

UK COLLABORATORIUM FOR RESEARCH ON INFRASTRUCTURE & CITIES Inspired infrastructure for better living



National Buried Infrastructure Facility

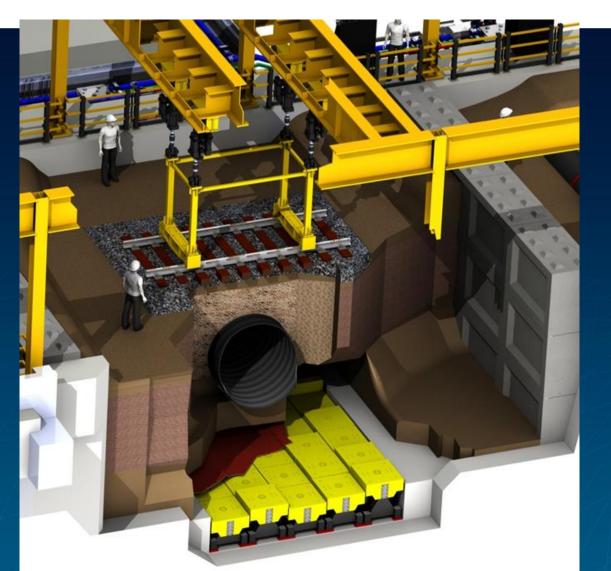
17th May 2022

Chris Rogers (University of Birmingham)

Moveable Floor System





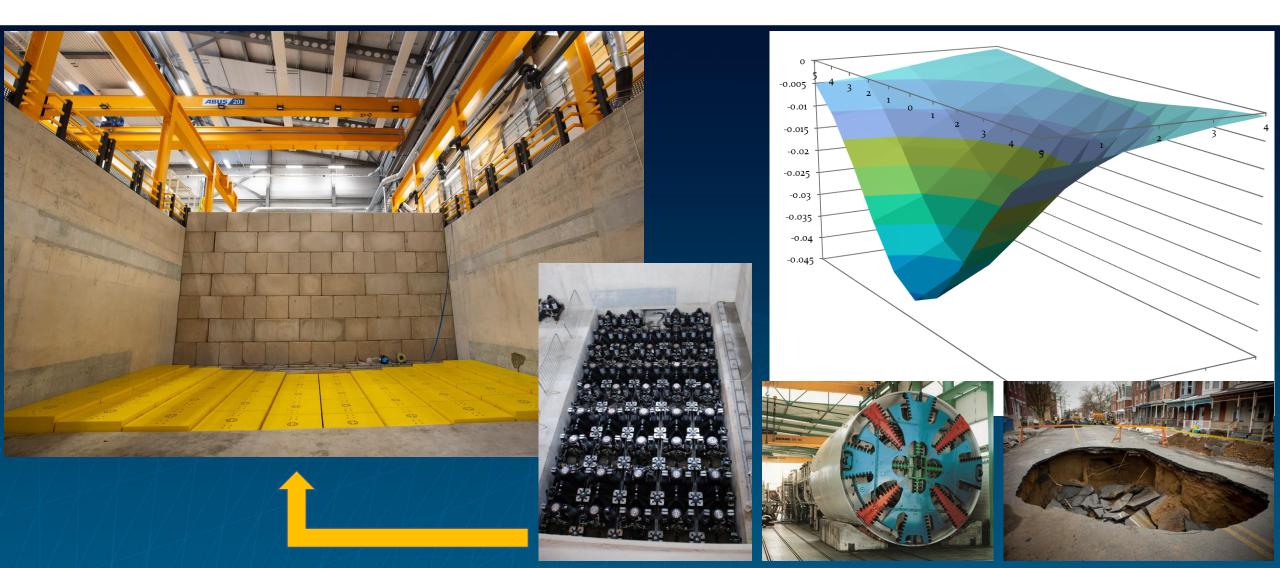


- One of a kind system
- Simulate ground movement
- Monitor impact on surface and subsurface structures

Moveable Floor System







Filling a section of the pit







Quantum Gravity Sensor in NBIF







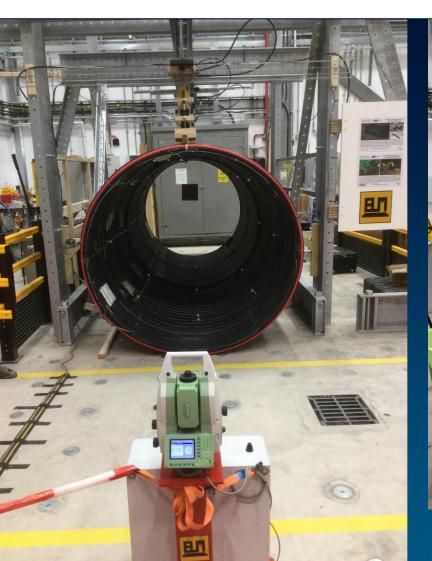














Replacing prism targets with optical fibres







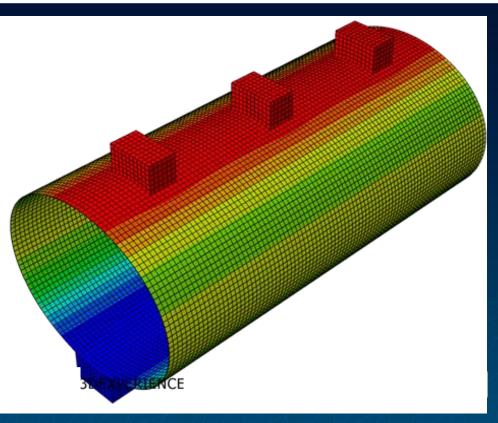


Next Steps – Digital Twins

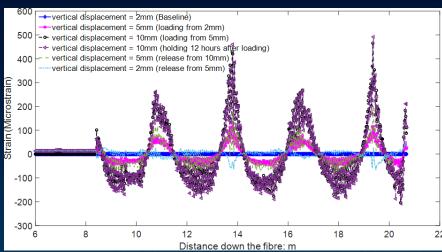


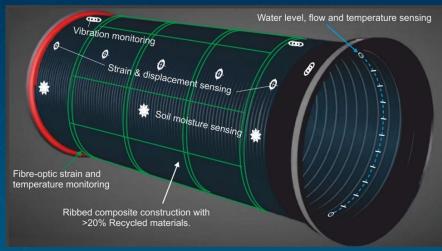






... to better understand the performance of the infrastructure, but also sense their surroundings...



























GEOTECHNICS



YORK









Everywhere you look"



















JACOBS

























altran





















sig









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