



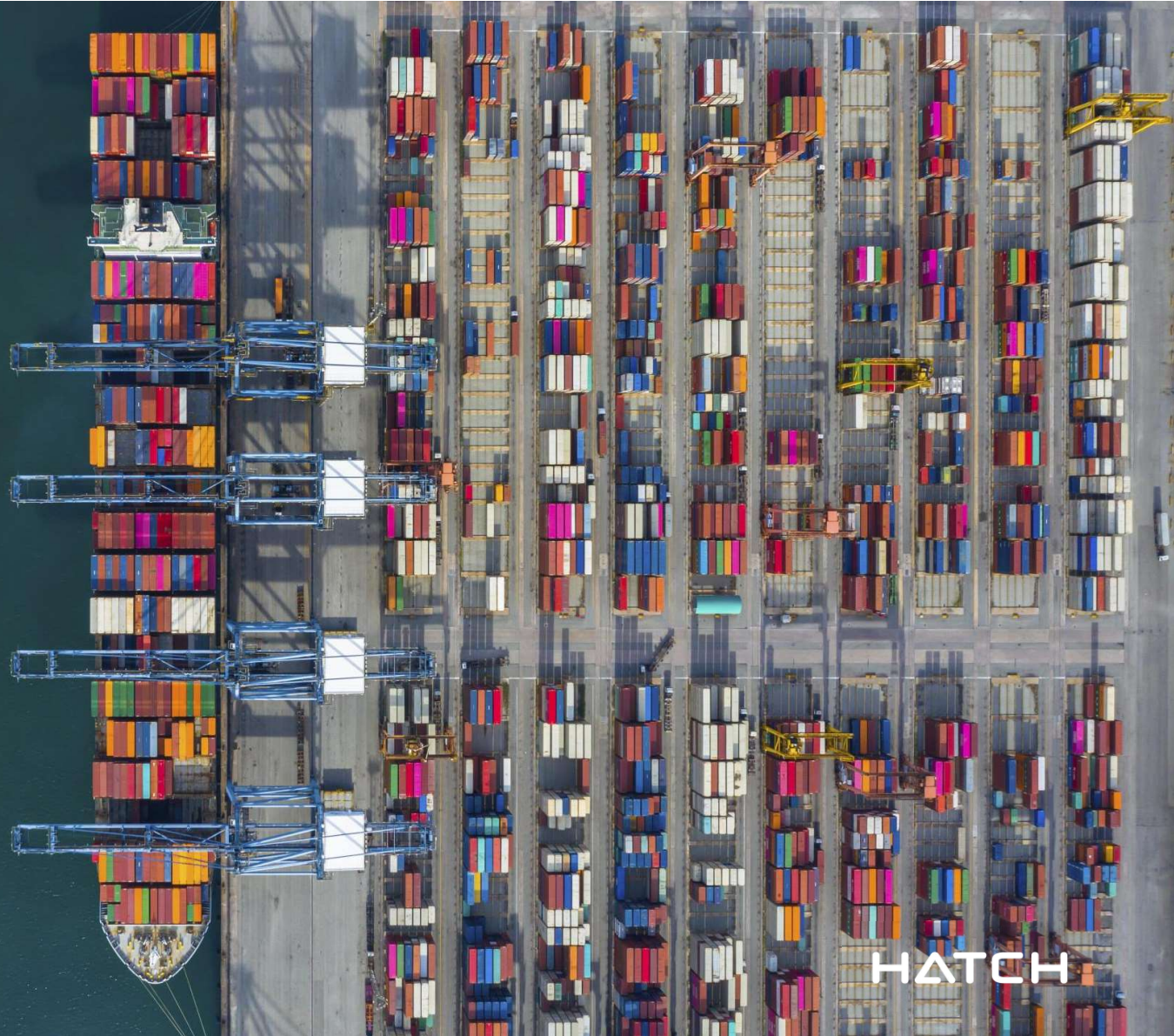
# Port Master Planning 2.0

PIANC APAC | 28 August 2024

**HATCH**

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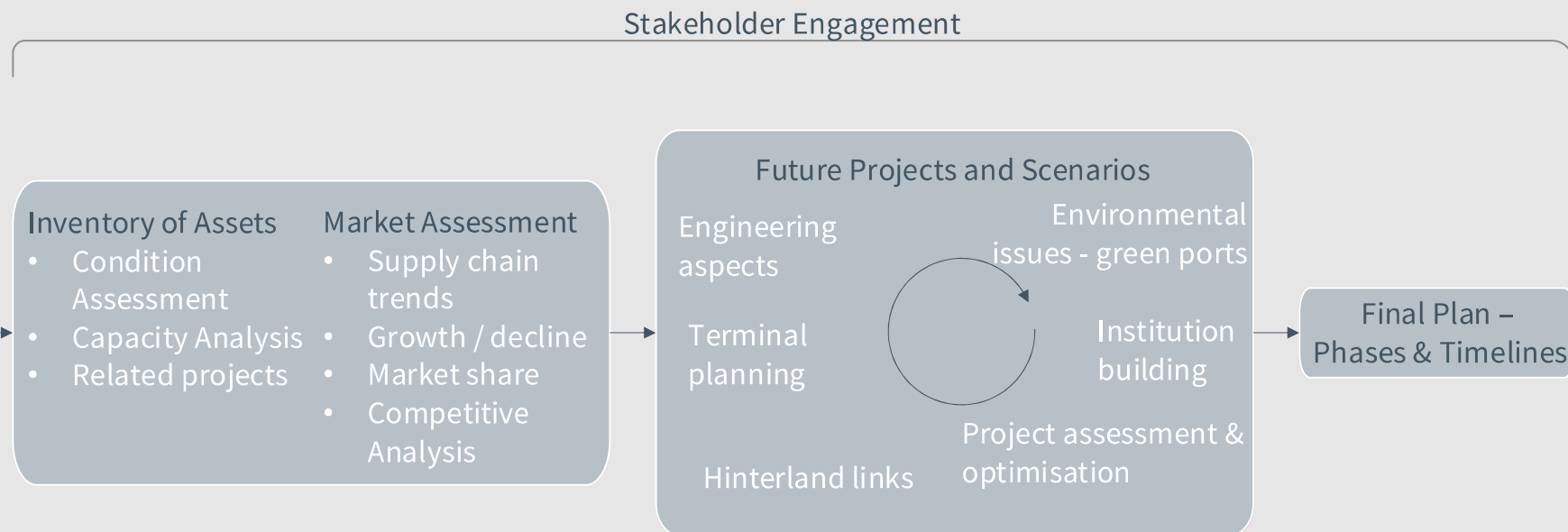


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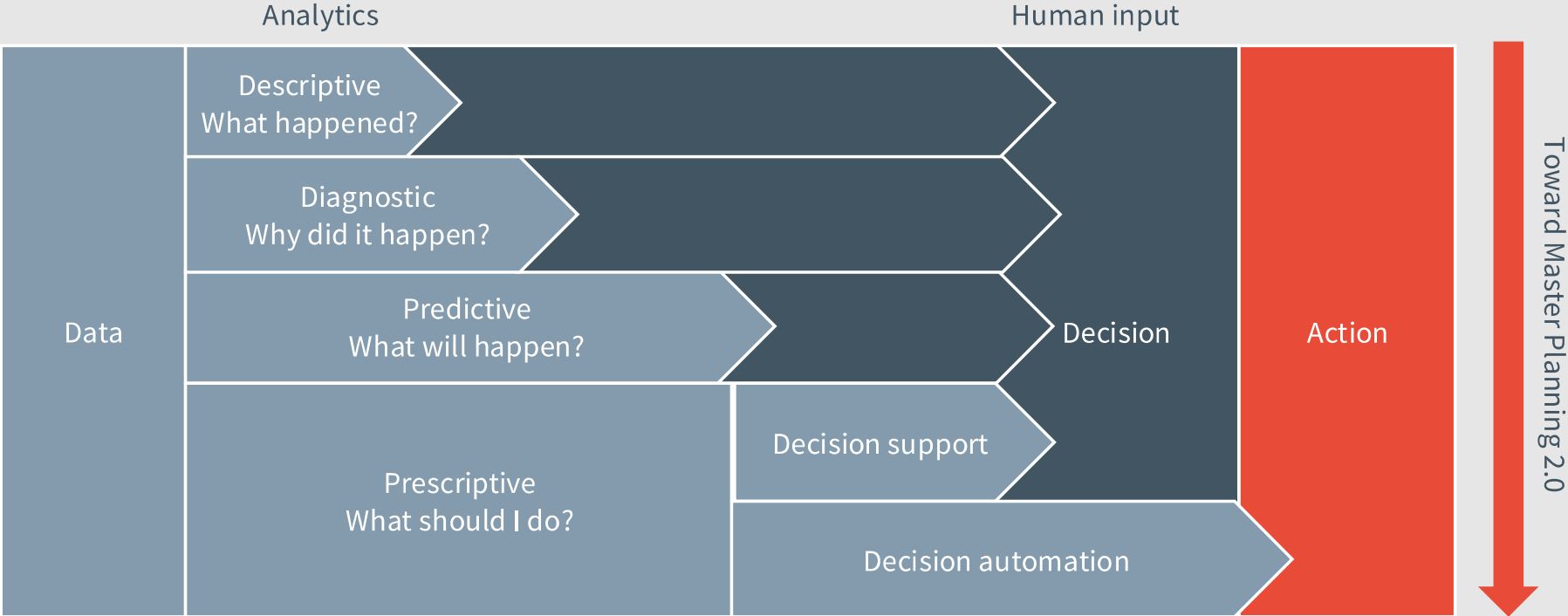
# Introduction

- + Master Planning 2.0 relies on a set of digital and dynamic tools that collect, manage and analyse historical and real-time data
- + World is increasingly collecting data, Master Planning 2.0 extracts value from it
- + Progression of advanced technologies will enhance the capability to analyse and form predictions from large and complex data sets
- + Empowers ports to make well-informed decisions by gaining a holistic understanding of their functional reality

# Traditional Master Planning Process

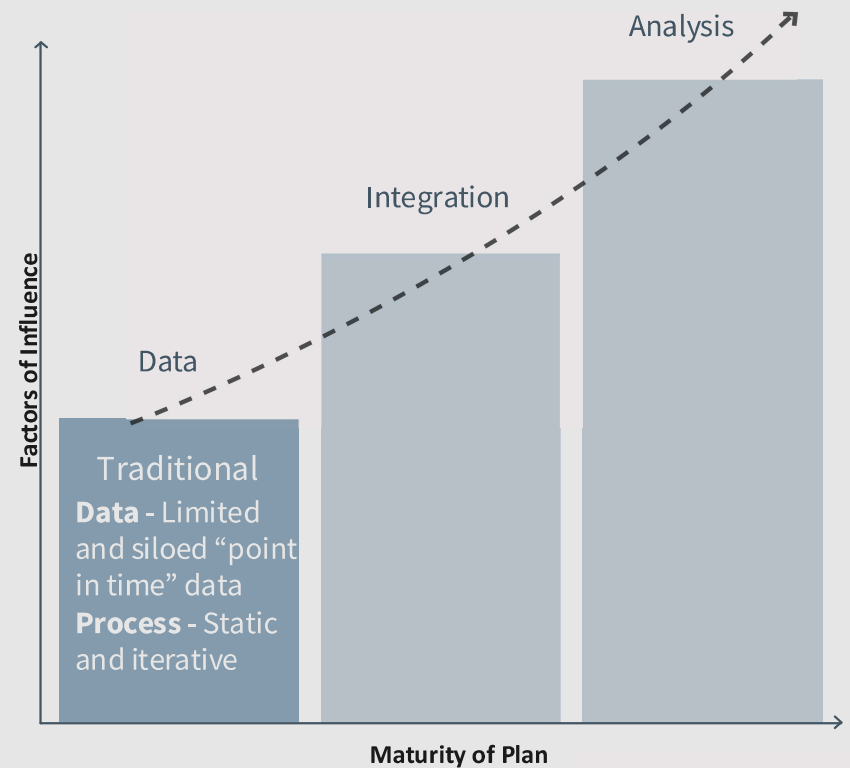


# Roadmap to Master Planning 2.0



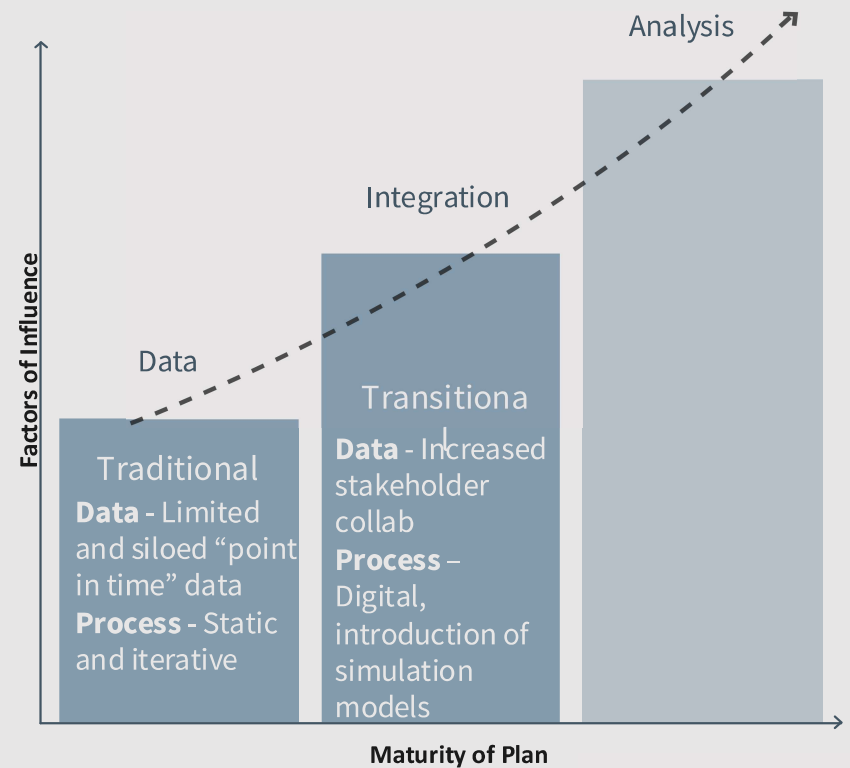
# Transitioning to Master Planning 2.0

- + Limitations to the Traditional Master Planning process:
  - Human analytical capability
  - Static process
  - Input data sets size



# Transitioning to Master Planning 2.0

- + The transition is being enabled by industry embracing:
  - Digitalisation
  - Collaborative planning
  - Community engagement



# Transitioning to Master Planning 2.0

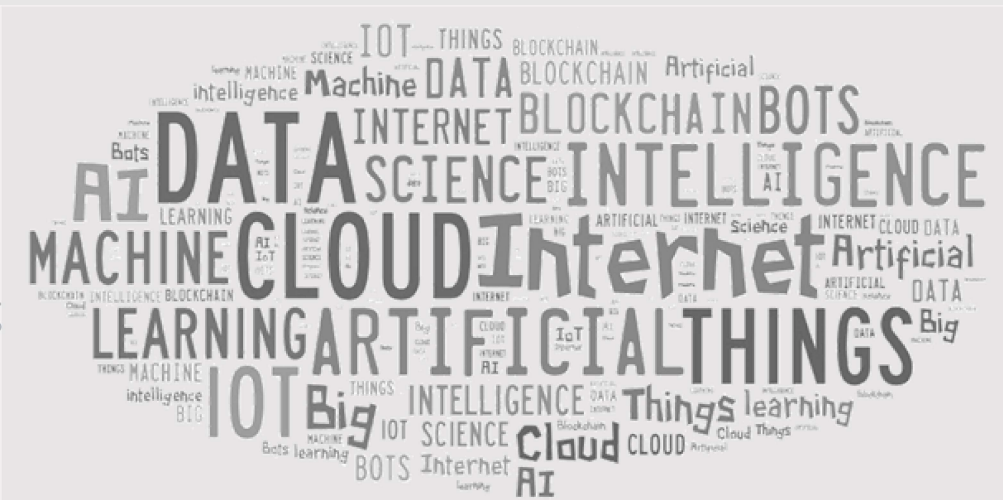
- + Themes of the World Ports Sustainability Program :
  - Digitalisation
  - Infrastructure
  - Health, Safety & Security
  - Environmental Care
  - Community Building
  - Climate & Energy
- + Sustainability goals become integrated parts of Master Planning 2.0





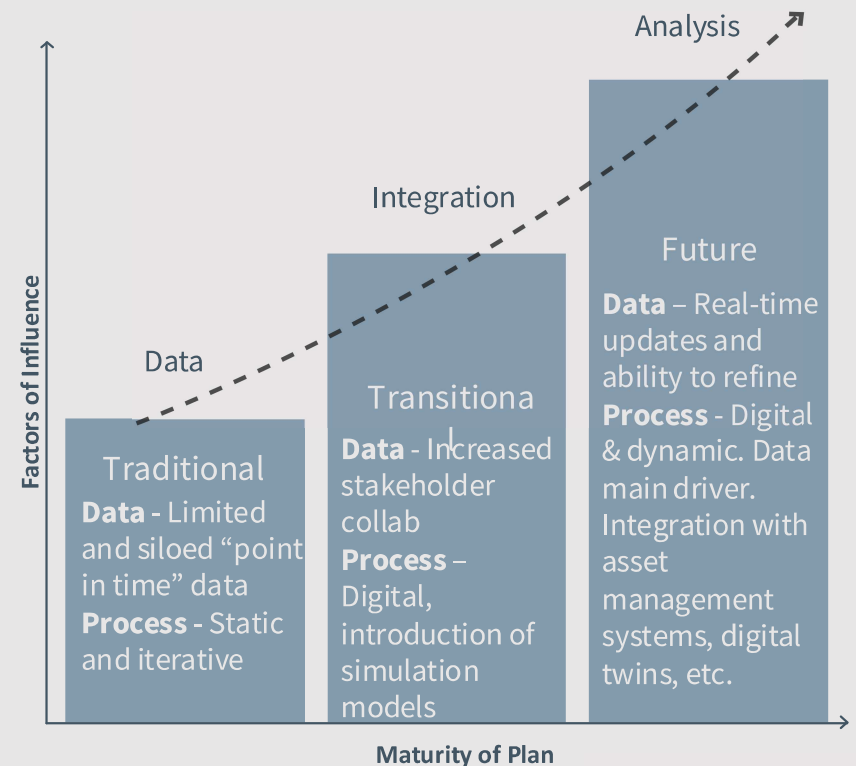
# Master Planning 2.0

- + The Strategy – Connect, Collect, Analyse and Act:
  - Strong connections between port and stakeholders
  - Collection and convergence of data from sources throughout a complex physical system
  - Data becomes the currency of Master Planning
  - Data used to understand the past – historians, visualisations, dashboards, reporting, etc.
  - Data and models allow simulation to produce predictions of future outcomes

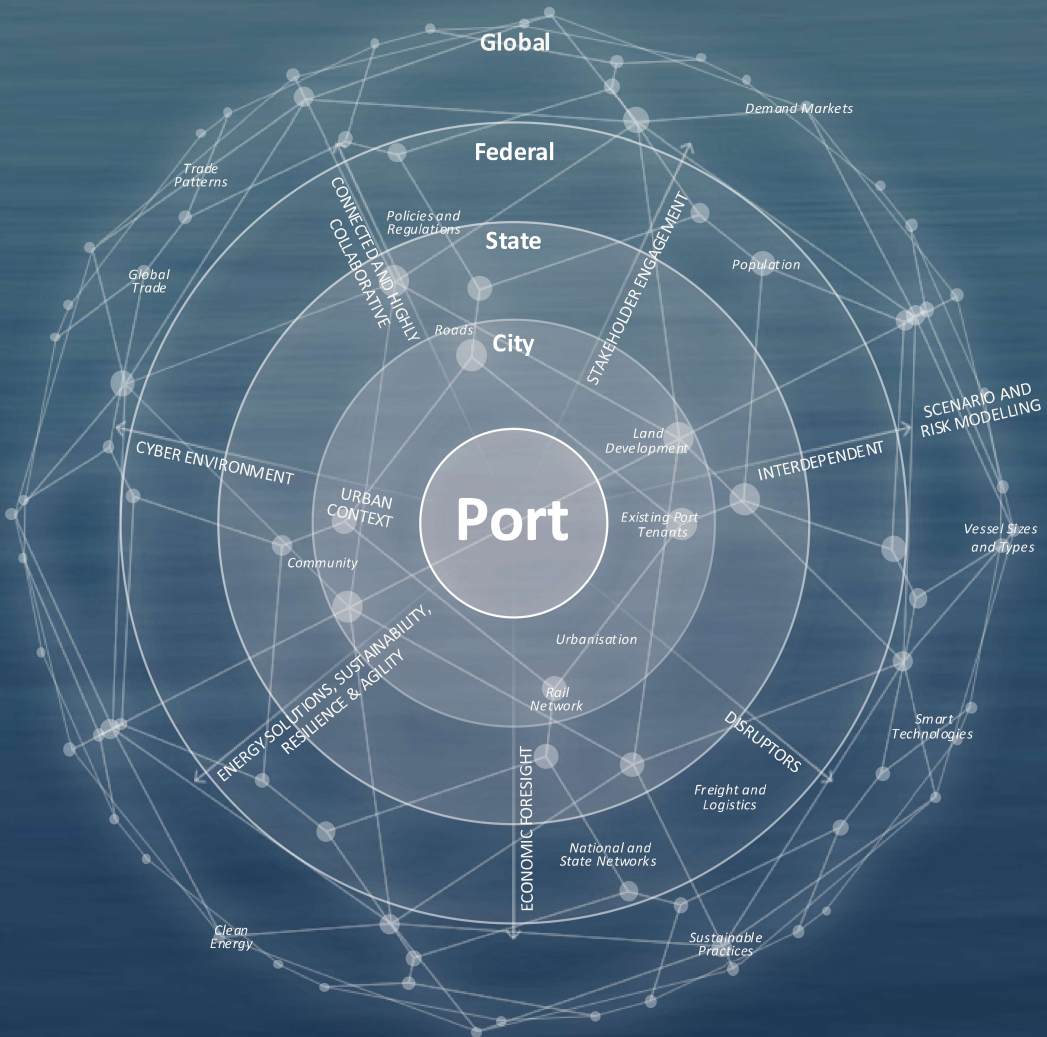


# Master Planning 2.0

- + The Strategy – Connect, Collect, Analyse and Act:
  - Leverage advanced technologies to create a digital twin of the port
  - Model that continuously rerun interconnected scenarios
  - These predictions allow evidence-based decision support
  - Master Plan becomes dynamic and transformative rather than static and intermittent



# Master Planning 2.0



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Thank you.

For more information,  
please visit [www.hatch.com](http://www.hatch.com)