Introducing the ReSET (Restarting Economy in Support of Environment, through Technology) Policy Support System

Communication and visualisation of model results

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Aim of ReSET

To develop Environmental Intelligence as a means of informing and testing green investments for their environmental, economic and employment outcomes, contributing to effective sustainability solutions building on the sophisticated policy support systems of PolicySupport.org (WaterWorld, Co$tingNature, Eco:Actuary) and RIKS (Geonamica, Metronamica).

But... environment, economy and employment are complex, interconnected systems. How do we model the detail but present the outcomes in a clear engaging way.
Environmental intelligence

Brings together multiple data streams (facts) from **ground-based, satellite** and **citizen** sources with cutting-edge **hardware, software and analytical technology** employing human reasoning and **machine learning** to better understand and manage the environment.
But how do we build systems for a diverse set of audiences?

- Green/Grey, net zero and post-COVID recovery investors
- Developers with active urban and rural development projects
- Impacted citizens and citizen scientists
- Farmers, landowners
- Hazard, resilience managers
- Insurers
- Conservation and environmental orgs
- Teachers and their students
Solution: different interfaces for different users

- **ReSET green Investment Policy Support System (strategic investors)**
  - A fully fledged **dynamic, spatial green investment policy** support system focused on interactive spatial analysis of baseline and scenario economic, employment and environmental status
  - Capable of calculating the environmental, economic and employment benefits of different options for green/grey investment at scales from local to European

- **//Smart: viz. and analysis interface: (problem solvers, effectiveness assessors)**
  - A web interface and API for the collection, visualisation and analysis of **FreeStation monitored data**
  - Calculates temporal and spatial indicators **from archived and real-time station data**

- **ReSETMap**: (farmers, citizens, communicators, teachers, students)
  - Simple web-map visualisation interface linking static outputs of ReSET PSS, live //Smart: data and simple dynamic spatial indicators to **answer questions** on the following in demo areas and beyond:
    - baseline environmental status,
    - impacts of current and proposed grey infrastructure,
    - benefits of current and proposed green infrastructure scenarios,
    - Opportunities for **triple-win investments** for economy, employment and environment