Smart & Sustainable Cities Driving Innovation

Agenda

1 What is So Special
   About **Smart Cities**?

2 The Democracy Factor:
   Makers and **Hackers**

3 Impact on **Sustainability**
   and **Innovation**

4 The Future of **Innovation**
   in **Cities**

Trevor Davis
IBM Distinguished Engineer

+44 7802 175 428

trevor.davis@uk.ibm.com
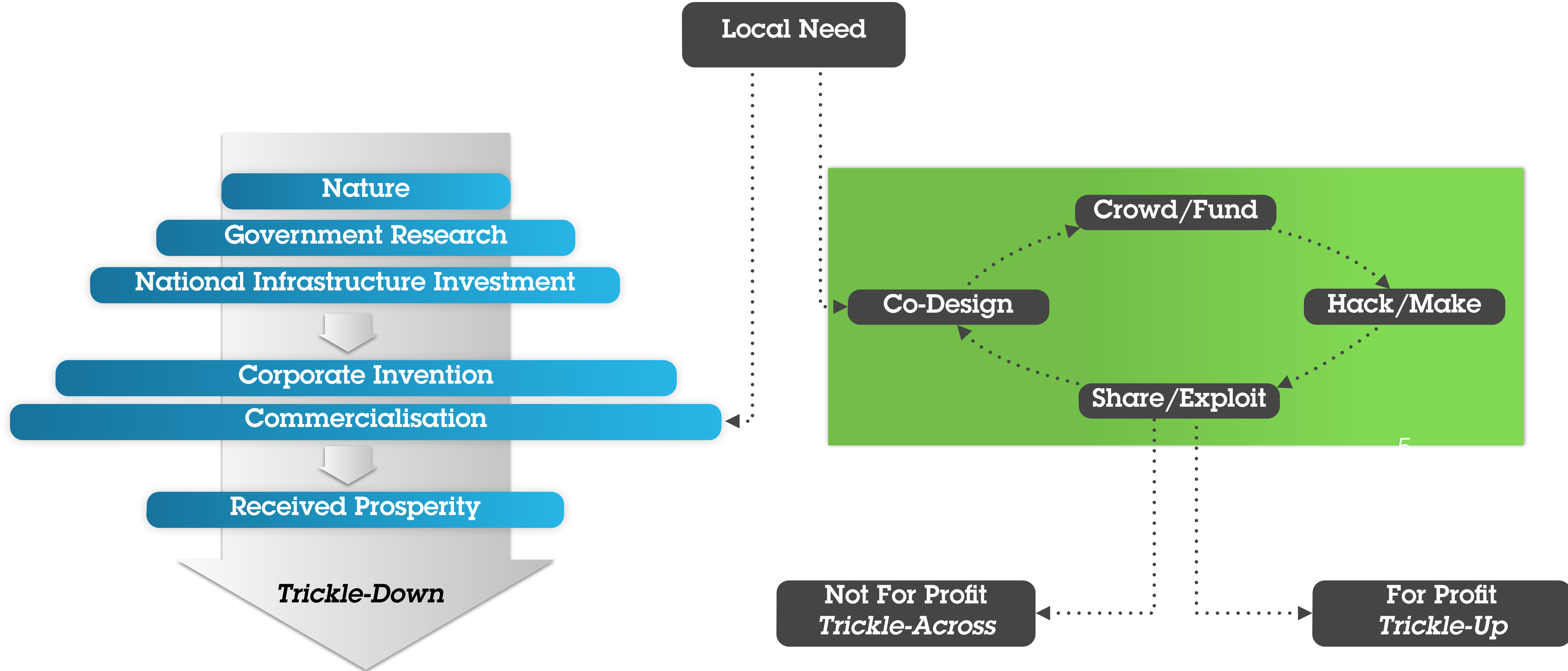
IBM Global Business Services
London
United Kingsdom

IBM

Makers & Hackers as (More) Democratic System Makers

Left diagram (blue, Trickle-Down):
- Nature
- Government Research
- National Infrastructure Investment
- Corporate Invention
- Commercialisation
- Received Prosperity

Trickle-Down

Right diagram (green):
- Local Need → Co-Design
- Co-Design → Crowd/Fund → Hack/Make → Share/Exploit → Co-Design

Not For Profit *Trickle-Across* ← Share/Exploit → For Profit *Trickle-Up*
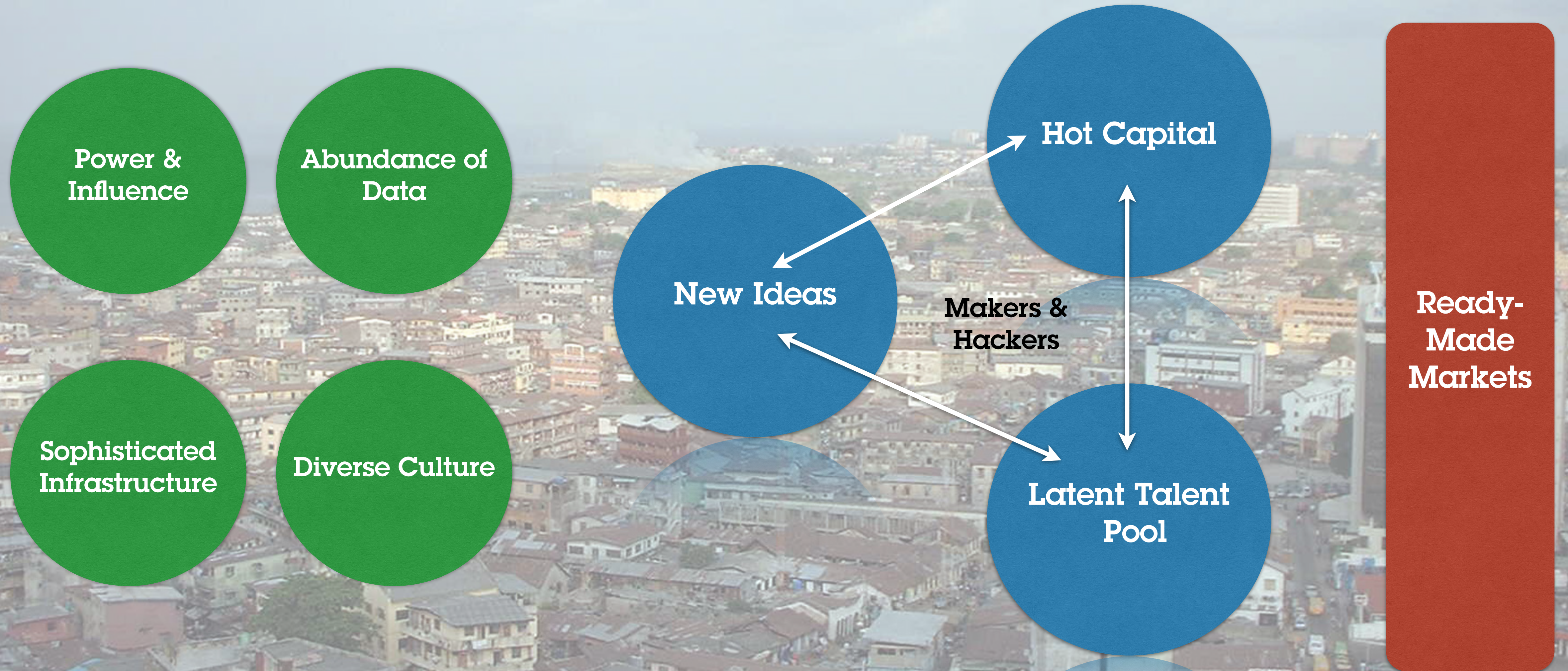
5

IBM

FLOAT in Beijing (a mapping and open source data visualisation project using air quality sensing kites). Through **participation** in local kite flying networks, this **crowd funded** project helps residents to monitor and act on air quality

'ReRouteAVL **Hackathon'** in Asheville North Carolina where coders and activists brainstormed ideas for improving local transport options and then quickly turned them into technology **solutions** that made use of public data on bikeways, greenways and real-time bus data (a previous hackathon had focused on resolving local hunger through identification and resolution of food deserts)

IBM

Cities Exert a Powerful Impact on Innovation

Power & Influence

Abundance of Data

Sophisticated Infrastructure

Diverse Culture

New Ideas

Hot Capital

Makers & Hackers

Latent Talent Pool

Ready-Made Markets

IBM

What Does the Future Hold?

Cities as open **systems of engagement**

Cities as habitats for **sharing** & **participation**

Cities as the new **creative commons**

Cities as connected **knowledge networks**

Cities as sources of **agglomeration advantage**

Cities as facilitators of **stability & inclusion**

ENVIRONMENTAL SUSTAINABILITY
EQUITY AND SOCIAL INCLUSION
PROSPERITY
PRODUCTIVITY
QUALITY OF LIFE
INFRASTRUCTURE

UN@HABITAT
FOR A BETTER URBAN FUTURE

STATE OF THE WORLD'S CITIES 2012/2013
Prosperity of Cities

IBM

New Forms of Innovation Powered by Software

No Need for Factories or Shops

3D printed "social plastic" from The Plasticbank

Composition Not Coding

A "service composition" hackathon for Indian entrepreneurs

IBM

Cloud is driving cities in their digital transformation.

IBM