

'Technology & Digital' Series

What is the National Digital Twin?

with Miranda Sharp, Director of Innovation, Ordnance Survey



WIG

The Whitehall & Industry Group
connecting the sectors

Expert Insight



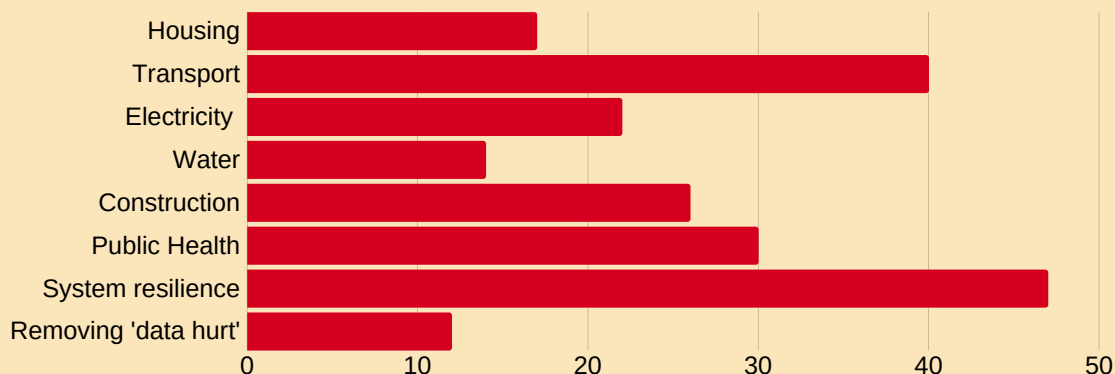
We were joined by Miranda Sharp, Director of Innovation at Ordnance Survey to discuss the National Digital Twin (NDT), in the context of her role on the Digital Framework Task Group. She touched upon points including:

- The NDT as an 'ecosystem' of digital twins, across all sectors and at a national scale, connected to allow secure data sharing.
- Intended to support more effective short & long term decision making in the built environment in the UK; by analysing the information gained by monitoring the physical system to better prepare for future events.
- For example in being able to access digital twins of gas mains, traffic flows and meteorological modelling simultaneously, use of the National Digital Twin system could flag risk areas in flood defences e.g. a weak bridge whose collapse would endanger crucial service delivery.

Cross-sector Opinion

Over 100 attendees from the breadth of our cross-sector membership listened in, we asked them:

Where are the biggest potential gains from a set of connected digital twins?



Our Members' Questions

Our members raised some challenging questions the implications and opportunities presented by the national digital twin project, some of the big issues raised included:

- How to effectively tackle data protection and cyber security challenges, and the use of technologies such as blockchain in this space.
- The role of the private sector in driving uptake, and possible need for government leadership.
- The necessity of standards to facilitate collaboration across digital twins,
- The impact of national digital twin project on the development of autonomous vehicles and transport systems

WIG members can listen to Miranda's presentation [here](#)
to see our full program of webinars visit www.wig.co.uk