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# The Danish Experience

**Estonia, September, 16th**

**Jet-Net.dk**

**Nanna Seidelin**

**CEO**



# A bottom up process

- - House of Natural Sciences
- - Danish education system
- - Danish labour market
- - Jet-Net from NL to DK
- - Key Factors for Success
- - Successes and Setbacks
- - Questions



# My background

- Master in Biology, MBA
- Ecotoxicologist in Danish Ministry of Environment and other public authorities
- Different positions in Industry
- Business Development in the Cleantech sector
- CEO of House of Natural Sciences



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# House of Natural Sciences

## **Vision:**

We aim to advance application-oriented science teaching and school-industry collaboration to achieve:

- Increased interest in STEM amongst Danish students
- More students choose STEM careers



# What do we do?



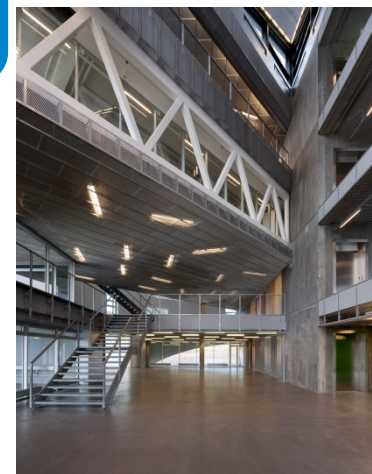
Jet-Net.dk

Facilitating school-  
industry  
collaboration

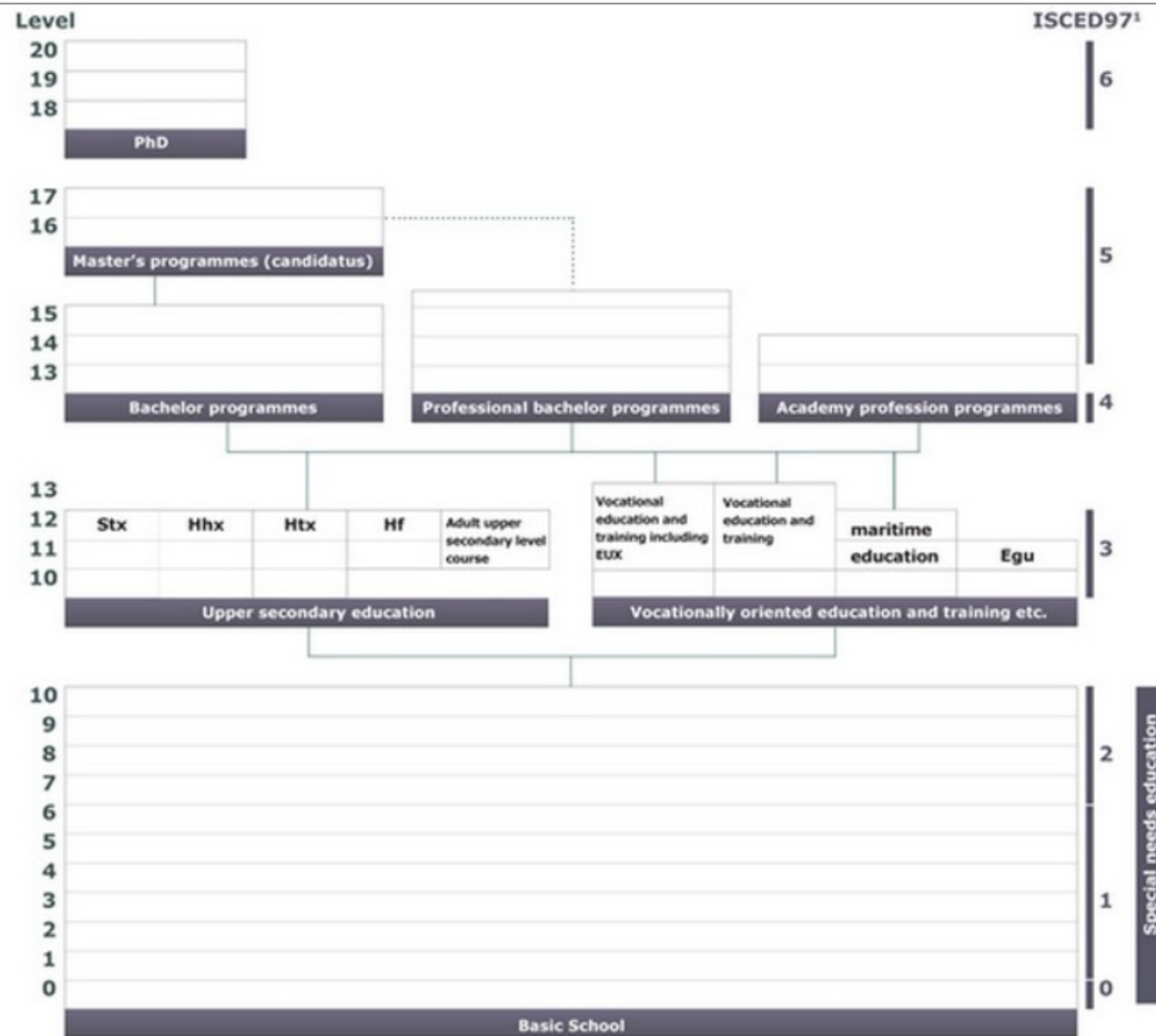
Science  
teaching  
laboratory

Activity  
house

Development  
of practices



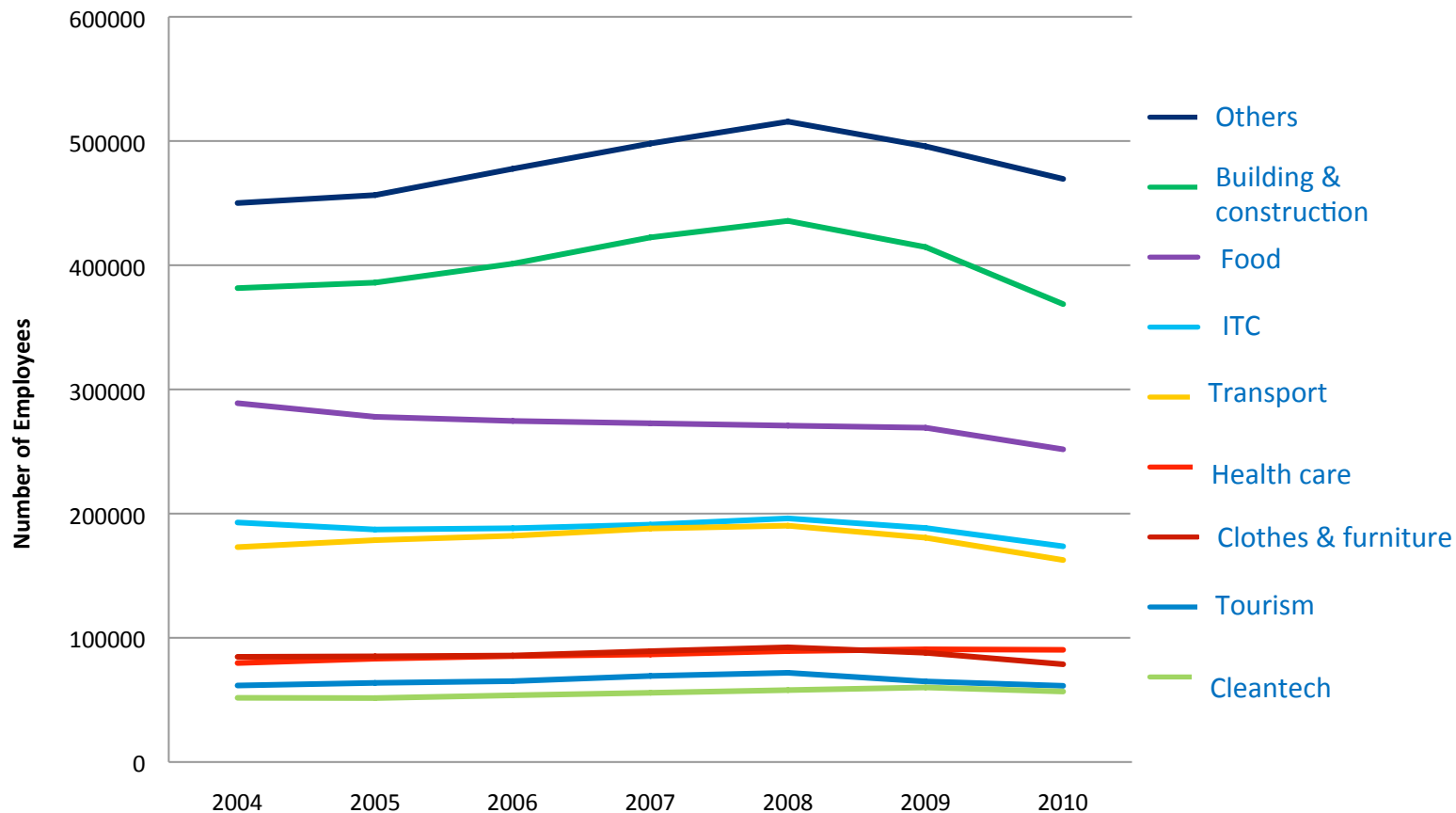
# Danish Education System



# Danish labour market

## Employees in Private Sector

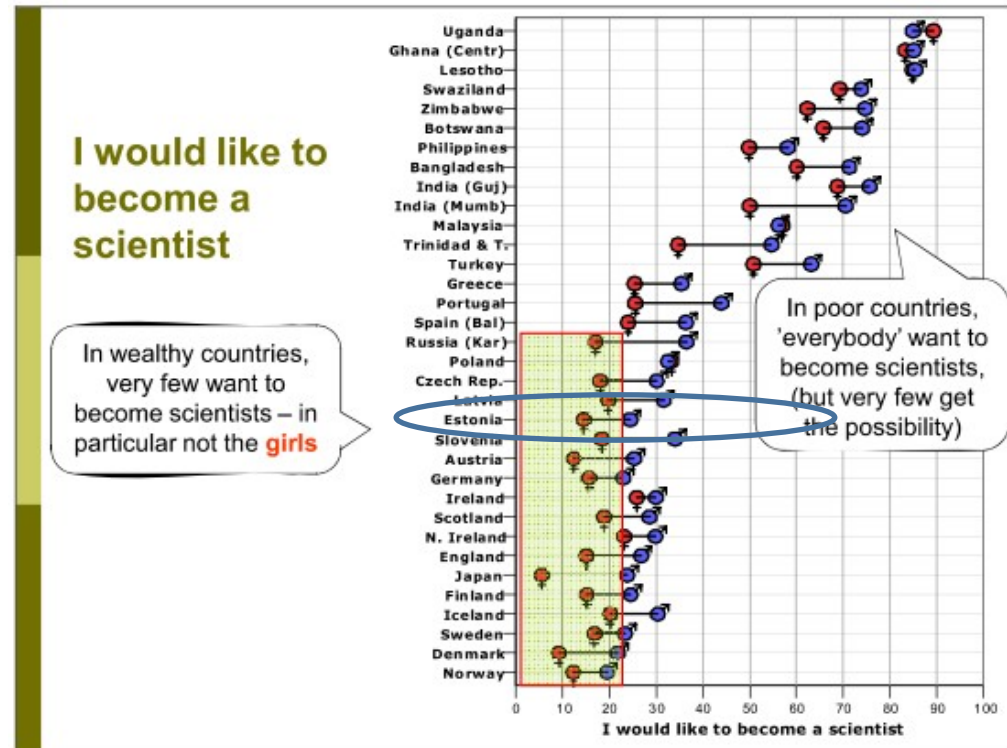
### - Flexicurity model





# Why is it important?

- DI: In 2030 there will be a lack of 11.000 employees with a university degree in science and technology
- IDA: I 2020 there will be a lack of 13.500 engineers and 16.000 with a university degree in science
- Lack of employees with a vocational education should added to the above numbers

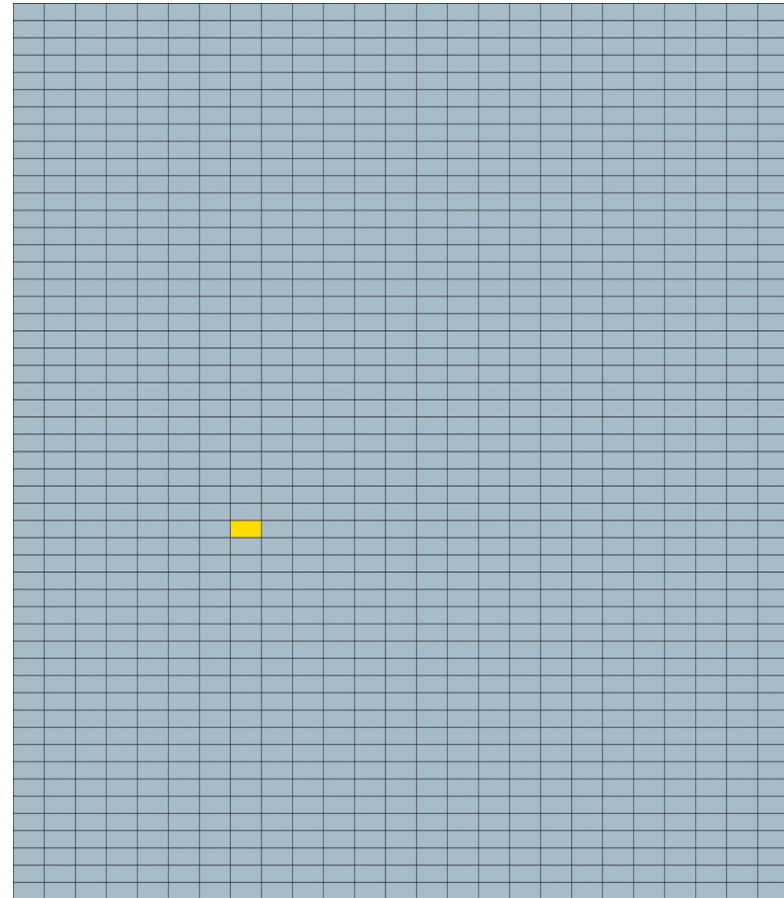


Source: ROSE – Relevance of Science Education, 2010 (data fra 2003)



# Why school industry collaboration?

- Answer the question of students: "Why's this important?"
- Adding context to STEM subjects in schools
- Show future career opportunities
- Meet STEM role models in real life
- Show how science can change the future



# HOW – transfer to Denmark



# Process



INDUSTRIENS  
FOND FREMMER DANSK  
KONKURRENCEEVNE  
The Danish Industry Foundation



Jet-Net.dk



**From idea to establishment:** app. 3-5 years  
**Process:** Visits, contacts, lobbying, funding

# What is Jet-Net.dk?

- National network for school-industry collaboration
- Local 1:1 collaborations between schools and companies
- National events to create synergy, coherence and visibility
- Status:
  - 20 companies
  - 9 upper secondary schools (12-15 years)
  - 9 primary schools (15-18 years)

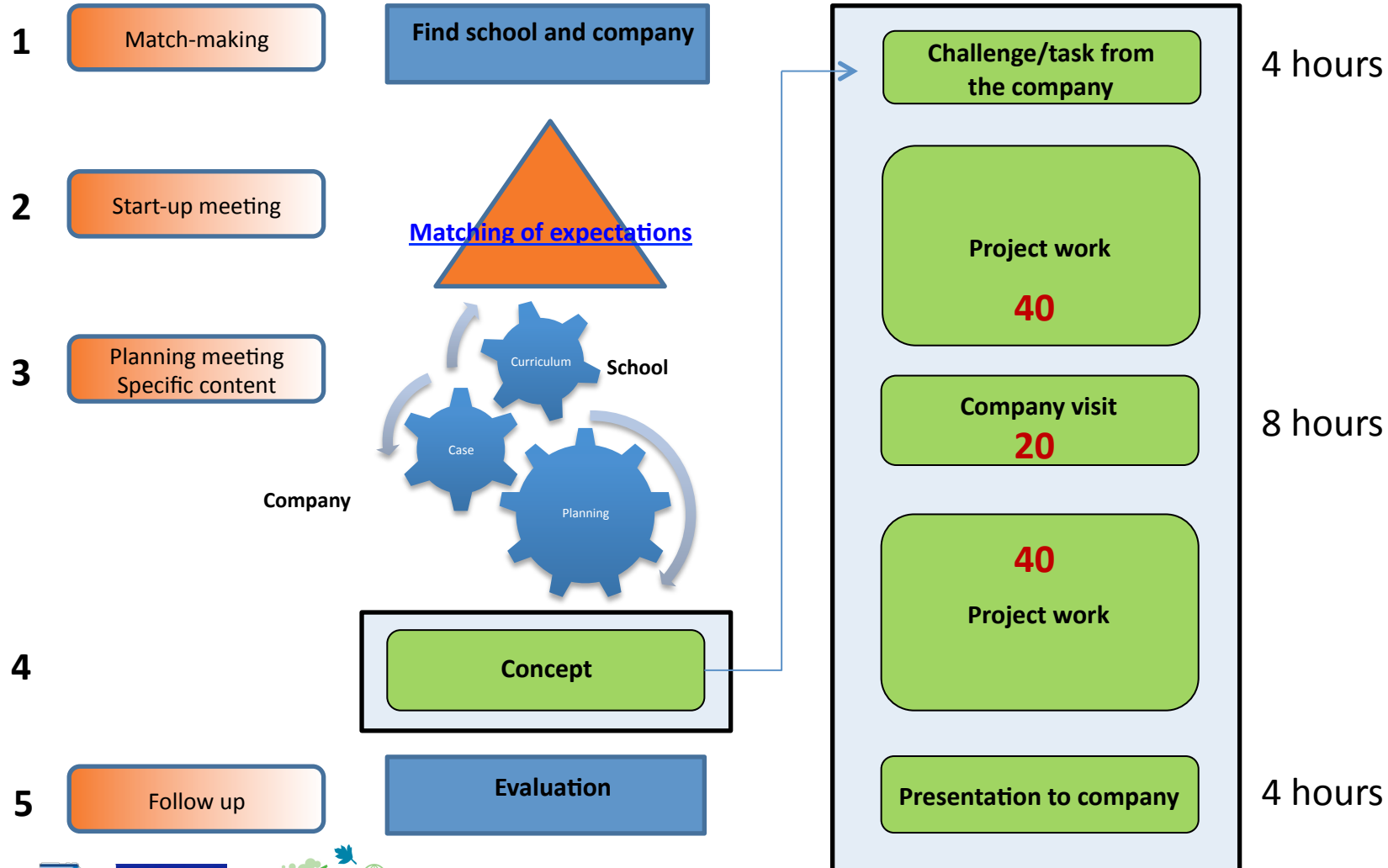


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september 2013



# Jet-Net.dk model for school-industry collaboration



# Jet-Net.dk - Companies



Driving the next generation of Real-Time Passenger Information Systems



# Key Factors for success in DK

- Support from leading industry companies in the country
  - Access to other top CEO's
  - Credibility
- Funding
- Access to NL experiences
- Binding agreement between local schools and companies
- Link to curriculum of schools + learning by doing
- Organization that can:
  - Coordinate, facilitate, match-make
  - Understanding of Industry culture
  - Understanding of school culture



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# Experiences - Jet-Net.dk year 1

## Successes

- Strong industry commitment
- Critical mass
- National media
- Strong interest to support among various organizations

## Setbacks

- No direct involvement from government
- Not based on a political decision
- No national targets



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**Thank you for your attention**

**Questions?**



**inGenious**

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