

Innovation Pathways

*"Setting the enabling
environment to stimulate
urban innovation"*

UrbanDNA
innovate incubate accelerate

Graham.Colclough@UrbanDNA.eu

+44 771 031 3944



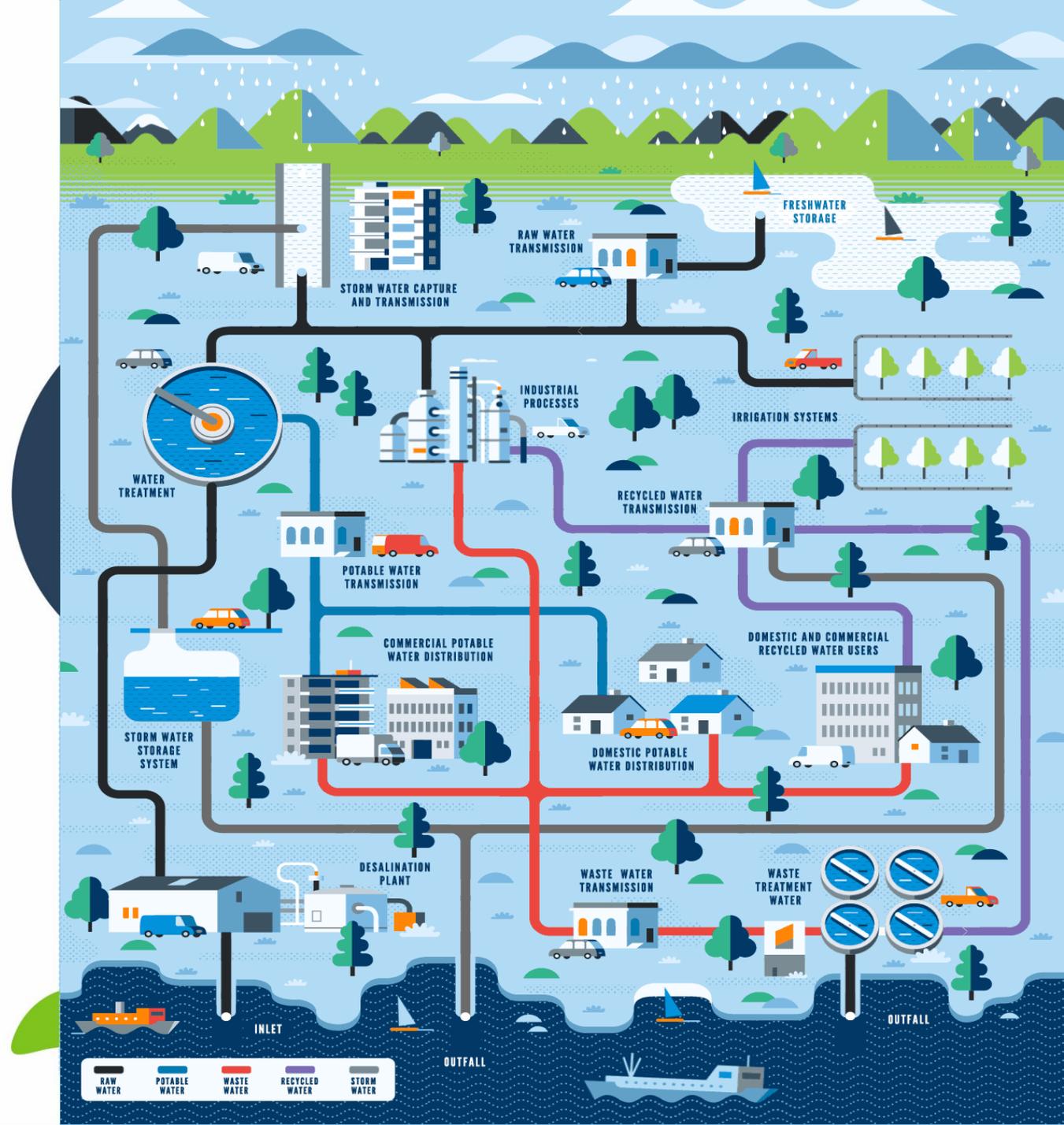
Two Hypotheses

Innovation does not occur by happenstance – it requires nurturing

nurturing

... & ...

Water systems are no different to many others if one seeks to stimulate innovation



The challenges of innovation rest in the systemic nature of cities

- Water systems are a city 'lifeline'
- Deeply interdependent with other systems
- Digitisation offers efficiency and innovation potential
- So too, new sustainable equipment & technologies

→ **HOWEVER, INNOVATION IS CONSTRAINED**
WHY? ... & HOW TO RESOLVE?

2 Leadership & Governance

General Enablers

- Policy Regulation & Legislation
- Societal Insight, & Participati
- City-Wide Planning ●
- Sustainability & Resilience ●
- Asset Stewardship ●
- Business Models & Financing
- Performance Management

3 Digital Transformation

- Digital Core Common Services
- Connectivity
- Interoperability & Standards
- Data Mgmt. & Analytics
- Security & Privacy
- Urban Data Platforms
- Disruptive Technologies

1 City Responsibilities

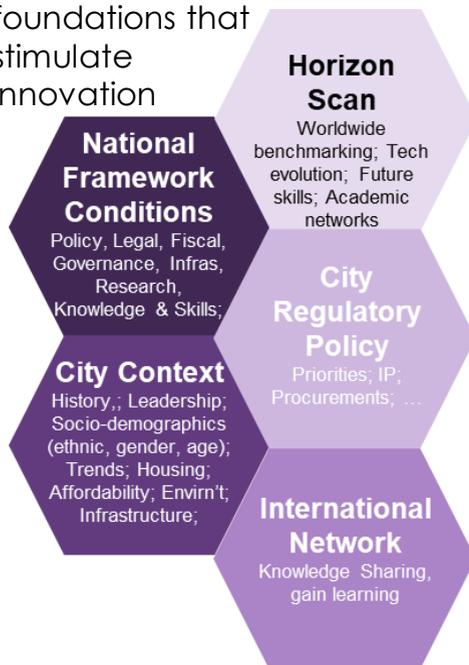
- Built Environment ●
- Mobility & Logistics ●
- Water & Waste Water**
- Energy Management ●
- Telecommunications ●
- Waste Management ●
- Health & wellbeing ●
- Public Safety
- Education & Skills
- Economic Development
- Sports, Culture & Tourism
- Contemporary Emerging Topics

Cities as complex, dynamic, interdependent, systemic organisms, with unique anatomies, and common DNA

A holistic 4-pillar framework

1. Framework Conditions

The contextual foundations that stimulate innovation



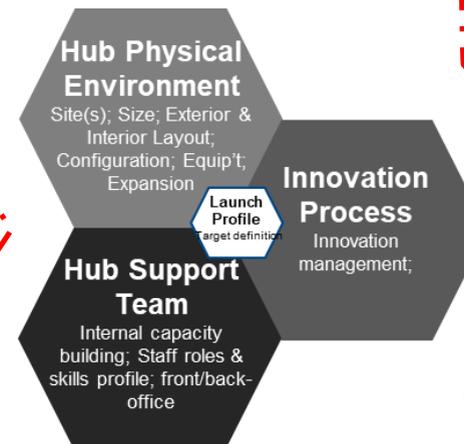
2. Network Enablement

Collaboration between stakeholders to enable novel ideas and solutions



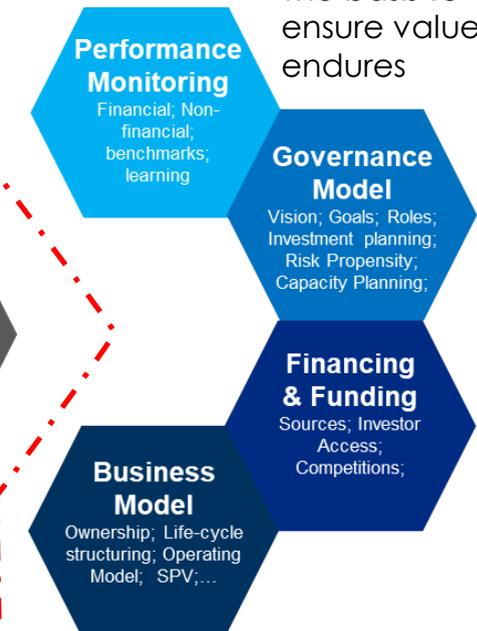
3. Innovation in Action

Effectively combining a portfolio of physical hubs, and human capital



4. Sustaining Value

The basis to ensure value endures



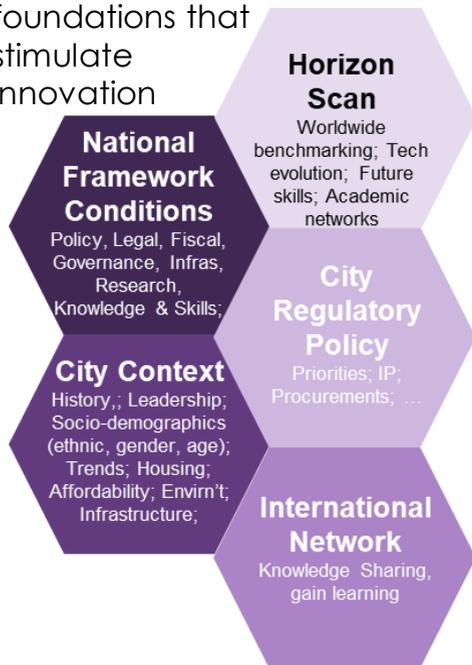
Sources:

1. Urban Innovation [White Paper](#)
2. [Article](#) on Urban Innovation Monitoring

A holistic 4-pillar framework - that can be assessed city-wide

1. Framework Conditions

The contextual foundations that stimulate innovation



2. Network Enablement



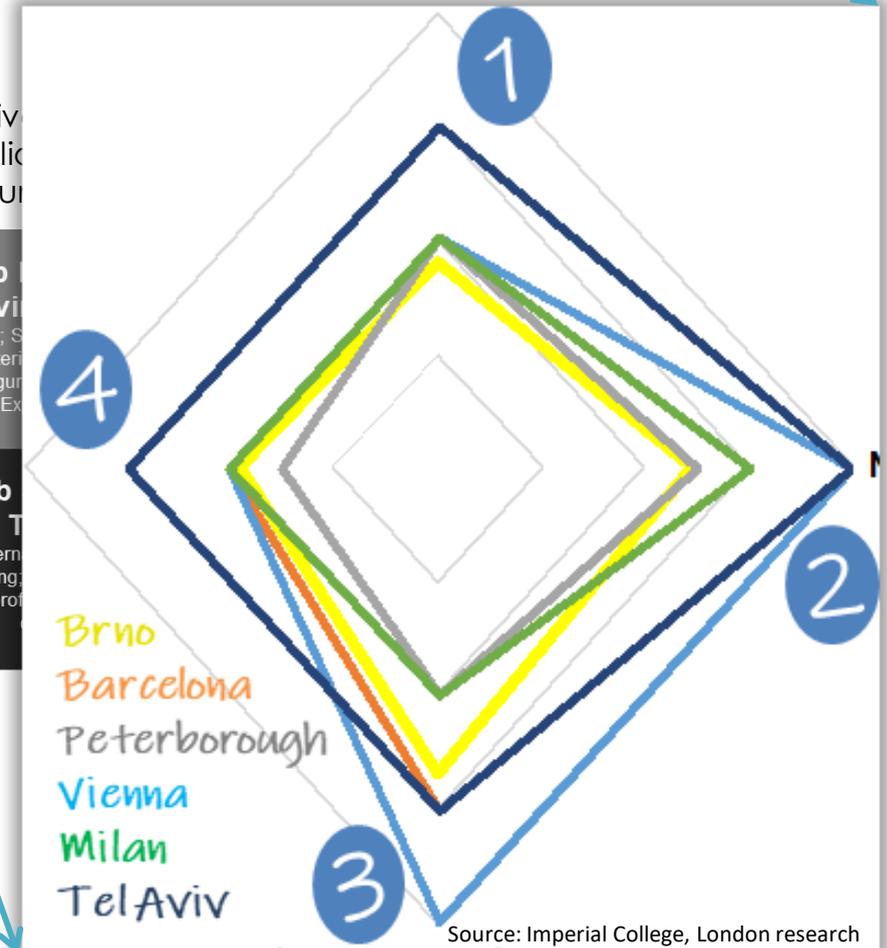
Collaboration between stakeholders to enable novel ideas and solutions

3. Innovation in Action

Effective portfolio and hub



4. Sustaining Value



7 steps to more purposeful & productive Urban Innovation

1. Get the topic on the agenda: Discuss amongst city leaders why innovation matters, and only move once that is recognised.

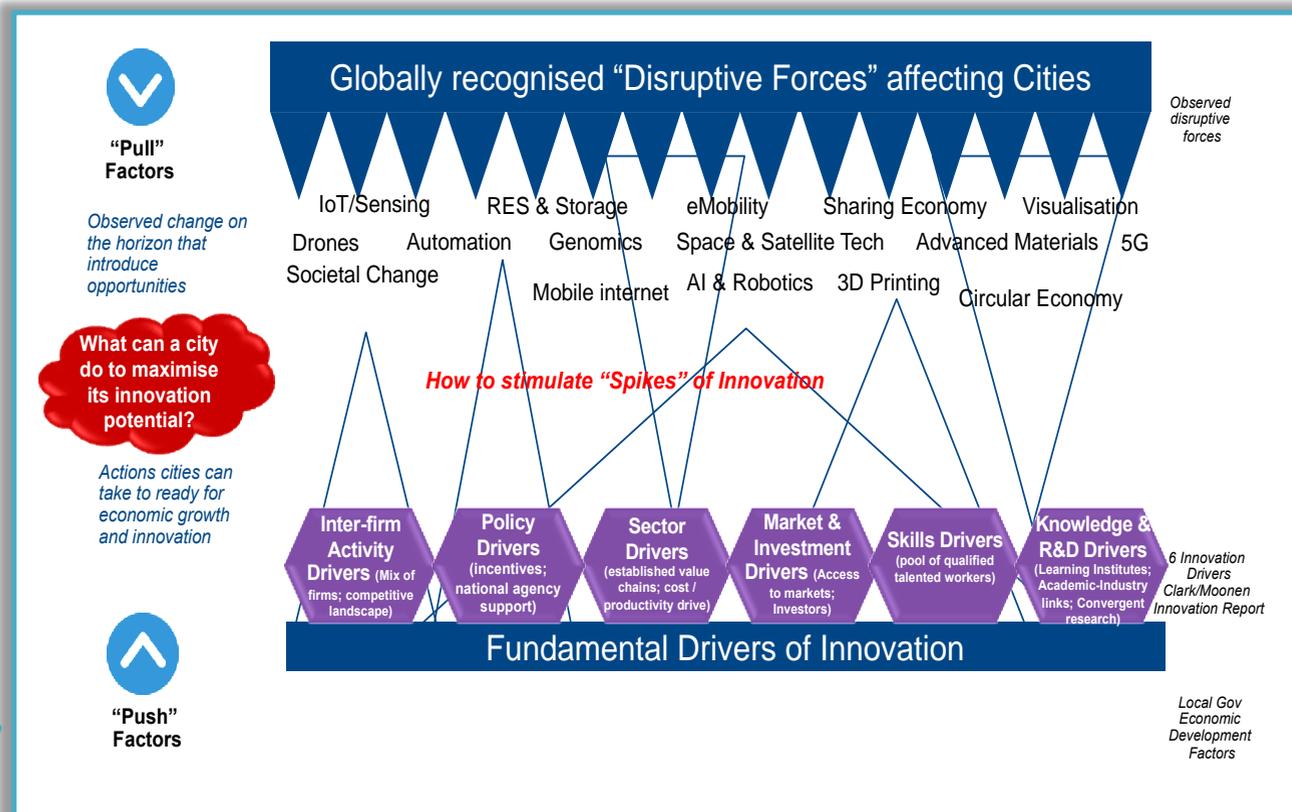
2. Assess the innovation state-of-play for the city: Perform an honest appraisal of the state-of-play against the innovation blueprint through a pragmatic analysis and/or metrics; and identifying key areas for improvement.

3. Perform a 'Horizon Scan' to inform the thinking: Look to the new opportunities that emerge on the horizon, and connect these to more proactive plans for the present.

4. Make the purpose and goals very clear!: Get a common meaning for the term amongst stakeholders; identify where the city legitimately and competently can lead through innovation; and work with others too.

5. Determine the focus and priorities: Address the city systemically, and pragmatically. Stimulate dialogue around a pragmatic city model to assess potential priorities and explore interdependencies.

6. Set targets and select indicators: Build collective ownership of audacious goals, and identify indicators to monitor.



7. Consider appointing a Chief Innovation Officer: with clear accountability & dedicated resource for pan-city innovation; to put focus on direction; streamline operations, & develop the right portfolio.

RESCCUE experience reinforces an inter-dependent approach



O CAMINHO DA
INOVAÇÃO
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Thank You!
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