Data Skills
and the
National Innovation Centre for Data

Steve Caughey
Director of NICD

Department for
Business, Energy
& Industrial Strategy

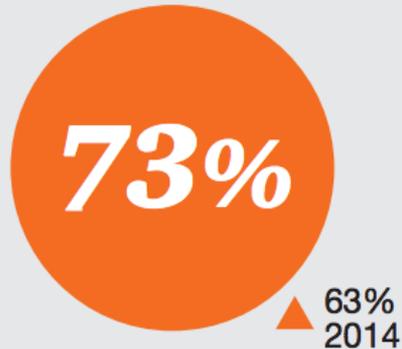**EPSRC**
Engineering and Physical Sciences
Research Council

Newcastle University
UK | Malaysia | Singapore

Data Skills Problem

Key Threats for CEOs
Availability of key skills

73%

▲ 63%
2014

HOW A SKILLS GAP IMPEDES THE USE OF NEW TECH
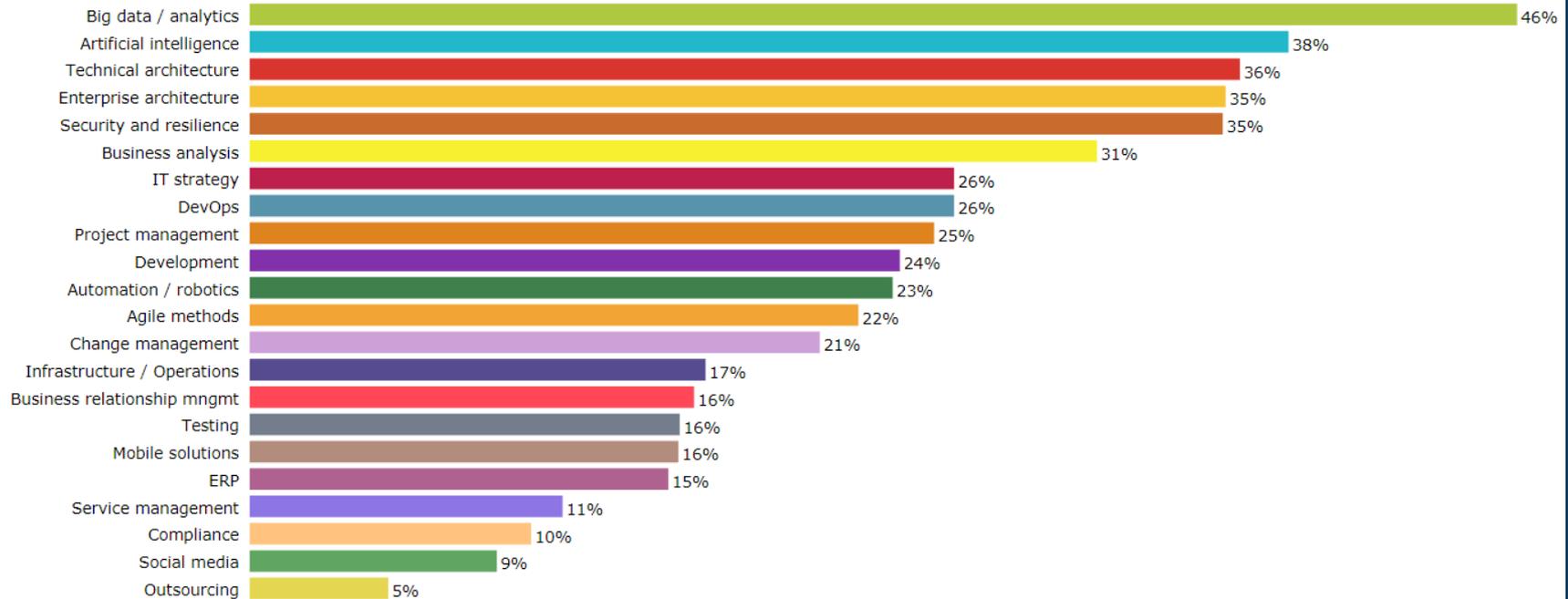
THE SKILLS GAP:
Big Data

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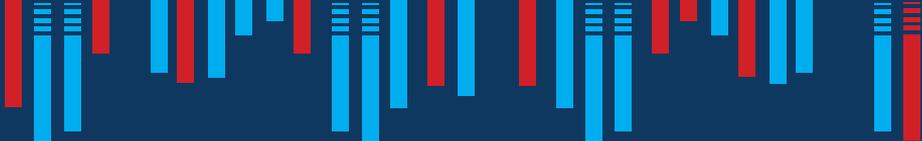
BIG DATA

SKILLS

CIO INSIGHT

Which functions do you feel suffer from a skills shortage?

Select all that apply

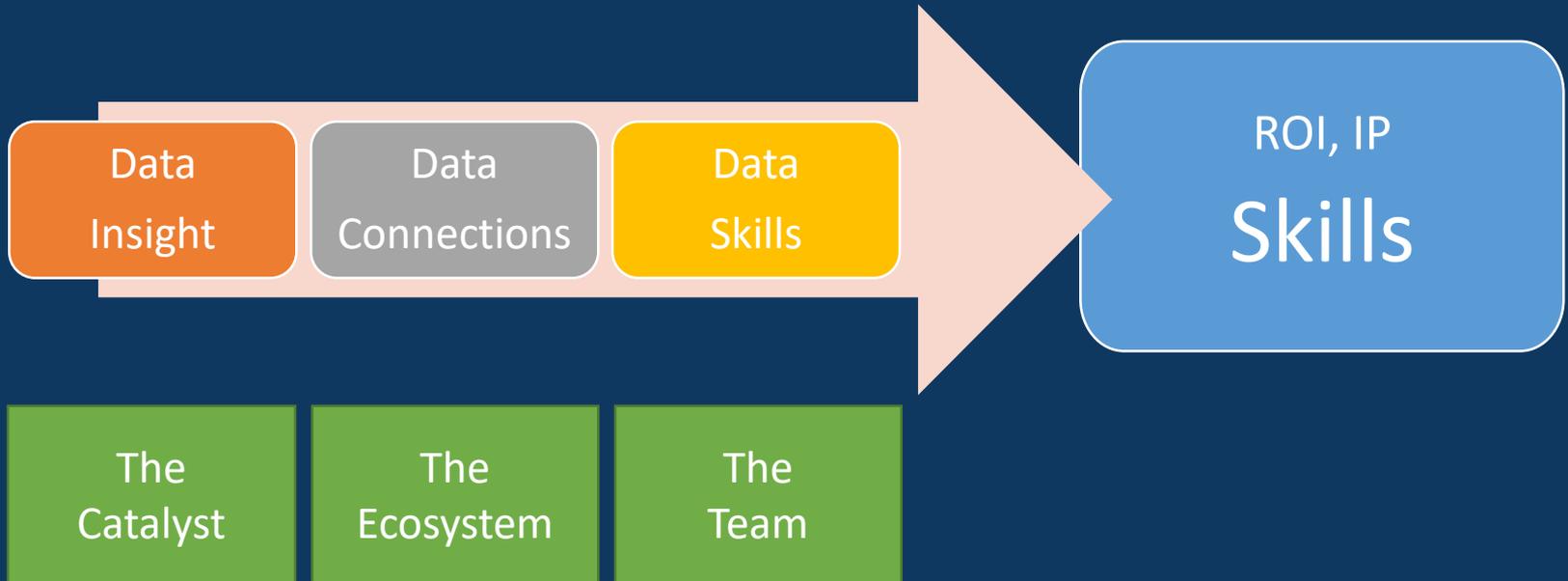| Function	Percentage
Big data / analytics	46%
Artificial intelligence	38%
Technical architecture	36%
Enterprise architecture	35%
Security and resilience	35%
Business analysis	31%
IT strategy	26%
DevOps	26%
Project management	25%
Development	24%
Automation / robotics	23%
Agile methods	22%
Change management	21%
Infrastructure / Operations	17%
Business relationship mngmt	16%
Testing	16%
Mobile solutions	16%
ERP	15%
Service management	11%
Compliance	10%
Social media	9%
Outsourcing	5%

11/09/2019

National Innovation Centre for Data

- £30M Investment in data

- £50M Building

- A unique facility bringing together the public and private sector, University researchers and students together to enable organisations to extract value from their data.
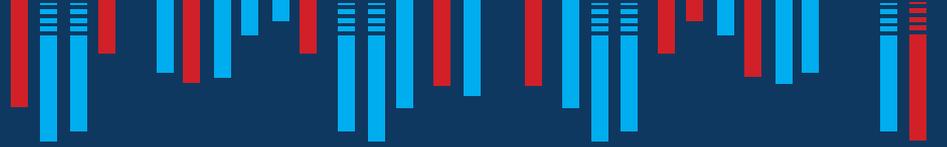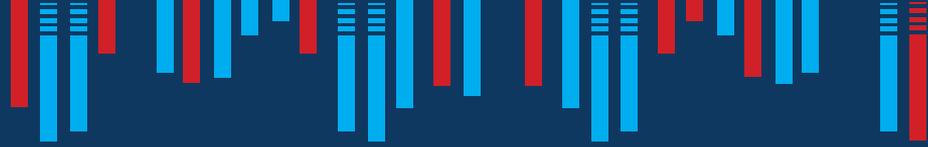
NICD provides organisations with the skills they need to obtain actionable insight by upskilling their own people on their own platforms using their own data.

NICD Programmes

| Data Insight | Data Connections | Data Skills |

→ ROI, IP **Skills**

| The Catalyst | The Ecosystem | The Team |

The Ecosystem

SMEs

Students

NICD Summary

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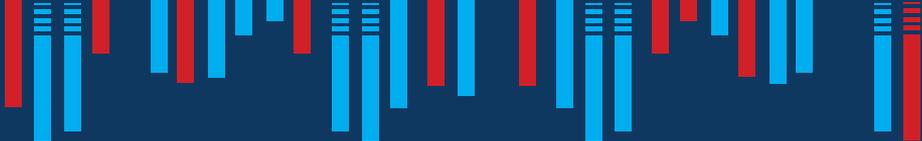
Recommendations

- Audit and connect existing data skills
- Explore your data needs (seek independent advice)
- Get management buy-in
- Pick low-hanging fruit
- Upskill your people (look at Data Science MScs)
- Be cautious with IT

National Innovation Centre for Data

Case Study

"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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