



CELTIC-NEXT

Online Proposers Day

10th December 2019, via WebEx



AIMM

(Artificial-Intelligence-enabled Massive Multiple-input multiple-output)

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BT Research and Innovation

3rd

largest investor in R&D in the UK over past ten years

3rd

highest number of patents filed with the European Patent Office of UK-based companies

2nd

largest investor in R&D in the fixed line telecoms sector over past ten years

£2.5 billion

spent on R&D over the last five years

30+

Direct university research relationships

1300

Graduates and Apprentices recruited by BT in 2017

97

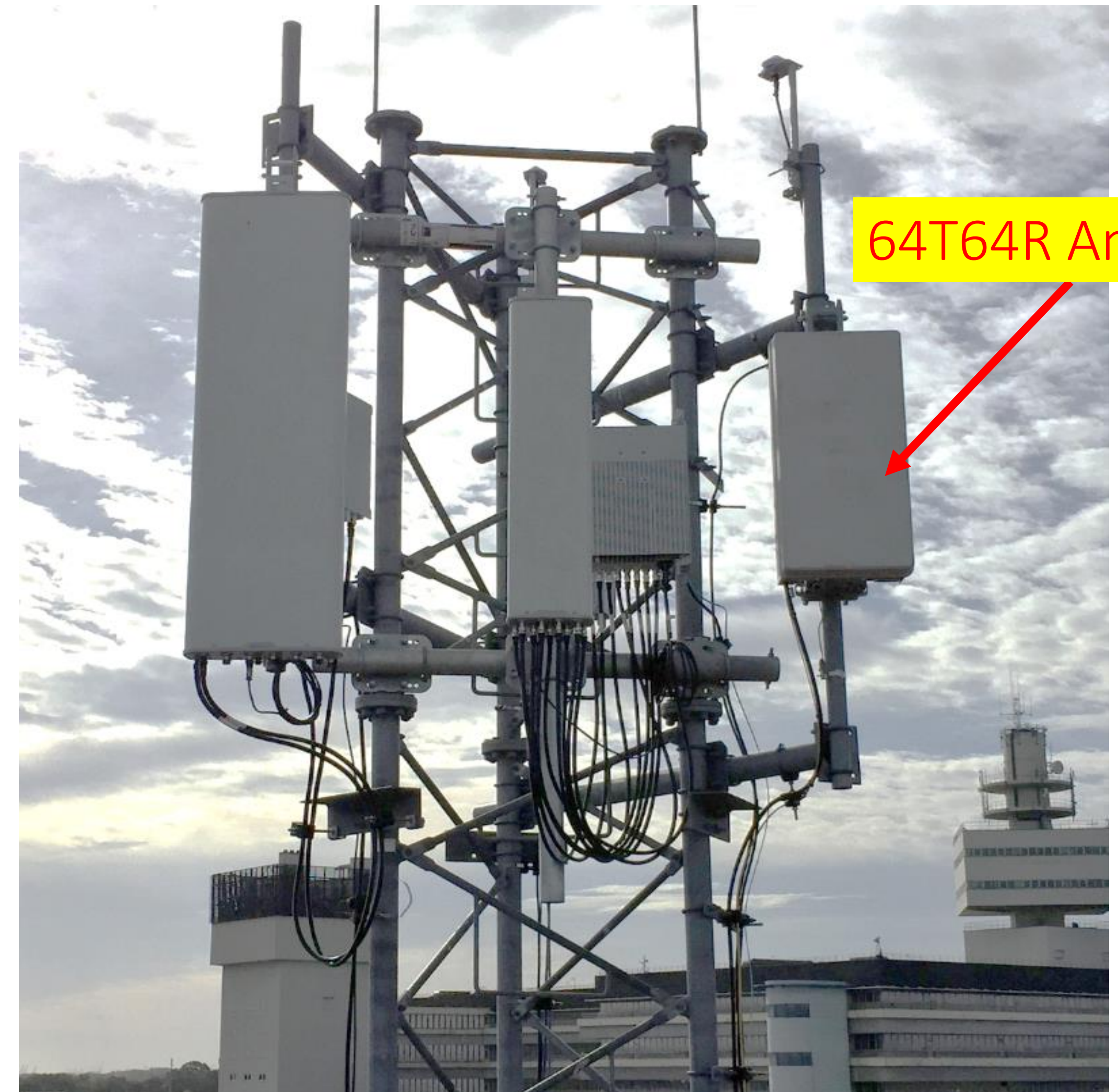
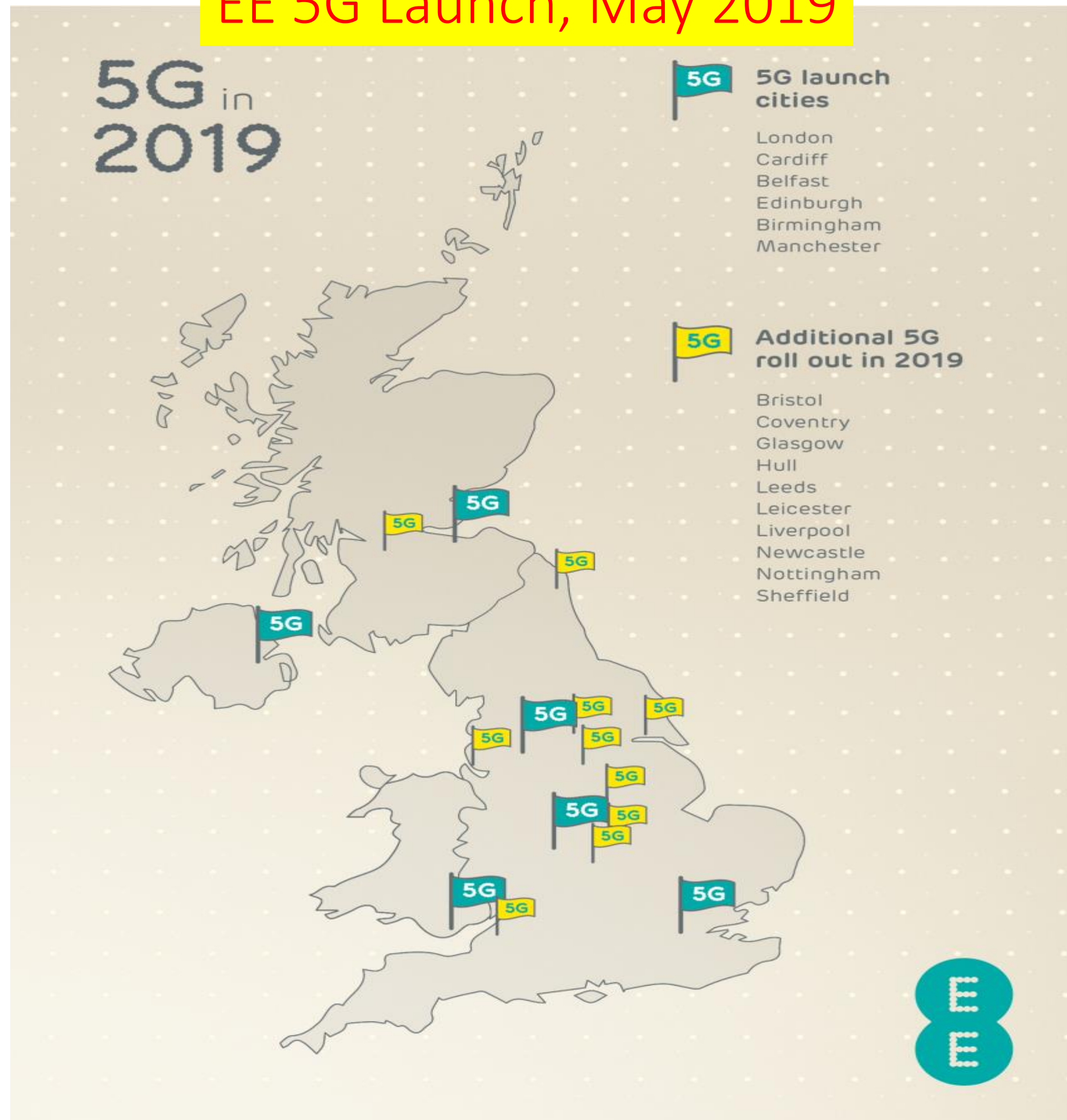
Number of inventions filed in 2017/18

5000

patents in our portfolio

Massive MIMO: key air-interface technology in 5G

EE 5G Launch, May 2019

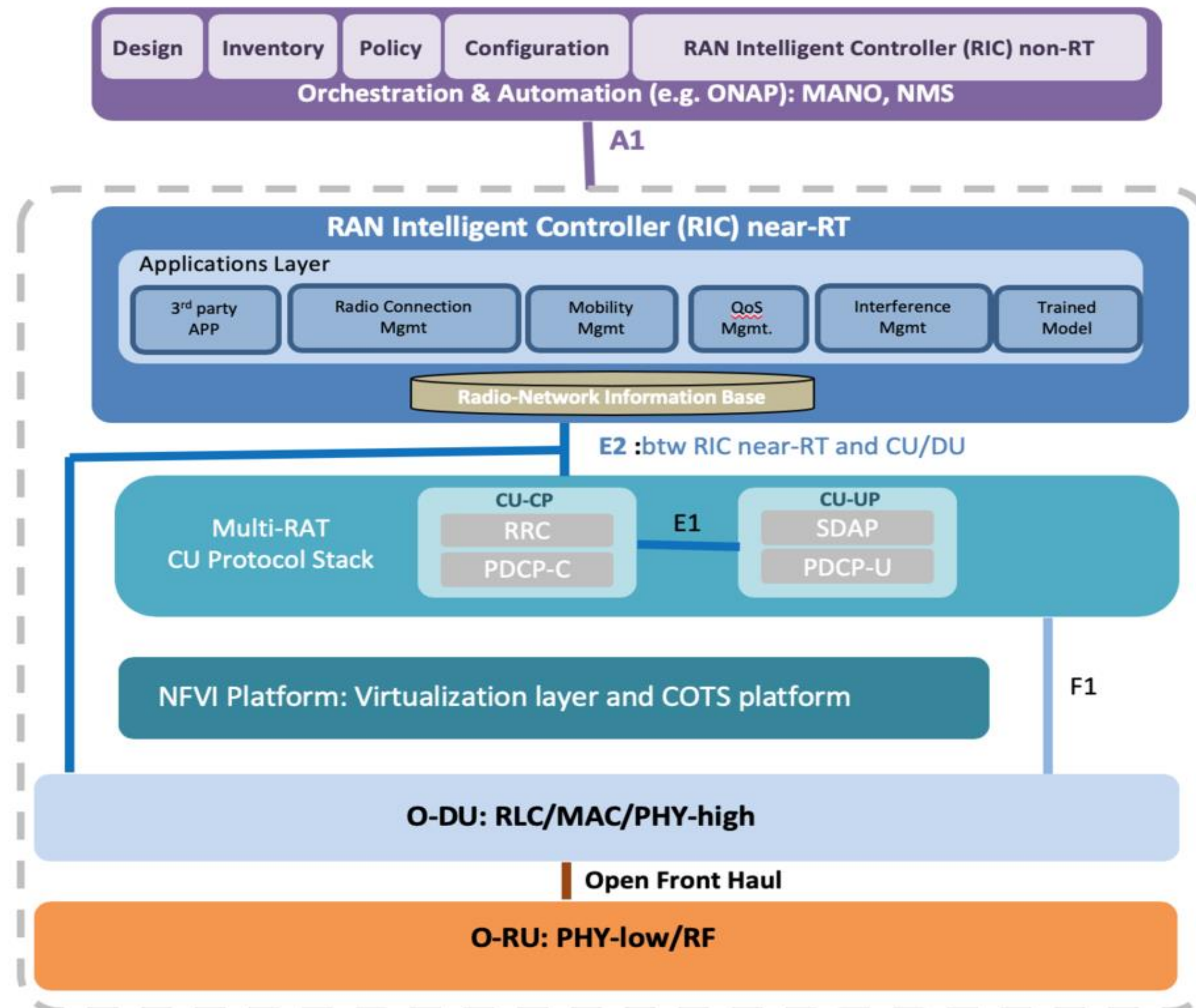


AI-based 5G Radio Access Network

O-RAN Architecture

Self-organising networks (SON) features:

- Self-configuration
- Self-healing
- Mobility management
- Interference mitigation
- Energy savings

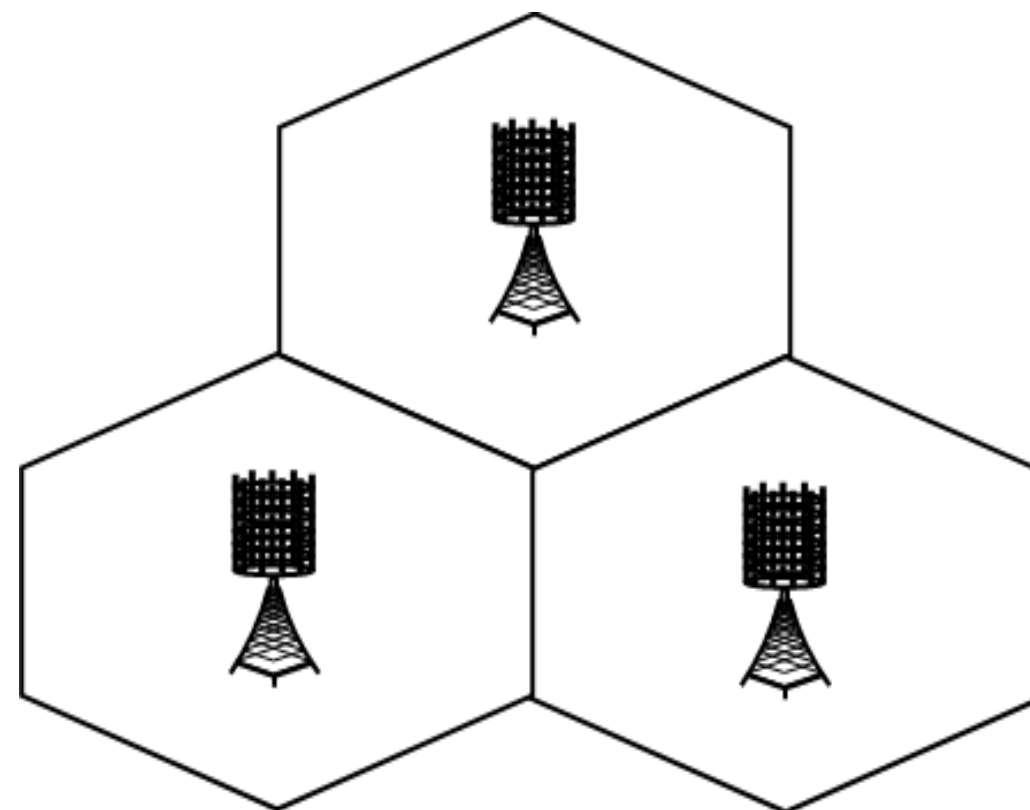


AIMM Introduction

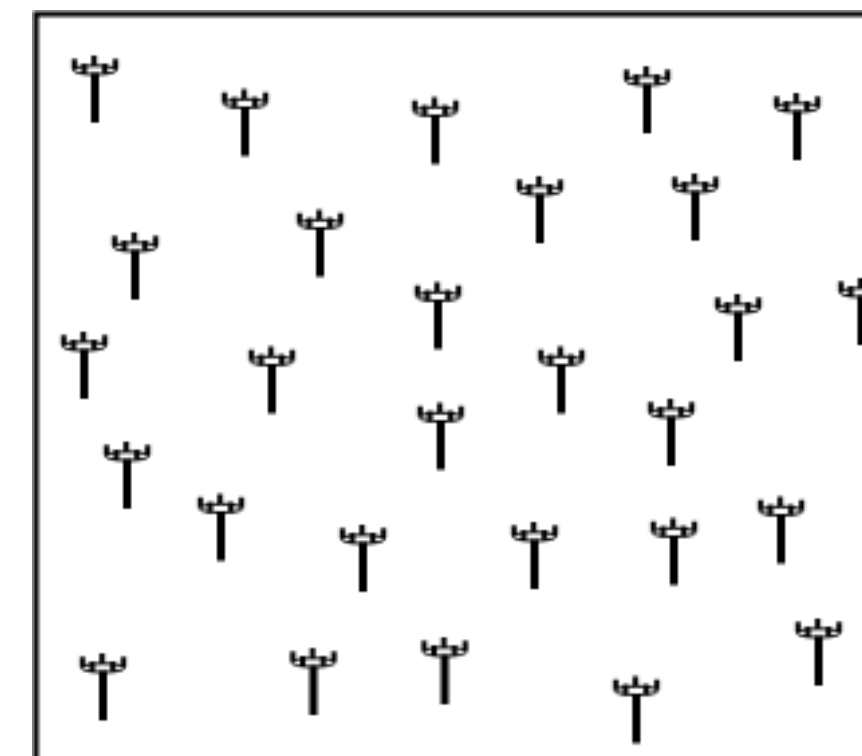
AIMM looks to incorporate AI capabilities in 5G RAN:

- Defining KPIs, use-cases & the business case for AI-based 5G and beyond.
- Exploring novel antenna configurations and the use of intelligent metasurfaces
- Building of comprehensive AI algorithms for 5G RAN management and operation.
- Implementing practical AIMM testbeds for both centralised and cell-less antenna systems.

Centralised Massive MIMO

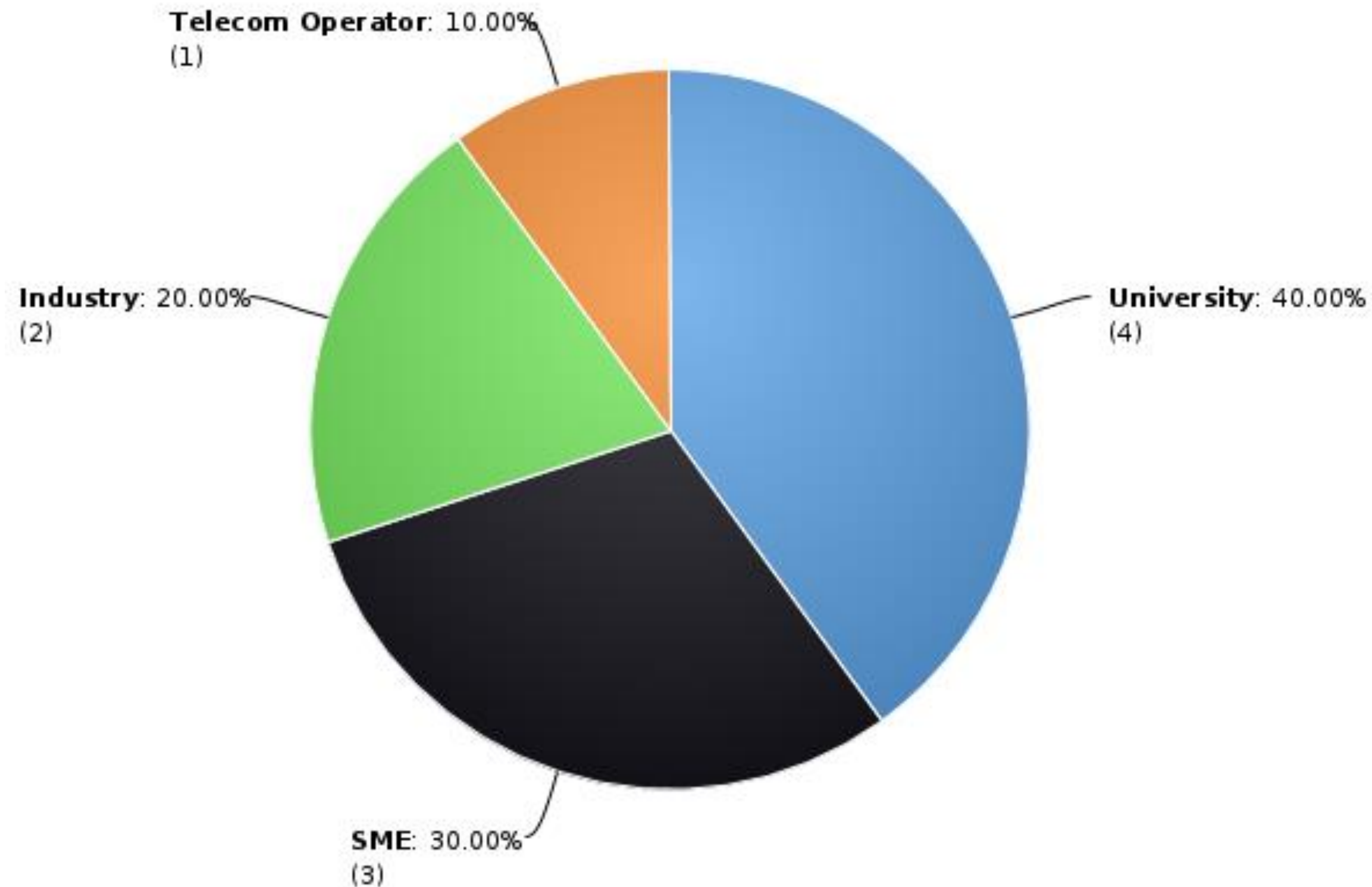


Cell-less Massive MIMO

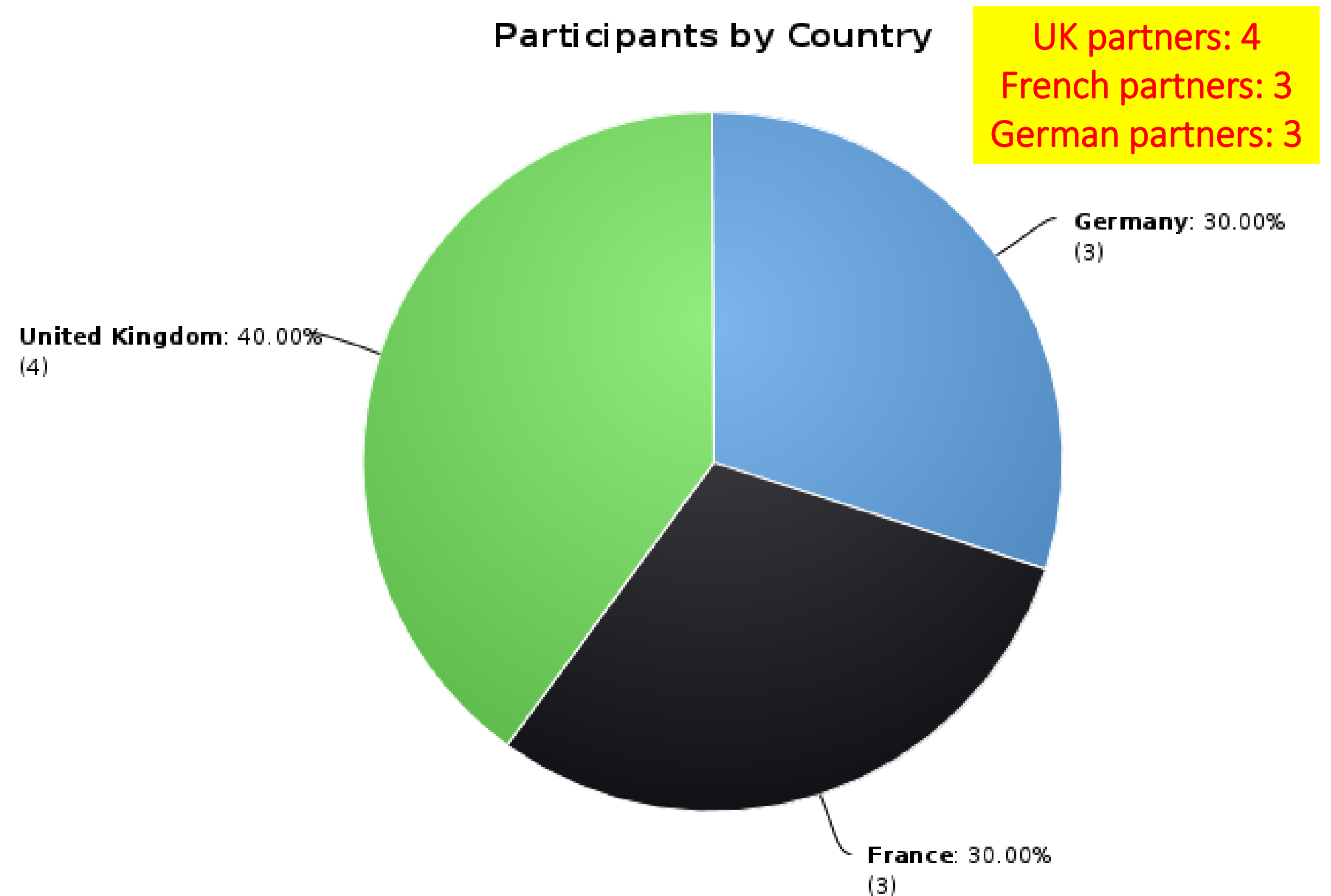


Partners

Type of Participants



Participants by Country



AIMM has already been through the assessment phase and received the CELTIC label.
We are looking to potentially bring in additional partners particularly SMEs from other clusters.

Contact Info



For more information and for interest to participate please contact:

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Presentation available via:

