Innovation Needs

Business Challenges

Ideas to realize the future

Game Map for innovation

The Innovation Team

Evaluation of ideas

Thank you very much