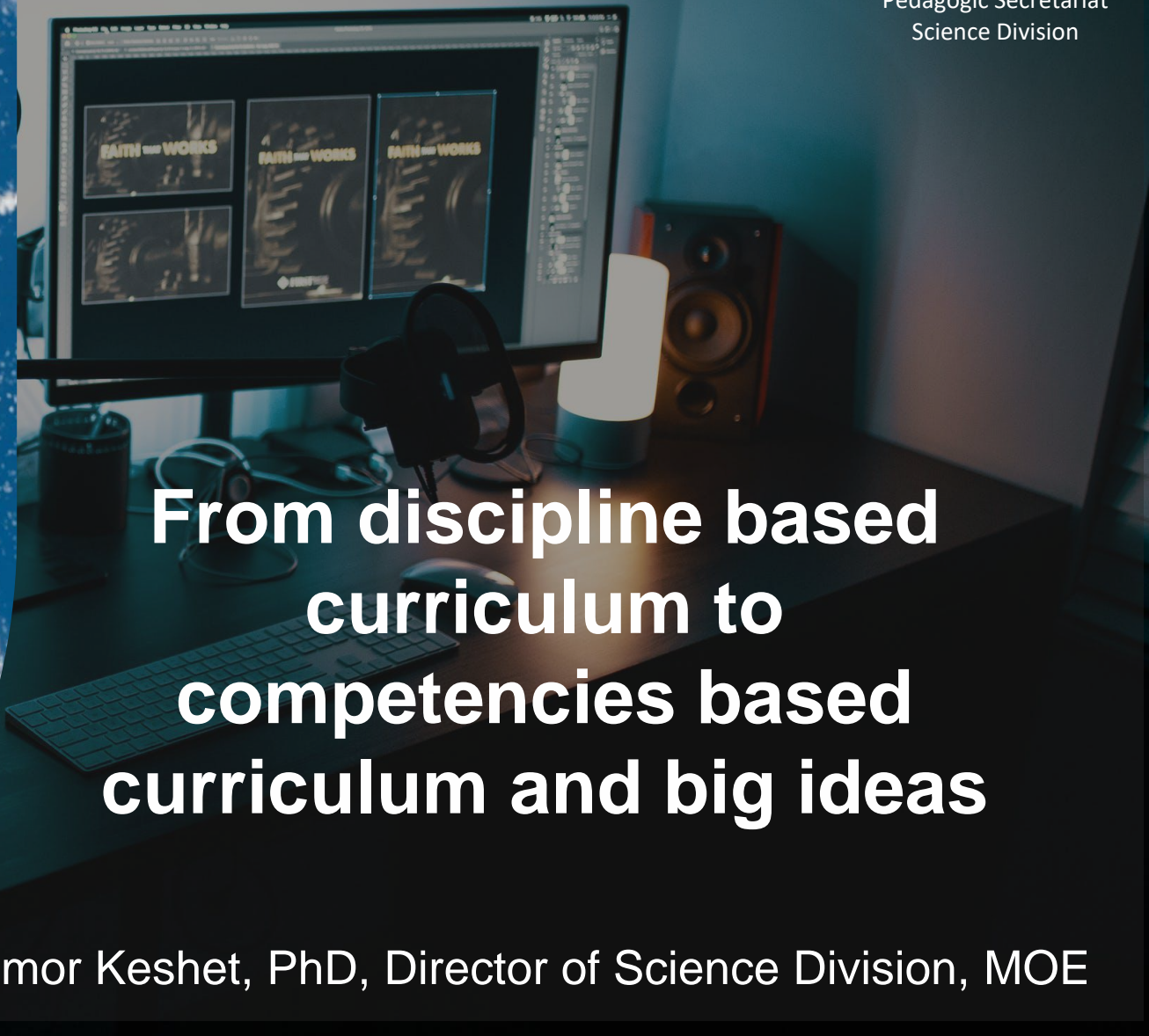




Ministry of Education
Pedagogic Secretariat
Science Division



From discipline based curriculum to competencies based curriculum and big ideas

Gilmor Keshet, PhD, Director of Science Division, MOE



Science and Technology



Facilitating STEM education



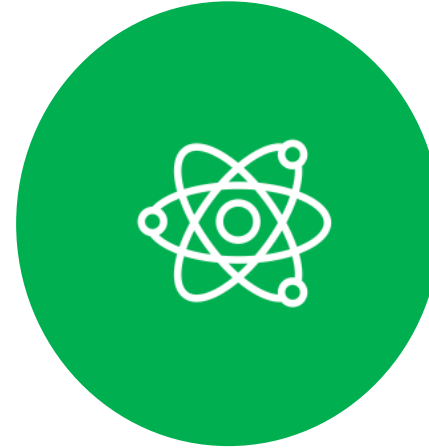
Pre-service Teacher training

New programs in Education Colleges submitted to the council for higher education that include engineering and technology



In-service teacher PD

Professional development in physics for biologists and technology, engineering and Maker/FabLab



Science and Engineering Fairs

In the school, municipality, district and national level

Learning in Science Museums in collaboration with Ministry of Science and Technology



Learning materials

Teaching, learning and assessment



Equal opportunities and representation



Science and engineering national fair



The Future Graduate

Knowledge - Competencies - Values

Core STEM competencies



STEM competencies in “The future graduate” policy



**Mathematical
And
Scientific
literacy**



**Critical
thinking**



**Digital
literacy**



**Creative
thinking**



**Social
awareness**



**Self
regulation**

Integrative STEM approach



Interdisciplinary

and disciplinary
knowledge



Competencies

Core STEM
competencies



Problem based learning

Real world problems



Ecosystem

Real world context
supported by an
ecosystem



Digital learning

Tasks enhanced,
modified or even
redefined by digital tools.



Equity

Equal opportunities and fair
representation
Science capital and identity

Principles





אגף א' למדעים
המזכירות הפדגוגית משרד החינוך

