

# The Journey towards Smart City Recognition

## A Perspective from Birmingham





connecting you to the future



# Birmingham 2012

- 1,100,000 population
- 450,000 homes
- 160,000 daily commuters
- 4.3 million people of working age population within a one hour drive of the city centre
- 32m visitors per annum
  - 20% of the West Midlands economy
- 65,000 students in three universities
- Youngest city in Europe
  - 37% population aged less than 24

PERRY BARR ERDINGTON HODGE HILL LADYWOOD EDGBASTON construench soundary

BIRMINGHAM

connecting you to the future

# Connected Throughout the UK and Europe







# Cities – A challenge of urban growth

- Greatest challenge since humans became social
- Cities c.2% of global land mass but consume c.80% resources
- Current global population: c.7bn; forecast for 2030: 8.3bn (UK: 62.3mn growing to c.75mn by 2030)
- 1950 30% of global population urbanised
- Today 80% of developed world lives in cities
- 2050 80% of global population will be urbanised
- Not just an issue for developing countries; cities will also grow in developed world by c.6%





# Why be 'Smarter'

**Acute and Long Term Challenges** 

Resource Scarcity More people Climate Change Global competitiveness

Lack of Finance Older people Low Carbon Economy

Duplication Current systems - strained Inflexible

Silos Not effective Competing Objectives Debt

Adaptable New systems – able to cope Networked

Businesses engage People take Multi-

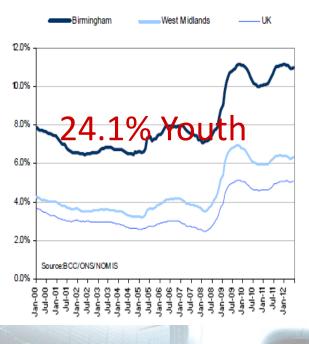
Innovation friendly and invest responsibility disciplinary

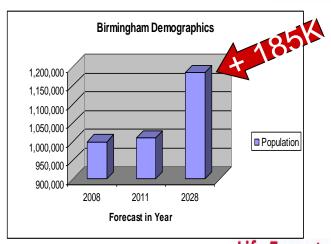


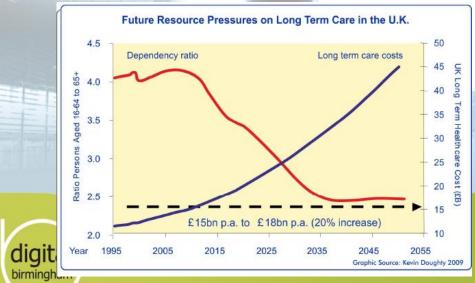
connecting you to the future

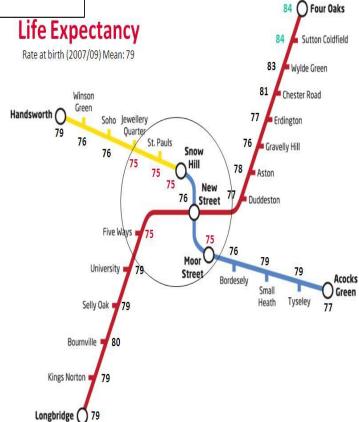
# Birmingham Focused Challenges











### The Giant Awakes: And sets the Pace











Street Services PFI – Amey Plc



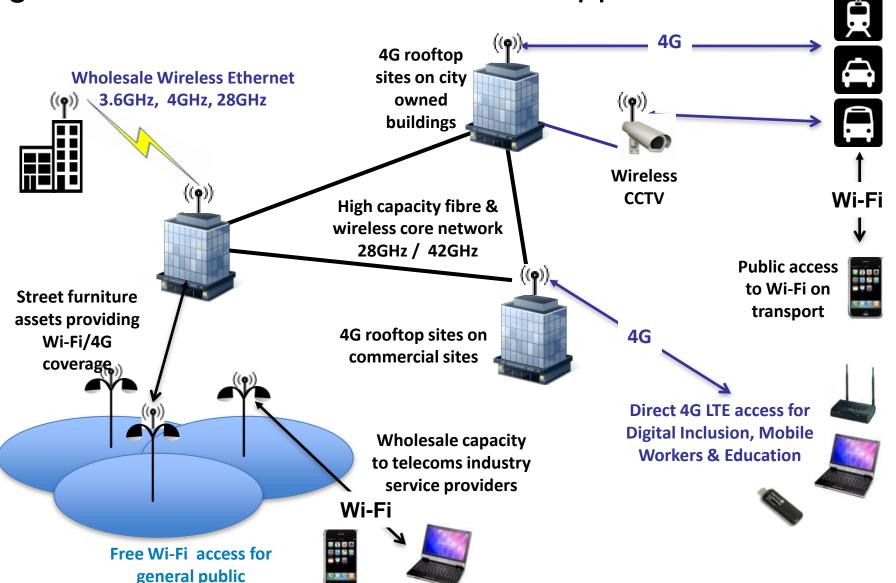
Working for the Future



Library of Birmingham

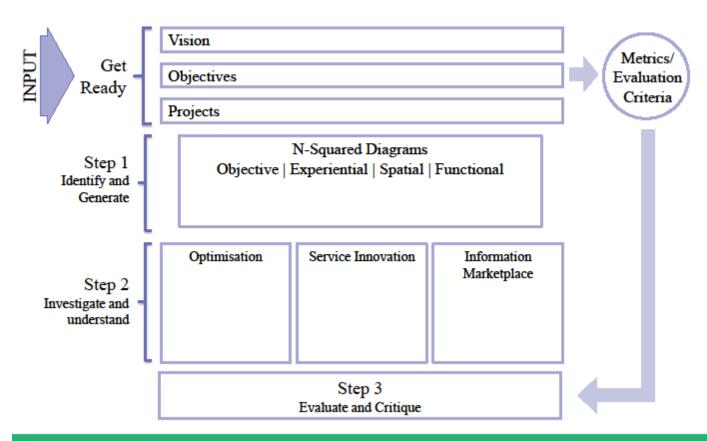


Accelerating the opportunities of next generation wireless – A blended approach



A Glimmer of Worldwide Recognition Succeed Economically: Level 3 Conceptual Model Jobs Worklessness Wages **GVA** Productivity

## **Triple Helix Methodology Overview**

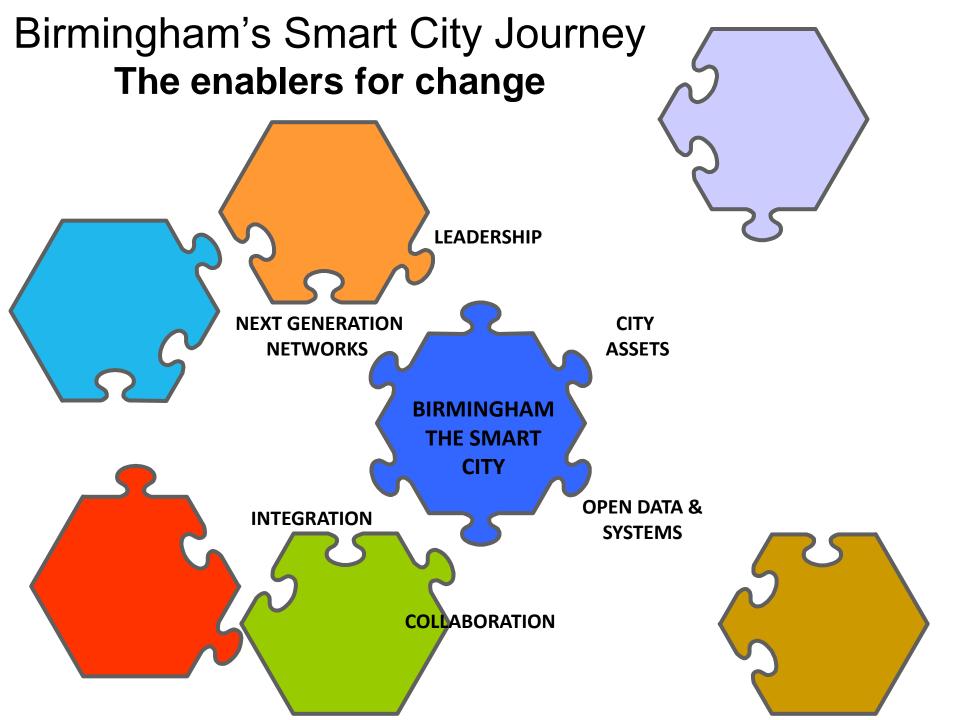


# Establish your Strategic Imperatives









## Birmingham:Smart City of the Future



Smart Accessible City
Smart Connected City
Smart City Economy
Smart Inclusive City
Smart Sustainable City

**Smart = Physically + Culturally + Digitally** 



#### A Birmingham Priority: The Connected City



#### Layer 3: Governance, Interrelationships, Collaboration & Partnership

Citizen generated services

New apps + services

Anytime learning

cloud computing **Citizens** 



**Businesses** 



Intelligent home

Smart grids Integrated transport

Holistic health and care services

Entrepreneurship & business opps

Layer 2:-Open Innovation Platforms - Real time data, open & linked data, standard datasets



**Environment** 



digital





Citizens and Skills



Mobility



Health and Care







Connected Communities





City Infrastructure – Wired and Wireless



## A holistic model = Complexity

Economy

People + Skills

Transport

**Healthy Living** 

**Environment** 

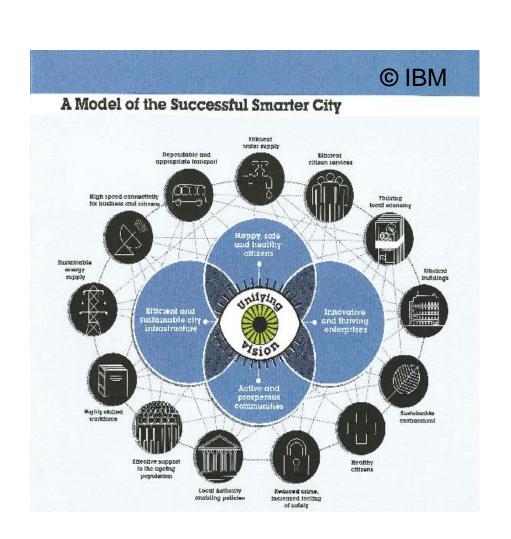
Governance

How do we prioritise



**ECONOMIC RECOVERY** 





## Operating on a Live System



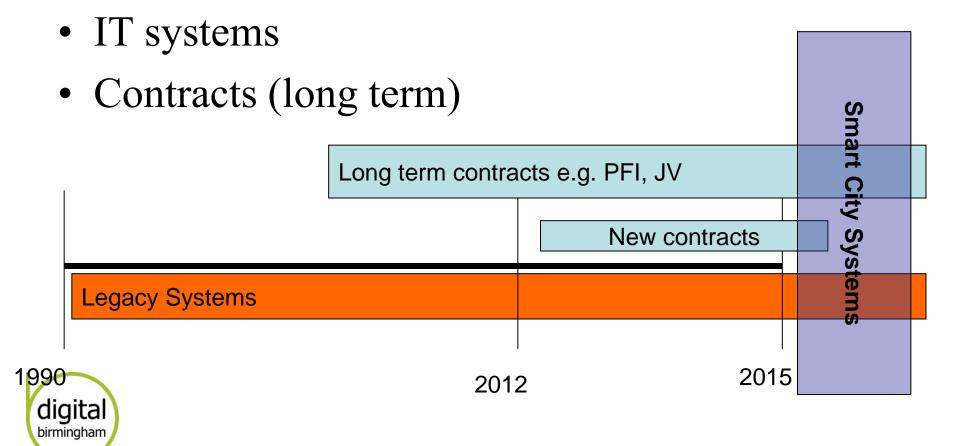


**Delivering Commissioning Decommissioning Monitoring** 



# Legacy Systems

Physical infrastructure



## Leadership, Leadership



#### Smart Birmingham: Strategic Framework

Our vision

An agile city where intelligent enterprise and social collaboration is infused with technology to help its people live, learn and work better through services provided by and for its people

Our mission

To create the sustainable environment that will enable our businesses, communities and citizens to learn, create and prosper in an open and collaborative way, through the provision of city governance, platforms, and spaces, which integrate and leverage intelligence across our communities





Making a step change – in a 2-5 year period - in our delivery against the strategic outcomes for Birmingham 2026



## Smart Birmingham: what it looks like and how it feels

- 1. Best place to start and grow a business
- 2. Connected to opportunities, spaces, places and markets
- 3. Open-minded, collaborative and experimental
- 4. Joined up in our city thinking
- 5. Easy, friendly and attractive place to come together
- 6. The City is pleasant, safe and fun to be in
- 7. Better information, more choice, more convenience, less waste
- 8. A great place to grow up and grow old



### Conclusion

- Our aim is to create a smarter city, not just a city where smart things happen
- Recognise the need to demonstrate leadership, but to let local communities help inform the strategic direction
- Recognise that the role of the city is to act an enabler, and to stimulate and accelerate opportunities through collaboration between all sectors
- Real change will only be possible through access to data, enabled through city system integration at all levels of governance
- A smart city is not about buying new technologies It's about learning to do things differently as innovation lies in the application of knowledge





