

The Need

What

- STEM is being taught in heterogeneous classes.
- Keeping the stronger students challenged while not leaving the weaker ones behind.

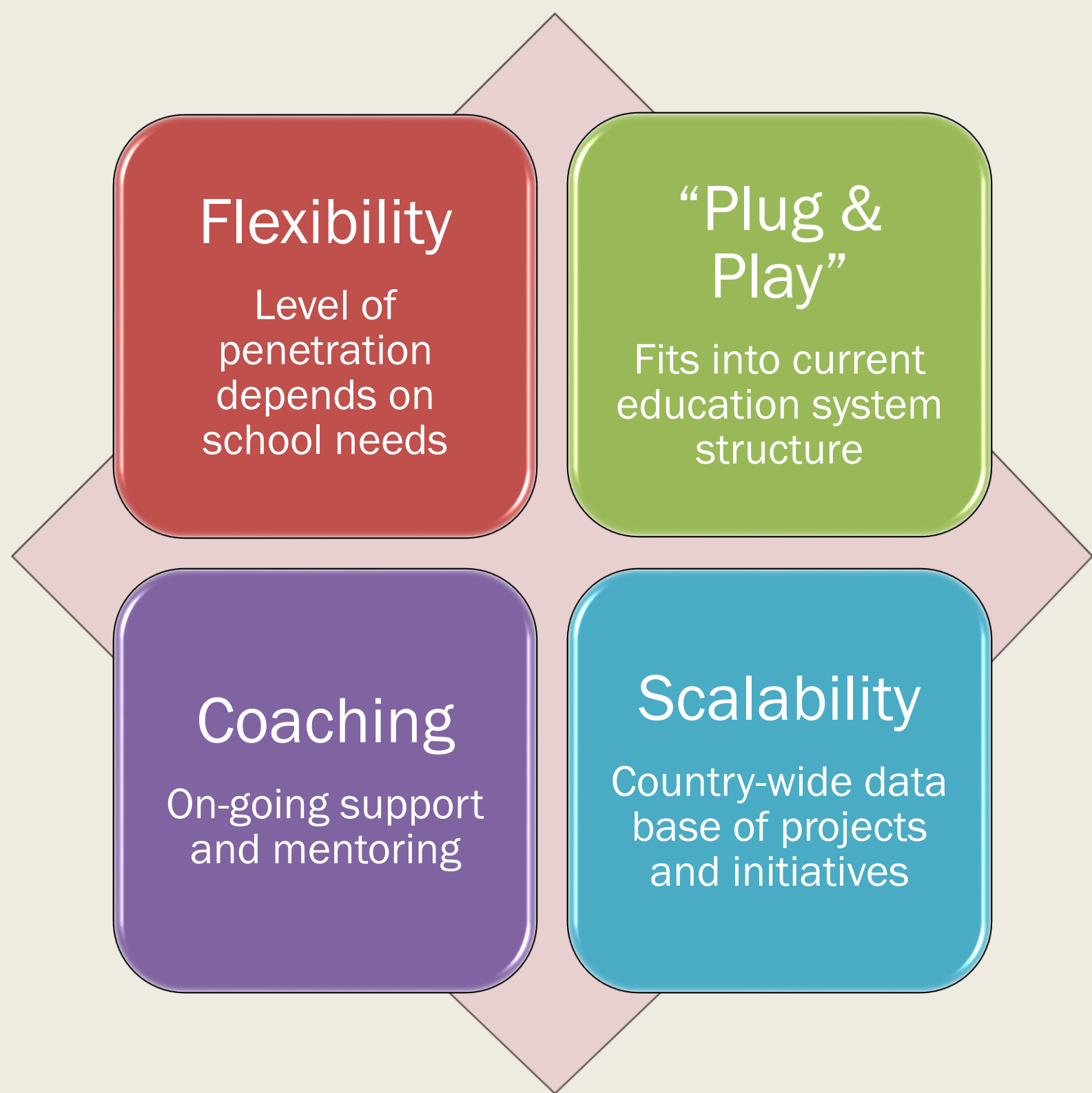
Why

- Large number of students.
- Wide range of *knowledge, motivation, abilities, needs and interests* makes lessons planning and teaching extremely difficult.

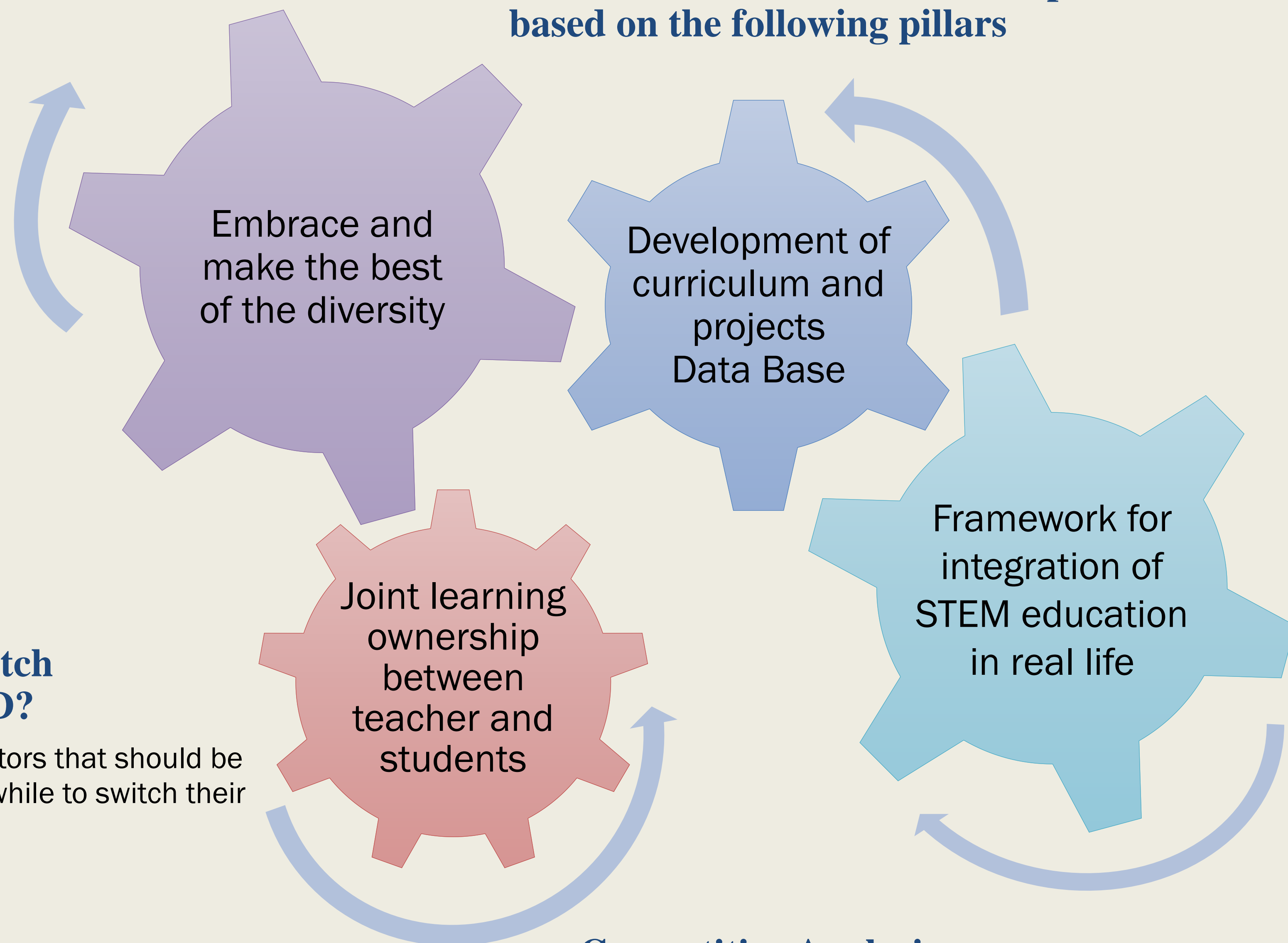
The Impact

- Students' motivation and satisfaction.
- Students' learning efficiency.
- Teachers' motivation and satisfaction.

Added Value



The PACE Solution: Curriculum Development based on the following pillars



Project Example: Should you switch from incandescent lamps to LED?

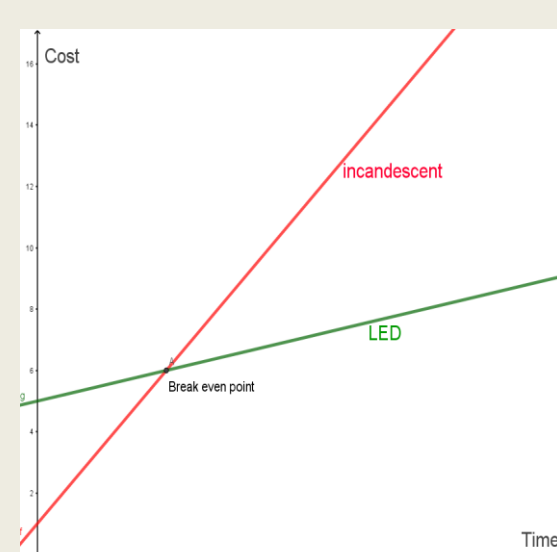
■ Description: The students will explore the different factors that should be considered in order to reach the decision if it is worthwhile to switch their home lighting from incandescent lamps to LED lamps:

- Lamp price, lifetime and energetic efficiency
- Total energy cost
- Ecological footprint



■ Expected outcome: getting familiar with the concepts of:

- Function
- Independent variable
- Dependent variable



■ Partnership with: Local Supply Hardware Store.

Competitive Analysis

	Competitor	Main theme	Driven by	Gaps
	The P.I.E challenge	Personalization In Education	Trump foundation and the 8200 Alumni Association	Focuses mostly on personalization, addressing only part of our problem
	HTH High Tech High	Equity Personalization Authentic work Collaborative design	High Tech High Board that operates as a public agency	Does not fit into current school structure \$\$\$ funding

The Team



Ilan Bary



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Master students in the field of education

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Extensive high-tech experience

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PACE Development Plan

Phase I – Proof of Concept- 2019-2020

- 1-2 pilots in middle schools

Phase II – Program Readiness - 2020-2021

- Scale up to 5 schools, 10 classes
- Direction checkpoint – Q4/2021

Phase III – Scale up to a municipality and country level – 2022 and beyond

