



Beyond Smart to Sentient Port Cities

Clear focus in complex futures



The Butterfly Effect

One small change can
reshape an entire Port City.



Enabling the shift to Sentient Port Cities

Optimized Land Use Planning

Integrated Transportation Systems

Environmental Sustainability

Economic Synergies

Community Resilience

The Planning Problem

Master plans are out of date the day they're approved

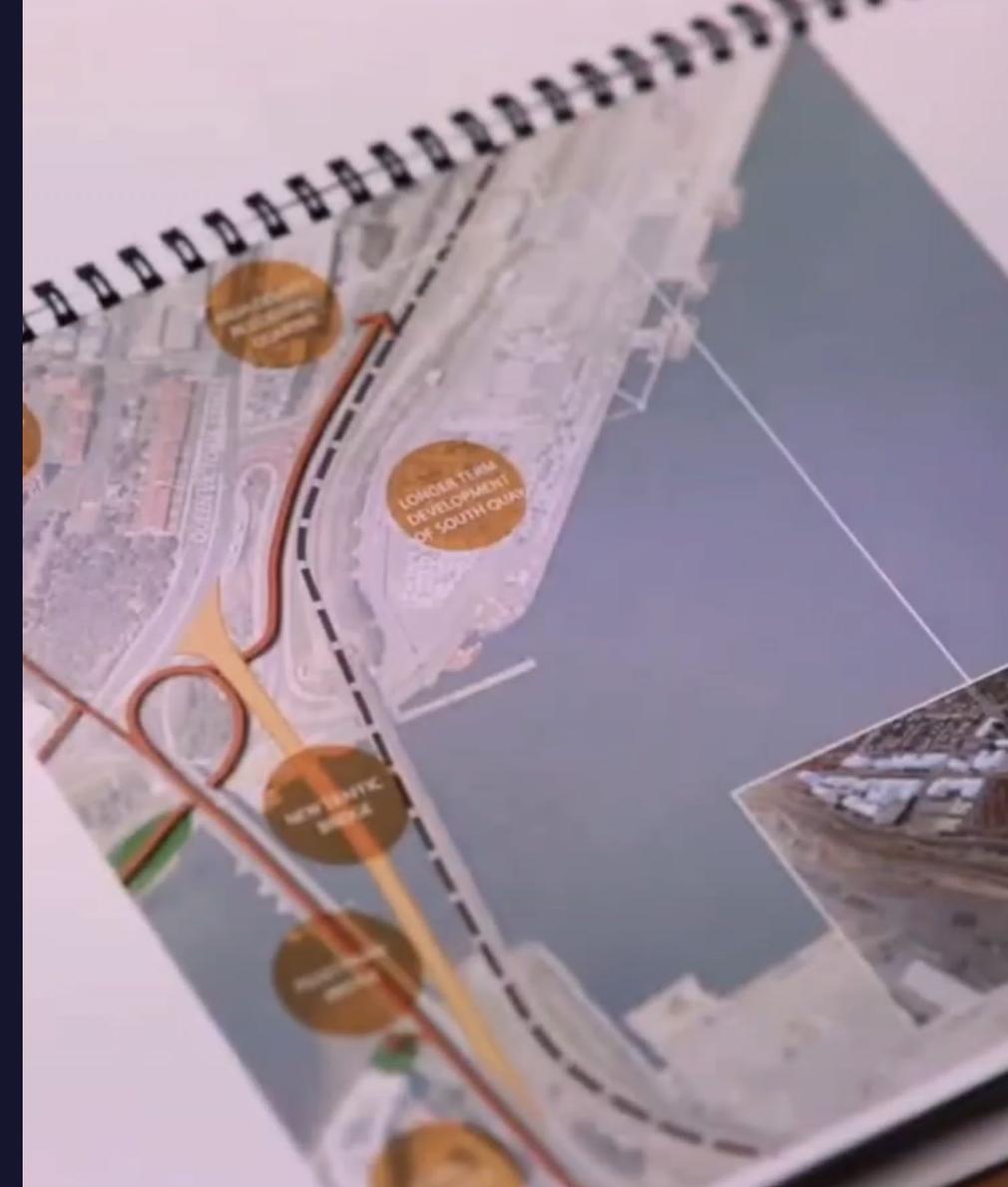
Multiple Master Plans - Unlinked

Multi-billion-dollar investments rely on static, siloed plans that cannot adapt to changing realities like climate, population, and energy shifts.

The result?

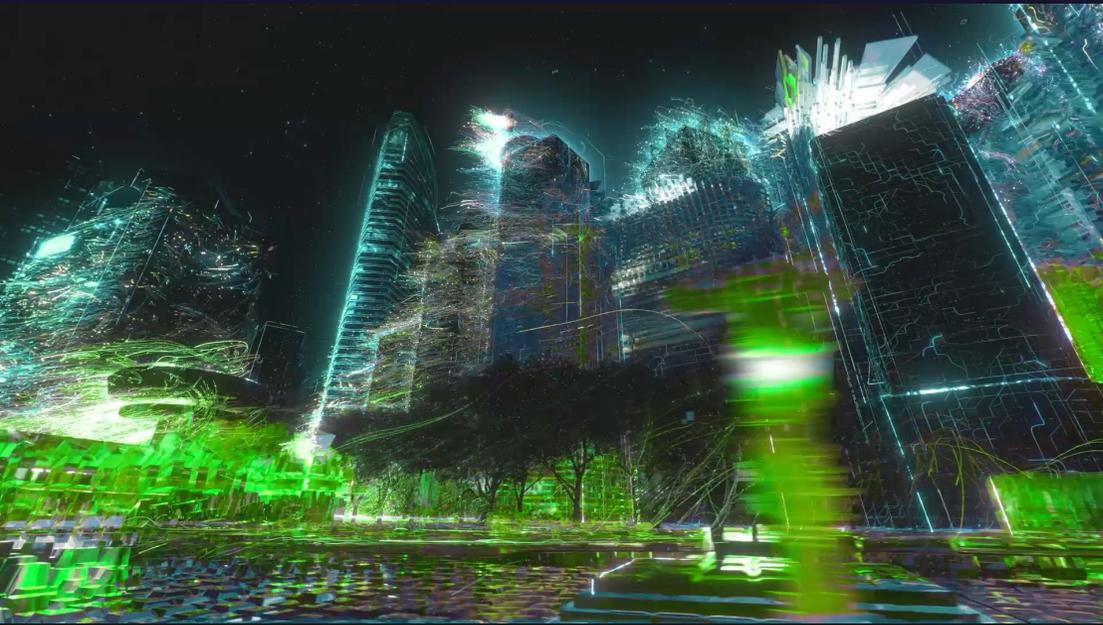
Outcomes we didn't see coming.

Calls for live 'Master' master plan



Beyond Smart to Sentient Port Cities

Smart reacts. Sentient anticipates



- Anticipate future outcomes
- Optimize capital allocation
- Test poly-crisis resilience

The next evolution beyond digital twins is here.



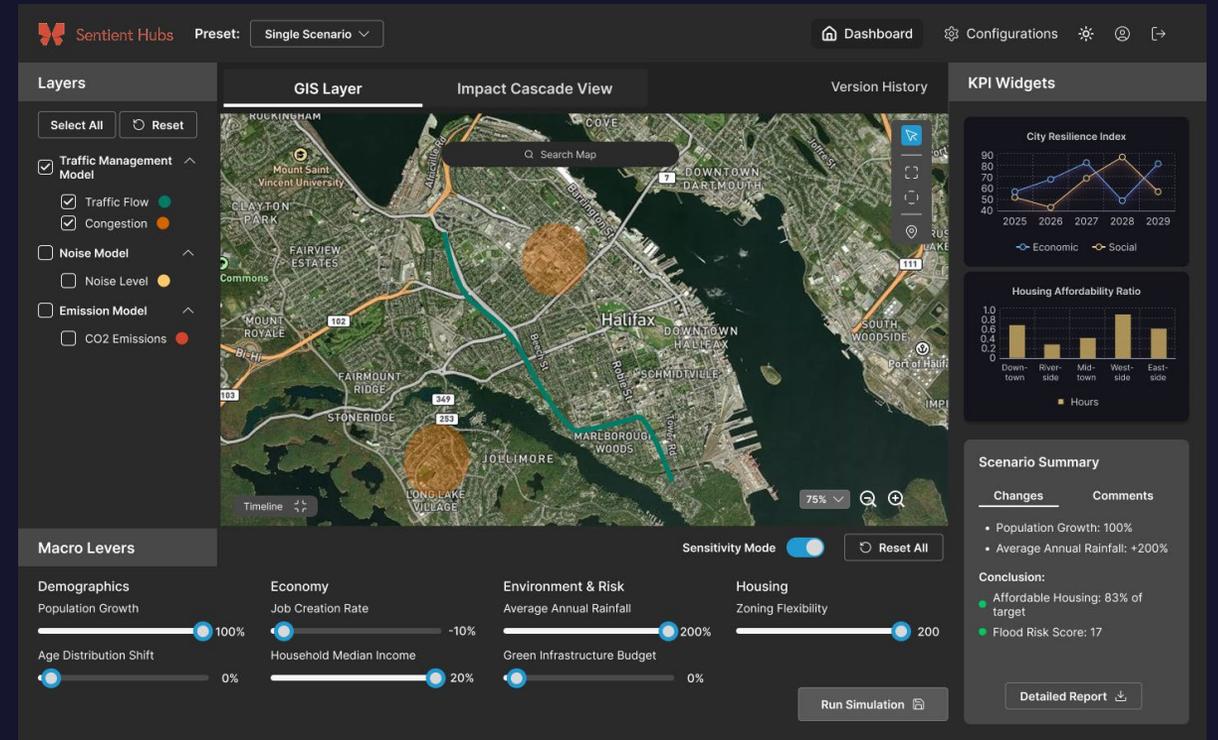
Sentient Port Network

Anticipate outcomes in your Port City

City-wide scenario modelling
Live, holistic city-wide view

Dynamic Master Planning

Interactive, Updatable, Stakeholder Friendly



See future impacts on the city

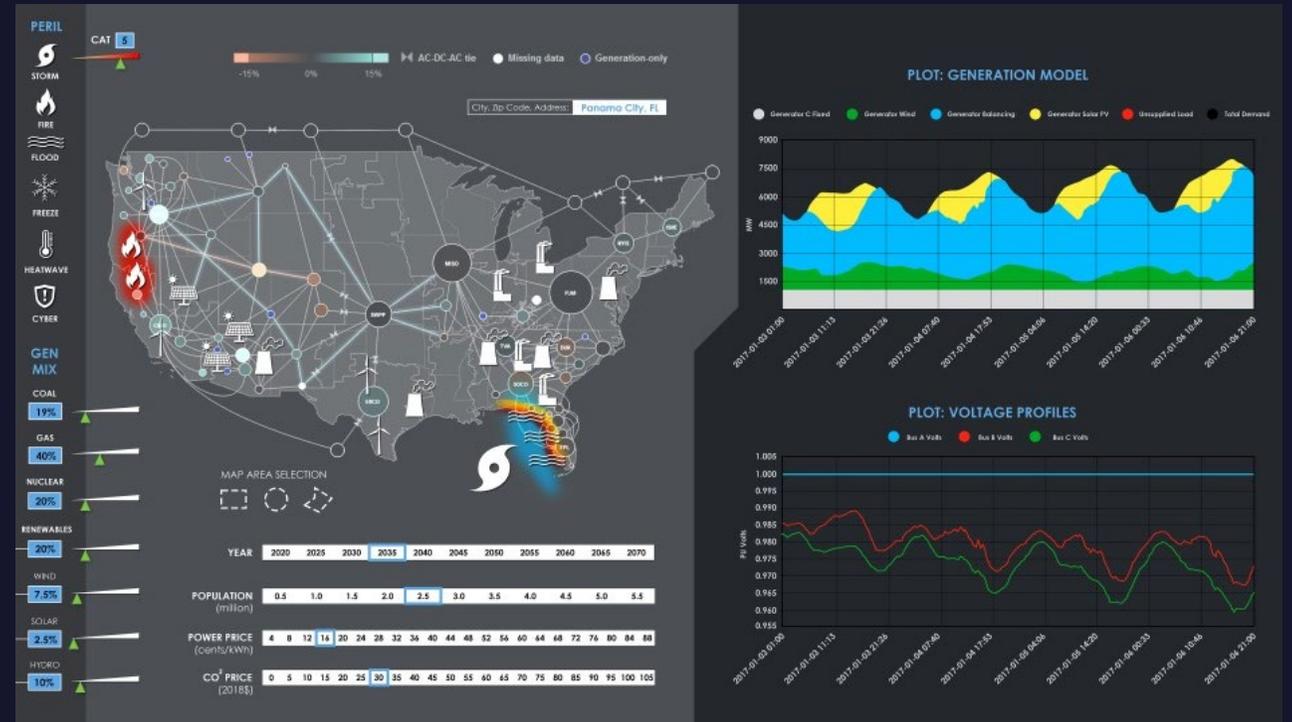
Simulate unintended consequences

Optimize capital allocation

Test and measure impact of proposed policy changes

Anticipate unintended consequences

Model Energy Transition Impacts vs Spend Poly-Crisis infrastructure & service resilience



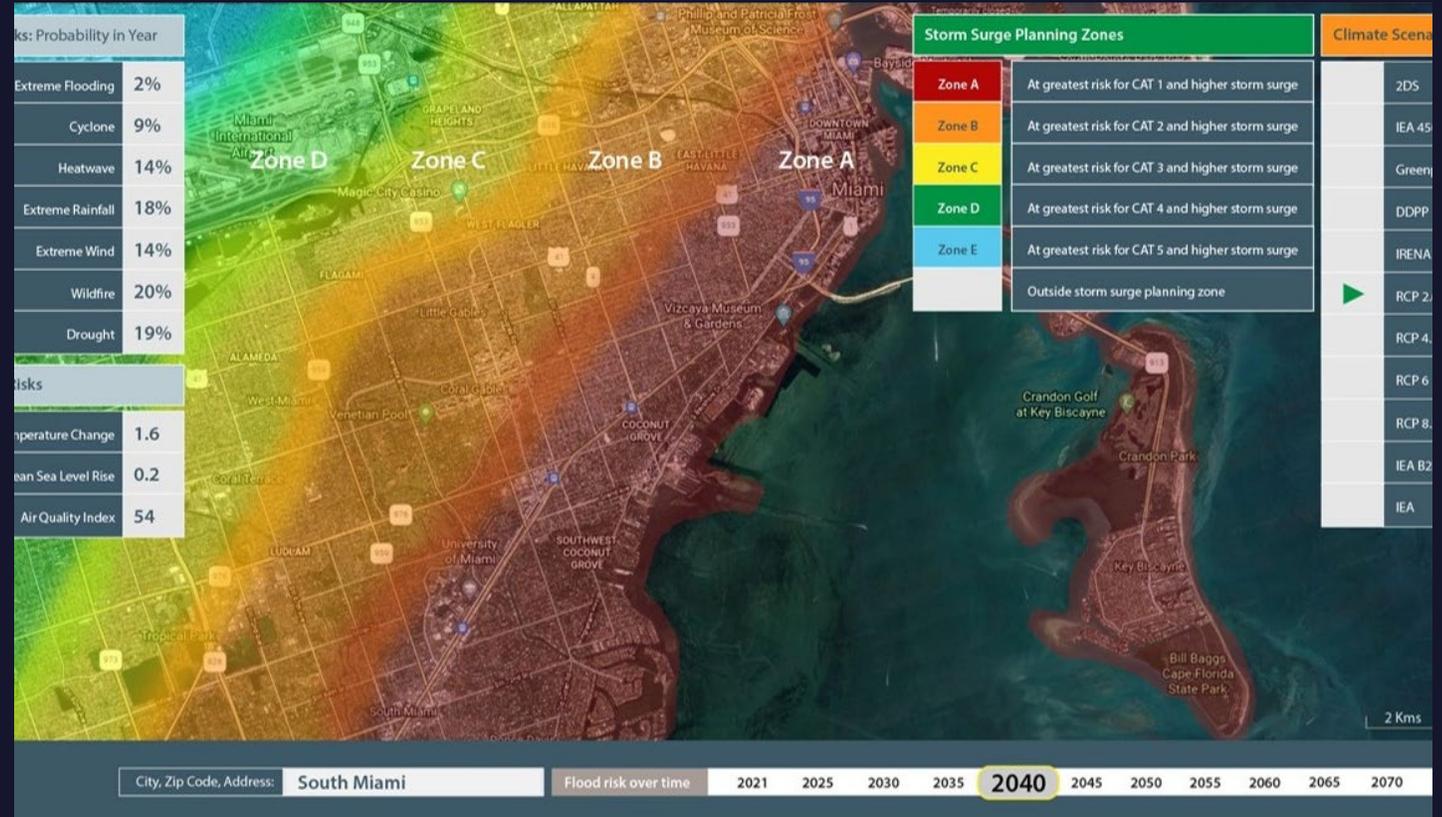
Test poly-crisis Resilience

Equip your team with easy-to-use climate impact modelling tools

Harness valuable IP held by 'solo' experts

Climate Risk vs City Resilience vs Approvals

Localized, On-Demand, Cost Effective

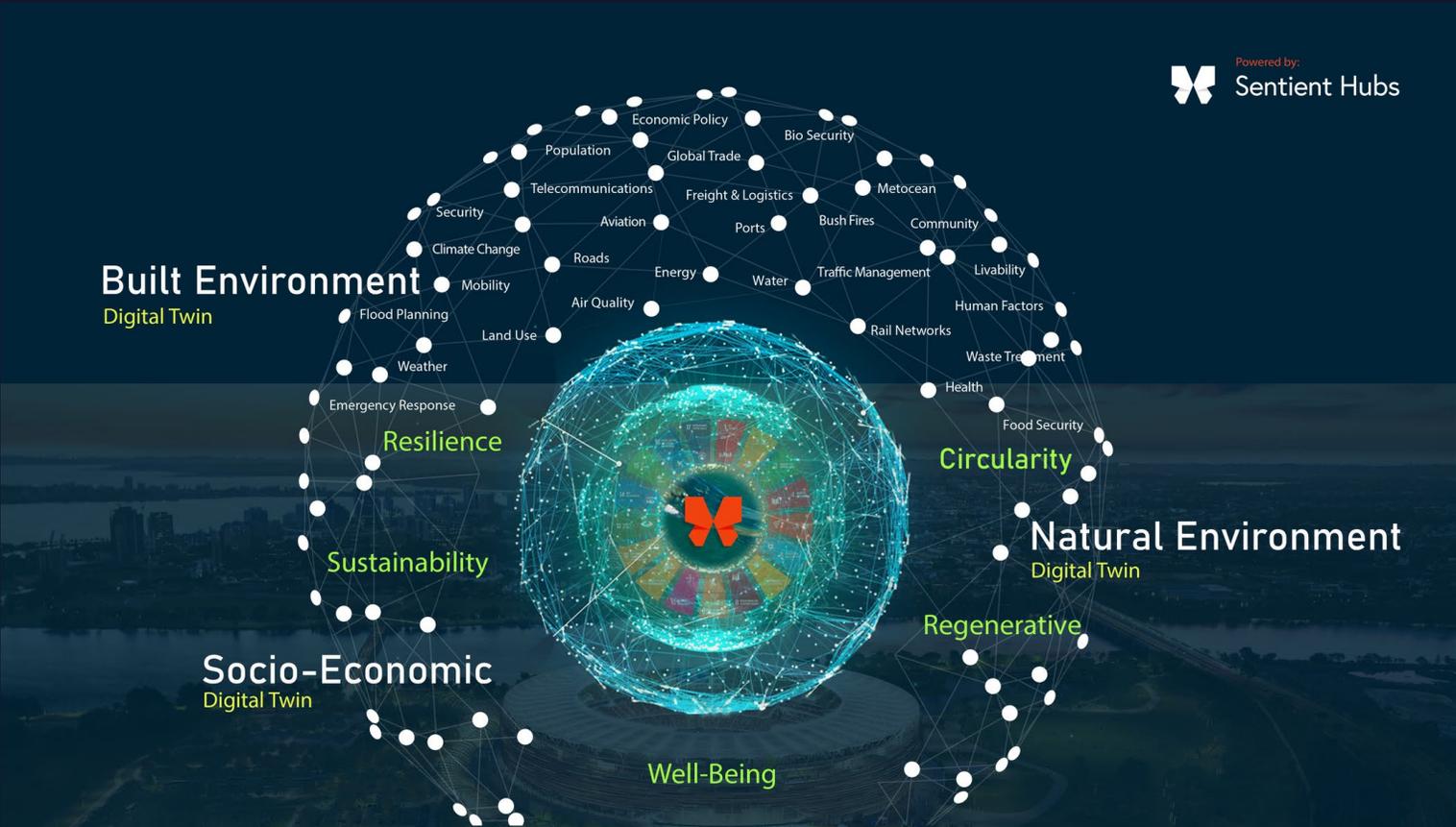


Holistic View: Built, Natural, Social.

See the Big Picture

See your port city as a 'system-of-systems'

Connect trusted models and diverse data sources



Collaborate without losing control.

 Proponent 1
 **Port Development**



 Proponent 2
 **Urban Precinct**



 Proponent 3
 **Desalination Plant**



 Proponent 4
 **Mine Extention**



 Proponent 5
 **Wind Farm**



Federated Data Sharing

Across Agencies, Proponents & Regulators

Cumulative Impacts on Port City

Holistic What if? Scenarios

Policy Outcome Modelling

Insights are shared.
Data stays sovereign.

 **Environment** Private Zone

-  • Holistic 'Sentient' Awareness
• What if? Scenario Modelling



 **Transport** Private Zone

-  • Holistic 'Sentient' Awareness
• What if? Scenario Modelling



 **Water** Private Zone

-  • Holistic 'Sentient' Awareness
• What if? Scenario Modelling



 **Electricity** Private Zone

-  • Holistic 'Sentient' Awareness
• What if? Scenario Modelling



 **Housing** Private Zone

-  • Holistic 'Sentient' Awareness
• What if? Scenario Modelling



Why?

Short-Term (1-3 years)

- 15-20% improvement in operational efficiency metrics
 - 25% reduction in planning cycle times
 - 30% increase in stakeholder satisfaction

Medium-Term (3-7 years)

- 40% improvement in environmental performance indicators
 - 35% increase in economic development metrics
 - 50% reduction in emergency response times