



# Report out – Deep dive sessions





## Round 1: classroom implementation - deep dive

Robert Cabane - **Curriculum**: New generation of STEM integrated curricula

Jürgen Langlet - **Content**: Common Framework

Agueda Gras-Velazquez - **Classroom practice**: Innovative classroom practices



## Round 2: connecting to the wider context - deep dive

Ana Grigore & Annika Ostergren - **Policy**: Promoting STEM and digital competences in the EU

Béatrice Taulègne - **Outreach**: The Role and expectations to the European Regions in  
Strengthening STE(A)M Education

Emir Demircan – **Industry role**: Technology Supplier and Employer



# Robert Cabane - Curriculum:

## New generation of STEM integrated curricula

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*It has been identified by forcing STEM preparation at University = FAILURE  
Introduction of STEM needs to go by exposing teachers already available by  
upgrading first the trainers who will be the ones training the others.  
It has been highlighted that Professional Development is critical to be successful.*

Call for action: Train the teachers else fail

# Jürgen Langlet - Content:

## Common Framework of Natural science and mathematics competences

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*'The base is the groundwork of the foundation.' With other words: focus on the relevant basic competencies. Do less, but do it deeper.*

Call for action: The European institutions should setup and support a process that enable a pan-European mutual consent on the basics of STEM education. It exists for languages, we need it for STEM.

# Agueda Gras-Velazquez - Classroom practice: Innovative classroom practices

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*‘Innovative classroom and education practices require a #STEM framework that takes into account content, materials, methodologies, research and society’ result & **call for action** from Classroom Practice session at the #TInspiringSTEM conf @scientix\_eu @T3Europe @stemalliance\_eu*

# Ana Grigore & Annika Ostergren - Policy: Promoting STEM & digital competences in the EU

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*Despite curriculum improvement and European programs in favor of STEM, we need to get more Women attracted by STEM professions*

We need to foster more collaboration between the different EU satellites and member States to encourage more Women in STEM, leveraging existing successful programs

# Béatrice Taulègne - Outreach:

## The Role and expectations to the European Regions in Strengthening STE(A)M Education

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*Pivotal role of local and regional authorities to face global challenges and to foster STEM education. STEM is an issue of adaptability, accessibility and employability. Digital is the new literacy: clear added value of digital instruments in mathematic and science education.*

*Teaching the teachers: key success to build the future workforces*

Address: the Teacher gaps and facilitate awareness campaigns on STEM careers

# Emir Demircan – Industry role: Technology Supplier and Employer

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*We believe in STE(A)M. STEM should be connected to solving societal problems. Skills such as problem-solving, social skills, etc. are also very important for STEM. This is also linked to skills forecast as the pace of innovation is so rapid!*

Connect STEM with grand societal challenges





# Digital skills: challenges, opportunities, initiatives and the Digital Europe program

Alexander RIEDL

Deputy Head of unit - Digital Economy and Skills at DG Connect



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