

The Fading Boundaries Between Formal and In-Formal Science Education

Dr. Liat Ben David,
CEO

The Davidson Institute
of
Science Education



“Human capital is the State of Israel’s most significant asset...Investment in **Science education** is no less than a **strategic choice**, aimed at enabling a meaningful role in designing the future.”

Shimon Peres, 9th President of Israel



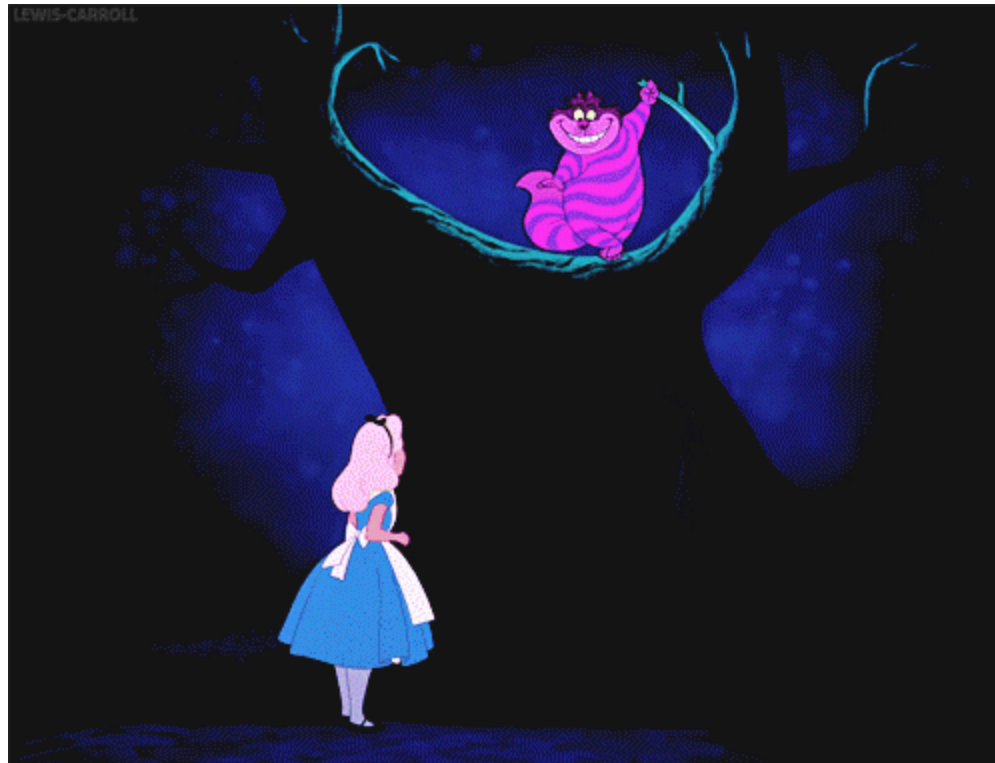
מכון ויצמן למדע
WEIZMANN INSTITUTE OF SCIENCE

#6

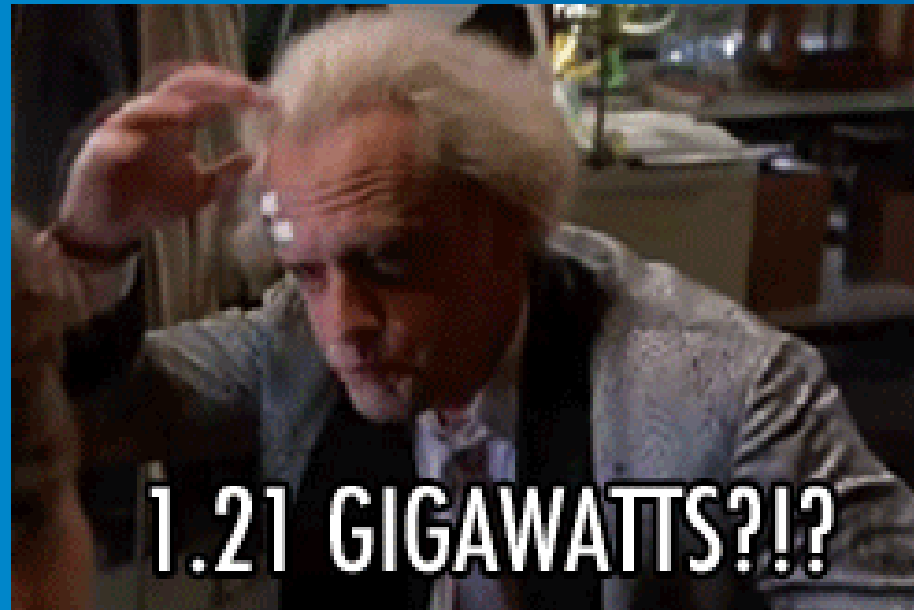
In the World

Nature Innovation Index, 2017

What's nice girl like you Doing in a place like *THIS*?



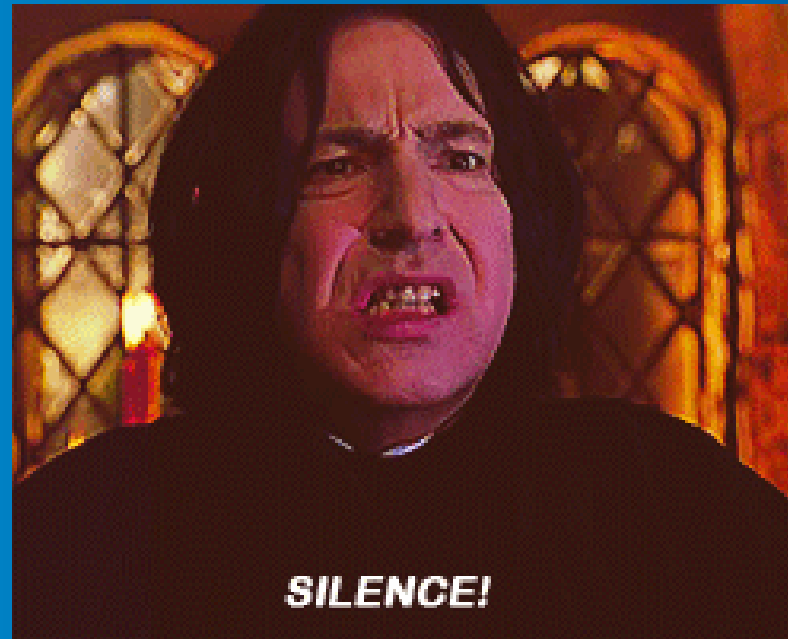
SCIENTISTS



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TEACHERS



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“That’s the reason they’re called lessons,” the Gryphone remarked, “because they *lessen* from day to day.”

(Lewis Carol, Alice’s Adventures in Wonderland, 1865)

EDUCATION

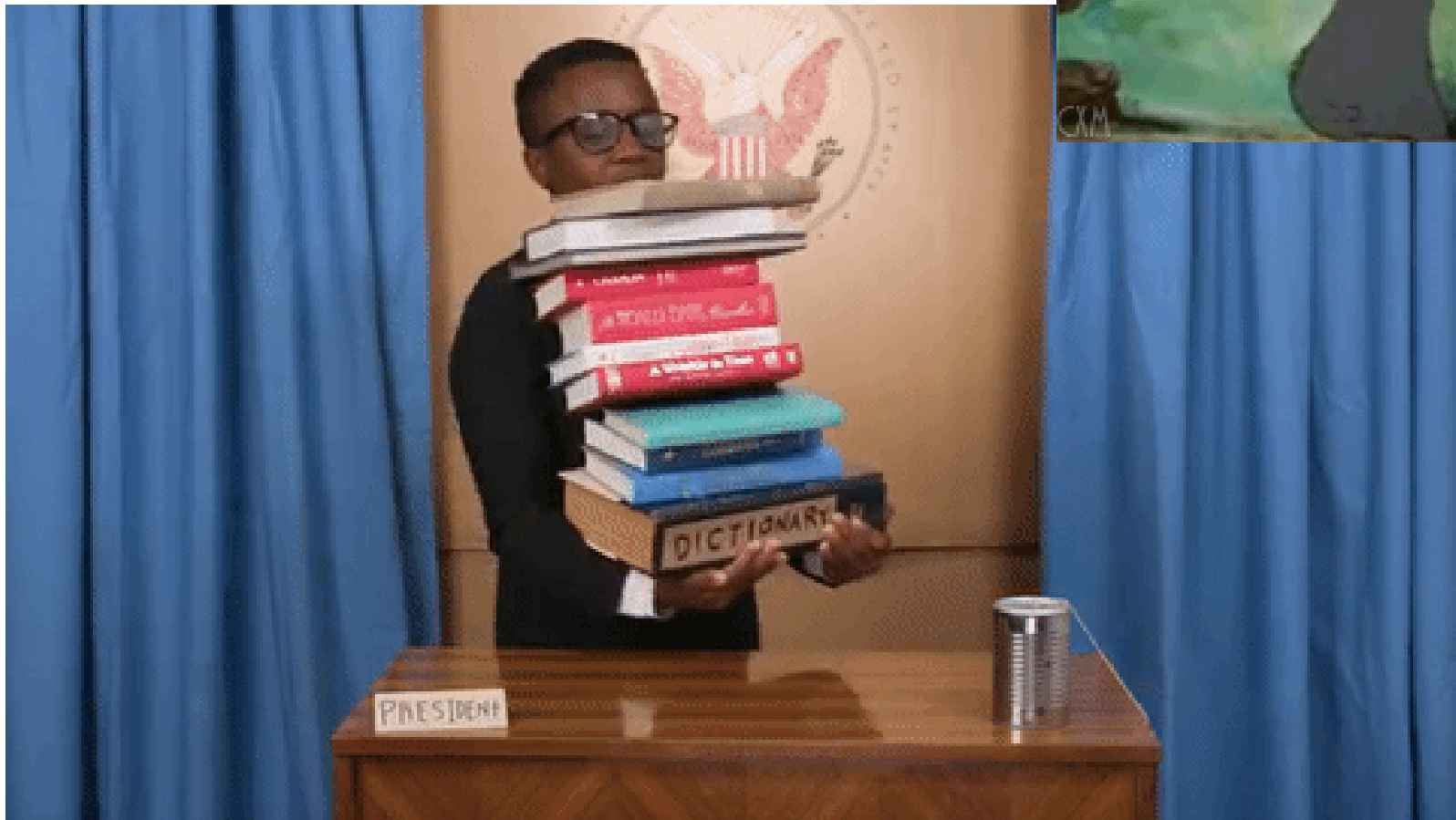
I CAN'T REMEMBER



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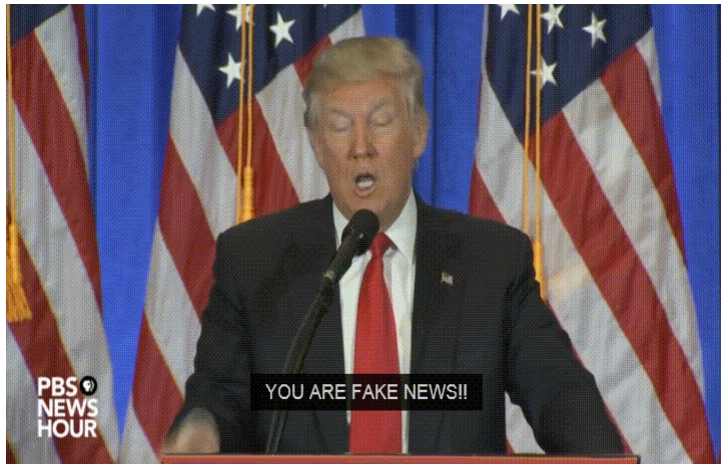
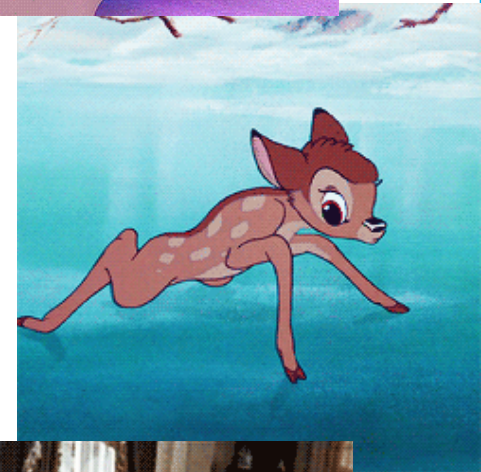
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THE “BEAR NECESSITIES” OF SCIENCE EDUCATION





Critical Thinking **Creativity**
The passion to fly **Teamwork**
Imagination **Freedom to Fail**
Community Building



THE DAVIDSON INSTITUTE OF SCIENCE EDUCATION

VISION

SCIENCE WILL BE
A MAJOR,
LEADING VALUE
ON BOTH
PERSONAL AND
SOCIAL LEVEL OF
ISRAELI SOCIETY



MISSION

WEIZMANN'S
DAVIDSON
INSTITUTE OF
SCIENCE
EDUCATION WILL
BE A NATIONAL
AND GLOBAL
BEACON OF
EXCELLENCE,
INNOVATION AND
LEADERSHIP IN
ALL ASPECTS OF
SCIENCE
EDUCATION



Facts & Figures

Est. 2001

340 professionals

70 projects/programs

350,000 participants

2,500 teachers

2,7 m' users (web site)

Budget: 16 m' USD



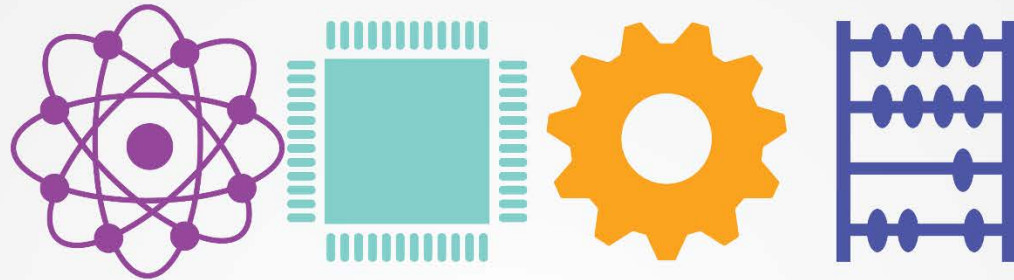
Defying time, space and process: A NETWORK OF CONTINUUMS



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SCIENCE | TECHNOLOGY | ENGINEERING | MATH



STEM

PBL, HANDS-ON, DISCOVERY-BASED, INQUIRY, ACTIVE



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WEIZMANN INSTITUTE OF SCIENCE

FROM SCIENTIFIC LITERACY TO EXCELLENT SCIENTISTS – Excellence as a value that can and should be found & developed EVERYWHERE



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WEIZMANN INSTITUTE OF SCIENCE

ALL SECTORS OF ISRAELI SOCIETY

- **STUDENTS** (*youth at risk, Ethiopian, Arab speaking, Charedy, girls, gifted*)
- **TEACHERS** (*excellent teachers develop excellent students*)
- **FAMILIES & GENERAL PUBLIC**



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WEIZMANN INSTITUTE OF SCIENCE

DEVELOPMENT, IMPLEMENTATION AND DISSEMINATION OF INNOVATIVE, STATE-OF-THE-ART PROGRAMS IN SCIENCE EDUCATION, SUCH AS:

ACCELERATOR

SPARKS OF SCIENCE

CHEMISTRY-ON-LINE

“MAPATZ” – ACTIVE SCIENCE

EARTH AND SPACE

SCIENCE GARDEN & MUSEUM

NEUROSCIENCE

iSCIENCE

GIRLS CHOOSE SCIENCE

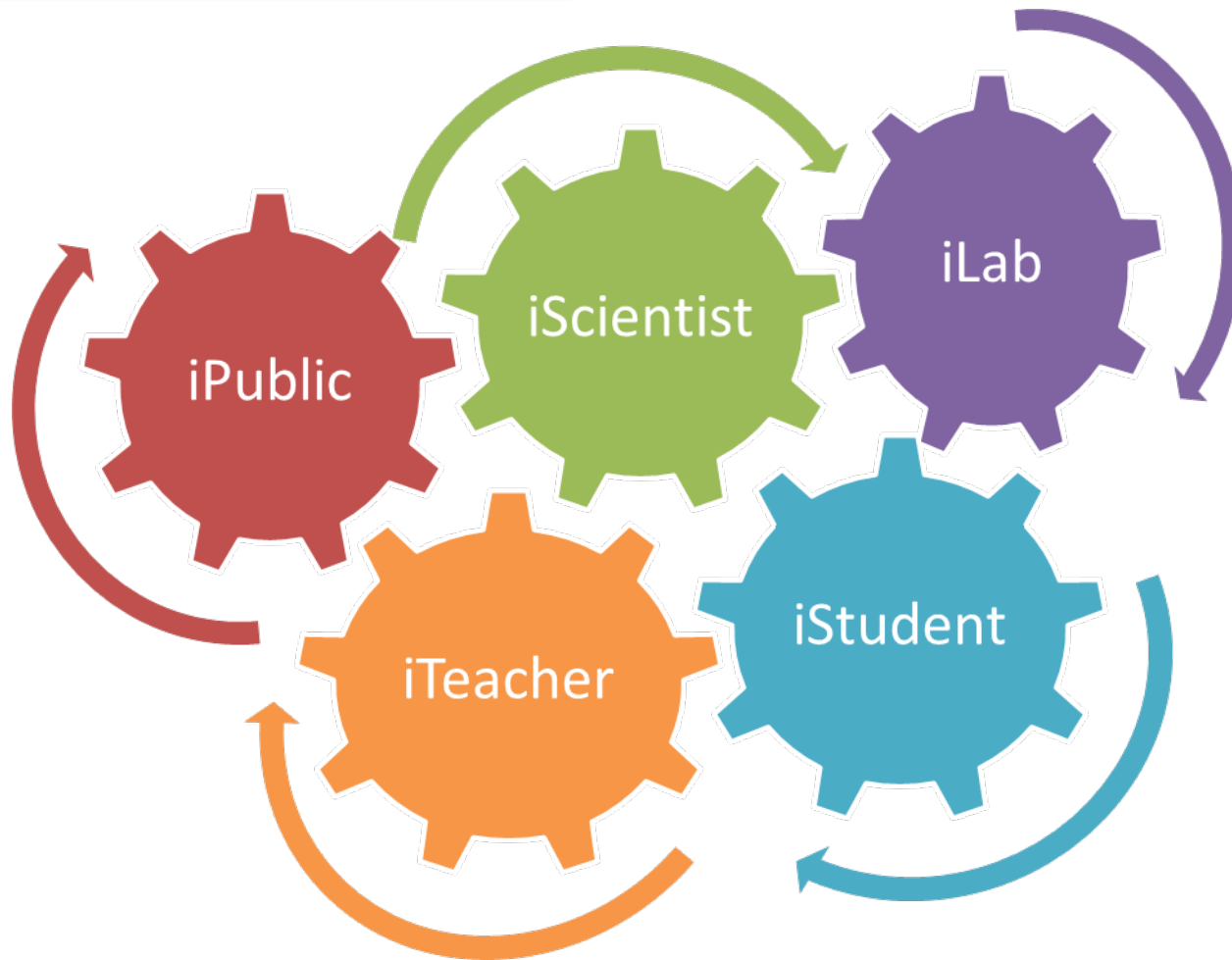
THE SCIENCE MOBILE



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iSCIENCE



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WEIZMANN INSTITUTE OF SCIENCE

A GLOBAL LEADER IN SCIENCE EDUCATION – *ISSI, SAFE TOURNAMENT, WINDOWS TO THE FUTURE, TRANSLATIONS, ETC...*



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Science Education – The Powerhouse of a Better Future for All



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ויצמן
למדע



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