



IoT and Urban Innovation

Liz O'Driscoll – Head of Innovation, Exeter City
Futures
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Challenges for growing cities



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Delivering Innovation through the Science of Cities



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“Connected” City

Private citizens/businesses

Multiple Public Sector agencies

Connected
Homes

Connected
Office

Connected
Transport

Connected
Hospital

Connected
School

Connected
Government

Energy

HEMS

BEMS

Local power

Battery
standby

Energy
education

City-wide
initiatives

Transport

Logistics &
deliveries

Commuting
modes

Optimized
transport

Emergency
response

Optimized
school run

Multi-modal,
MaaS

Health

In-home
monitoring

Productivity
improvement

Modal shift

Delivery
improvement

Early
intervention

Risk-based
prevention

Other...

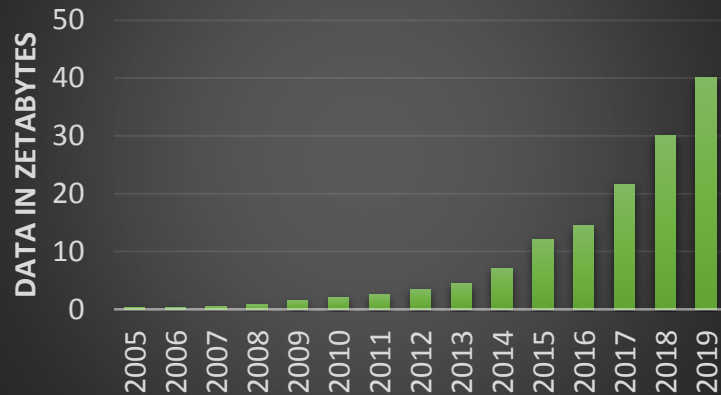
e.g. Water, Waste, Insurance, Environmental, Education, Physical Activity

IoT: The City as a System

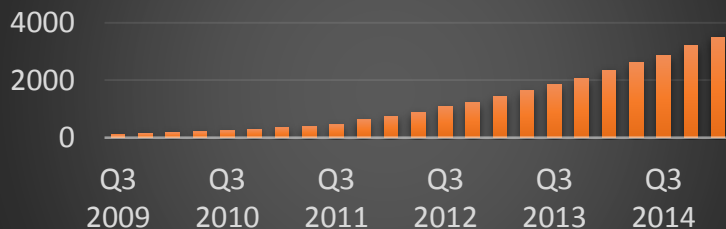


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Growth in Global Data



Global Mobile Data Traffic (Petabytes)



SOURCE: ERICSSON MOBILITY REPORTS NOV 2014 AND JUNE 2015

A LOT OF DATA

1 PETABYTE  **100 YEARS** OF TELEVISION

1 PETABYTE  **20 MILLION** FOUR-DRAWER FILING CABINETS FILLED WITH TEXT

1 ZETABYTE  **281 TRILLION** MP3 FILES

1.8 ZETABYTES  **ESTIMATED TOTAL AMOUNT OF ELECTRONIC DATA IN EXISTANCE BY 2011**

IoT: How much data..?



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IoT: The importance of analytics



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Data Silos

**Analytics
Skills**

**Engagement,
Politics, Law
& Finance**

Overcoming barriers



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Why Exeter?



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Exeter will undertake the largest and boldest data collection exercise in human history and open as much of that data as possible to innovators



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Exeter - City of the Future



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Thank You

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