



Norwegian Ministry
of Education and Research

The Norwegian STEM Strategy

Lene Oftedal

Copenhagen, 2. March 2017



Overview

- First STEM Strategy in 2002
- More students enrolled in STEM Education at all levels
- Holistic approach – from Kindergarden to PHD
- All relevant stakeholders were mobilised : Education councils and centres, Council for Higher Education, the Research Council, Social Partners
- The Minister of Education and Research established and chairs a National Forum for STEM
- Overarching goal : Improve results in PISA and TIMMS



Goals for the strategy

- Strengthen competencies in STEM
- Enhance motivation for STEM at all level of education
- The use and need for STEM for further develop welfare, new jobs, innovation and social security
- The number of candidates in STEM should increase with 15 %
- 5% increase in enrollment in advanced STEM studies in schools, 5 % increase is graduation from these programmes
- Norwegian students should be at the international average level in PISA and TIMSS



National structures to follow-up the Strategy

- Norwegian Centre for ICT in Education
- Norwegian Centre for Mathematics Education
- Norwegian Centre for Science Education
- Science Centres
- Norwegian Centre for recruitment to STEM Education and Jobs
- Norwegian Higher Education Council
- The National Forum for STEM



Lessons learned

- Important with a STEM strategy at national level
- Mobilise the stakeholders
- Use activities, indicators and benchmarks that are verifiable
- Be ambitious – and realistic
- STEM strategy for 2015-2019 : kindergarden and school education (the 4th strategy in a row)





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Thank you for your attention !

leo@kd.dep.no



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