Underground Problem space
A common problem that costs:

**Roadworks and congestion:** road works account for 38% of the most serious and severe traffic disruptions in London: total cost £752M.

**Cable strikes:** Est 60,000 incidents per year (Cognisco 2015)

**Physical ground constraints:**
Ground risks – one of main causes of project delay (50%), and insurance claims
Crossrail2 re-routed via Balham due to geological concerns.
Access to a geological model could deliver +£160M cost-savings for London’s construction

**Water supply network:** In 2013/14, three water companies spent an additional £80 million responding to impacts of groundwater infiltration.
Leakage from the water supply network is significant due to aging infrastructure: for Thames Water’s = 641ML/d (about ~25% of daily supply).
Server side integration

- ‘Simple’ and secure sharing client/portal
- GIS access
- Photographic evidence
- 1 additional repo
- Central utility repo
- Soils/geology
- OS data
- Dynamic data (weather?)
Newcastle innovation festival outcomes

• Interoperable system architecture enabling use of data in existing system

• Requirements and business case for individual network owners as well as macroeconomics

• Data sharing agreement
Thank you!

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