

# ROSKILDE TECHNICAL VET COLLEGE and UPPER SECONDARY

EUD, EUX, HTX and AMU



***Loads of opportunities!***

# Welcome!



## Program:

- 9.00 Welcome and coffee
  - Presentation of Roskilde Technical College – International Coordinator Pernille Bjerre
- 12.30
  - Tour around the facilities at Pulsen 2 – Lecturer in Mechatronics Michael Larsen
- 13.15 Lunch and final questions
- 14.00
  - End of visit

A photograph of Roskilde Cathedral, a large brick Gothic church with two prominent green copper spires. The cathedral is set against a clear blue sky. In the foreground, there are trees and a decorative metal structure, possibly a fountain. The text is overlaid on the right side of the image.

# Roskilde

**83,000 inhabitants in the municipality**

**– 10<sup>th</sup> largest city in Denmark.**

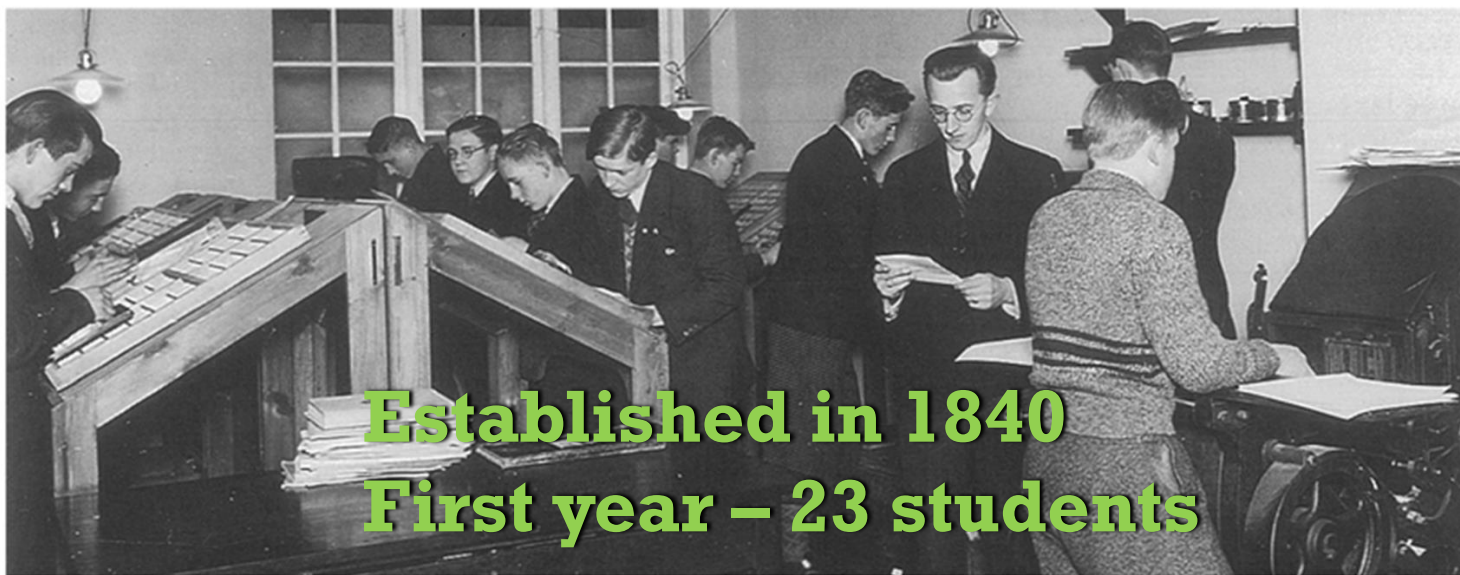
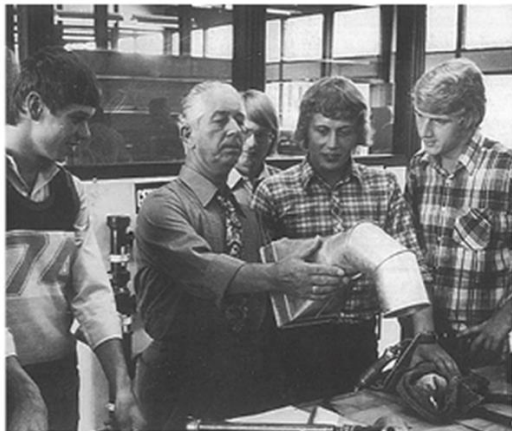
**One of the oldest cities in Denmark**

**– more than 1000 years old**

**Situated close to Copenhagen (35 km)**

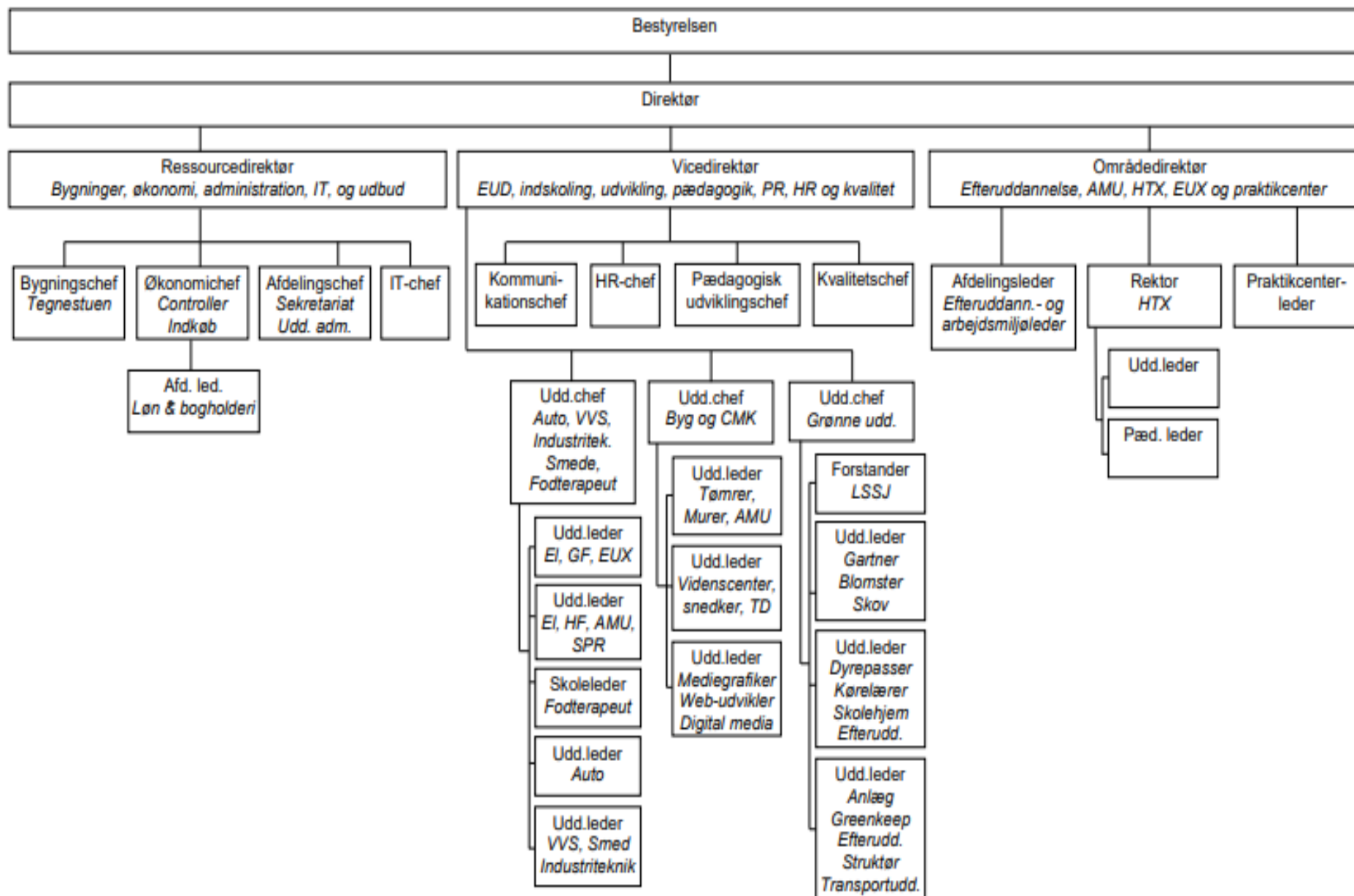
**Big study-city: 5 upper secondary educations, University and Bachelorprogrammes**

# Roskilde Technical VET College



**Established in 1840**  
**First year – 23 students**

# Overordnet organisationsdiagram



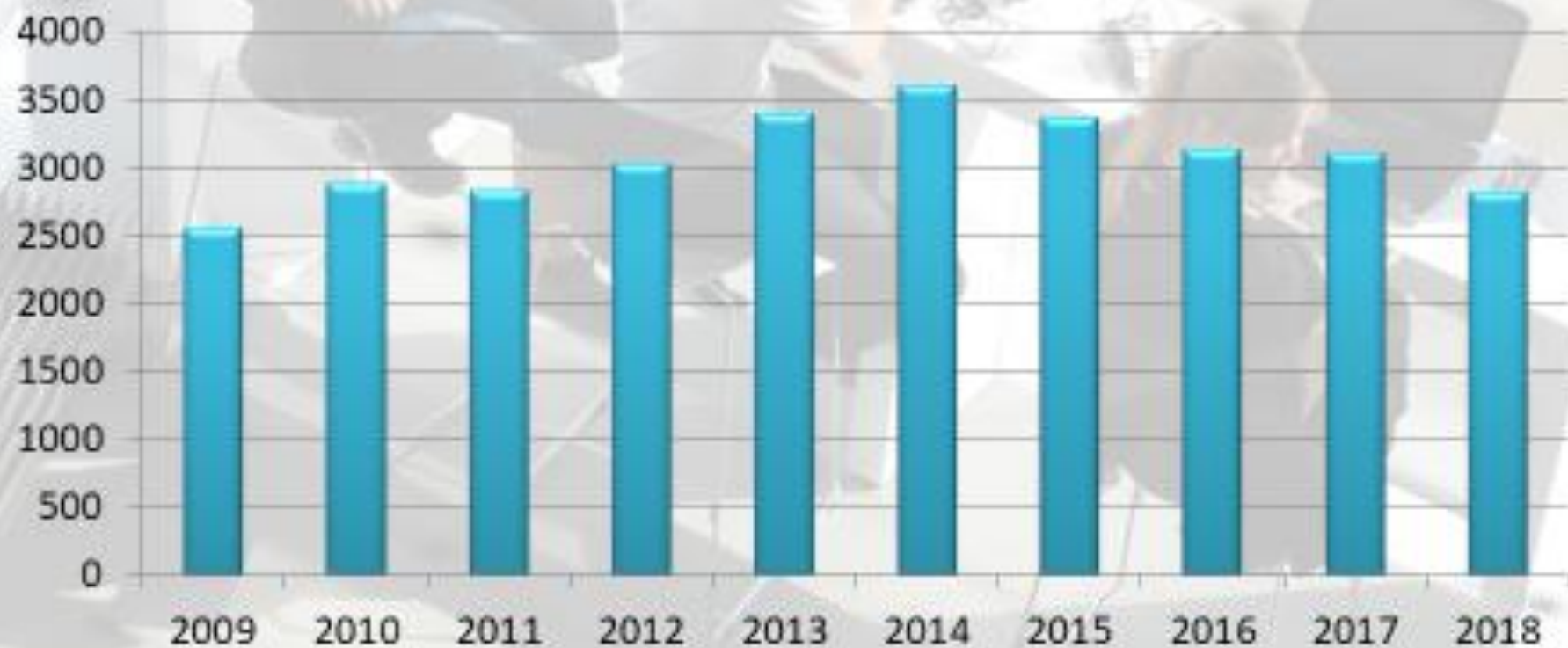
# Roskilde Technical VET College – in numbers

- Annual turnover: 44 million euro
- Employees: 410
  - Approximately  $\frac{1}{2}$  are teachers
  - HTX: 60 teachers, 10 technical staff, 3 Managers
- 99.000 m<sup>3</sup> in total



# ELEVER

Elever pr. år





Hong

Roskilde

Copenhagen

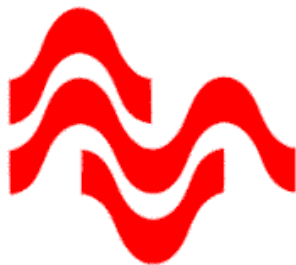
Ringsted

**The School has 4 departments,  
9 addresses in Roskilde and  
3 other addresses on Seeland**

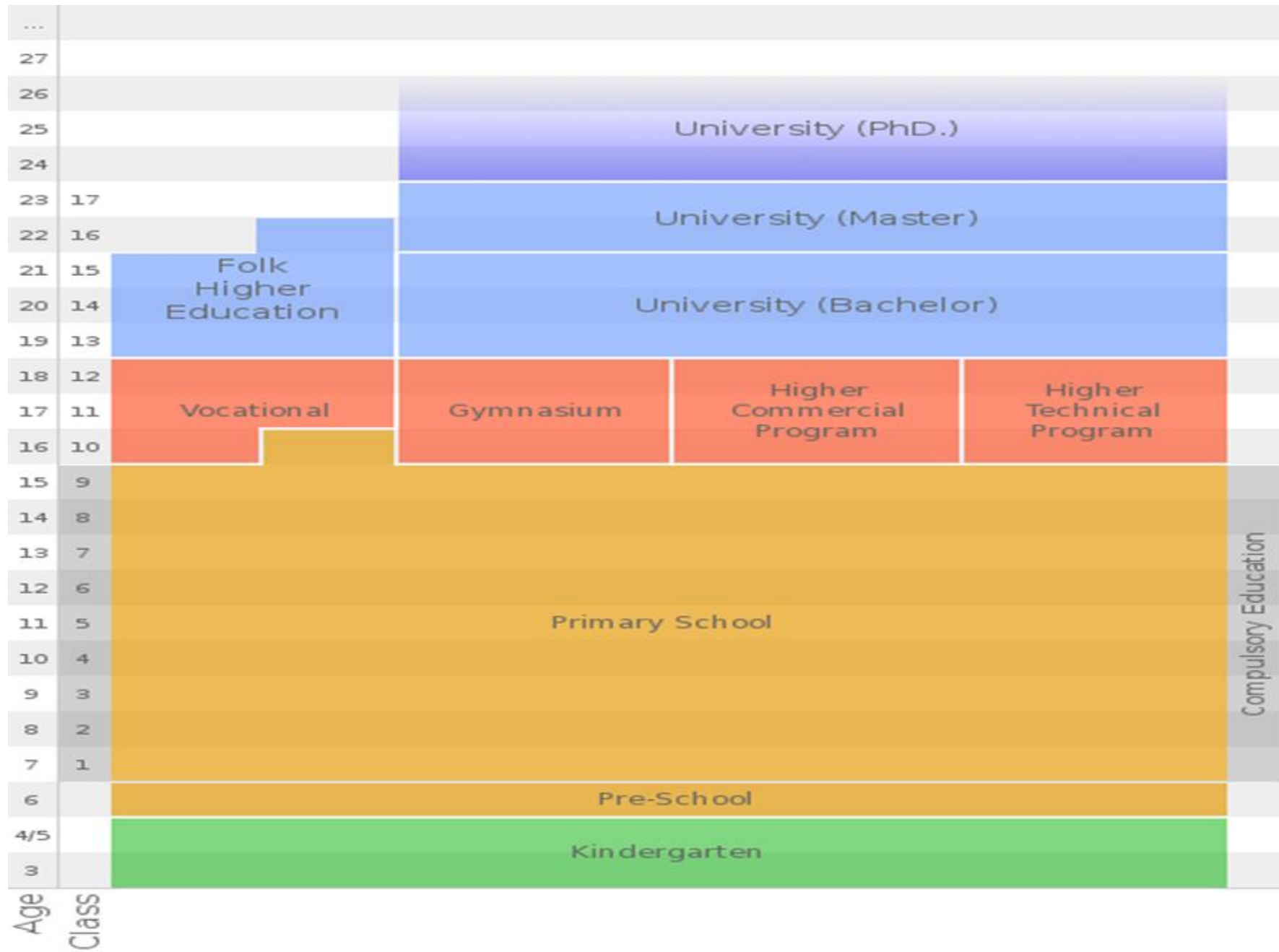


# Roskilde Technical College

HTX →  
Roskilde



- HTX
  - Higher Technical Examination
  - A Technical upper Secondary education
- EUX
  - Combined Upper Secondary Education and EUD
- EUD
  - VET
  - Dual system, education alternates between theory at school and workbased learning as an Apprentice in a company
- AMU
  - General Adult Education



# Education system in Denmark



- ✓ Education is compulsory
- ✓ Government funded education is usually free of charge and open to all
- ✓ Denmark has a tradition of private schools, and app 15,6% of all children at basic school level attend private schools
- ✓ Literacy rate is 99% in Denmark, giving Denmark a 42nd position in the world
- ✓ Denmark is the 5th best country in the world at providing higher education

# The danish model for VET...

- The dual system
  - Contributes to the integration of theoretical- and practical knowledge
- Companies have responsibilities
  - Participates in the financial part, and is responsible for the practical part of the program
    - Apprentices get salary from the company when entering the Main Course
- Long periods of work experience



# The Danish model for VET...



- The pros
  - Students are ready to enter the job market when they pass their final examination
    - They have ALL the skills, including the knowledge of “How to be part of an enterprise”
  - Students are capable of *thinking* and relate to different situations in their job function
    - At school we have taught them how tasks are solved – in the best theoretically way, and during their work experience periods they learn that “real life” sometimes differs from theory

# Roskilde Tekniske Skole - EUD



- Example – Auto mechanic

- Basic Course



*Grundforløb 1-2*

- Main Course, work experience



*Hovedforløb, praktik*

- Main Course, school



*Hovedforløb, skole*

***Personvognsmekaniker: Grundforløb + 3 år, 6 mdr.***



*Grundforløb 1-2*



*Hovedforløb, praktik*



*Hovedforløb, skole*

Total duration of education, ex Basic Course is 3 years and 6 months

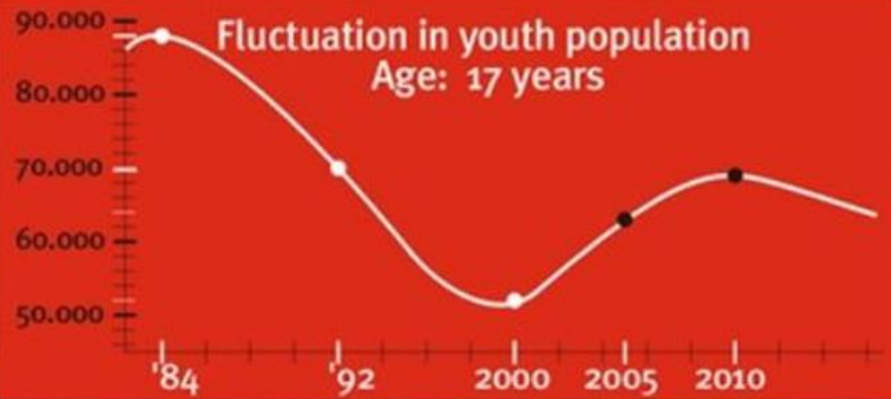
# Denmark



## Educational aims:

95% of the youth population completes a youth education

50% of the youth population completes further and higher education



## Education

Compulsory education 9 years: 100 pct.  
Optional 10<sup>th</sup> year: 40-60 pct.

Starts a youth education  
after 9<sup>th</sup> and 10<sup>th</sup> year: 95 pct.

Finished formal youth  
education: 85-90 pct.

Population: 5.2 mio

Work force: 2.9 mio

Female work frequency: 70 pct.

Work hours/week: 37 hours

Holidays: 5-6 weeks

Unemployment rate: below 4 pct.

# Questions

- Personal study paths needs clarification – in the law there are holes
  - In Denmark students are given credit for former obtained skills
  - This means that study paths will be – to some extend – personal.
  - Some credits are based on experience in practical fields. The evaluation will be subjective



# Questions



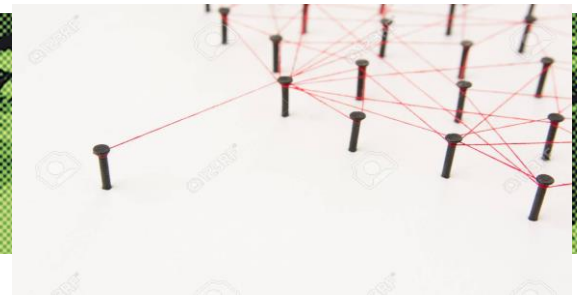
- After the degree Student guidance still needed
  - Job Centres, free of charge
  - Private coaches, self paid

# Questions



- How to study at workplaces – how to develop co-operation between schools and working life
  - Business consultants act as a link

# RTS and the companies



- Business Consultants acts as link between students, companies and the school
  - Recruit students for the companies
  - Helps companies fill forms and contract
  - Guides students towards the companies that are looking for new students.
- At least once a year all companies with apprentices are invited to an afternoon of “What’s new” and “FAQ”

# RTS and the companies – EUD & EUX

- The Dual-system is the key to the success the Danish VET system have when it comes to preparing the student to the labour market!
- Spending approximately 2 out of 3,5-4 years of education in a real-life work situation prepares the students in the best possible manner!
- Early in their work life they learn what it is to be part the labour force!



# RTS and the companies – EUD & EUX



- The Dual-system means that the education alternates between school and work experience
- A collaboration with mutual benefits!
  - To have well educated workforce – the companies need to take part in the education of the new generations.
- The companies are responsible for the practical training – the school are responsible for the theoretical part of the education....

# Questions

- Possibility to apply to study to the vocational colleges all around the year – for those who are without any school - training or workplaces (NEET youngsters)
  - Enrollement four times per year

# Questions

- Competence and updated skills and resources and energy of teachers not getting burn-out
  - Continually training of teacher
  - Pedagogical courses
  - Practical training courses
  - Access to psycho therapist

# Questions

- Co-operation between vocational colleges – university of applied sciences – universities
  - Not much....



# Questions

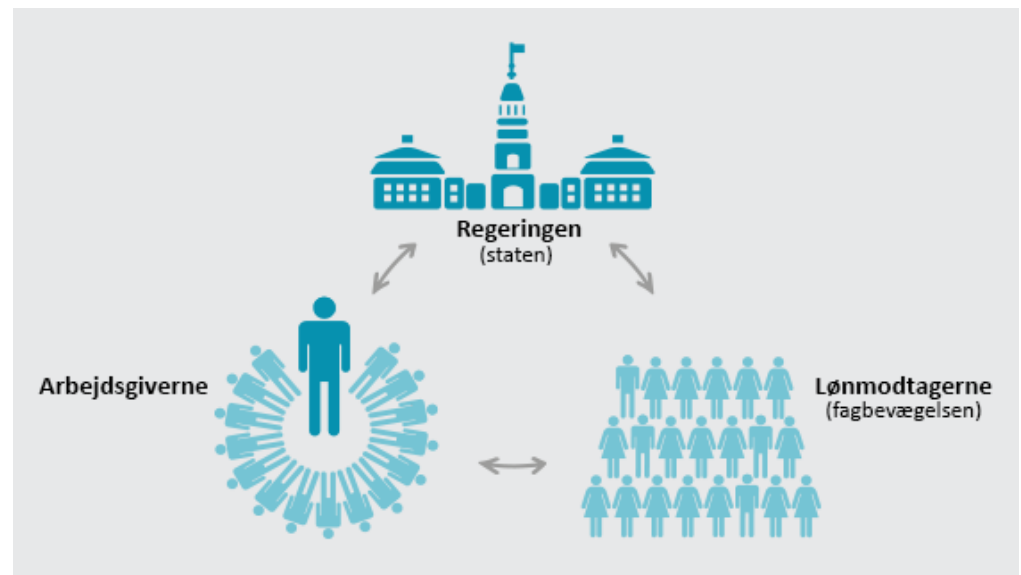
- Quality of education: follow-up, evaluation and research of education
  - Quality studies carried out continuously
  - All students are asked for a evaluation of their time at school
  - Almost all students are questioned in the yearly "Student well-being study"

# Questions

- Financing of education
  - Schools receive money from the state
  - In Denmark all students will be financially supported *with the so-called SU* – which can be translated into **State Educational Grant**.
    - Living at home/under 18/20 years: 946 dkk/month = 127 €
    - 20 years not living home: 6090 dkk/month = 817 €

# RTS and the companies – EUD & EUX

- The Dual-system is a result of the tripartite negotiations, the three parties being:
  - The employers
  - The employees
  - The government



# Questions



- Research – develop and Innovation – Research of education
  - ETU = Student Well-being Study

# EUD - The Dual-system

- EUD – where education alternates between theory at school and work experience as an Apprentice in a company



# School environment

- Very relaxed atmosphere
- Teachers are called by first name
- Democracy is strong – student council
- Respective tone teacher to student and vice versa
- The students are regarded as “adults” with “freedom with responsibility”



# Roskilde Technical VET College

- How to become "first choice" of education...
  - In a world where
    - "if you can't be anything else – you can always be a craftsman..." is still the attitude amongst the young...
      - *"VET is for those that are not smart enough for Upper Secondary Education"*
    - 2017
      - 74% chose Upper Secondary Education as a first choice
        - » App. 17% of them attend VET afterwards....
      - 18,5% chose VET as a first choice



# From elementary to VET

- News from the government!
  - 10<sup>th</sup> grade is moved from Elementary Schools to the VET Schools/Colleges
  - Pupils from the 7<sup>th</sup> to 9<sup>th</sup> grade can attend electives at the VET Schools/Colleges
  - Counsellors in the elementary schools are obliged to guide equally towards VET and high school
  - Examination in the practical/music subjects in 8<sup>th</sup> grade – “Crafts & Design”





# From elementary to VET

- News from the government!
  - Greater certainty for Apprenticeship placements
  - More money to the VET schools
- The goal is that every 4<sup>th</sup> pupil in elementary school chooses a VET education by 2020
  - Today it is less than every 5<sup>th</sup> .....



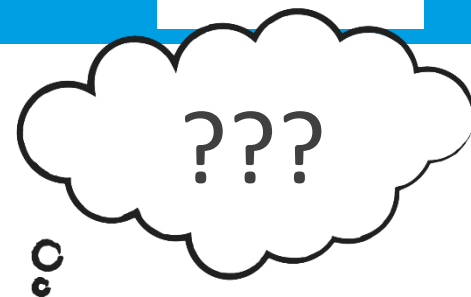
# From elementary to VET

- During 8<sup>th</sup> and 9<sup>th</sup> grade, all pupils in Elementary School participates in short modules at the VET Schools
  - 2-3 days
  - Following the VET Students in classes and workshops



# Questions?

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[www.rts.dk](http://www.rts.dk)

***Masser af uddannelsesmuligheder!***