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Smarter Welborne

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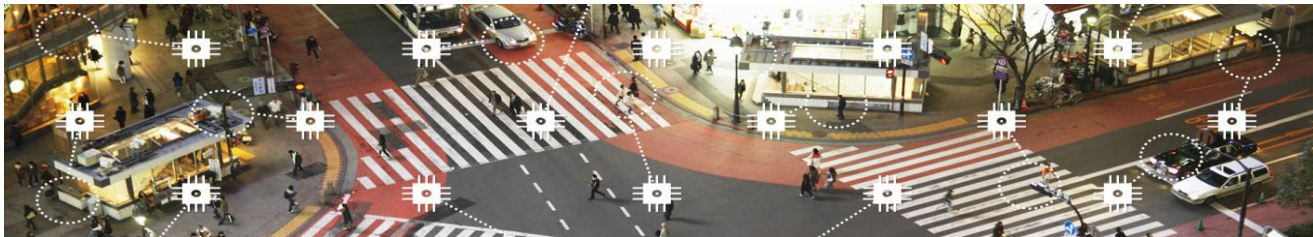
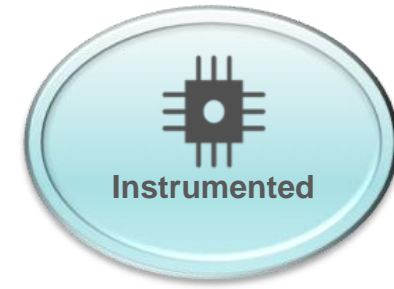


Being 'Smarter' is achievable in a world that is instrumented, interconnected, and intelligent

Sensors are being embedded across different types of environments and systems. Humans are now able to sense, measure and see the condition of everything.

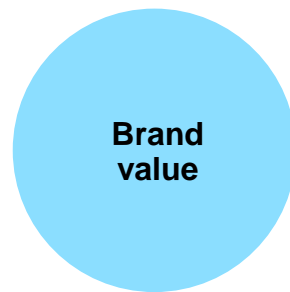
The amount of information produced by the interaction of all those things will be unprecedented.

Analyzed effectively, it can provide important new insights on different timescales.

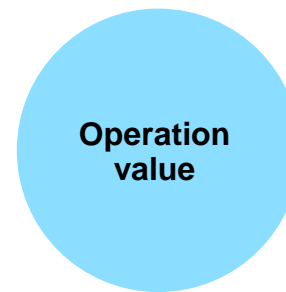




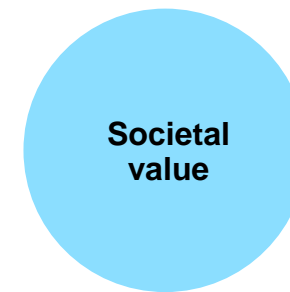
Positioning the city for future success and competitive advantage.



Strengthening perception, reputation and influence.



Improving existing operations and creating new capabilities.



Creating social, cultural and environmental benefits.

Together, these form the basis of a **smarter ROI model**.

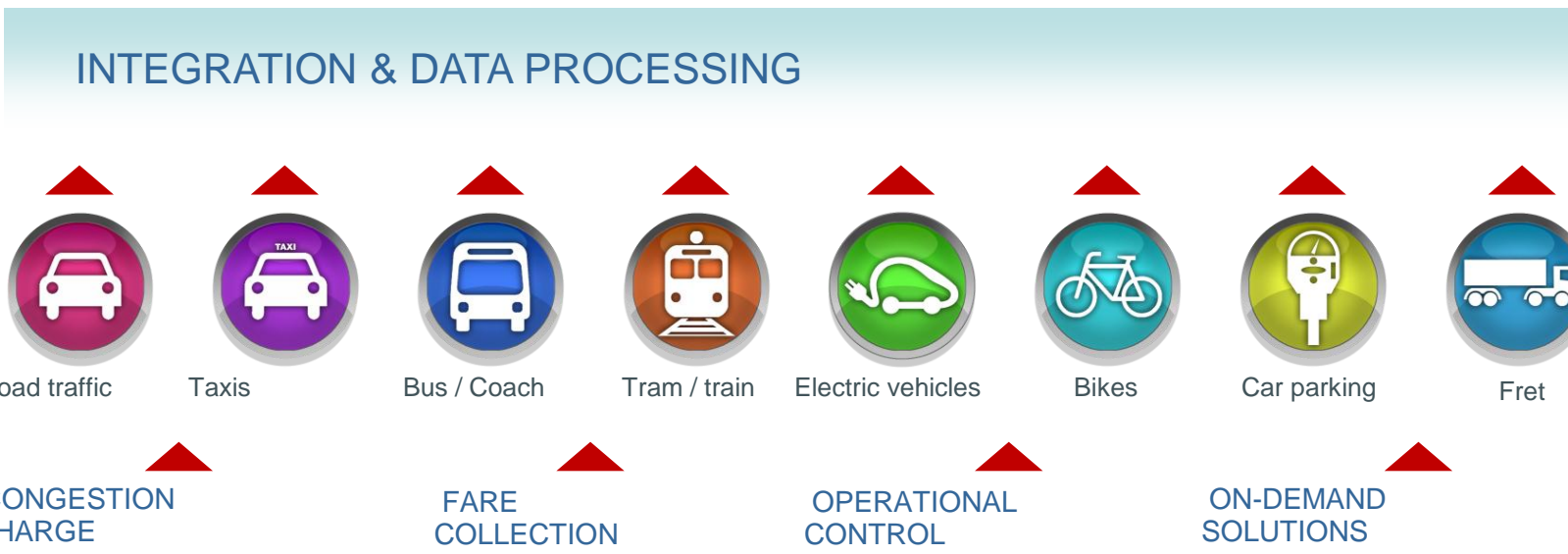
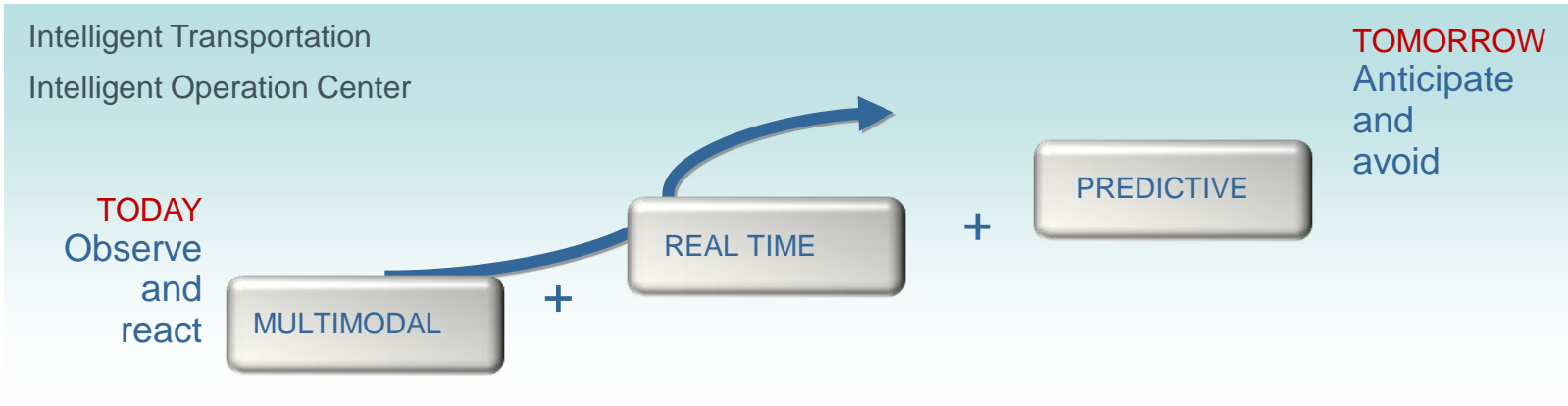


- A sustainable environmental living space - Including smart energy, waste & water;
- A new approach to transport & mobility;
- Enabling economic growth and a live/work balance.
- A novel approach to managing community resources and providing employment- 'a CuSCo' - aka the "Community Utility Service Company"





Services for cities, citizens and operators



Weather forecast
Social networks & Other data



<http://www.youtube.com/watch?v=xuD-MbEDy7Q>

CityPulse

City View My City Add Service Request

Notifications | 7

Welcome to CityPulse - your personal view of Bristol City!
You can view the city updates and service requests on the map below.

Add To Favorites

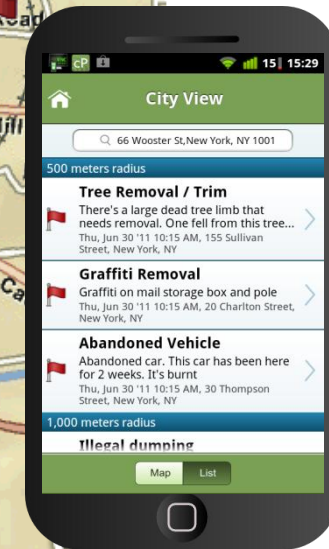
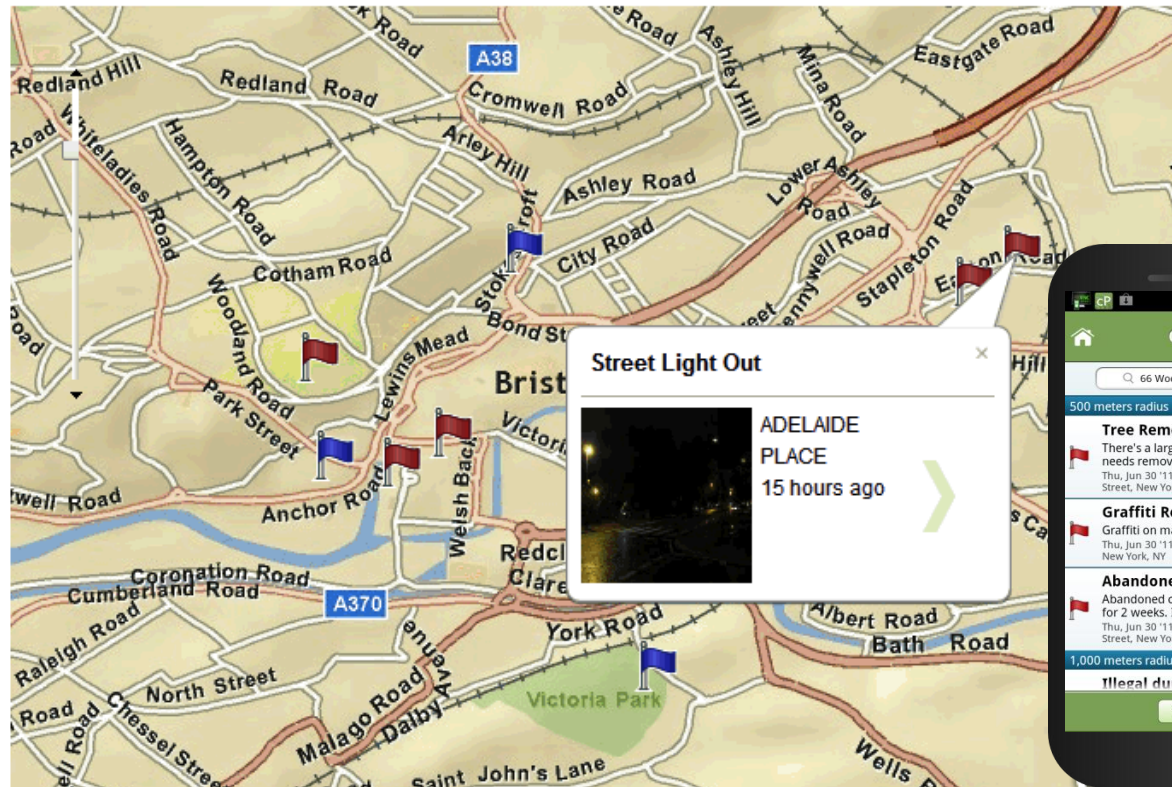
Follow

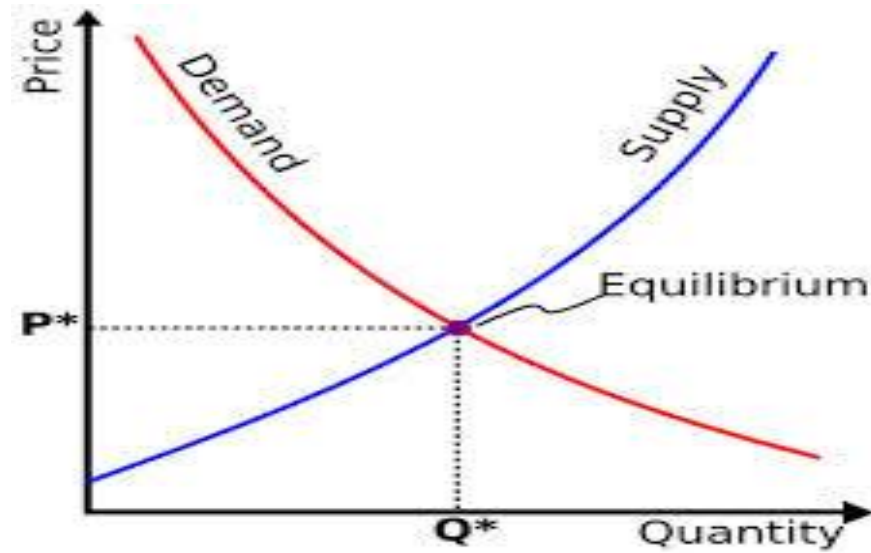
Load

View Categories

- City Updates
- Animals and Pets
- Building and Construction
- Garbage and Graffiti
- Parks and Trees
- Transportation
- Utilities

1 QUEEN STREET, BRISTOL, BS2 0HQ, UK





West Midlands Collaborative Commerce Marketplace

Home About Us Directory Tenders Partner Search Projects Clusters Showcase Links Case Studies

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CCM Video

Project Part-Financed by the European Union

European Regional Development Fund

WMCCM Home Help About

West Midlands Collaborative Commerce Marketplace

Buyers

Suppliers

Tools for Networking

Find New Suppliers

Match your Process & Skills Needs

Publish your Work as Tenders

- Publish your requirements to all.
- Publish to Private Supply Chains

Register, Login & Submit new tender

Find NEW Business

Search for Subcontractors

Use Project Spaces to Deliver

View our on-line Catalogues

Join - Get Your Company Profiled ✓

Clusters for Collaboration

Our Members Showcases

- Discussions | Tasks | Contacts
- e-Commerce Portals and Guidance
- Supply Chain Visibility Module

Tell me more.

Benchmarking Your Business - how good are you?



Smarter Transport

- Modal Hubs (Rail/Bus/Bike)
- Bike Scheme
- BRT
- Car Club
- EV charging
- Real time info
- Connected to the region

Smarter Start-Ups

- Innovation Space
- Shared Business services
- Easier Collaboration:
 - Business, 3rd sector,
 - Academia.
- SME growth engine
- University research projects.



Smarter Space

- Principle of a Living Work Space
- Joined up design principles
- driving the exploitation of information
- With a modular Build
- “Architectural Framework”
- Full Lifecycle Asset Management embraced
- Living Lab – Working Lab

Smarter Living

- Homes that earn you ££'s
- Sustainable living
- A sense of community
- Connected & Self-sufficient
- Increased GVA

Smarter Computing

- Local datacentre -
- Shared Cloud
- SME & Local IT
- compute services -
- consult & design
- Install & manage

Smarter Grid

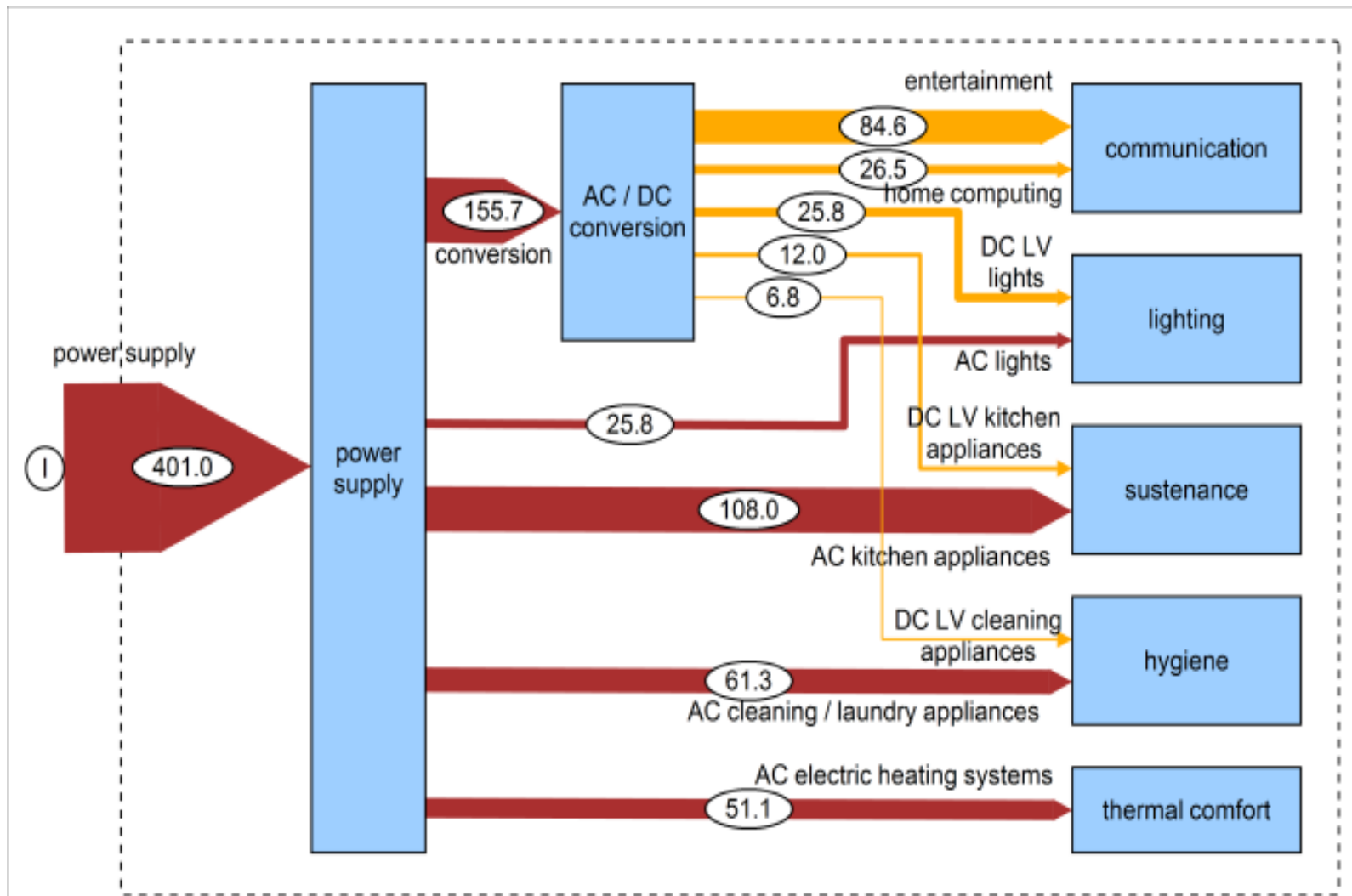
- Collective Switching
- Eco Energy
- (wind/solar/hydrogen)
- ESCO enablement
- Community
- Power/Heating

Smarter Home

- E-Health enablement
- Automation in the
- home (e.g. Energy)
- New Materials to
- build homes.
- Cooperative
- management of
- homes.



The MuSCo Concept... A new way of measuring Energy?

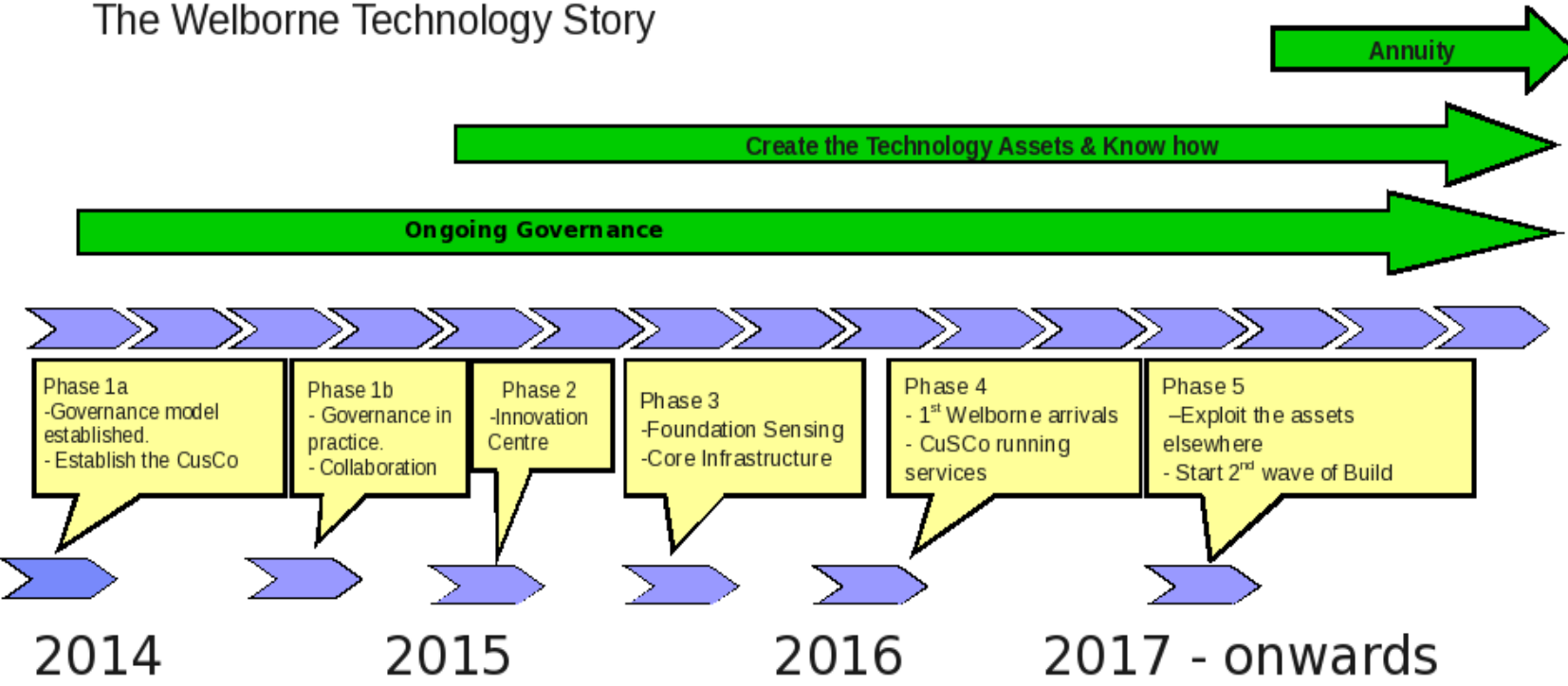


*Towards resource-efficient and service-oriented integrated infrastructure operation:
Challenges and Opportunities*

Katy Roelich¹, Christof Knoeri¹, Julia K. Steinberger¹, Liz Varga², Philip T. Blythe³, David Butler⁴, Rajat Gupta⁵, Gareth Harrison⁶, Chris Martin¹, Phil Purnell¹

¹ University of Leeds; ² Cranfield University; ³ Newcastle University; ⁴ University of Exeter; ⁵ Oxford-Brookes University; ⁶ University of Edinburgh.

The Welborne Technology Story



Smarter Computing
2014-2015+
Phase 1 to 4

Smarter Transport
2014-2016+
Phase 1 to 5

Smarter Start-Ups & SME's
2014-2016+
Phase 1 to 5

Smarter Grid
2014 to 2015+
Phase 1 to 4

Smarter Home
2014-2016+
Phase 1 to 5

Smarter Space **Smarter Living**

2014-2016+ 2014-2016+
Phase 1 to 5 Phase 1 to 5

