

**Tell us what you think of GOV.UK**

Your feedback will help us improve this website

[No thanks](#)

[Home](#)

Guidance

# Interim Report of Future Communications Challenge Group: UK strategy and plan for 5G & Digitisation

From: [Department for Culture, Media & Sport](#) and [The Rt Hon Matt Hancock MP](#)  
Part of: [Broadband investment](#) and [Communications and telecomms](#)  
First published: 10 January 2017

The Government asked the Future Communications Challenge Group (FCCG) to give it advice on what the UK should do to be a world leader in 5G. The FCCG has now produced it's interim report.

## Documents



### [FCCG Interim Report](#)

PDF, 2.41MB, 52 pages

This file may not be suitable for users of assistive technology. [Request an accessible format.](#)

## Government Manifesto




Strong leadership, a clear economic plan, a brighter, more secure future.

We will ensure that Britain seizes the chance to be a world leader in the development of 5G, playing a key role in defining industry standards.

# Where are we now

UK plan and investment required, why we need test beds and trials now

Four iterative phases from research to commercialisation

PHASES	1) RESEARCH & DEVELOPMENT 	2) TEST BEDS & TRIALS 	3) EARLY DEPLOYMENT, INFRASTRUCTURE 	4) COMMERCIALISATION & EXPLOITATION
FOCUS AREAS	TECHNOLOGY BUILDING BLOCKS	VERTICAL USE CASES	VERTICAL USE CASES	VERTICAL USE CASES
		SYSTEMS INTEGRATION	SYSTEMS INTEGRATION	SERVICES
			SERVICES	

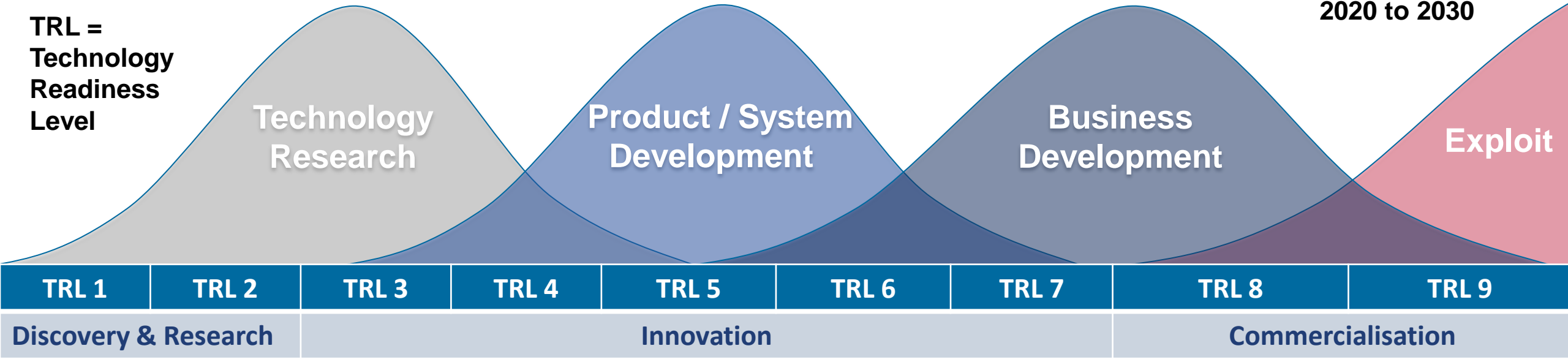
Research – continue to invest and build pipeline

Investment in phase 2 test bed and trials NOW




Industry investment – global leadership model 2017 to 2020

Exploitation and Socio-Economic Value enabled 2020 to 2030

TRL = Technology Readiness Level

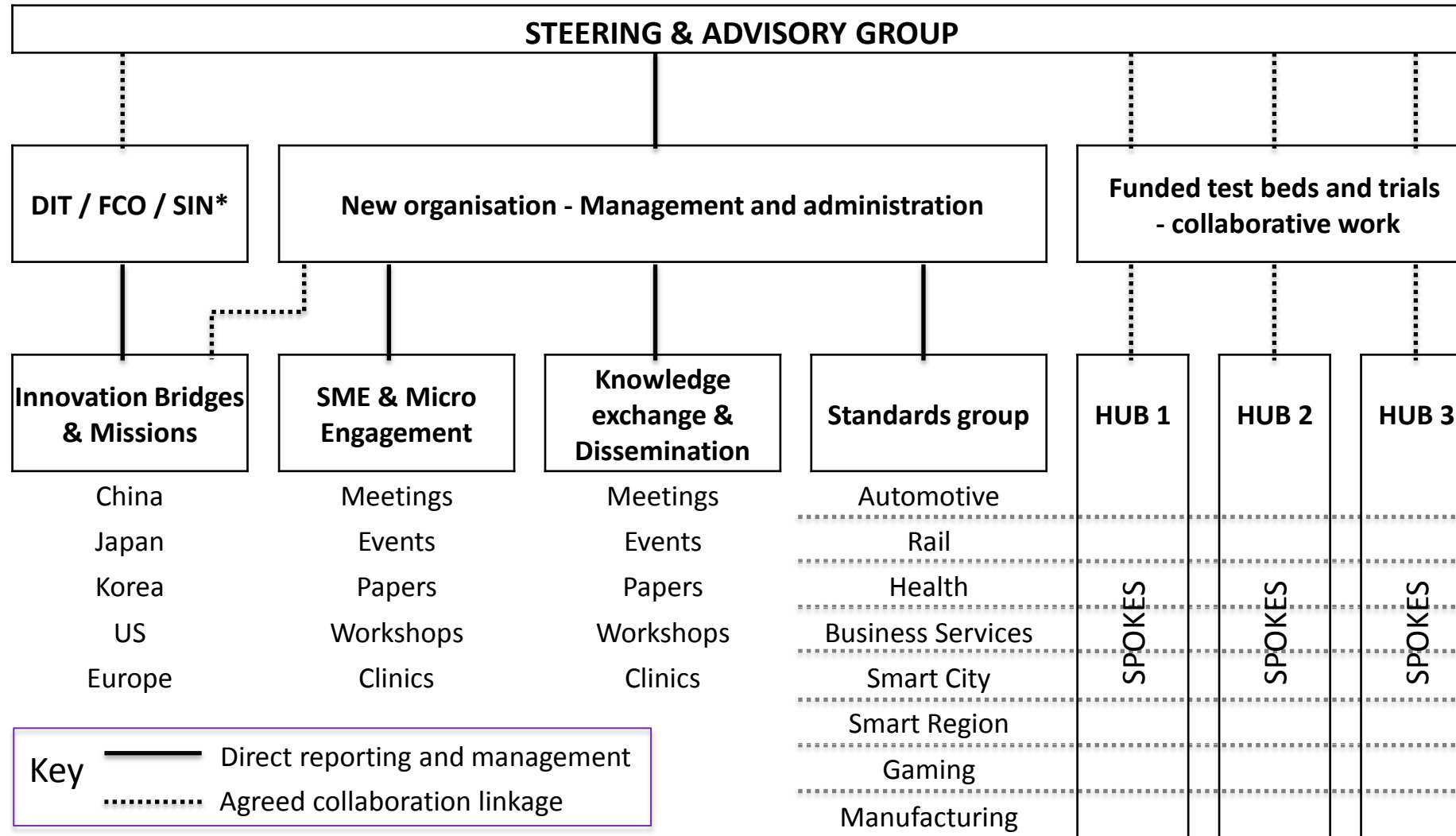


# FCCG report, Table 1 - Strategy, four phases from research to commercialisation (FINAL)

PHASES		1) RESEARCH & DEVELOPMENT 	2) TEST BEDS & TRIALS 	3) EARLY DEPLOYMENT, INFRASTRUCTURE 	4) COMMERCIALISATION & EXPLOITATION
FOCUS AREAS		TECHNOLOGY BUILDING BLOCKS	VERTICAL USE CASES	VERTICAL USE CASES	VERTICAL USE CASES
			SYSTEMS INTEGRATION	SYSTEMS INTEGRATION	SERVICES
				SERVICES	
Community WHO		Government	Government & Regulator(s)		
		Academia & Research		Investors	
		Supply Chain			
		Operators			
		Vertical value chain			
FUNDING AND POLICY REQUIRED	GOVERNMENT FUNDING REQUIRED	Establish steering group, UK events, meetings and standards / dissemination activities.			
		Support for international work / science bridges.			
		Increase existing funds. BEIS, RCUK & InnovateUK.  Implement actions to ensure stronger alignment	Fund a series of test beds and trials. Goal - 5G Phase 1 end to end trial by Q1 2018.	Potential new funds required 2019 to 2020. Informed by previous test beds and trial work from Phase 2.	
	INDUSTRY INVESTMENT	Government funding providing catalyst for additional funding and investment			Funding by Industry / Investors
POLICY & REGULATION	Policy for 5G & IoT alignment and adoption - ICT and Verticals.				
	Stronger alignment - academia, industry and government to steer.		Spectrum, Regulatory, planning and other key challenges required – see sections 4 and 5		
STANDARDS & DISSEMINATION		UK alignment activities. Collaborate, share and disseminate. Cross Verticals Workshops. Agree common positions to drive Standards.			

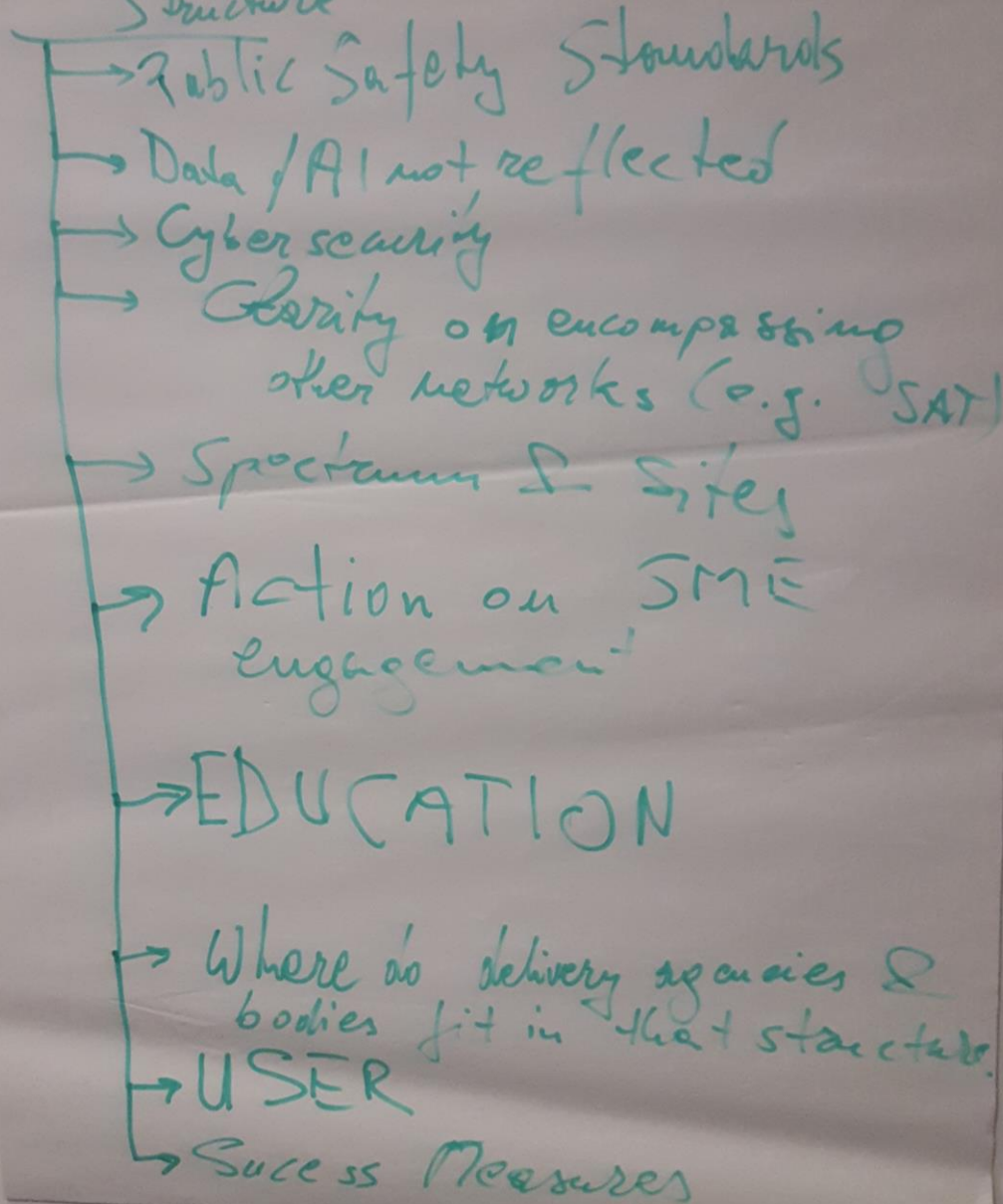
# The need for UK leadership

## FCCG report structure proposal



\* Department for International Trade(DIT), Foreign & Commonwealth Office (FCO) and Science Innovation Network (SIN)

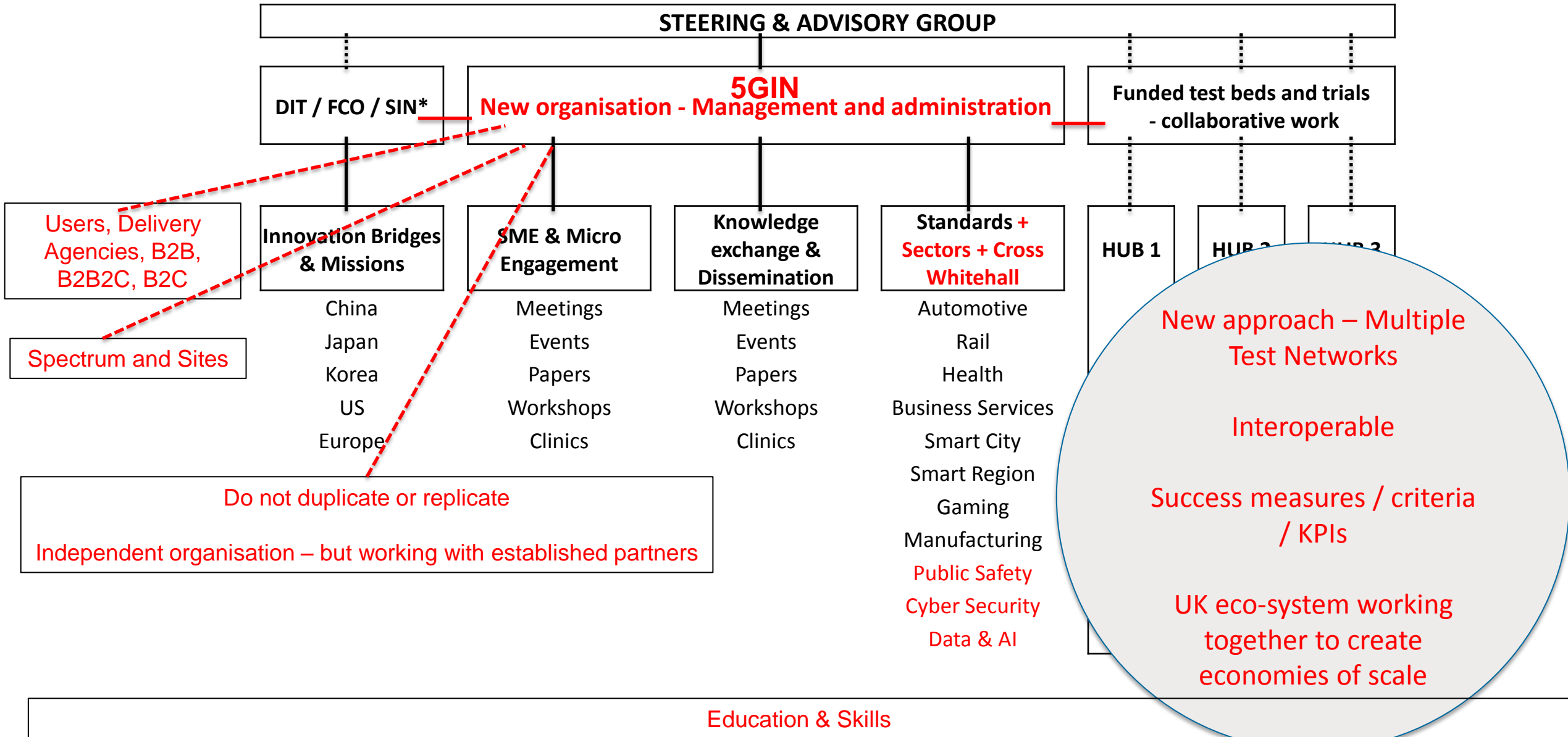
① What's missing from FCCG Innovation Network Structure



What's missing from the FCCG Innovation Structure

- Public Safety / Standards
- Data / AI not reflected
- Cyber Security
- Clarity on encompassing other networks
- Spectrum & Sites
- Actions on SME engagement
- Education
- Where do delivery agencies and bodies fit into structure
- User
- Success Measures

The need for UK leadership – updates created from 5G work at Ordnance Survey on the 20<sup>th</sup> Sep '17  
~~FCCG~~ report structure proposal – discussions at workshop – proposed additions and links in red



## 5GIN discussion points - checklist

- Body to link all 5G UK activities and projects
- Encouraging common approaches, co-ordination and economies of scale
  - Projects
  - Standards
  - Forums
  - Government including linkage across departments
  - Academia
  - Industry
- International engagement
- UK brand
- Knowledge exchange and dissemination
  - UK
  - International
- Instruments and activities:
  - Events
  - Meetings
  - Papers