## Incremental Virtual Prototyping for Performance Based Design and Life Management of Infrastructure

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## **Vision**

Replicate infrastructures using virtual models

 Virtual rapid prototypes will be used for conceptual and detailed designs supported with advanced geotechnical and structural computational mechanics and performance assessment techniques

 Virtual models will be incrementally built and updated to maintain parity with the as-built during its whole life cycle

Virtual models will be used as the experimental test-bed
(e.g. to assess resilience, performance against new situations and change of use)

