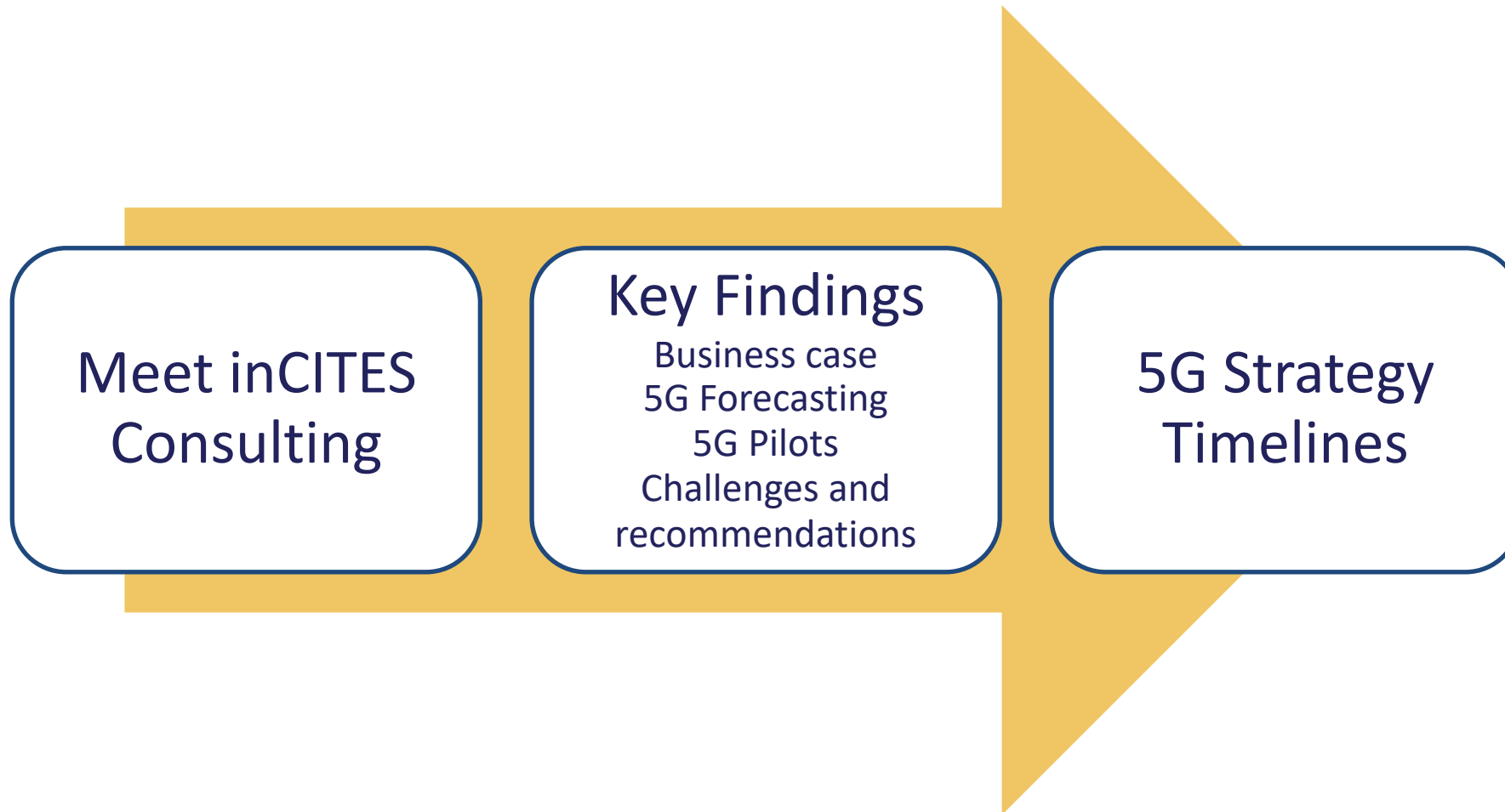


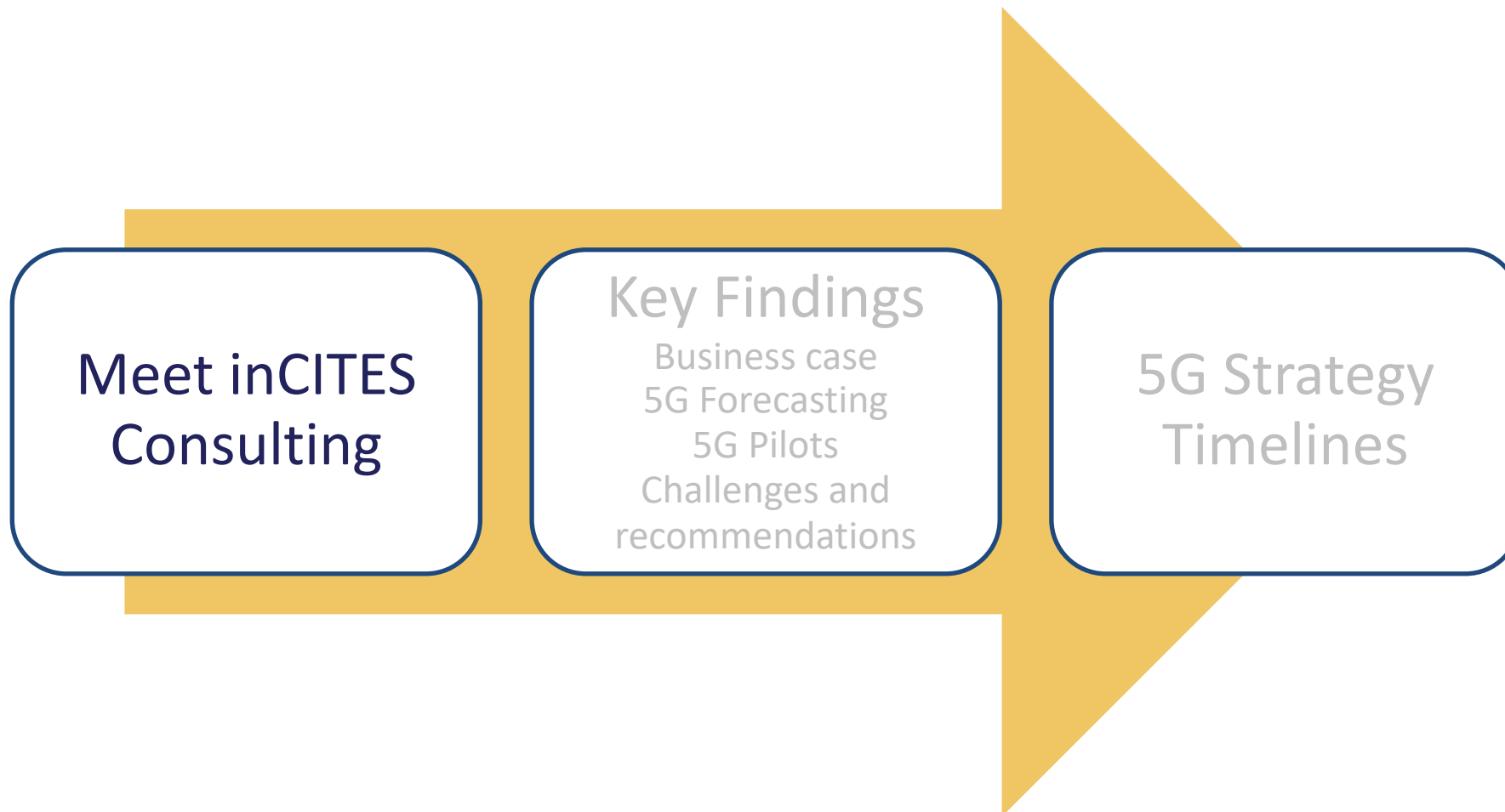
«Case study: Ανάπτυξη 5G δικτύων στο Λουξεμβούργο Ευκαιρίες και Προκλήσεις»

Dr. Ioannis Neokosmidis, CEO

Agenda



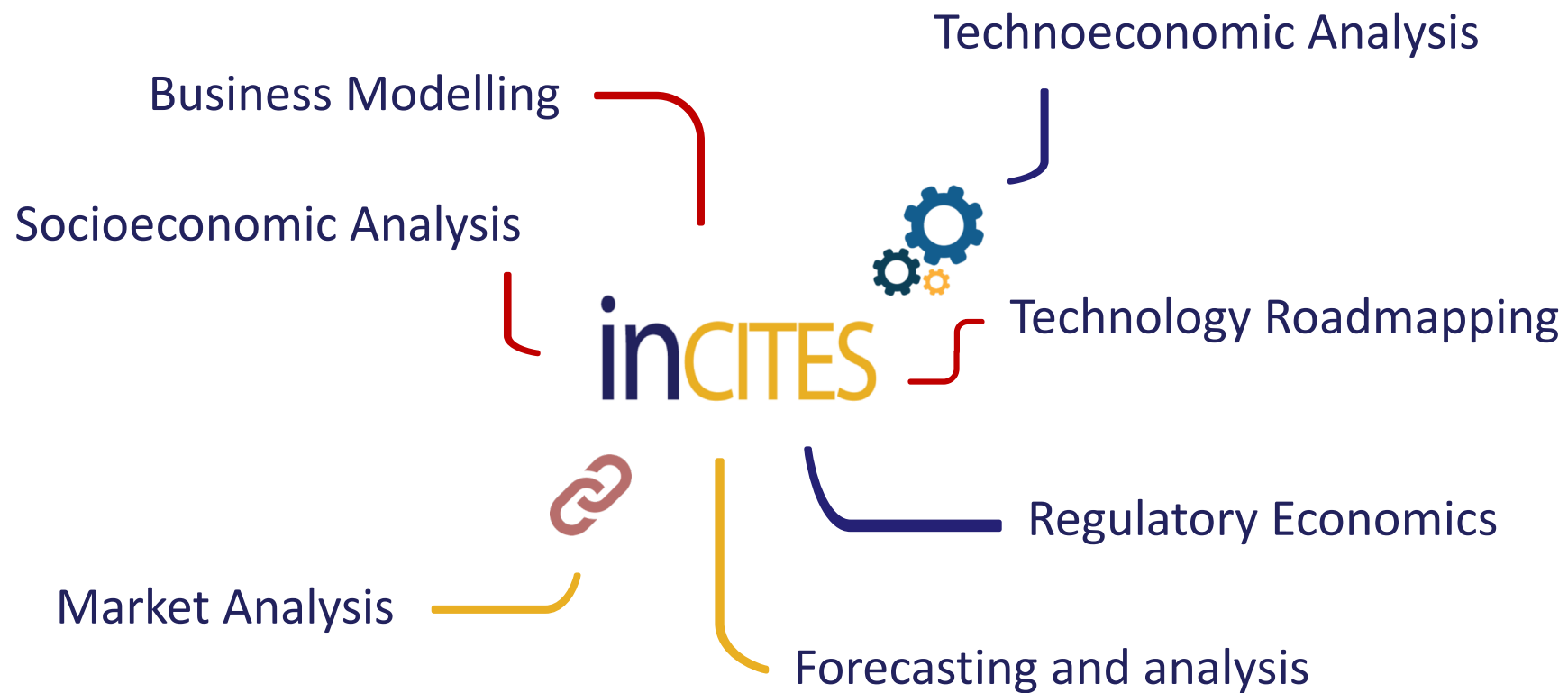
Agenda



Who we are



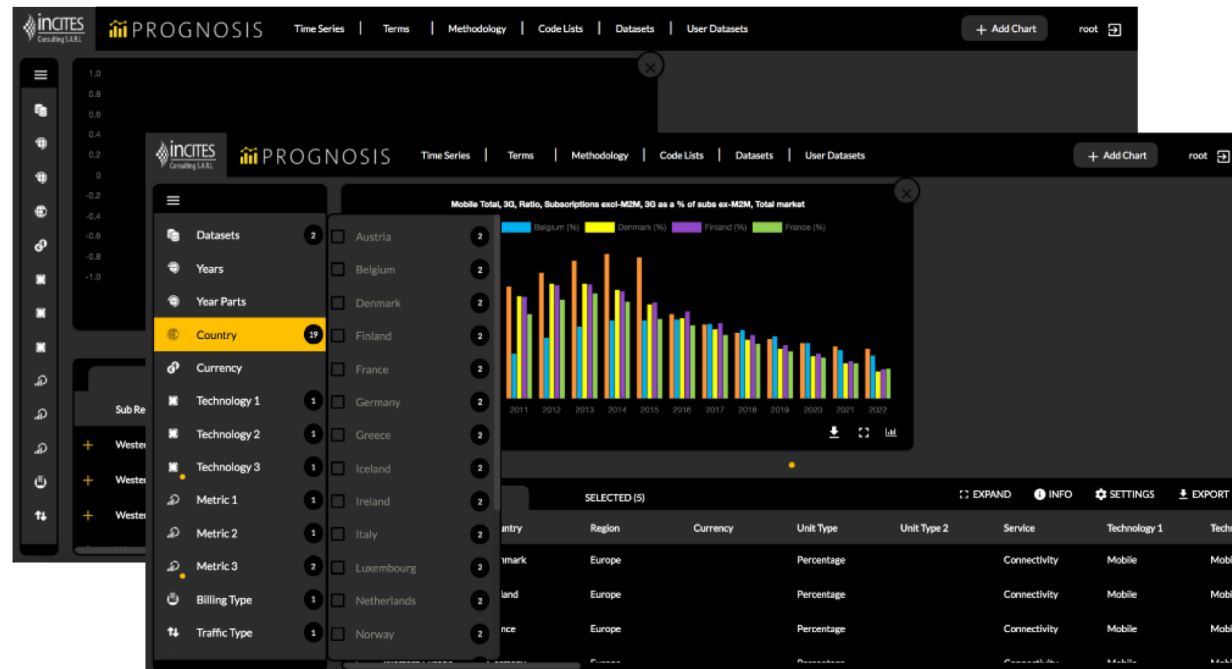
Consulting



Research



Prognosis



41 European countries



160+ KPIs

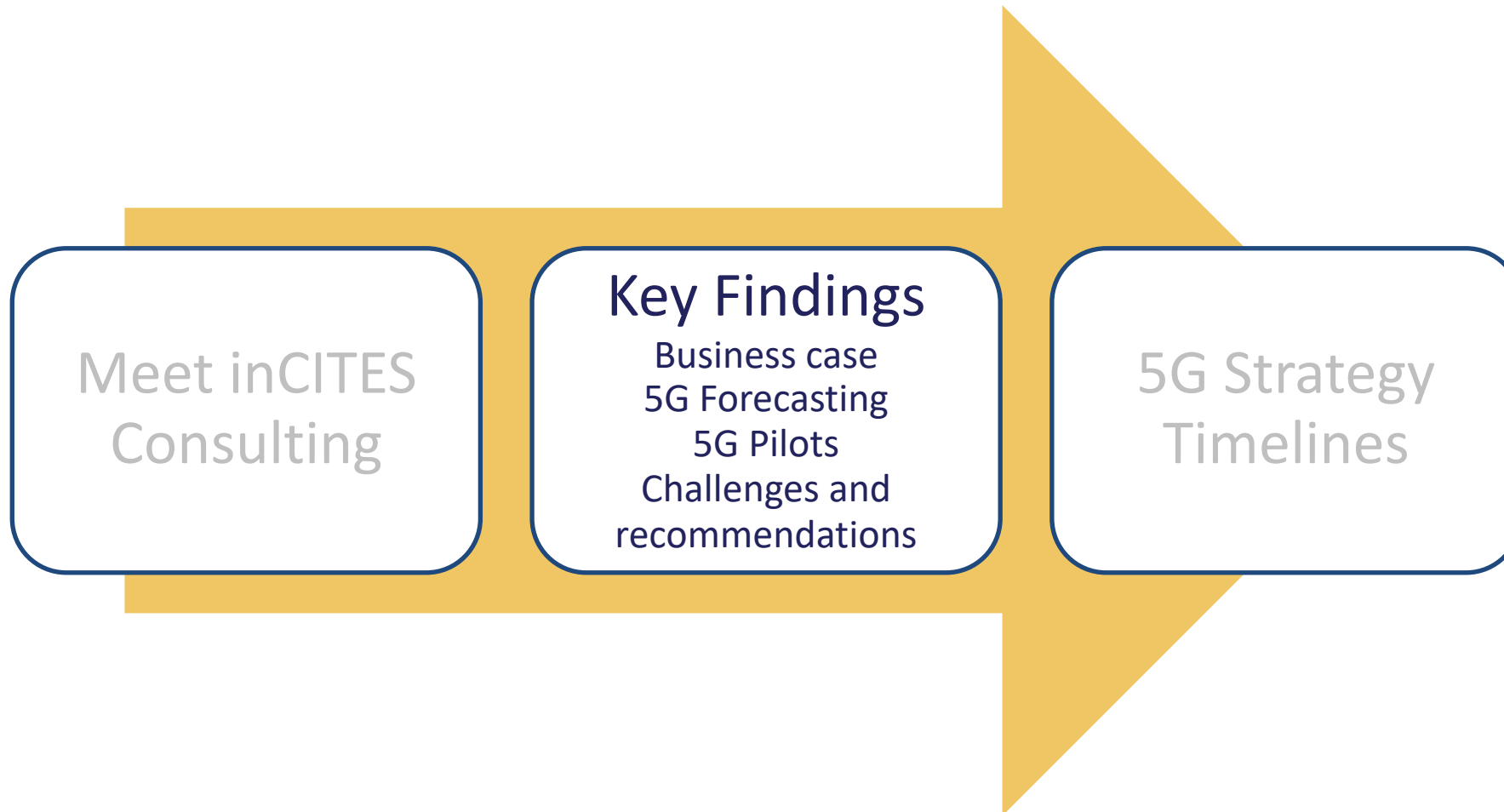


110k+ data points



22 years of coverage

Agenda



Luxembourg Business Case

Focus on niches that the required capabilities are not readily or cost effectively met by alternatives.

Facility Manager

- Rent space
- Rent facilities (lampposts, street cabinets, stadiums etc.)

Infrastructure Owner

- Datacenters
- Cloud
- ...

Neutral Host Operator

- Provide wholesale access
- Smart pipe
- Optimize performance
- Partnerships

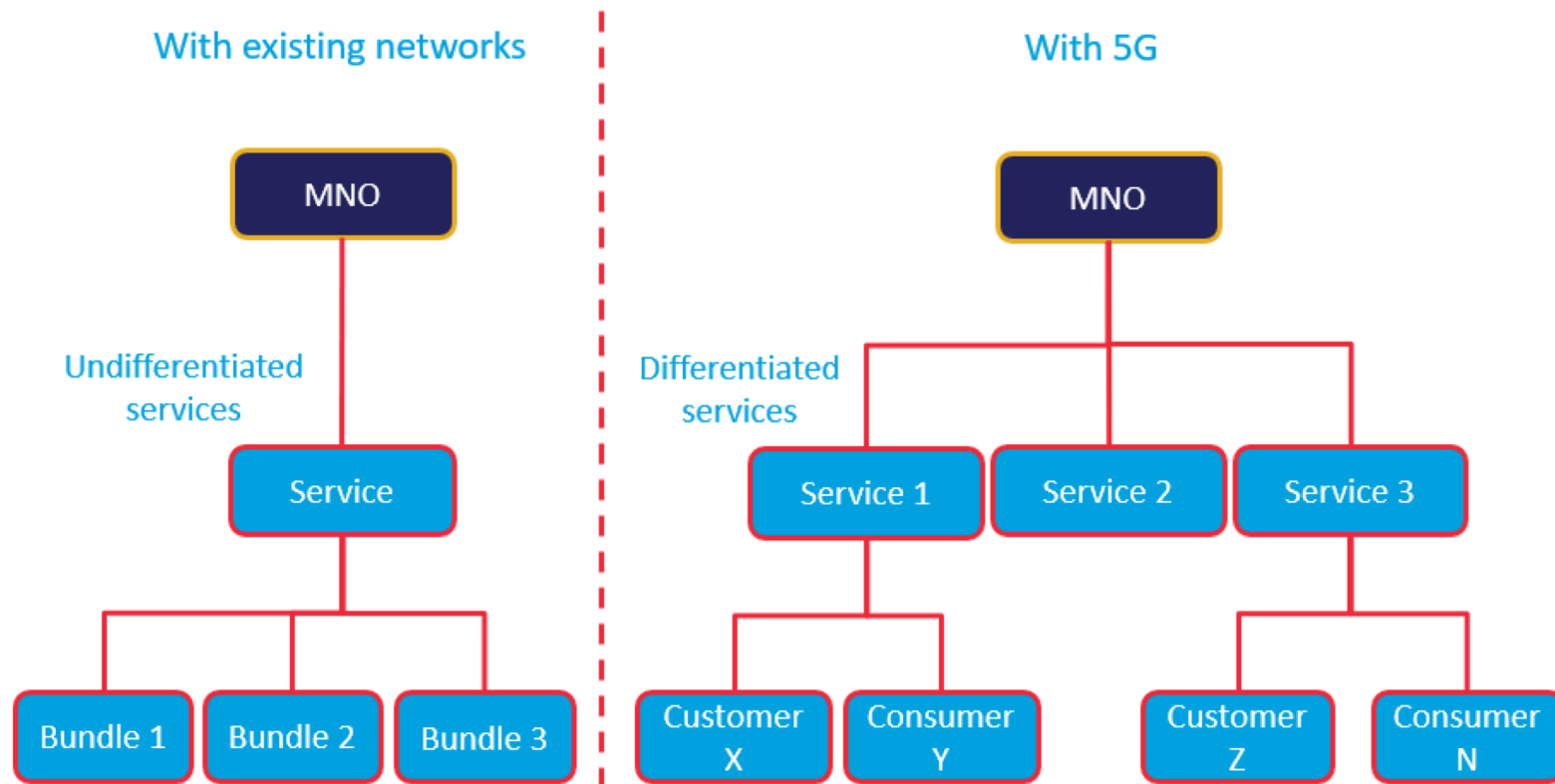
Service / Content Provider

- Differentiation
- Tailor-made personalized services
- Meet clients requirements

No killer application – No massive deployments are expected – 5G islets

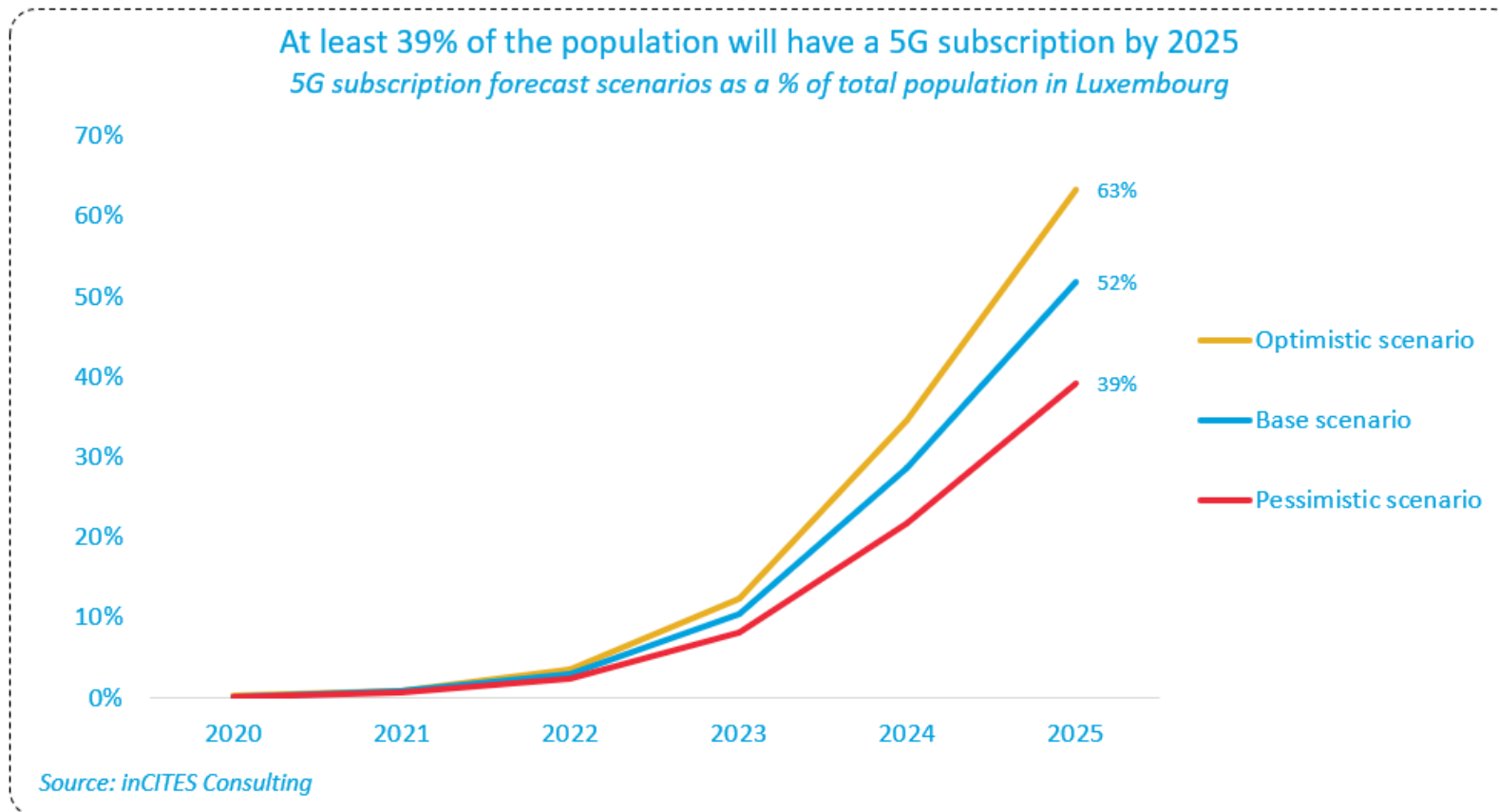
5G Business Model

- Service provisioning will enable various new business models in the 5G era



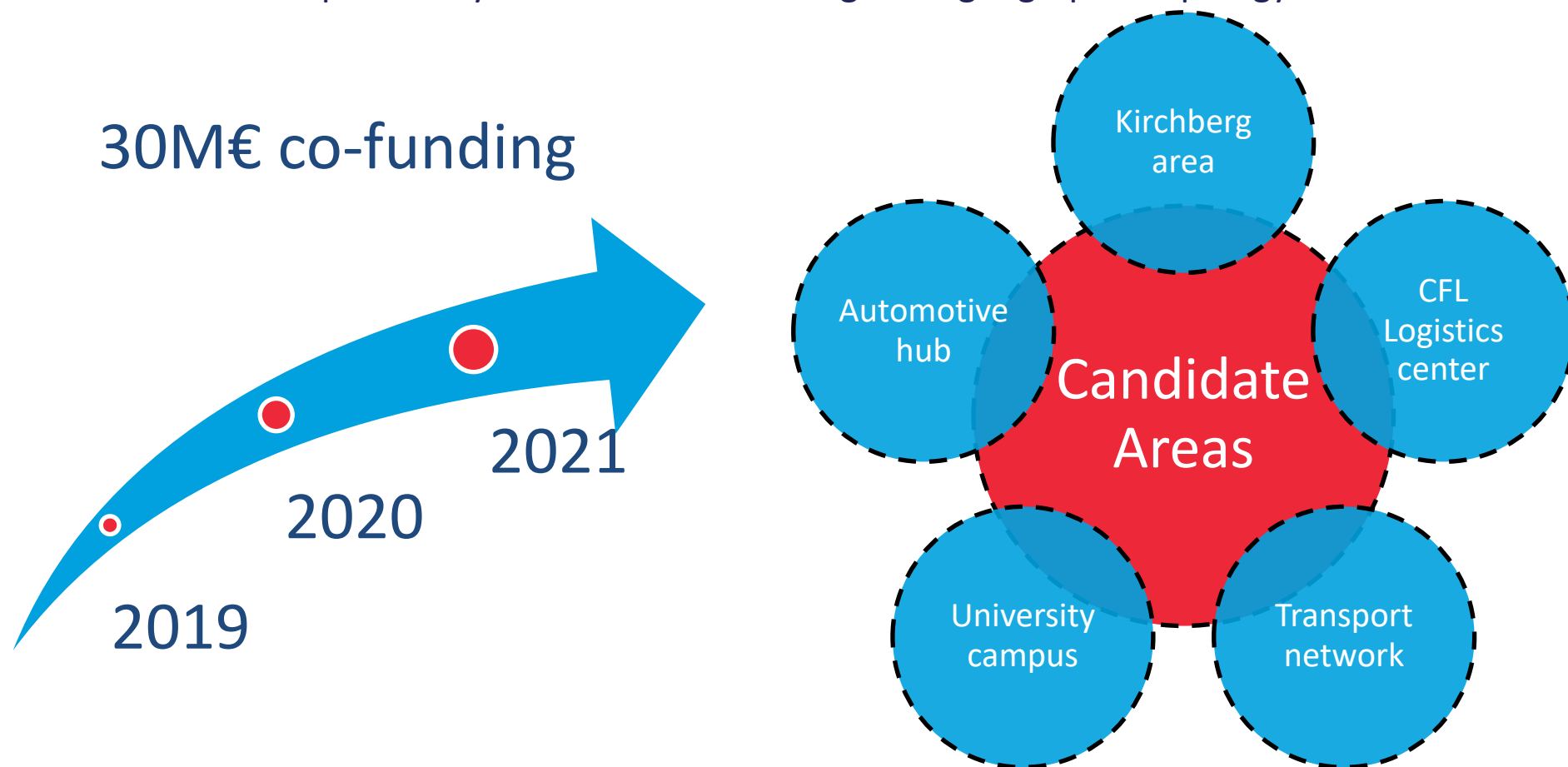
5G Forecasting

- Luxembourg needs to leverage its strong digital assets to realise the potential of 5G



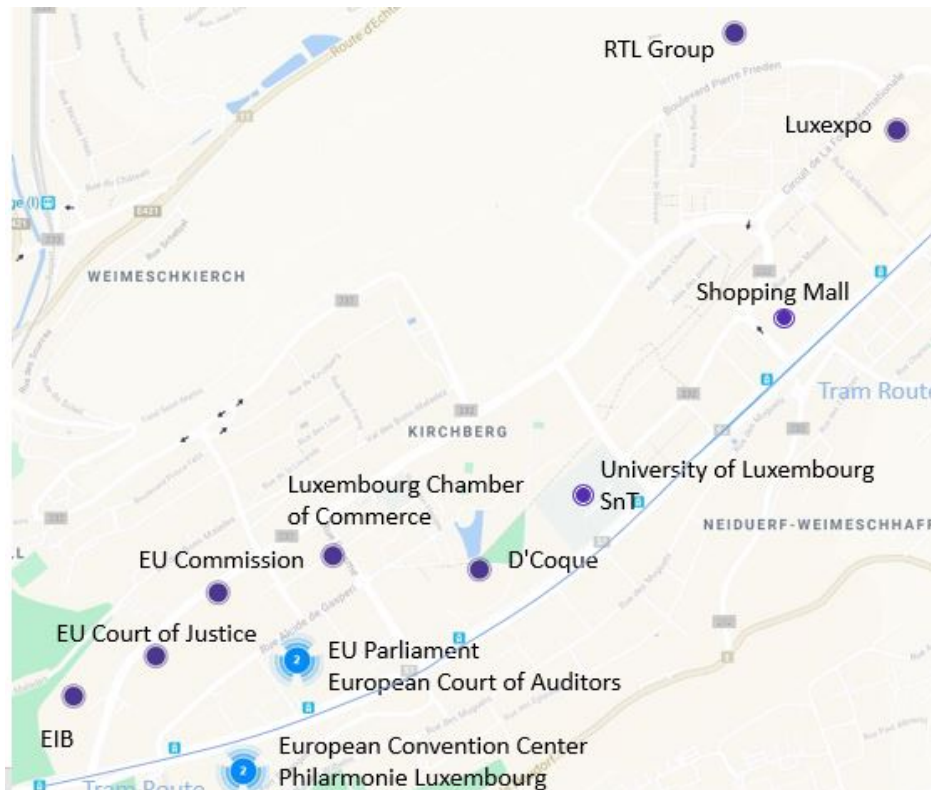
Luxembourg 5G Pilots

- The pilots vary both in sector coverage and geographic topology



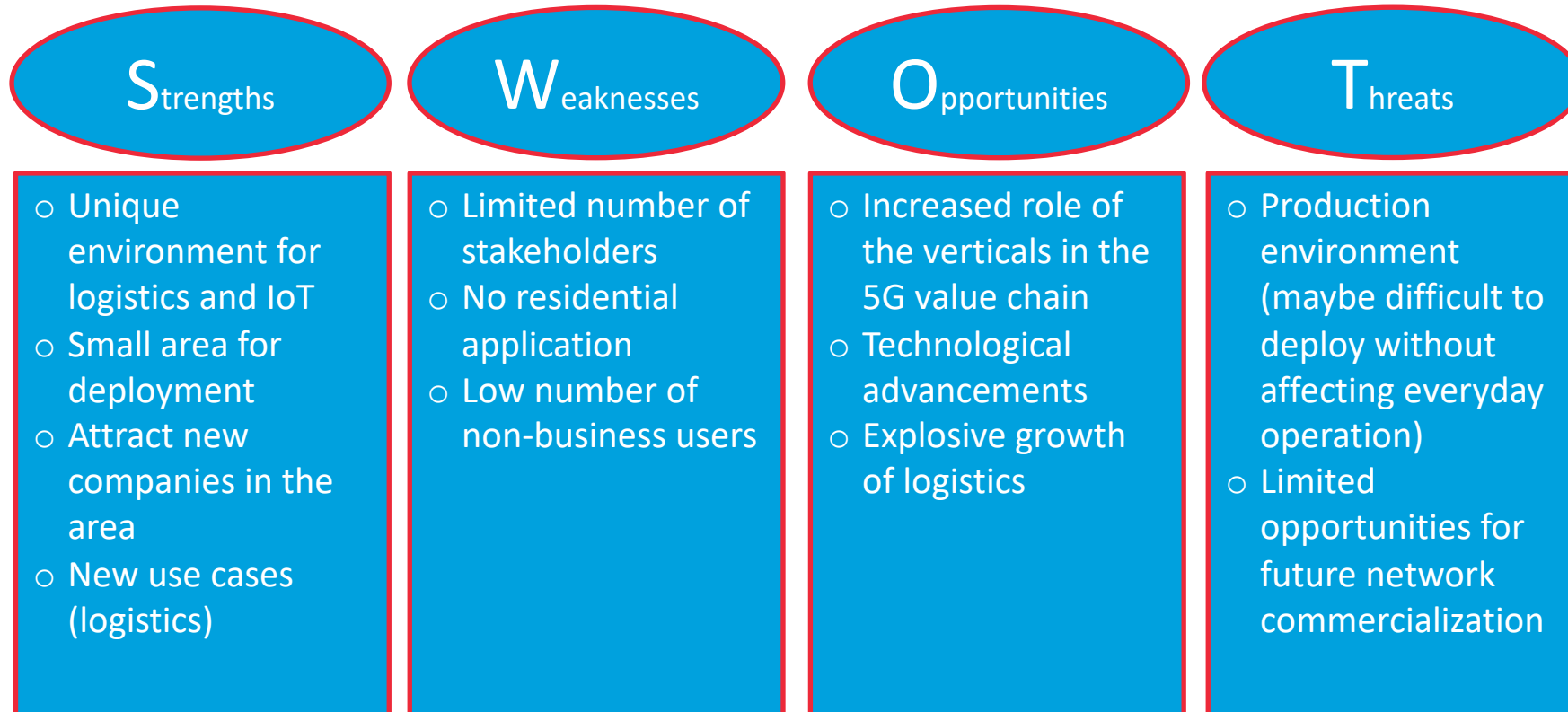
Luxembourg 5G Pilots - Kirchberg

- Kirchberg's great variety of stakeholders provides for testing a multitude of use cases



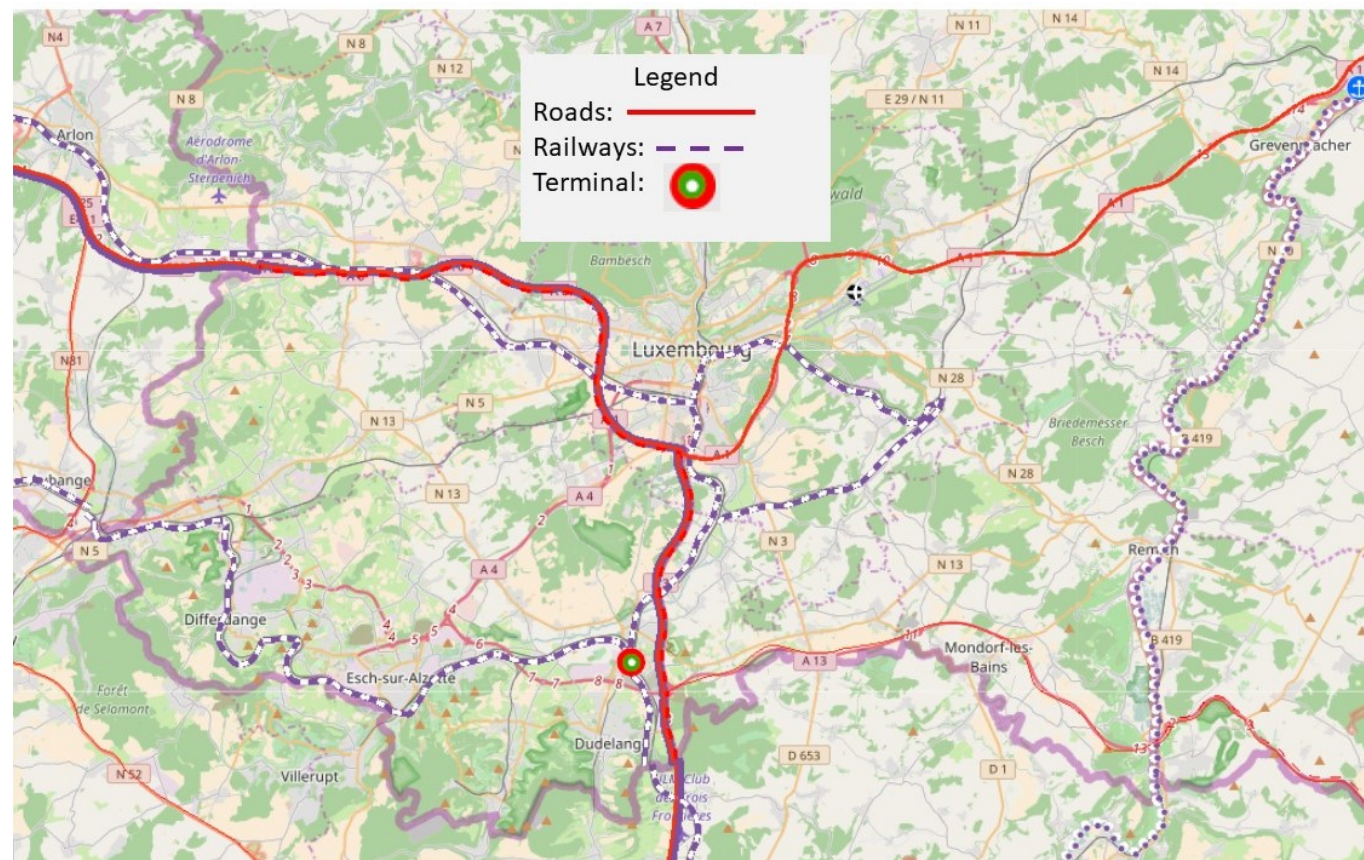
Luxembourg 5G Pilots - CFL

- Industrial use cases will drive 5G uptake in the medium-to-long run



Luxembourg 5G Pilots - Transport

- All major transport routes to have uninterrupted 5G coverage by 2025

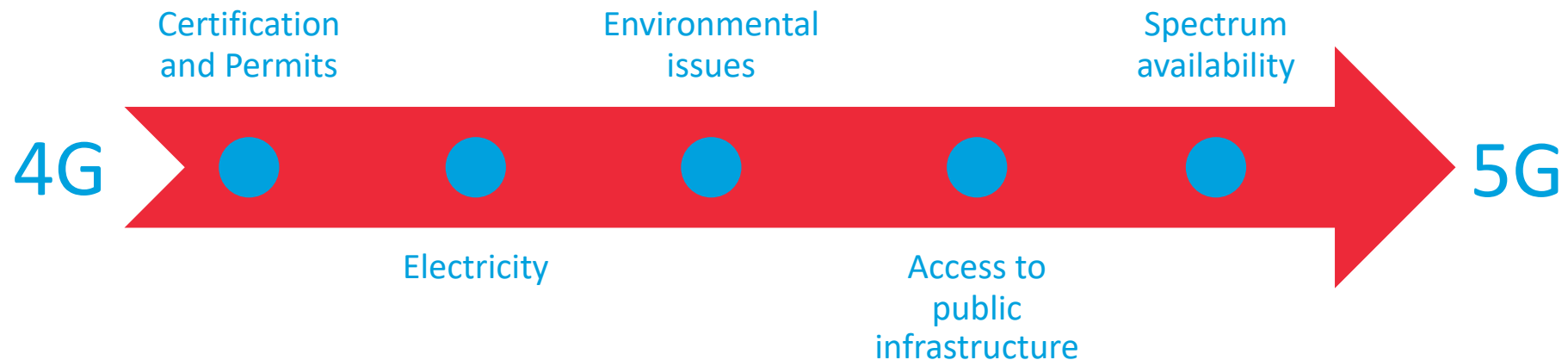


Current market status

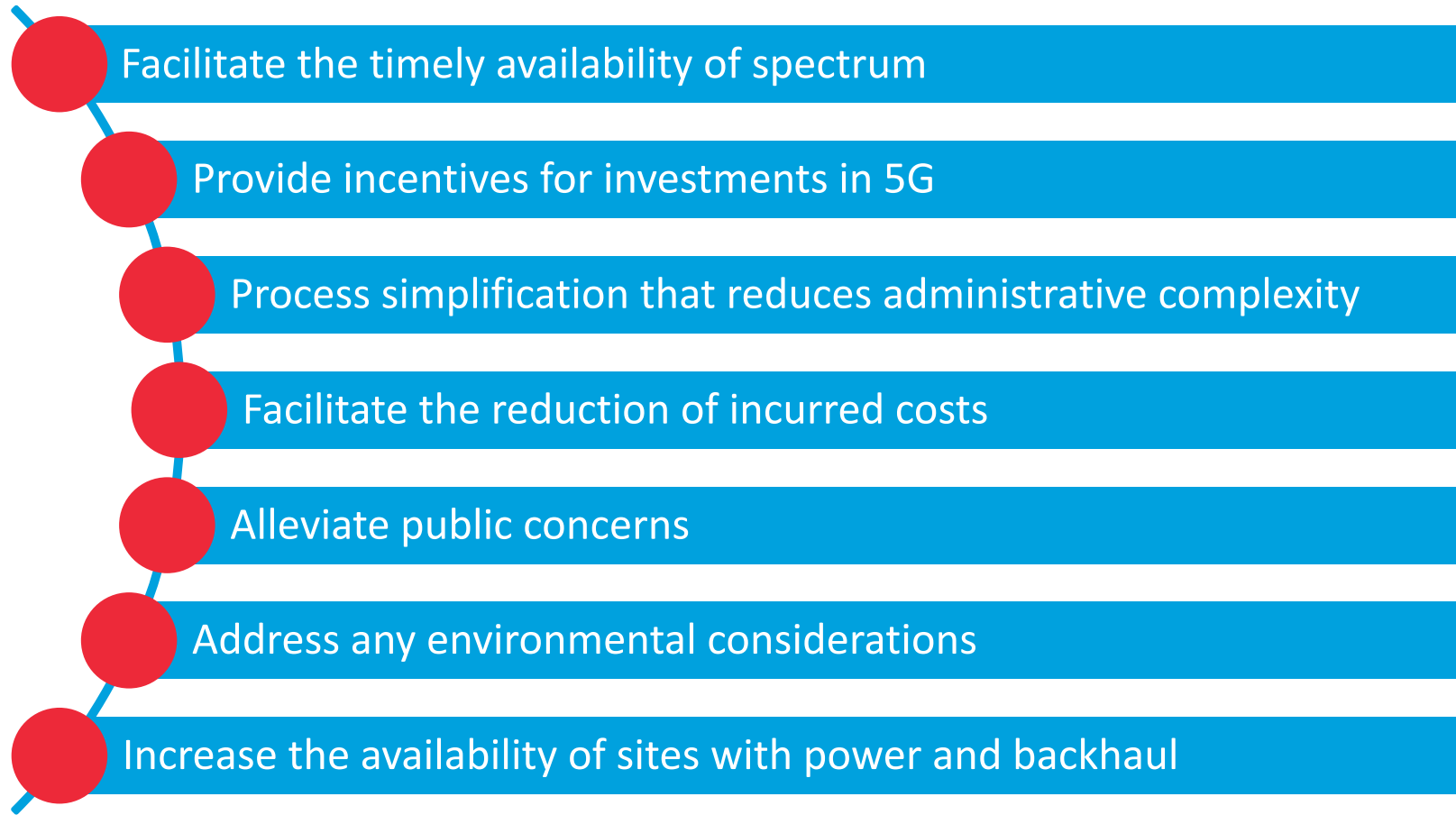
- ✓ Extensive fibre network
- ✓ State-of-the-art data centers
- ✓ Government willingness to provide incentives
- ✓ Role of satellites
- ✓ Regulatory framework

5G Deployment Barriers

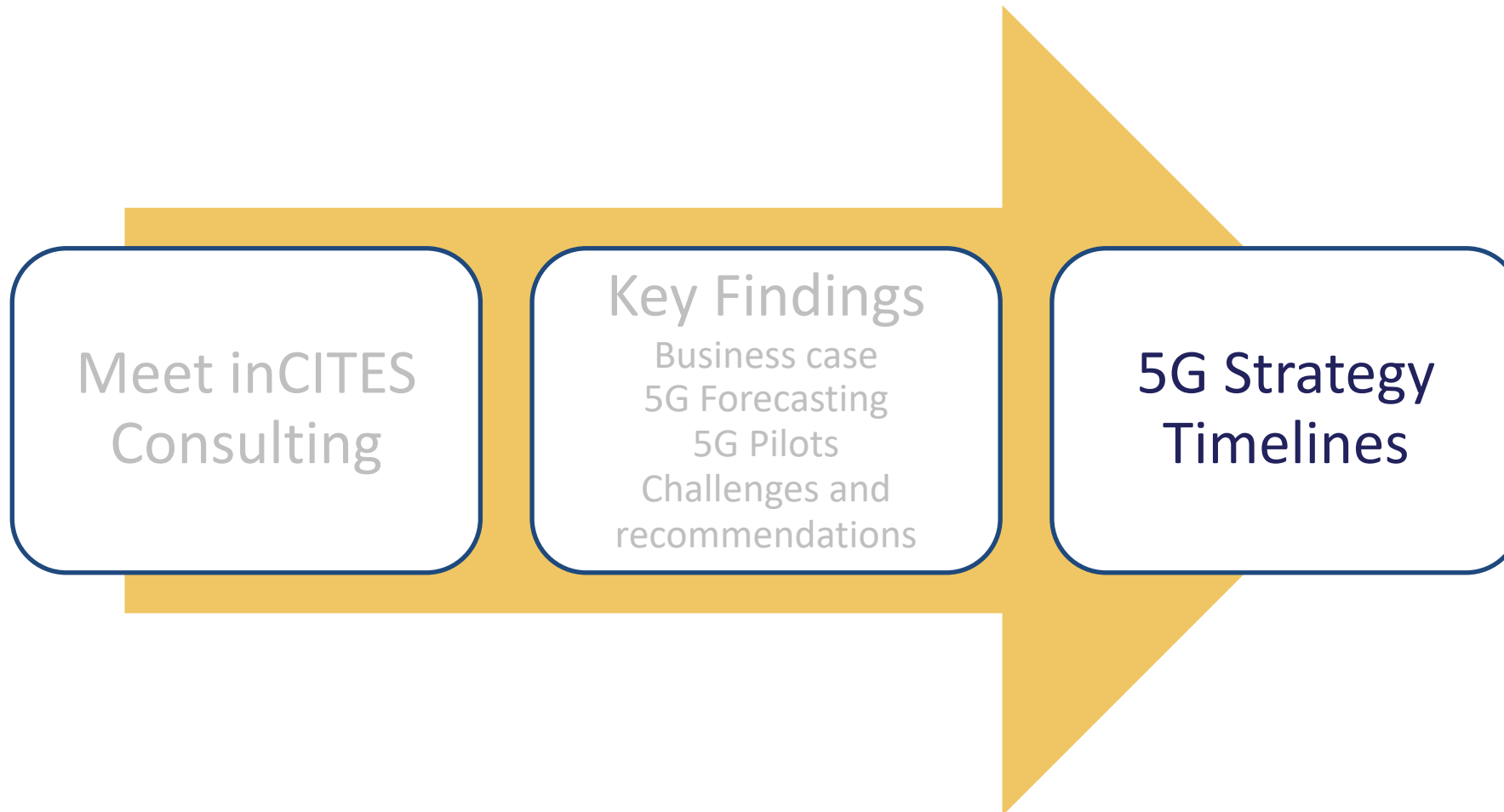
- Proactive regulation will be crucial to alleviate concerns across all network phases



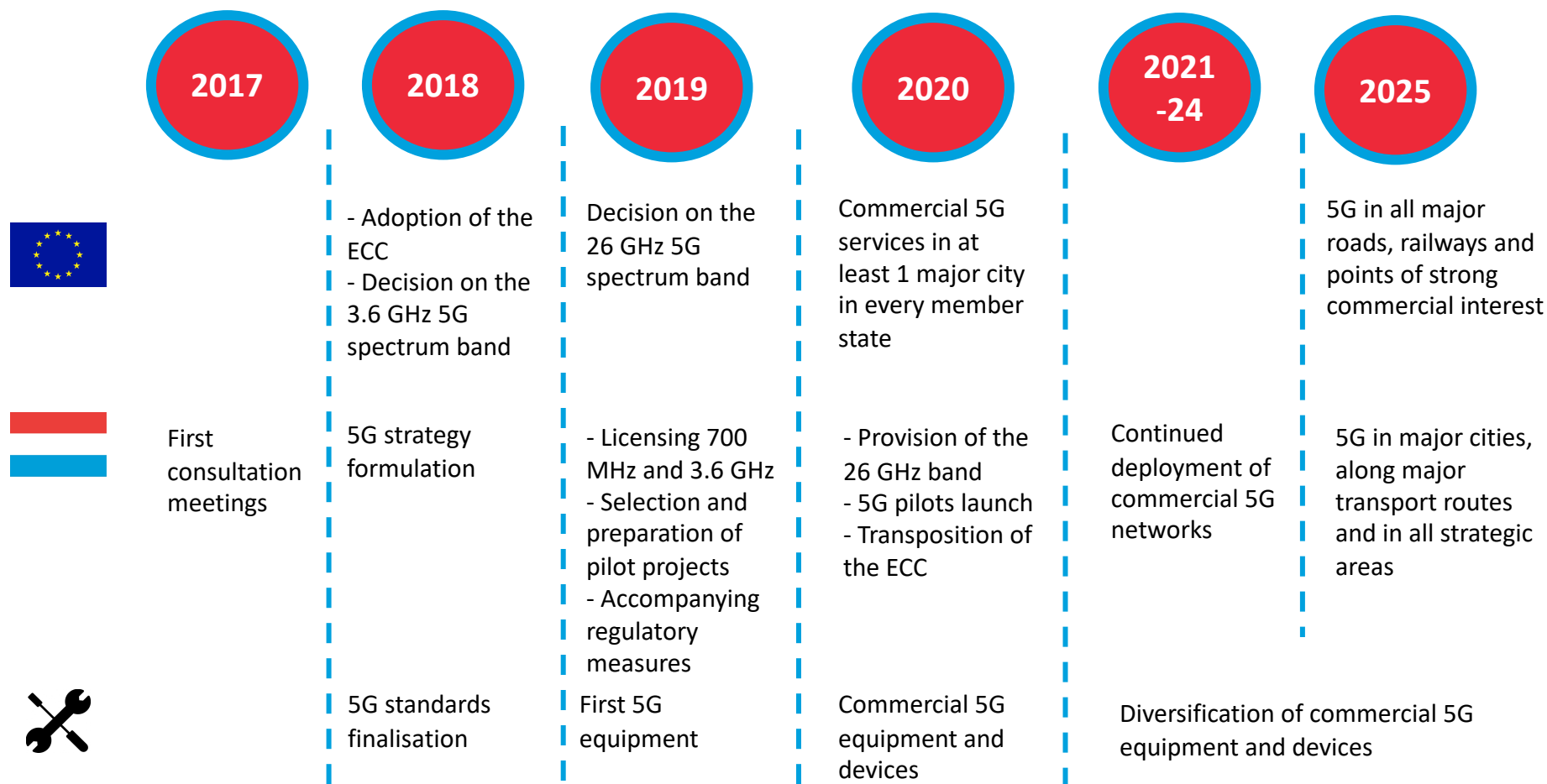
Recommendations

- 
- Facilitate the timely availability of spectrum
 - Provide incentives for investments in 5G
 - Process simplification that reduces administrative complexity
 - Facilitate the reduction of incurred costs
 - Alleviate public concerns
 - Address any environmental considerations
 - Increase the availability of sites with power and backhaul

Agenda



5G strategy timelines



5G strategy details



<https://digital-luxembourg.public.lu/initiatives/5G>

Thank you!



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