

P2.22 | Rapid Analytics Interactive Scenario Explorer

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- Project Participants** RMIT University
Geoscience Australia
San Diego Supercomputer Centre
- Objective** Build, apply and evaluate the RAISE toolkit: the Rapid Analytics Interactive Scenario Explorer.
- Outcomes**
 - Through initial testing in Western Sydney, the RAISE toolkit will implement cloud-based mapping technology to analyse and visualise property-level land values under different development scenarios.

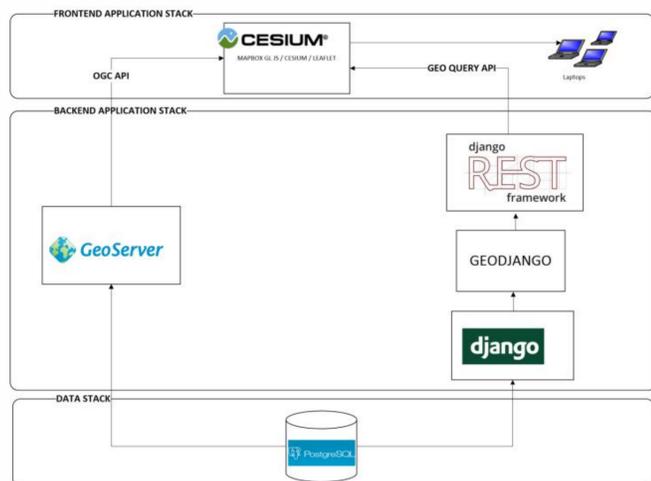
Why RAISE?

Governments and businesses have access to unprecedented amounts of information to guide their decisions: big, diverse and rapidly changing data. And they increasingly have to turn to spatial data tools to combine and process it all. But to harness collective intelligence and foster transparency in decision making, these tools must also enable that data to be analysed in collaborative ways.

One foundation of collaborative analysis is interactive scenario exploration. Interactive scenario exploration allows users to rapidly formulate and test hypotheses and options. The spatial data tools draw together and analyse the data with automated modelling; and offer immediate visual feedback on how scenarios compare with each other.

Online cloud-based back-end architecture

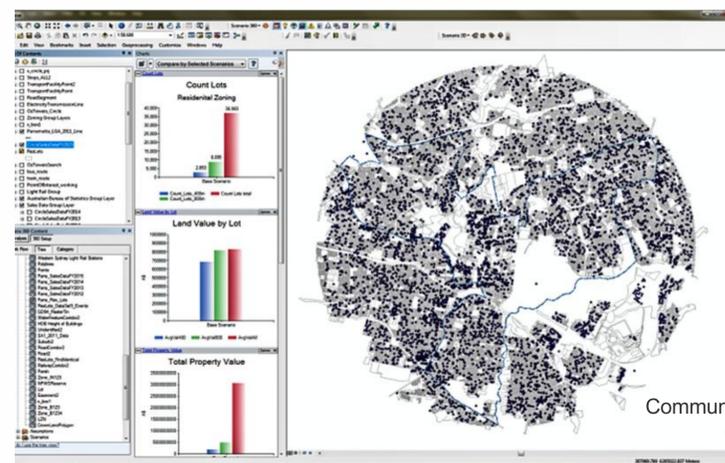
RAISE will be built on an open, cloud-based architecture, linking diverse geospatial and property data to models and visualisations.



Organisation of underlying architecture

Interactive front-end interface

RAISE will provide an interactive scenario explorer toolkit. The dashboard interface will be easy to use in a group decision-making environment. It will incorporate new visualisation techniques, support rapid feedback, and enable collaborative exploration and hypothesis testing.



CommunityViz demonstration of an early prototype

Collaborative scenario exploring techniques

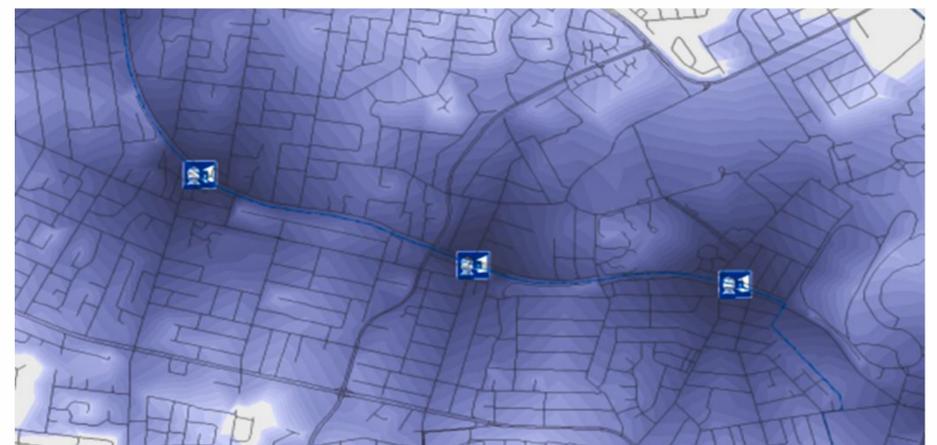
RAISE will be developed through a series of co-design workshops, to enable partner and end user feedback and direction throughout prototyping. The workshops will also demonstrate collaborative decision making techniques, which end users can employ alongside the rapid analytic and scenario exploration functionality of RAISE.

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Co-design workshop with project partners



Visualising property values influenced by train infrastructure