

Panel discussion

EU STEM Coalition and STEM platforms across Europe

Panelists:

- Jan Lundell, director – Central Finland LUMA Centre
- Mikkel Bohm, director – Director of ASTRA, Denmark
- Morten Sørli, director – National Centre for Science Recruitment, Norway

Moderator:

- Geert Asselbergs – Coordinator of the EU STEM Coalition

Structure of the panel discussion

- 1. Presentation STEM platforms in Europe**
 - *ASTRA (Denmark)*
 - *LUMA (Finland)*
 - *National Centre for Science Recruitment (Norway)*
- 2. Panel discussion**
- 3. Questions from the audience**

EU STEM Coalition

- **Objective:**
“Facilitate best practice sharing between STEM platforms and support the development of new strategies and approaches based on the triple helix approach”
- **Results:**
 - New STEM strategies based on the triple helix approach
 - New programmes based on successful models
 - New organisations based on existing best practices
- More info: www.stemcoalition.eu

ASTRA (Denmark)

Mikkel Bohm, director



- **Origin**

- Political focus on STEM
- 2017: Merger of three smaller organisations (60 FTE)

- **Role and activities**

- Coordinating function, strategic infrastructure, knowledge sharing, talents
- Large-scale national programmes (Big Bang teacher's conference, Danish Science Week and Young Scientists), advice and evaluation, political networks, teacher training, talent camps

ASTRA (Denmark) (2)

Mikkel Bohm, director

astra*

- **Impact and results**

- App. 50% of schools attending programmes
- Strategic contact to 90% of municipalities to develop local STEM strategies
- Initiator of Danish Technology Pact
- Chairman of new national STEM education strategy - published by gov. March 2018
- Close collaboration with partners in ongoing projects, e.g. engineering, space, national school/industry network (“Tektanken”) etc.
- 12 projects under evaluation
- 1.400 teachers attending Big Bang conference
- Slow but certain rise in interest for STEM in Denmark

Nat. Centre for Science Recruitment

Morten Sørli, director

- **Origin**
 - Political focus on recruitment to STEM
 - Funded by the Ministry of education, est. 2003.
- **Role and activities**
 - National resource centre for recruitment to science and technology subjects: The centre works with everyone involved in recruitment to science and technology.
 - Large-scale national programs (from primary school to higher education)

Nat. Centre for Science Recruitment (2)

Morten Sørli, director

- **Impact and results**
 - National Competence Center in cooperation with most stakeholders in the field
 - Approximately 2/3 of all STEM teachers and career advisors in secondary school engaged
 - About 2/3 of all pupils in lower secondary school meets a role model.
 - The centre helps approximately 3500 pupils annually with homework in STEM subjects.
 - Large-scale social media campaigns
 - STEM enrollment increased by 5.7%. in 2018

LUMA (Finland)

Jan Lundell, director of Central Finland LUMA centre



- **Origin**

- An umbrella network for the LUMA centres within Finnish Universities since 2013
- Funded by Ministry of Education and Culture via development programmes and by Universities via research and education (especially teacher education in STEM)

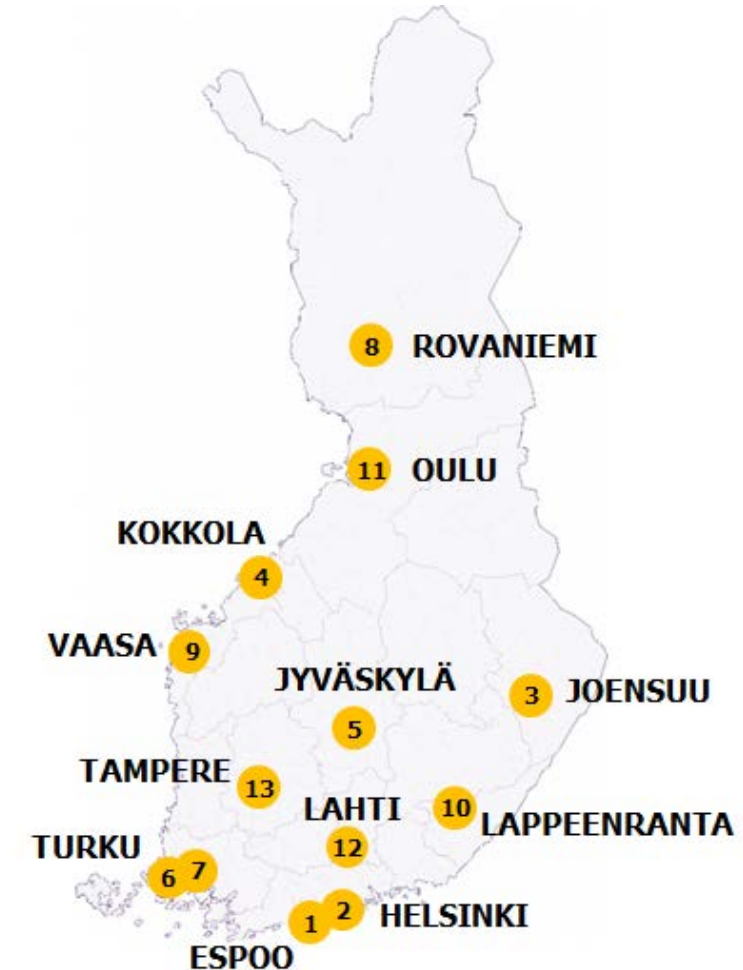
- **Role and activities**

- Enhances and promotes national and international cooperation between the centres, based on joint national strategy
- High-level know-how in science, mathematics and technology
- LUMA Finland Development programme 2014-2019
- National mission 2017-2020

LUMA (Finland) (2)

Jan Lundell, director of Central Finland LUMA centre

- **Impact and results (LUMA Finland Dev. programme 2014-2019)**
 - 80% of Finnish Municipalities involved
 - Annually thousands of children, young people and teachers involved



Discussion topic #1

How is industry involved in the activities of the platform?

Discussion topic #2

What are the most urgent challenges?

Discussion topic #3

What would you like to achieve in the next three years?

Questions from the audience

Thank you for your attention!

More info?

www.stemcoalition.eu

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