





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



















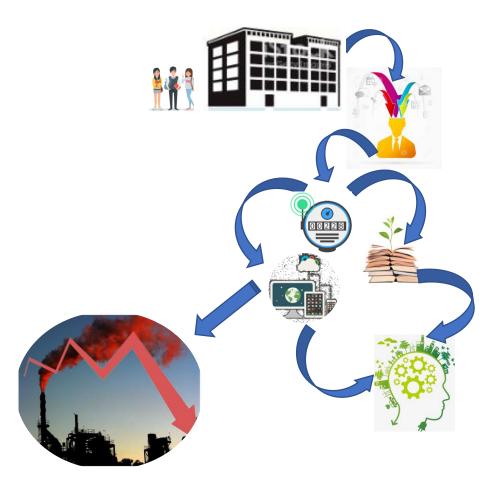




The ENERGE project

Interreg CHOPEAN UNION North-West Europe ENERGE
European Regional Development Fund

- Energizing
- **E**ducation
- To Reduce
- Green House Gas
- Emissions

























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































Our vision and mission



Our vision: A climate neutral Europe

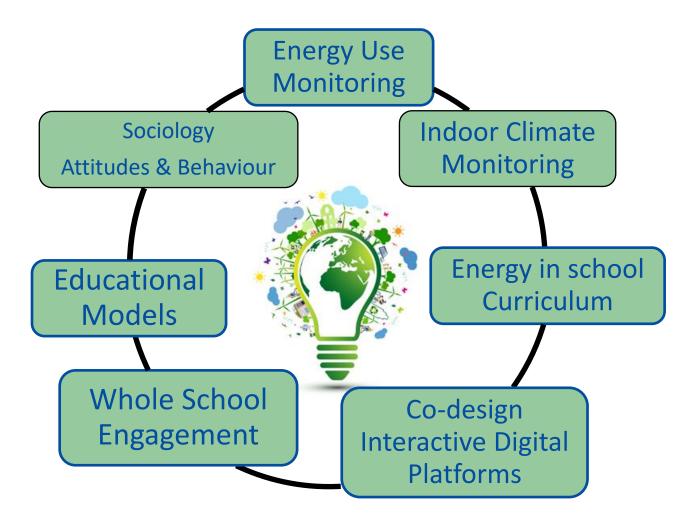
Our mission:

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

Methodology





Validated in 12 demo schools















Engaging internal stakeholders

- Students
- Teachers
- Maintenance staff
- School management



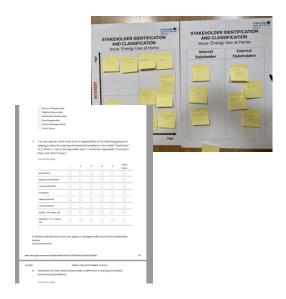


Engaging internal stakeholders

ENERGE Committees



Co-design sessions & questionnaires



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

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



Lab testing

SenseLab Experience Room



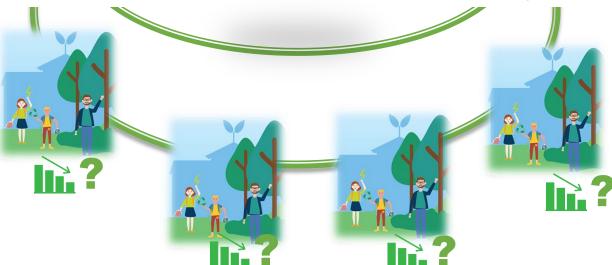
Test air, thermal, light and sound with students from the demoschools

Engaging internal stakeholders

Measuring ripple effects



Students asked to use energy diaries to measure home energy consumption



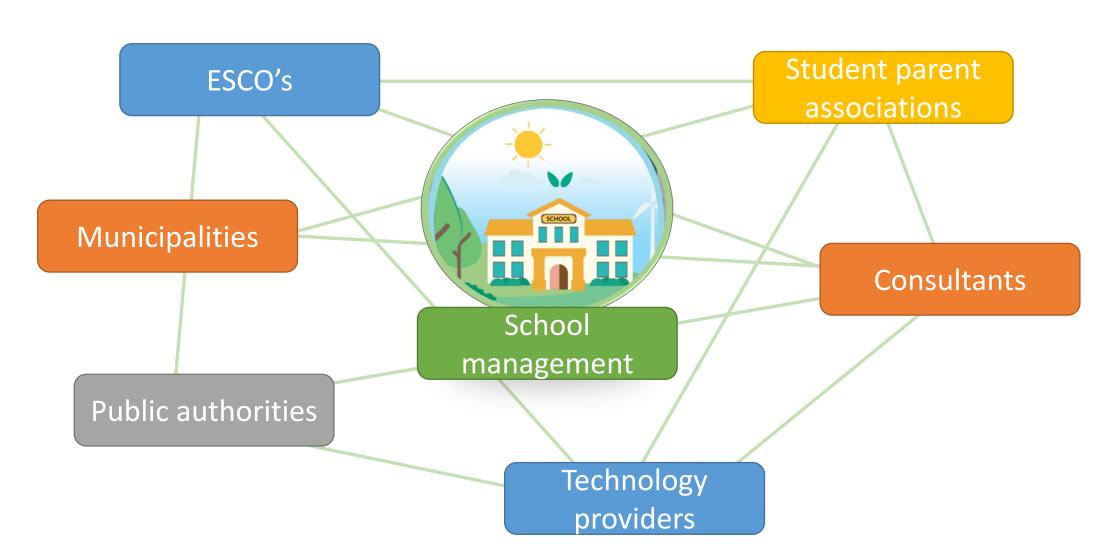






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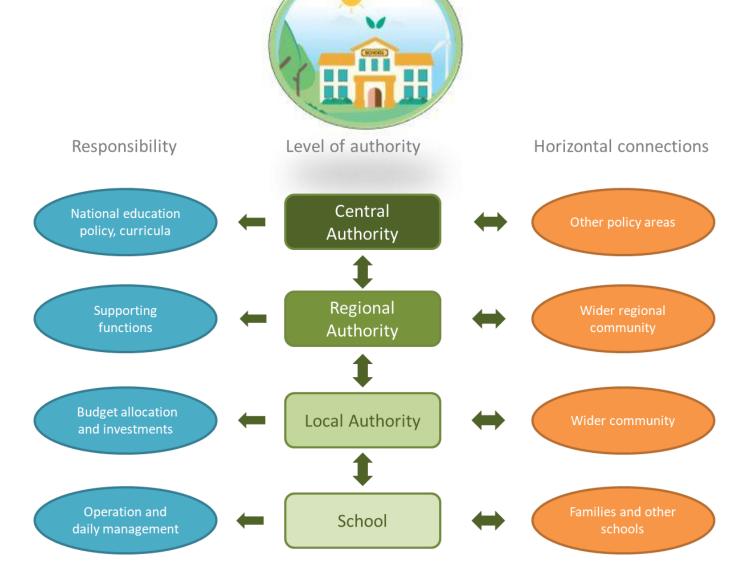
Engaging external stakeholders



Engaging external stakeholders

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

Challenge 2:
Siloed energy and education
domains



Interreg ...

North-West Europe

ENERGE

Engaging external stakeholders

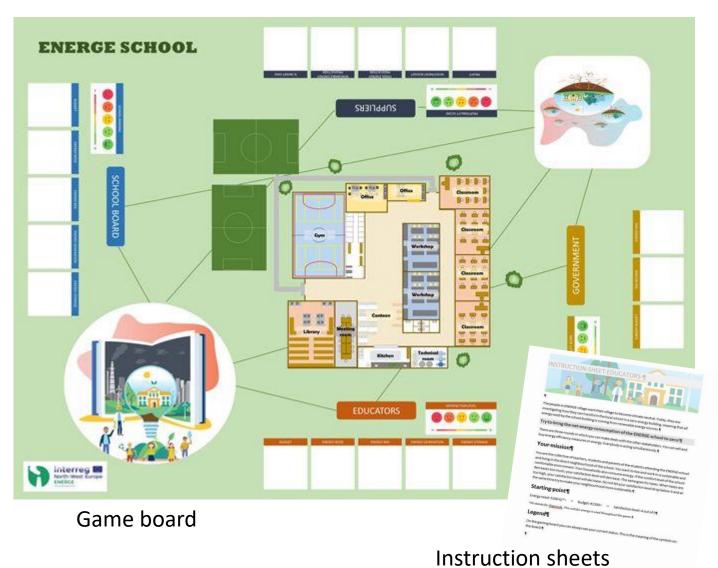
Tool ENERGE simulation boardgame

GoalFacilitate a strategic conversation

How

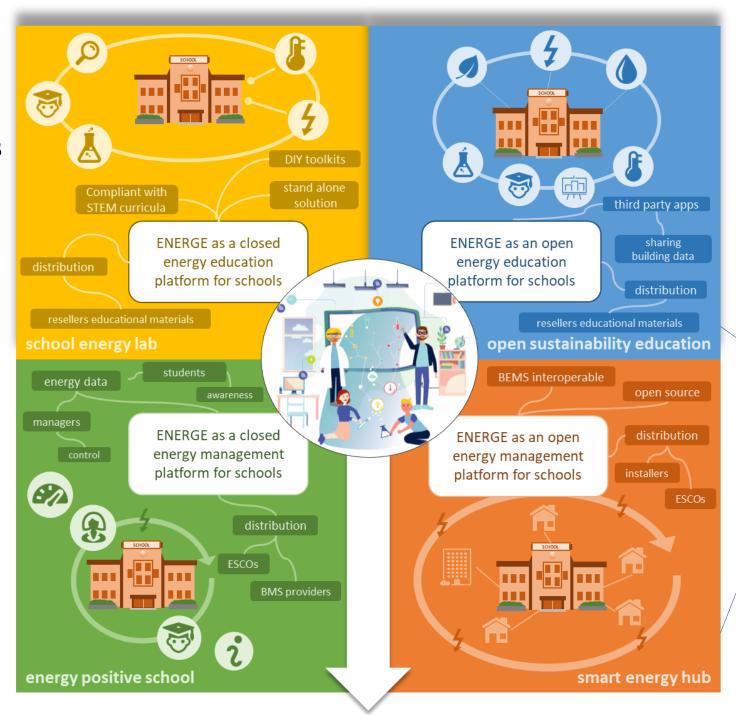
Give the participants insights in the interests and drivers of each of the key stakeholders and collaboratively develop viable solutions to make their school climate neutral.





Business scenarios

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





Best fit with
Smart City and
Positive Energy
District concepts





Schools at the heart of energy communities?

Shaping energy-related consumer behaviour

Lead by example

Educating young people about energy

Impact parental behaviour



Increase energy awareness

Act as an energy hub for the local community

Empower young people

Provider of clear, independent information



European Regional Development Fund

Thank you!





