

Sander Smit
R2M Solution



Smart Cities and Energy Communities

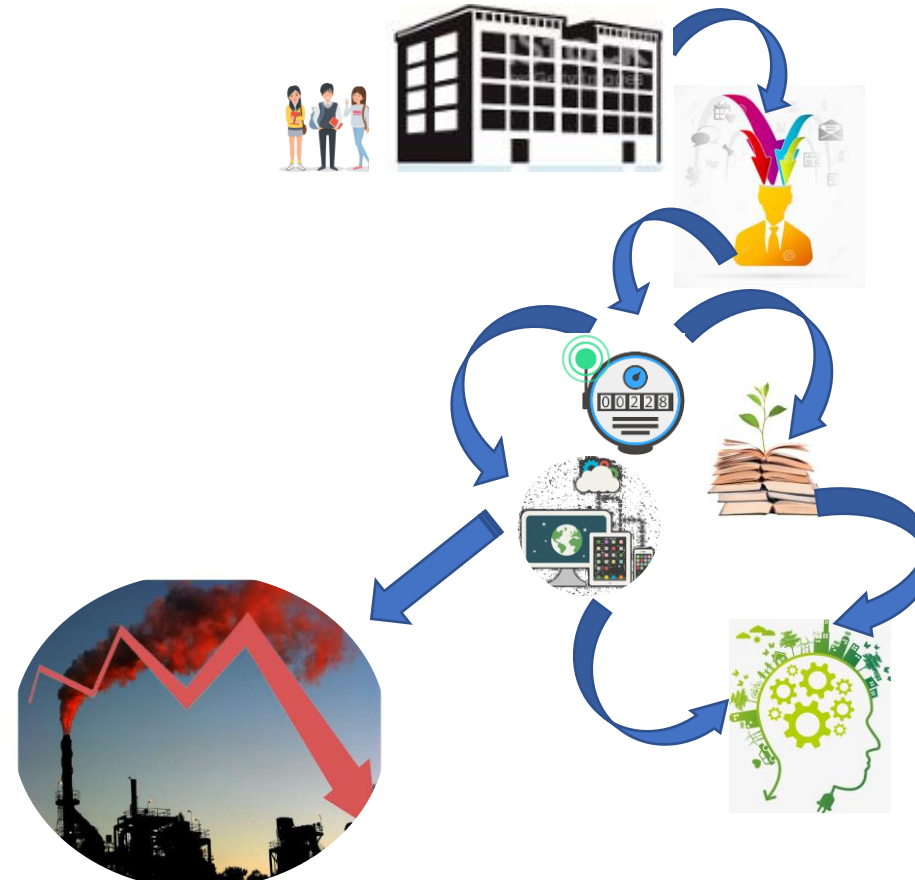
How can post-primary schools drive the adoption of Smart City energy concepts?

October 27, 2020




The ENERGE project

- **E**nergizing
- **E**ducation
- To **R**educe
- **G**reen House Gas
- **E**missions



ENERGE

Key facts

- Programme: Interreg NWE
- Theme: Low Carbon 
- Start Date: January 2019
- Duration: 46 months
- Partners/Sub-Partners: 10
- Budget: €4.27 million
- Countries Represented: IRE, FR, NL, UK, LU, DE
- Demonstration Site Schools: 12



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Our vision and mission

Our vision: A climate neutral Europe

Our mission:

Empower teachers and students to develop and implement energy efficiency strategies

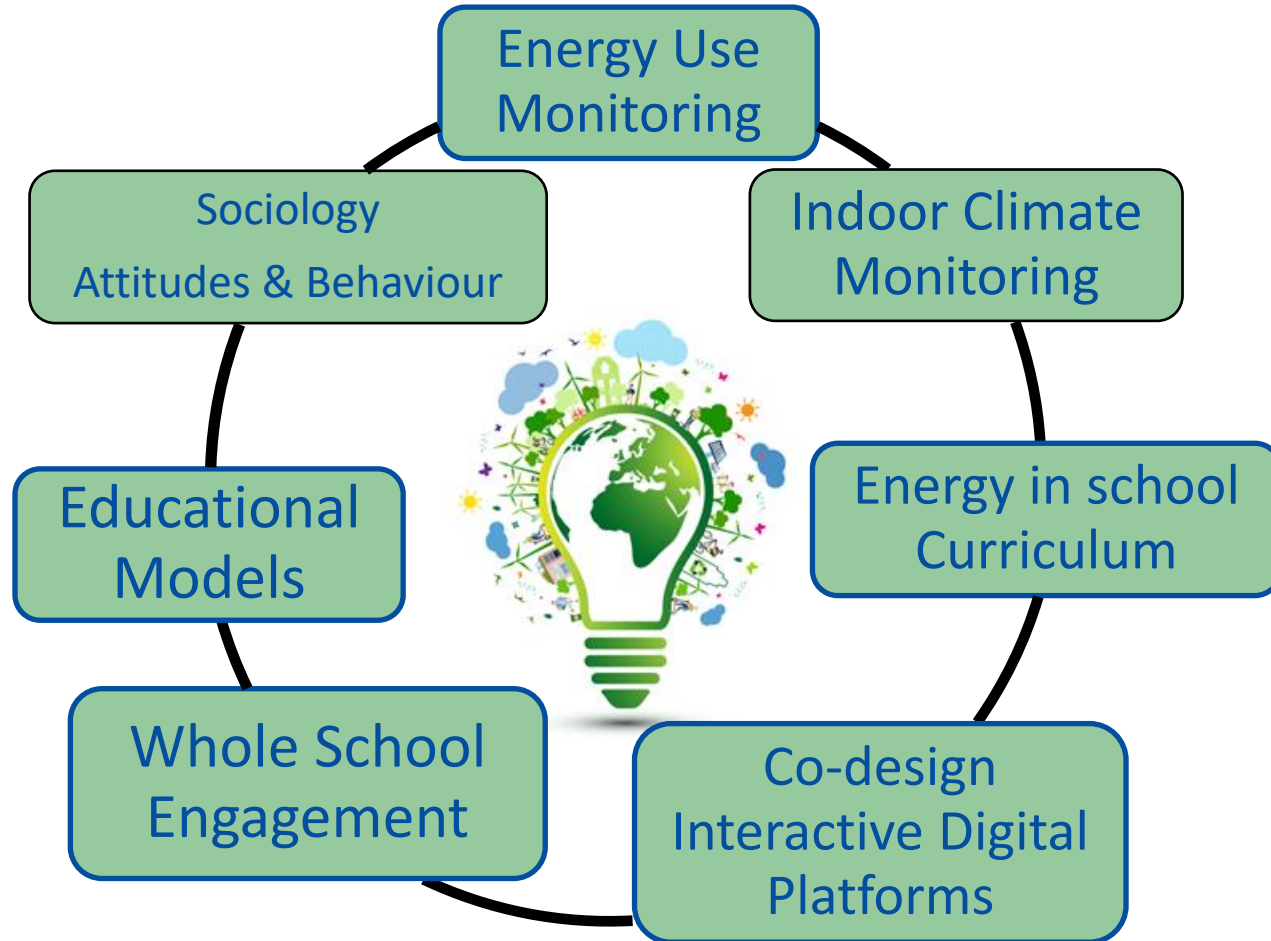
Reduce excessive and unnecessary energy use in secondary schools by targeted, non-intrusive and affordable physical interventions



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Methodology

Validated in 12 demo schools



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Engaging internal stakeholders

- Students
- Teachers
- Maintenance staff
- School management



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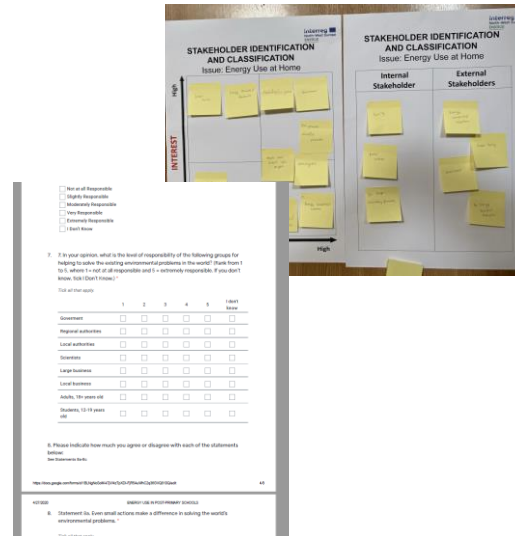
Engaging internal stakeholders

ENERGE Committees



Ambassador students on each demo-school representing and promoting ENERGE.

Co-design sessions & questionnaires



Involving students, teachers and school leaders in the design of the ENERGE platform.

Lab testing

SenseLab Experience Room



Test air, thermal, light and sound with students from the demo-schools

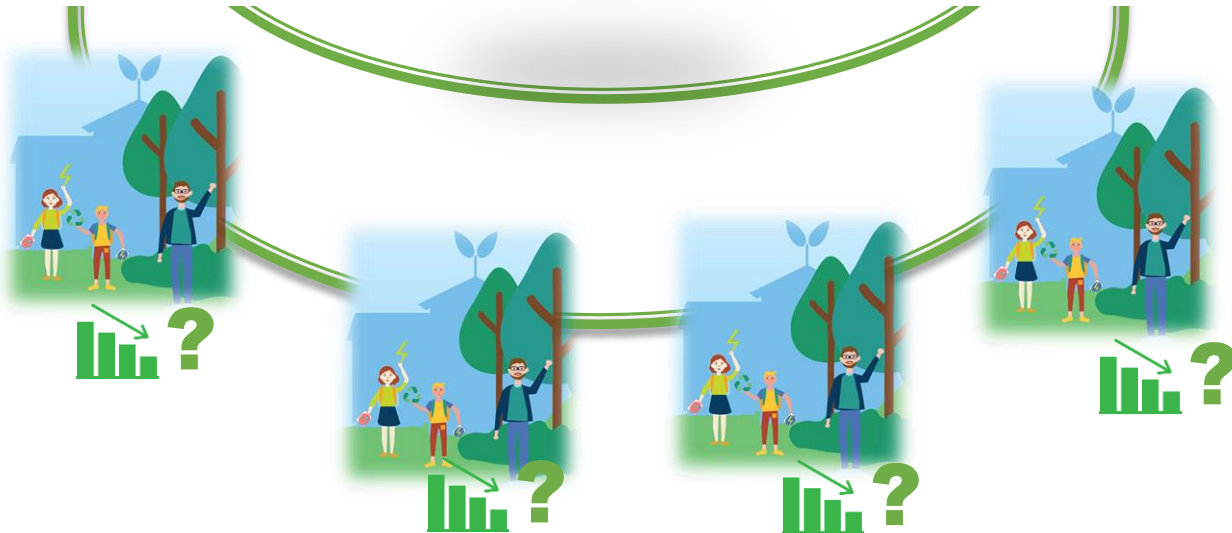
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Engaging internal stakeholders

Measuring ripple effects

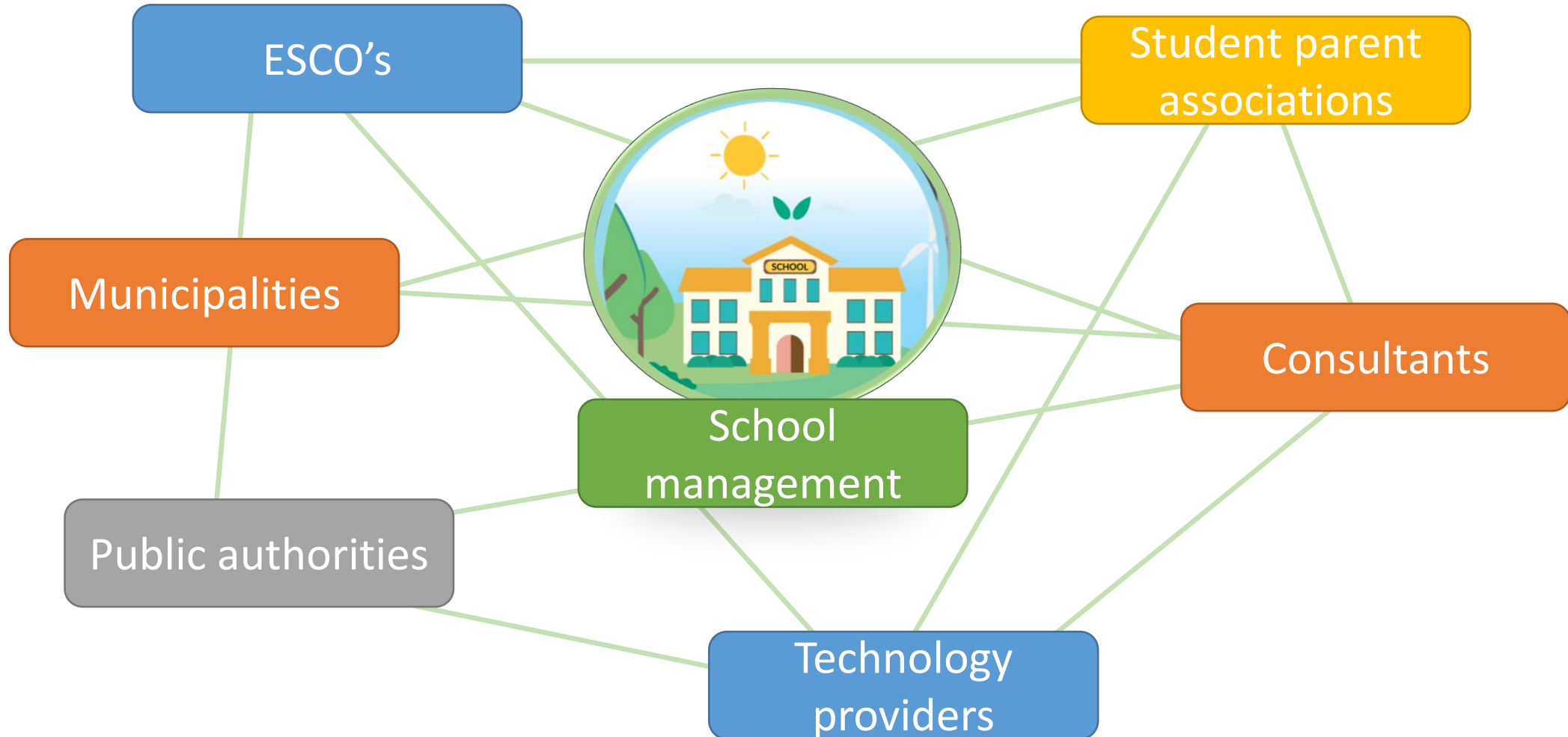


Students asked to use energy diaries to measure home energy consumption



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Engaging external stakeholders



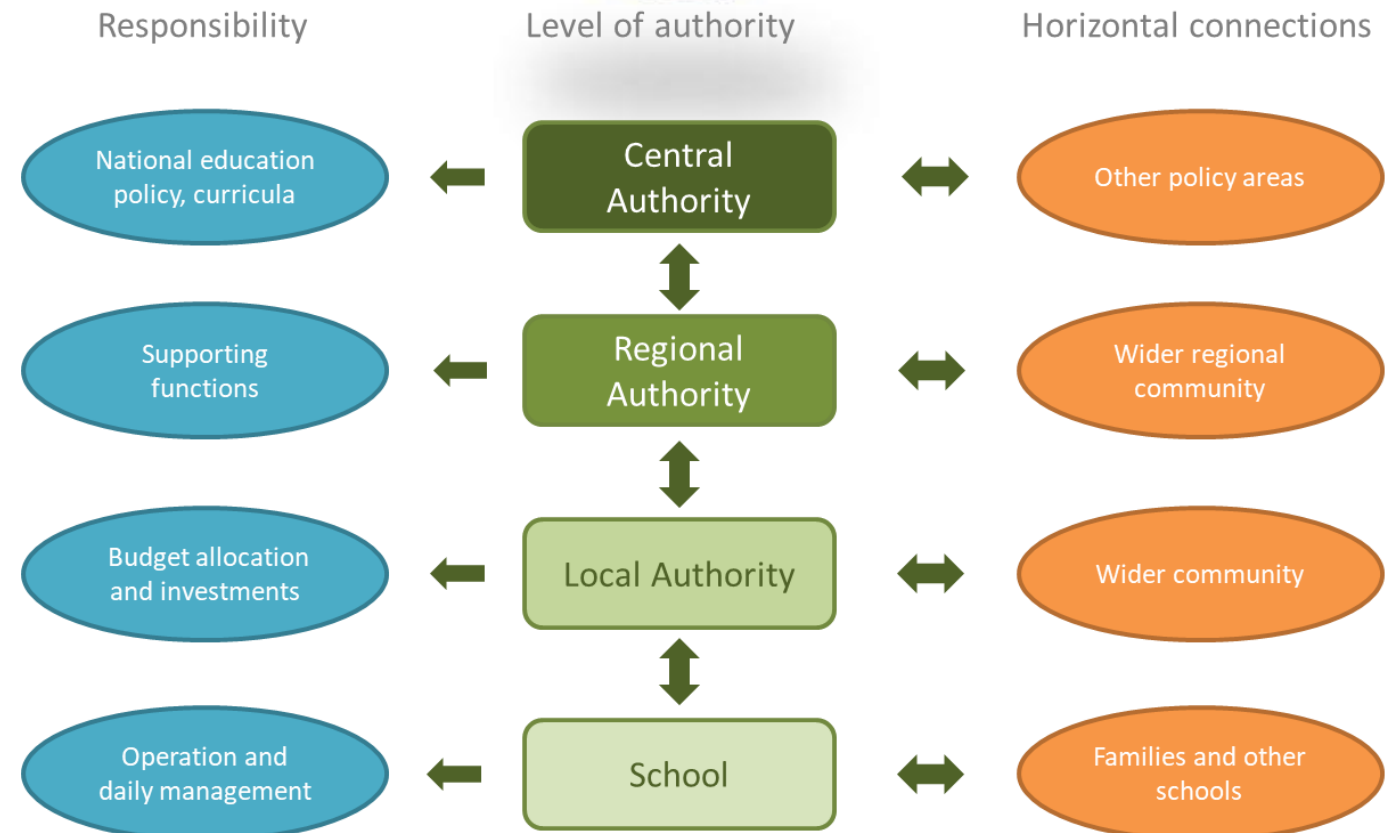
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Engaging external stakeholders



Challenge 1:
Different governance and financial structures in the six demo countries

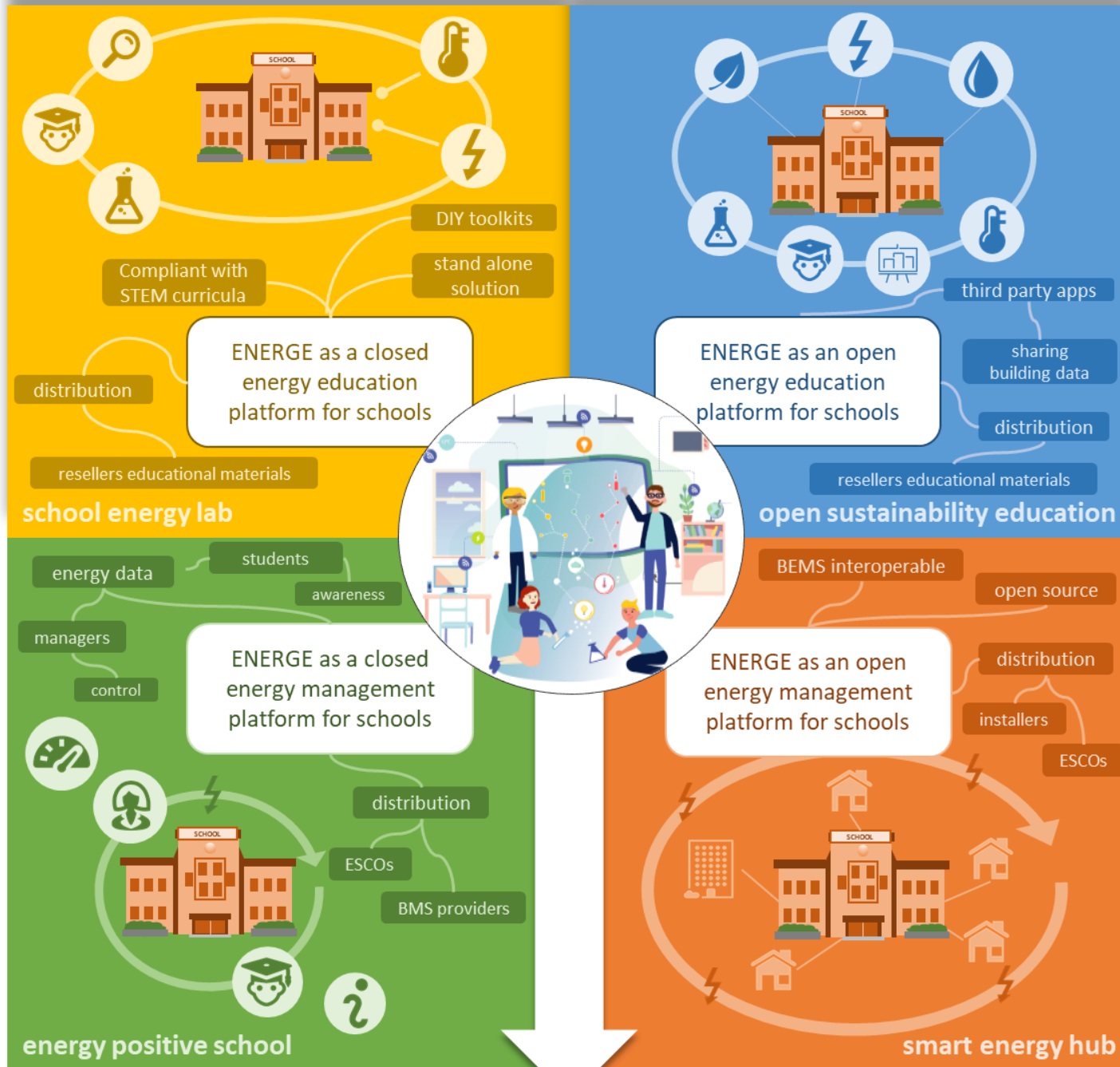
Challenge 2:
Siloed energy and education domains



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Business scenarios

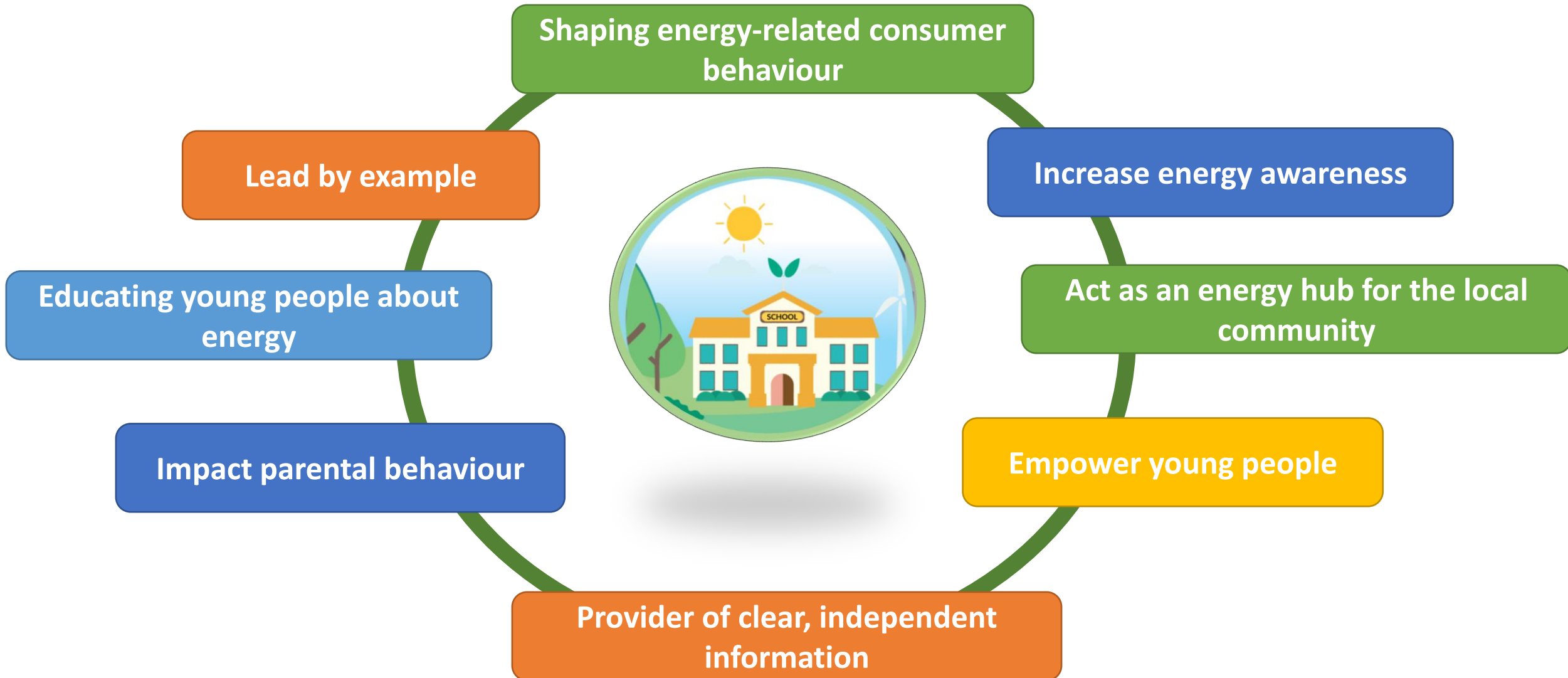
Q: How to position the ENERGE platform on the market?



Best fit with Smart City and Positive Energy District concepts

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Schools at the heart of energy communities?



Interreg



EUROPEAN UNION

North-West Europe

ENERGE

European Regional Development Fund

Thank you!



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