

Michele Nati Lead Technologist Personal Data and Trust

Nottingham, 30 November, Digital Technology for Manufacturing Innovation

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Our mission

To unlock proprietary data in faster, better and more trusted ways





We are NOT a funder, incubator or accelerator

Our aim is to work with these organisations, not duplicate

Why Proprietary Data?



90% of data is closed or personal

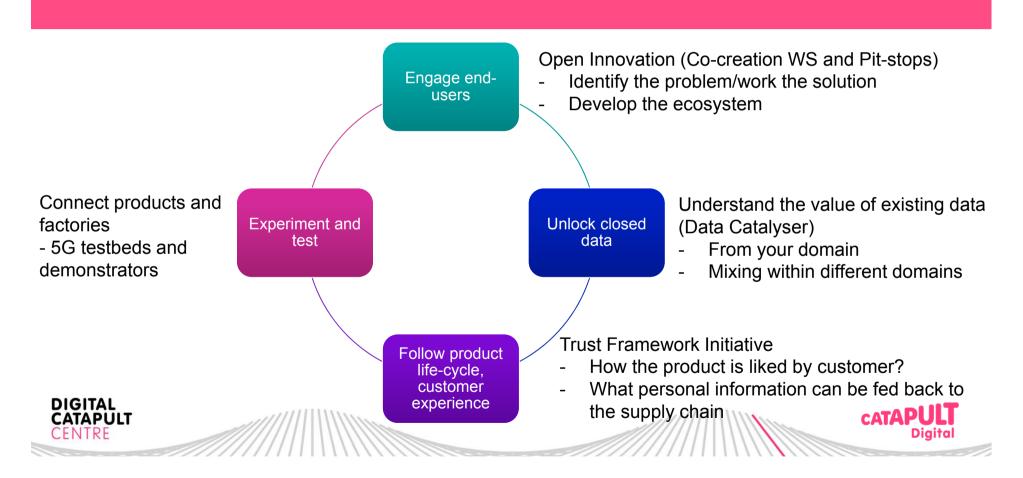
If data is the new oil, then personal and closed data is the new rocket fuel

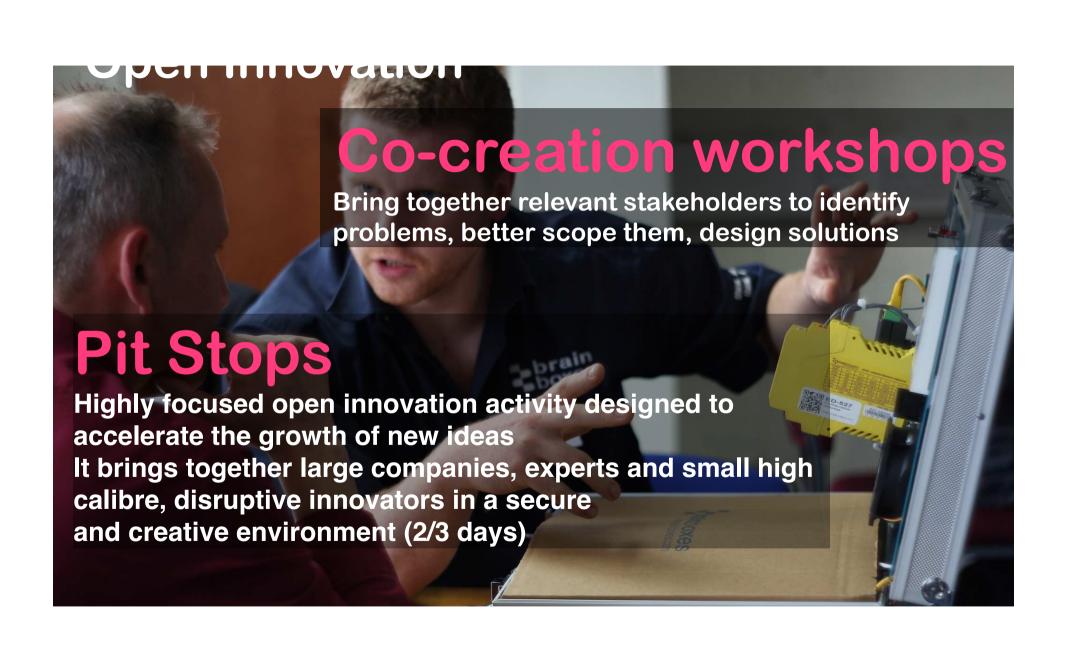
Building platform enablers – for new ideas

Our focus is on the Data Value Chain



Industry 4.0: Catapult value





Pit-stops: The journey

Digital Catapult and sponsors:

- Define objectives
- Identified required skills

Digital catapult:

 Leverage its network of innovators to recruit desired participants (SMEs, scale ups, individual innovators, academic experts, in-house experts)

The format:

- 10 to 15 innovators, 6 to 8 sponsor staff, 6 to 8 subject matters experts, 1 moderator
- Presentations, breakout sessions and co-creation workshops

The benefit:

- For partners: develop and test new ideas; speed up open innovation with external resources
- For participants: test and validate new ideas; reach new markets





Pit-stops: Facts and Figures

19 237 113

Days | SMEs

113

100s

Experts of ideas

Convening Start / Scale-ups.....









Alongside industrial partner challenges





What people are saying:

66 We were extremely impressed with the Pit Stop. The Digital Catapult team listened closely to our needs and interests, and picked them up in original, clever and flexible ways. Usually, events like this are driven by a business partnership rather than by a specific agenda.

The Pit Stop, with its highly relevant agenda and flawless execution, allowed us to zoom in on a new area of business. It enabled co-creation and knowledge exchange in an inspiring environment with a group of innovative thinkers and doers. This is the first time for us that an engagement like this has delivered ideas that will move into Proofs of Concept and might actually be taken to market. The Pit Stop is a model that we can see ourselves using to engage all of our partnerships.

- Hendrik Kleinsmiede, Innovation Partner, Visa Europe Collab







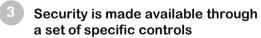


Our Solution: The Data Catalyser









- 4 A set of legal contracts defines the rules for all participants of the platform
- Access to best of breed Insight
 Producers through a selection process
- Overall, a data science solution built on enterprise grade tech



Data Catalyser: An example

- The problem (Nissan Social Media Challenge):
 - · Monitor sentiment and identify trends and issues with Nissan luxury 'Infiniti' brand
- The challenge:
 - Mix closed organisational Quality Assurance data
 - Closed Sales data owned by third party
 - Social media data
- The goal:
 - Predict churn
 - Optimize supply chain
- How
 - Open Innovation through Hackathon (December 2nd, Digital Catapult NETV)





Personal Data: The value

Vertical = Limited use cases e.g fraud



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Horizontal = Many use cases

- Better understanding of individual emotions combining economic situation, health and wellness data
- More detailed anonymous personas can be created combining spending habits, locations, etc
- As results:
 - Supply chain can adapt
 - Production adaptively increased, decreased or adjusted

Breaking down the barriers

Building Trust: Need to empower the customer:

Ethics: Recognise & respect the consumer's wishes Control: Give tools/dashboards to enable real control

Compliance: Verify orgs are sticking to the rules

Communication: Kitemark for those in the ethical sharing club

Removing Friction: Need to solve three sources of friction:

Technical: How to define and physically transfer the data

Legal: How to establish the users identity and assert

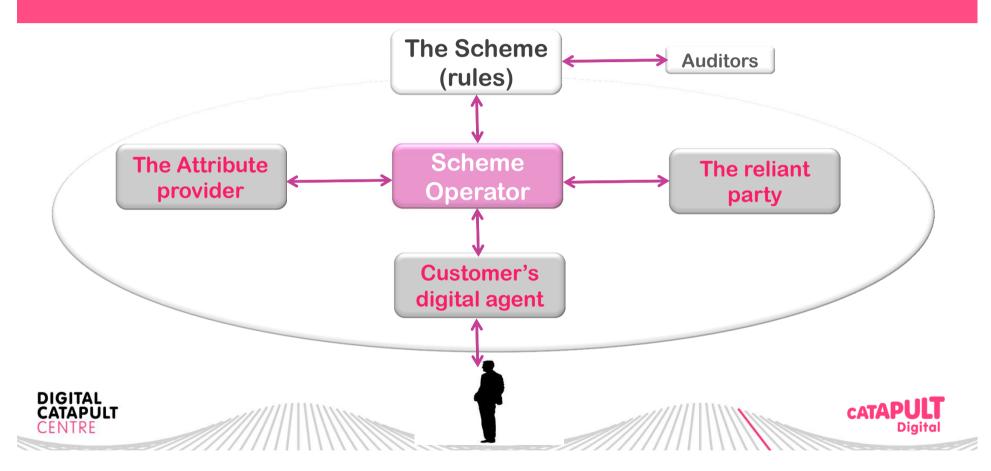
permission within each siloed system

Commercial: How to agree the price of access/transfer

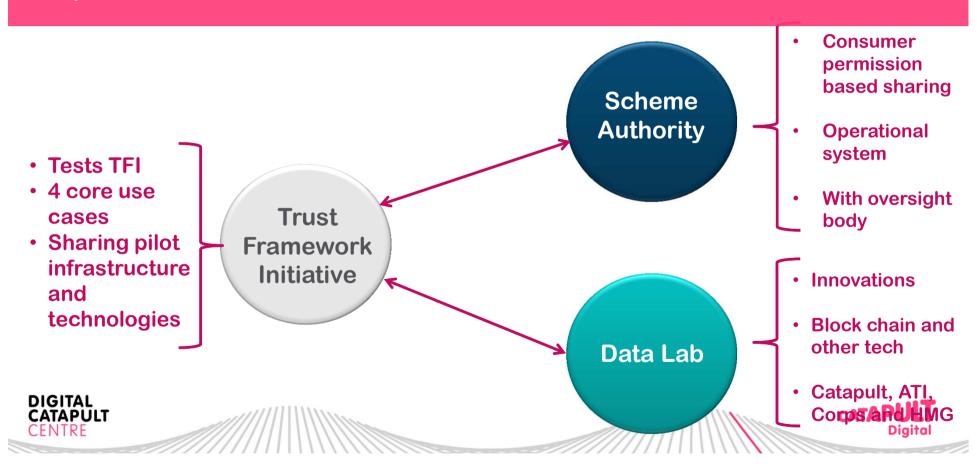




Attribute Exchange and Trust Framework



Operational Scheme and Lab



5G Innovation Promise

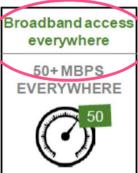
5G: Next Generation Mobile Networks

Speed 50x

Latency 1ms

Reliability 99.999%

DIGITAL CATAPULT CENTRE

















Broadcast-like services BROADCAST SERVICES

Massive Internet

of Things

SENSOR

NETWORKS



M2M 10-100x

Coverage 100%

> Energy <10x

CATAPULT

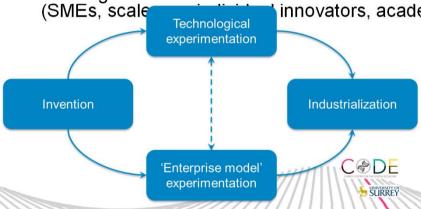
NGMN 5G Vision Paper

5G: Innovation through testbeds

- Digital economy is all about moving and using data
- Need to connect connectivity infrastructure vision with digital economy innovation
- Support for IoT, including Factories-of-the-Future, is a crucial driver for 5G design vision and proposals.

- 5G Innovation Centre and Innovation Gateway
 - 5GIC is delivering advanced 5G testbed, including improved IoT/M2M service support and device management
 - Open for collaboration, and has a strong SME Engagement focus.
- Digital catapult

• Leverage its network of innovators to recruit desired participants (SMEs, scale innovators, academic experts)





Thank you

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