Welcome to UKTIN
- not another talking shop

Nick Johnson, Head of UKTIN
27th April 2023

UKTIN

Ready for take-off

UKTIN

Why UKTIN? A bit of history

Telecoms Diversification Taskforce
Findings and Report
April 2021

realwireless.
independent wireless experts

December 2021

Telecoms Front Door Service Requirements

A Diversification and R&D Scoping Strategic Study

A report from Real Wireless

DCMS Internal

UKTIN

The enduring policy, industrial and investment objectives

- **Front Door Service**
- **Skills Gap**
- **Supply Chain Diversification**
- **Revitalised SME sector**
- **Long term R&D**

All reinforced by the recently published Wireless Infrastructure Strategy

UKTIN

Department for
Science, Innovation
& Technology

Policy paper
UK Wireless Infrastructure Strategy

Published 11 April 2023

Roadmap

UK Vision

International
Alliances

Research and
Development

UK
6G

Patents and
Standards

Spectrum

...widespread adoption of 5G could see £159 billion in productivity benefits by 2035.

... high levels of 5G adoption in the manufacturing and logistics sectors could add £15 billion in additional GVA between now and 2035.

investing up to £100 million in future telecoms research and development, including through the [EPSRC's] Future Telecoms Research Hubs [...] where early stage and applied research will be funded and coordinated [...] putting the UK at the forefront of the diverse 6G research agenda

...providing up to £40 million for regions and local authorities across the UK to establish themselves as '5G Innovation Regions' to promote innovation and growth through investment in, and scaled adoption of, 5G and other advanced wireless technologies by business and public services
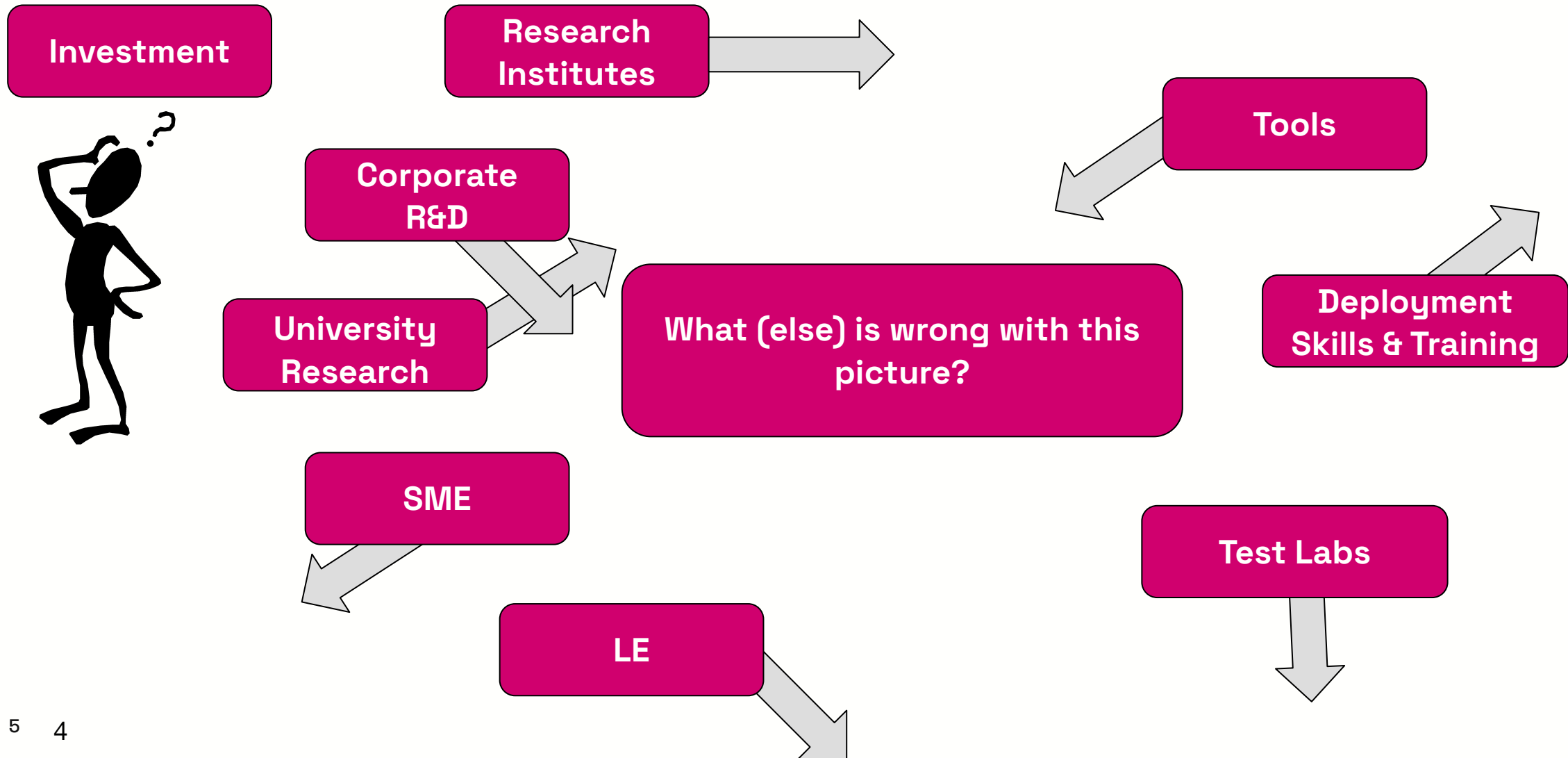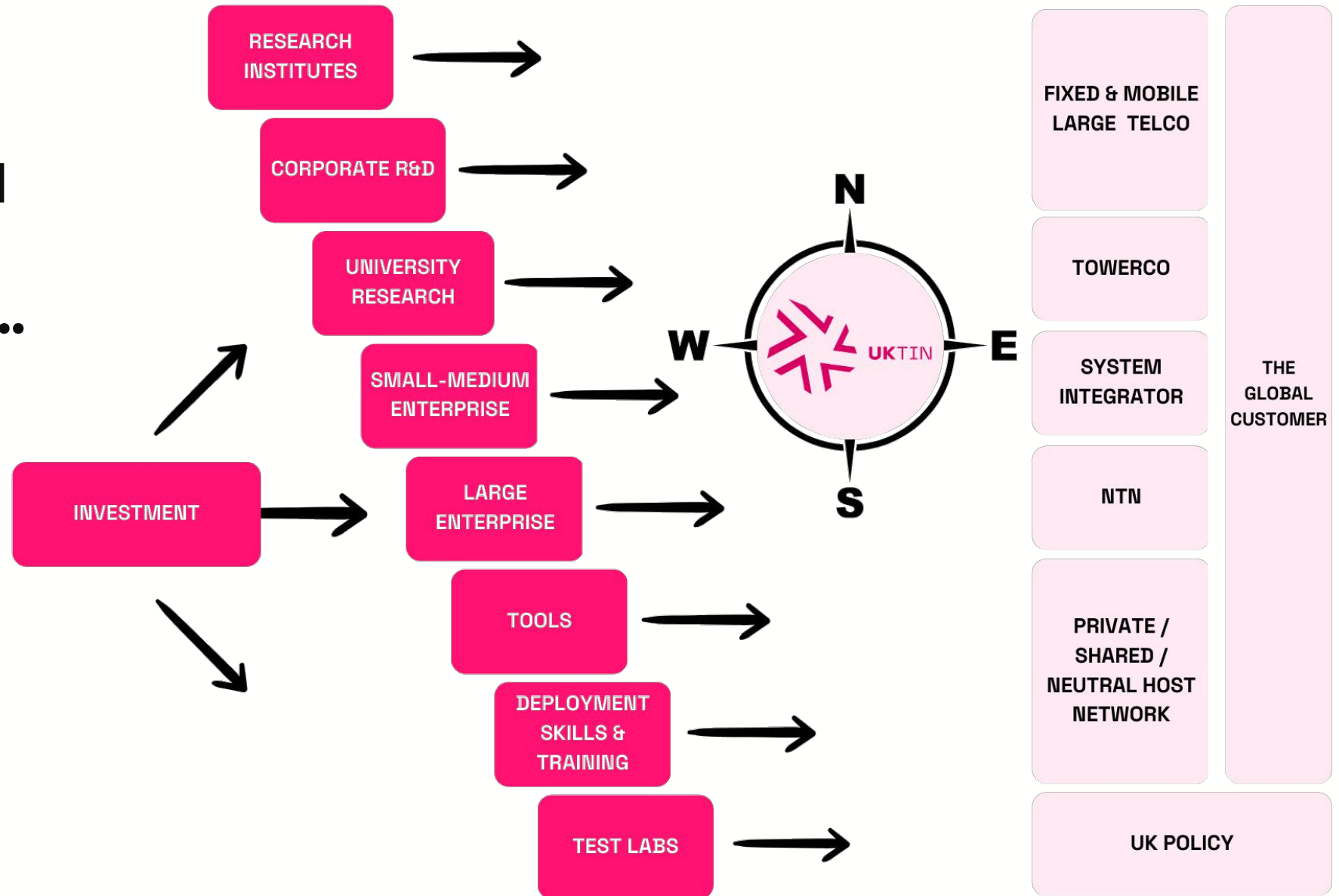
Supported by the [UKTIN] these platforms will engage with the telecoms industry, catapults and internationally around 3 broad themes:
1. a network of networks;
2. wireless and wired systems and spectrum;
3. cloud and distributed computing.

UK Innovation – a voice crying in the wilderness

Investment

Research Institutes

Tools

Corporate R&D

University Research

What (else) is wrong with this picture?

Deployment Skills & Training

SME

Test Labs

LE

Making the crooked straight, and the rough places plain...

RESEARCH INSTITUTES →

CORPORATE R&D →

UNIVERSITY RESEARCH →

SMALL-MEDIUM ENTERPRISE →

INVESTMENT →

LARGE ENTERPRISE →

TOOLS →

DEPLOYMENT SKILLS & TRAINING →

TEST LABS →

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S

FIXED & MOBILE LARGE TELCO

TOWERCO

SYSTEM INTEGRATOR

NTN

PRIVATE / SHARED / NEUTRAL HOST NETWORK

UK POLICY

THE GLOBAL CUSTOMER

UKTIN

	Ecosystem Communications	Marcomms and Events, new Web Portal	2
The Front Door Service	Data tools and service definition	Curated, easy access database of databases on UK telecom R&D&I capabilities in academia and industry. The stuff that Google can't find.	3
	Supplier Specialist Guidance	Expert signposting support to organisations - business support, brokering to research facilities, support for DCMS interventions	4
long-term R&D **Supply Chain Diversity**	Coordinating UK Telecoms Future Capability	Inclusive, impartial, tiered ecosystem consultation structure to feed Cross-Government Telecoms Strategy Coordination Group.	5
	Framework for **Innovation Translation**	Outreach to identified innovators and innovation-led companies. Frameworks for translation of early-stage tech into commercial products	6
Adoption & the Skills Gap	Regionality, Social Value, Skills & Training	National Telecoms Entrepreneurship, Employment and Training network. Better known as UKTIN Talent and UKTIN Clusters	7

The Front Door Service (WP3, 4 and 5) – make straight a highway

- **Signposting – Supplier Specialist Guidance – national and international**

- **Signposting - The Research Capability Database (RCD)**

- **The Front Door**

  - **Industry**
  - **Government**
  - **Investment**

The Expert Working Groups (EWGs), Strategic Working Groups (SWGs) and Advisory Board (AB)

Strengths

Gaps

Overlaps

Roadmap

CROSS-GOVERNMENTAL GROUP

DISSEMINATION TO INDUSTRY

UKTIN

Strategic Working Groups

R&D FUTURE CAPABILITY STRATEGIC LEADERSHIP

ADVISORY BOARD

ACADEMIC COORDINATION

INDUSTRY COORDINATION

Expert Working Groups

WIRELESS NETWORKING TECHNOLOGIES

CORE NETWORKING TECHNOLOGIES

SECURITY

NETWORK MANAGEMENT

ARTIFICIAL INTELLIGENCE

OPTICAL COMMUNICATIONS & PHOTONICS

SEMICONDUCTOR MATERIALS & DEVICES

NON-TERRESTRIAL NETWORKS

STANDARDS

Addressing the Skills Gap

UKTIN CLUSTERS

MAC 2.1: Create opportunities For entrepreneurship and help new organisations to grow, supporting economic growth and business creation.

UKTIN TALENT

MAC 2.2: Create employment and training opportunities particularly for those who face barriers to employment and/or who are located in deprived areas, and for people in industries with known skill shortages or in high growth sectors

MAC 2.3: Support educational attainment relevant to the contract, including training schemes that address skills gaps and result in recognised qualifications

The Front Door to the Front Door

How the Working Groups work...
1. Supply Chain Diversity (WP5 & 6)

Expert Working Groups (WP5)

Industry Coordination Group (WP5)

Innovation Translation (WP6)

UKTIN Clusters (WP7)

The (diversified) SME community
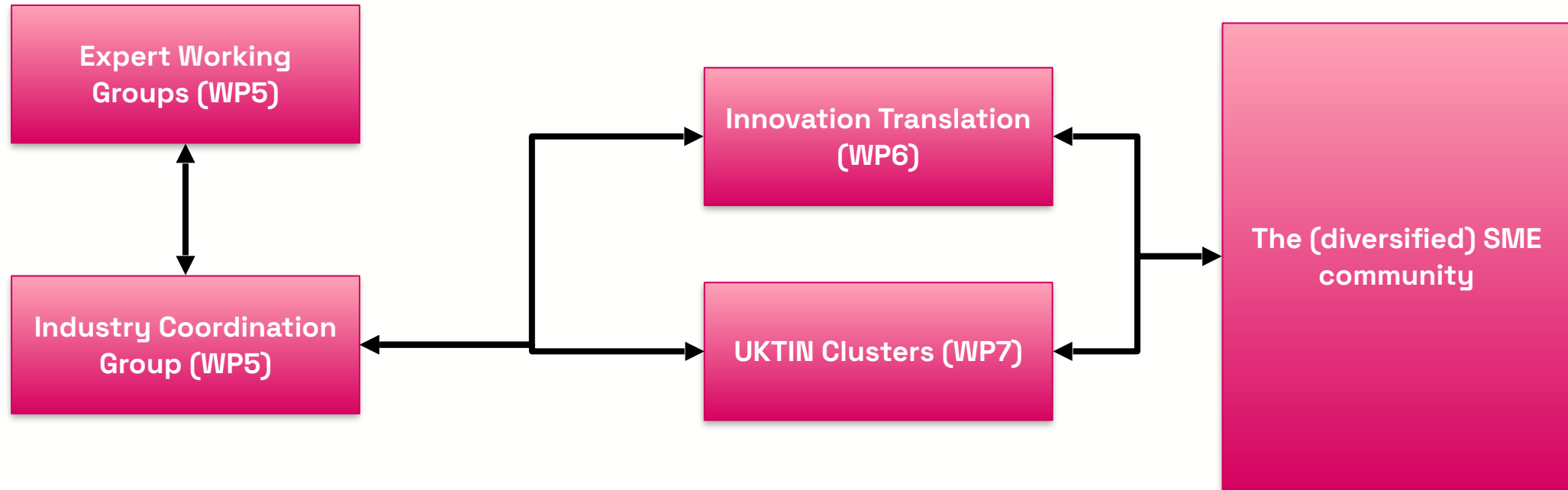
How the Working Groups Work
2. Long Term R&D (WP5)
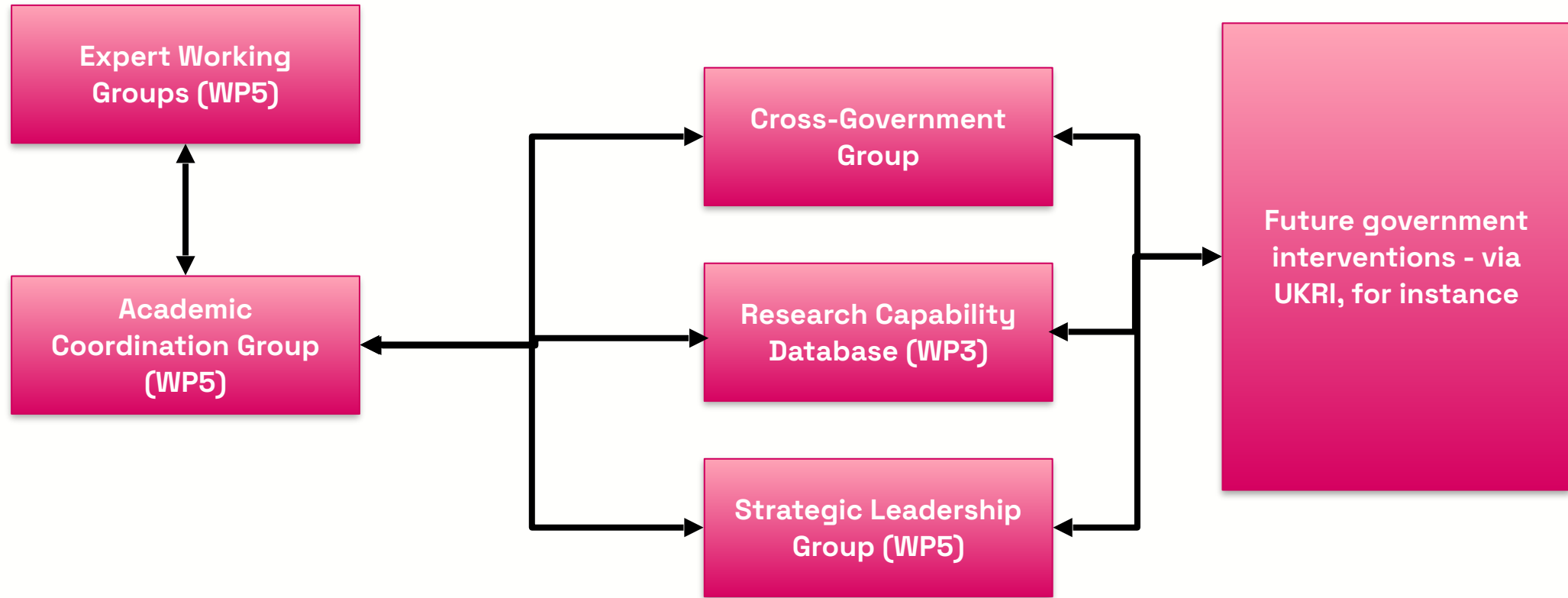
Driving awareness and engagement across both the Talent and Clusters groups

UKTIN
Talent

**Address skills challenges
Drive talent into the sector**

UKTIN
Clusters

Boost talent & entrepreneurship across the regions & nations

E.G. Industry, industry bodies, training/skills providers and Govt

E.G. Regional leads, leaders of regional assets/capabilities, industry, and Govt

STAKEHOLDERS

Service Delivery

	2023			2024				2025
	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Website & Journal								
Events	★	★	★	★	★	★	★	★
Research Capability Database								
Specialist Supplier Guidance								
Expert & Strategic Working Groups								
Future Capability Insights Reports			★	★			★	★
SME Innovation Workouts								
UKTIN Talent and Clusters								

Service preparation

Service active

The Front Door to the Front Door