



Ronen Mir - Schwartz/Reisman Science Education Centers The Weizmann Institute of Science, Rehovot, Israel

- 1. What is our target audience?
- 2. Why do we want to reach Teenagers?
- 3. How do we do it?
- 4. What are the difficulties?
- 5. What are the results?
- 6. Can u replicate it?

AMBES Visit October 15, 2018







- 1. What is our target audience?
- High School students between 15-18 years old 10th-12th grades.
- We serve all High Schools in our community. About 2,000 students per Center.
- All students who choose Physics study it at our Science Education Center as part of their regular school day.







- 2. Why do we want to reach Teenagers?
- A critical (last?) age where students choose whether to study Science.
- Develop students to be critical thinkers, who understand the culture of Science.
- Increase number of students underrepresented in Science, like girls.







3. How do we do it?

- Combine innovative Formal with Informal Science Education methods
- Student use of modern laboratories and equipment enables the learning of abstract issues in a scientific way.
- Excellent Equipment
- Teachers, Teachers, Teachers!





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Main asset and benefit - Schwartz/Reisman Teaching team works together fulltime to develop lessons, share ideas, mentor students. Continuous Support to teachers – like Explainers in ISE.







Best equipment, lessons based on demonstrations and student experiments.









New building, 18 Learning Class-Labs, 3 floors



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Students in Weizmann's Schwartz/Reisman Science Education Center







4. What are the difficulties?

- Communications and Class Scheduling with many (12-17) High Schools simultaneously.
- Transportation from/to Schools.
- Recruiting Lab Technicians.
- Receiving funds from the municipalities, in a timely fashion.
- Construction challenges.

Independent Assessment formative and summative







5. What are the results ?







SRC Contribution to your studies

percentage of (324)







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6. Can u replicate it?

The National Program – S/R Science Education Centers

- The model is working very successfully in Tel Aviv (28 years) and Rehovot (5 years)
- Rishon LeZion SRC opening October 2018.
- Construction of additional S/R Science Education Centers is underway.
- National Program envisioned for Israel.





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Rishon LeZion Schwartz/Reisman Science Education Center







Mikve Israel Schwartz/Reisman Science Education Center





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Science Shared Campuses Addis Ababa, Ethiopia + 5 more

- 1. Shared Science Campuses
- 2. STEM Centers
- 3. Summer outreach programs
- 4. Science Museums
- 5. Virtual computing
- 6. Mobile Lab.







1. Impact from the Shared Scince Campuses

- Students graduate from these schools each year with high quality education
- G11 & G12 are expected to volunteer for the summer program at other public schools,
- 800 students from the science schools Volunteer each year in only one region of the country







4. Science Museums

- The first museum deployed at AASTU in 10 themes totaling 40 exhibits;
- Produced by MadaTech in Israel
- Two more Science Museums to be deployed (Aksum and Mekelle),







Science and Technology Park, IAG, University of Sao Paulo, Brazil











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