

Innovation Opportunities in the Smart Meter Infrastructure

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Outline

Context

Innovation opportunities in the energy sector

- Access to smart meter data

- BEIS activities

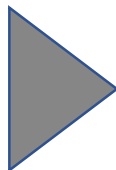
- DCC activities

Innovation opportunities in other sectors

Context

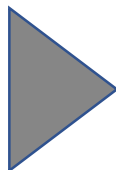
Current focus of the smart meter rollout

SMETS2 roll-out ramp
up



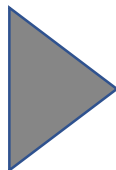
SMETS2 rollout is ramping up

SMETS1 enrolment



Phased approach to ensure interoperability with 'go-live' for initial cohort this summer

Innovation



Maximise additional benefits that **smart meter data** and the **secure and interoperable communication network** can provide

Today's focus

Smart metering is big data

Smart meters increase in the volume of data energy companies are gathering

A smart meter records **17,520 half hourly reads** per year

Millionth **SMETS2** meter installed in May 2019

Over 17 billion readings in a year from the current SMETS2 meters alone...

Access to consumption data is subject to consumer consent and governed by the Smart Metering Data Access and Privacy Framework

A digital display showing the number 17,520. The digits are black on a light grey background, with a reflection effect below the display.A digital display showing the number 17,000,000,000. The digits are black on a light grey background, with a reflection effect below the display.

Two routes to gain data access (with consumer consent)

Data access route 1 - DCC

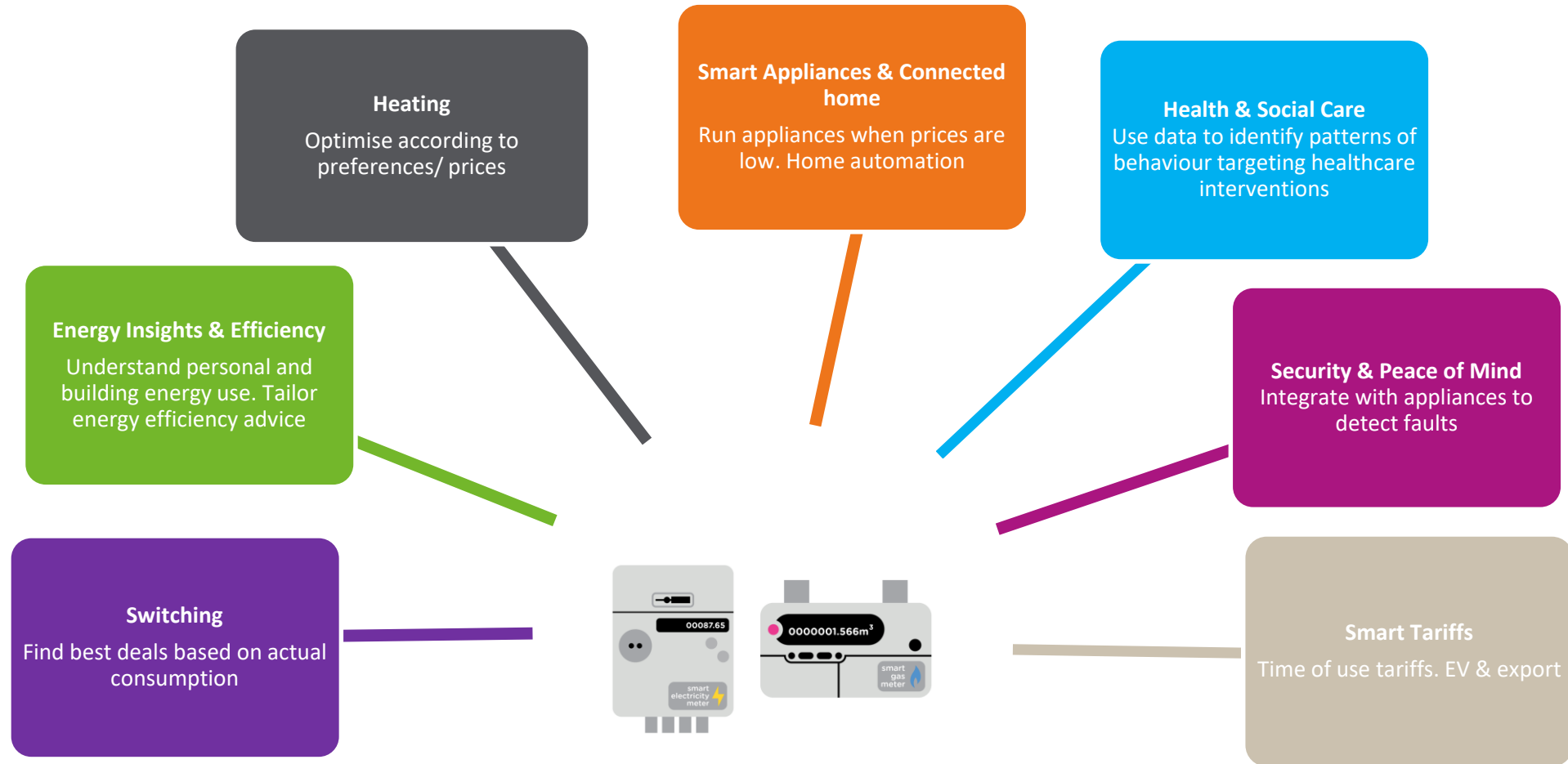
- No additional equipment required
- Companies can access data by
 - becoming DCC Other User themselves
 - partnering with a DCC User to access data via the DCC
- Data
 - Half hour gas and electricity consumption data available
 - Tariff information

Data access route 2 - CAD

- CAD is any device that supports ZigBee Smart Energy
- CAD can access data once paired to the HAN
- Data is sent to service provider via chosen connectivity option (3G/4G/wifi)
- Data
 - Near real time electricity data available
 - Tariff information

Innovation opportunities in the energy sector

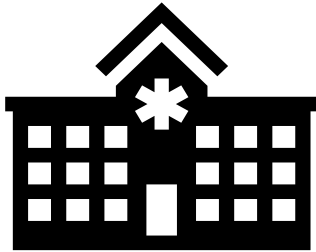
New energy services and products are already emerging...



Current BEIS Innovation Trials

Non-Domestic Smart
Energy Management
Innovation Competition
(NDSEMIC)

£8.8m to drive
energy management
innovation in schools,
retail and hospitality
sectors



Smart Meter Thermal
Efficiency Rating
Innovation Competition
(SMETERS)

£5m to develop new
tools using smart meter
data to measure thermal
efficiency of homes



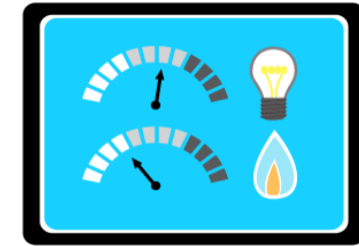
Smart Meter HAN
Connected Load Control
Trial

£3m to
demonstrate smart EV
charging via the Home
Area Network



Smart Energy Saving
Competition (SENS)

£6.25m to
develop tools delivering
energy savings via
feedback and advice



7 (field trial stage)

8 (feasibility stage)

2 (field trial stage)

8 (feasibility stage)

Final reports: Q1 2021

How DCC can help

NOW

- Data access advice
- Informal technical support
- Interoperability testing

THIS YEAR

- Streamlined on-boarding
- Innovation access (collaborate, experiment, prototype)
- Technical support services
- Interoperability checker

NEXT YEAR

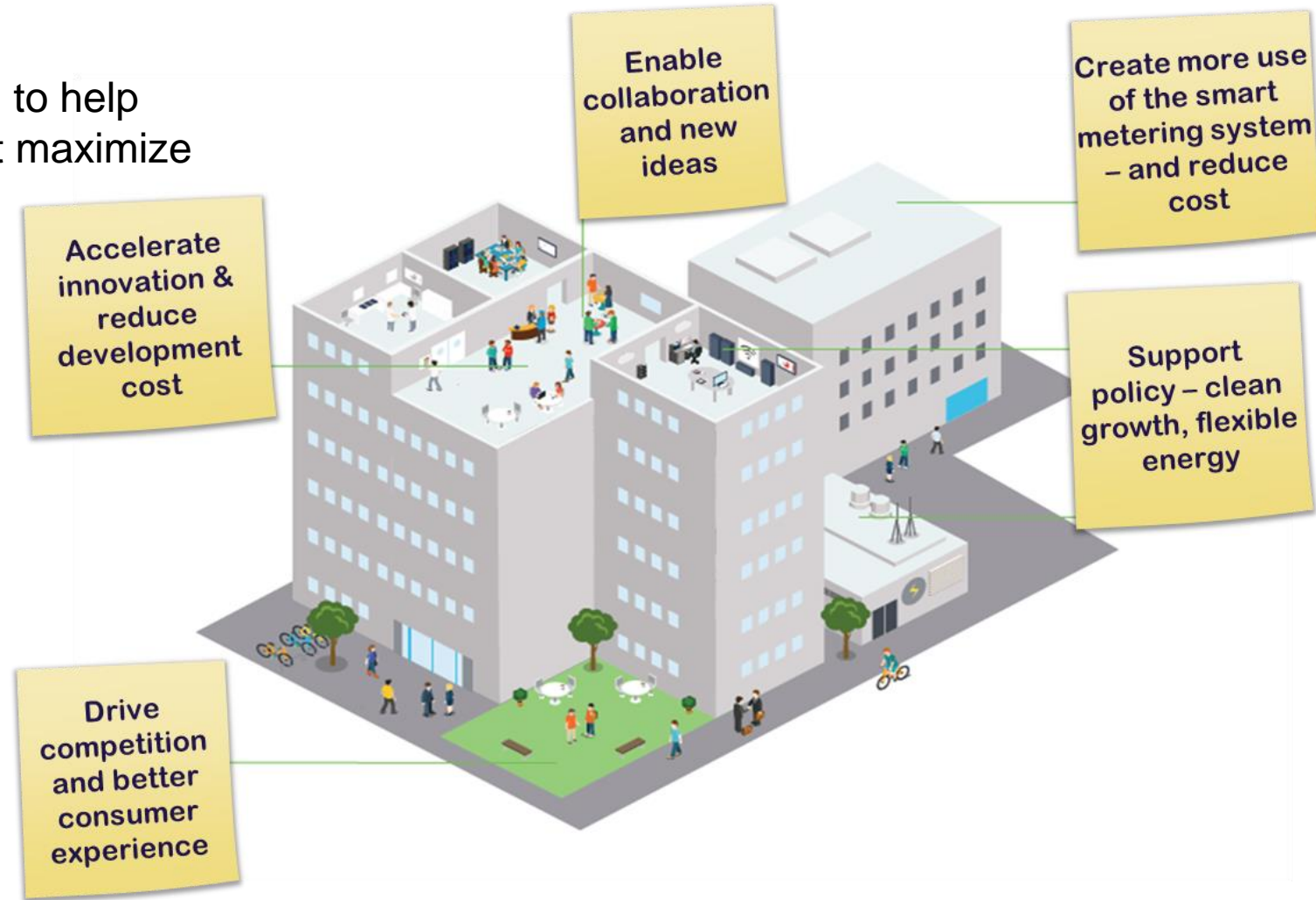
- APIs for data and connectivity



Innovation – value proposition

Space, test tools and expertise to help industry develop solutions that maximize use of the smart meter system

We think this can ...



Innovation opportunities in other sectors

Innovation opportunities extend beyond the energy market



Thank you

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**I WANT AN
ENERGY SYSTEM
FIT FOR BRITAIN'S
FUTURE.**

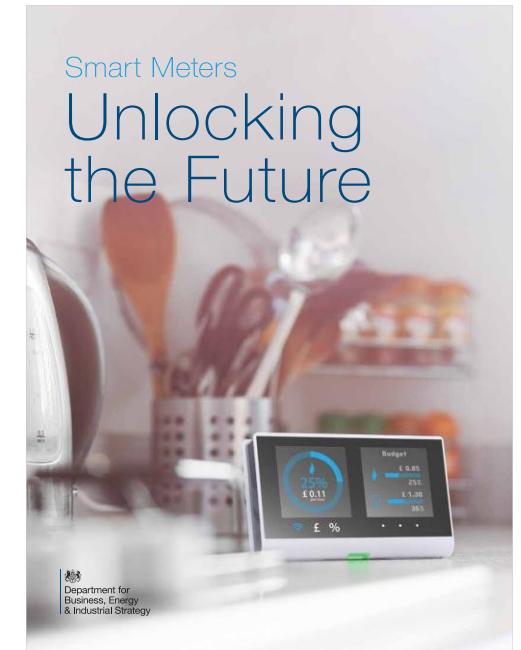
Smart meters will help us
upgrade to a smart grid
for the 21st century.

**THE CAMPAIGN FOR
A SMARTER BRITAIN**

Today's usage
⚡ £0.71
🔥 £0.58

Electricity now
£0.11 p/h

menu tariff



Smart Meters: Unlocking
the Future