National Innovation Centre for Data

Steve Caughey, Director

Department for Business, Energy & Industrial Strategy

EPSRC
Engineering and Physical Sciences Research Council
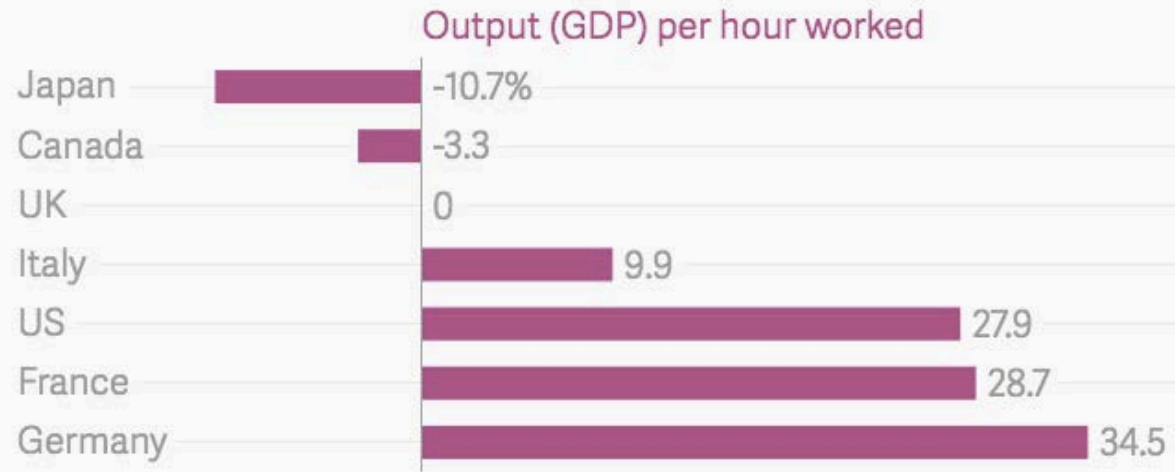
Newcastle University
UK | Malaysia | Singapore

NICD provides organisations with the skills they need to obtain insight from their data *by upskilling their own people on their own platforms using their own data.*

National Innovation Centre for Data

The problem with UK Productivity

G7 productivity relative to UK productivity in 2016

Output (GDP) per hour worked

Japan -10.7%
Canada -3.3
UK 0
Italy 9.9
US 27.9
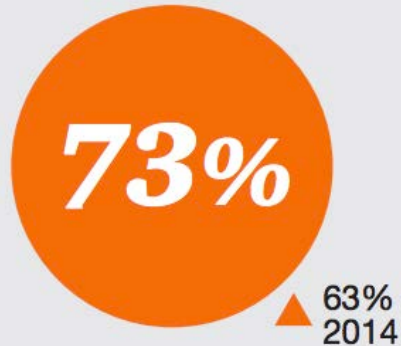France 28.7
Germany 34.5

ATLAS | Data: ONS

Share

The Data Skills problem

Key Threats for CEOs
Availability of key skills

73%

▲ 63%
2014

HOW A SKILLS GAP IMPEDES THE USE OF NEW TECH

THE SKILLS GAP:
Big Data

90% of decision-makers say big data is relevant to their industry. 66% say they don't have the skills to implement big data.

BIG DATA

SKILLS

CIO INSIGHT

Newcastle Data

#1 in Computing for Research Impact [REF 2014]

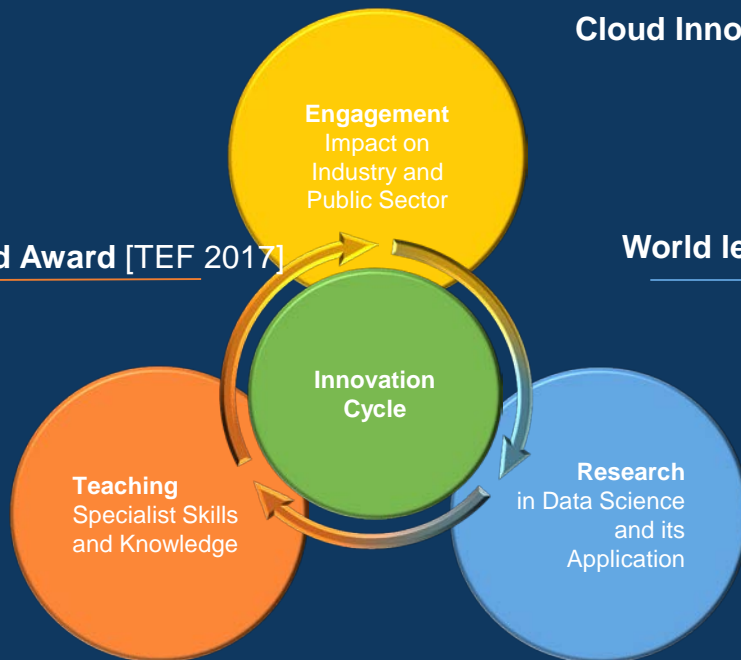**Cloud Innovation Centre** *(£2M)*

Engagement
Impact on Industry and Public Sector

Teaching Excellence Gold Award [TEF 2017]

World leading in Scalable Data Science [REF 2014]

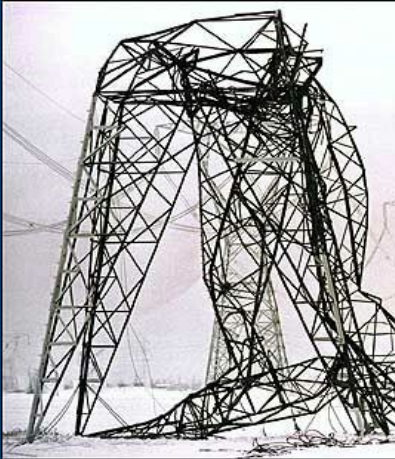**EPSRC Centre for Doctoral Training in Cloud Computing for Big Data**
Creating the next generation of leaders in Data Science (£5M)

Innovation Cycle

Teaching
Specialist Skills and Knowledge

Research
in Data Science and its Application

Full Member of the Turing Institute £100M Research Income in past 10 yrs for Data Science & its Application.

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Newcastle Helix

Urban O...

- 1 billion + data points
- 500 deployed sensors
- Scaleable data platform, A... download
- 62 Variables
- 300+ CCTV feeds
- 400,000 images daily
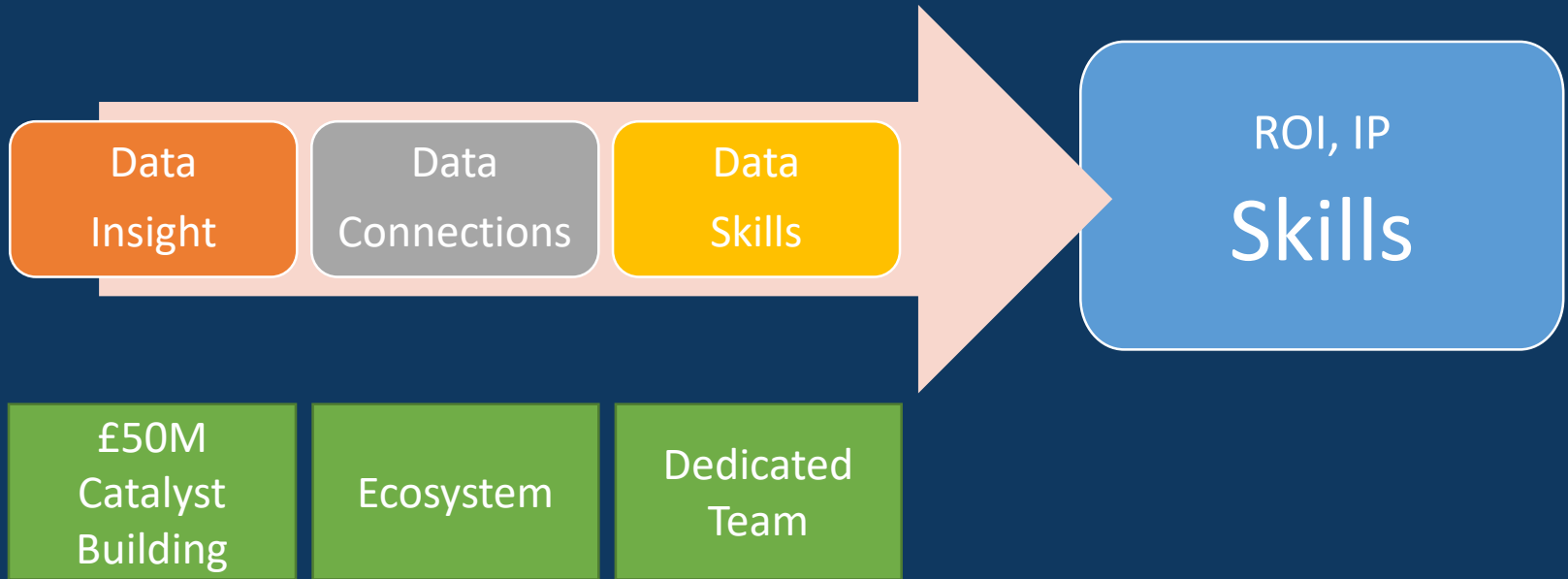- 5,000,000 observations da...

...tre for Data

The National Innovation Centre for Data

- £30M Investment in data

- Utilising the £50M Catalyst Building

- A unique facility bringing together the public and private sector, University researchers and students to enable organisations to obtain insight from their data.

NICD Programmes

Data Insight → Data Connections → Data Skills → ROI, IP **Skills**

£50M Catalyst Building | Ecosystem | Dedicated Team

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Data Insight: The Catalyst Building

National Innovation Centre for Data

Data Connections: The Ecosystem

Data Skills: The Dedicated Team

"We've taken the business on an important journey. It's not just about the revenue. The excitement is in taking the whole management team on that journey by showing them the prototypes, and explaining what we can achieve if we're open to it."

Marcin Lisowski – Head of Data Analytics – LKQ Europe

"The ability of the whole team to deliver against the vision has been stupendous. All of the various elements came together in alignment. NICD, ourselves, and everyone involved should be very proud."

Alan Timothy – Project member, and Chief Scientist – Profile Analysis

Shortlisted for Outstanding Big Data Industry Project at Computing's 2018 Big Data Excellence Awards

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NICD Summary

- A Beacon for data innovation
- World-class facilities and services under one roof
- Delivering next generation skills
- Delivering impact through innovation