



Flyvercity

ETSI MEC meets vertical markets:
APIs exposure helping the Drones Business

26 June 2023, Sophia Antipolis, Hybrid

New Network Capabilities for UAS
Command-and-Control and Deconfliction

Demand for UAS services is growing really fast,
market leaders are ready for rapid scaling.

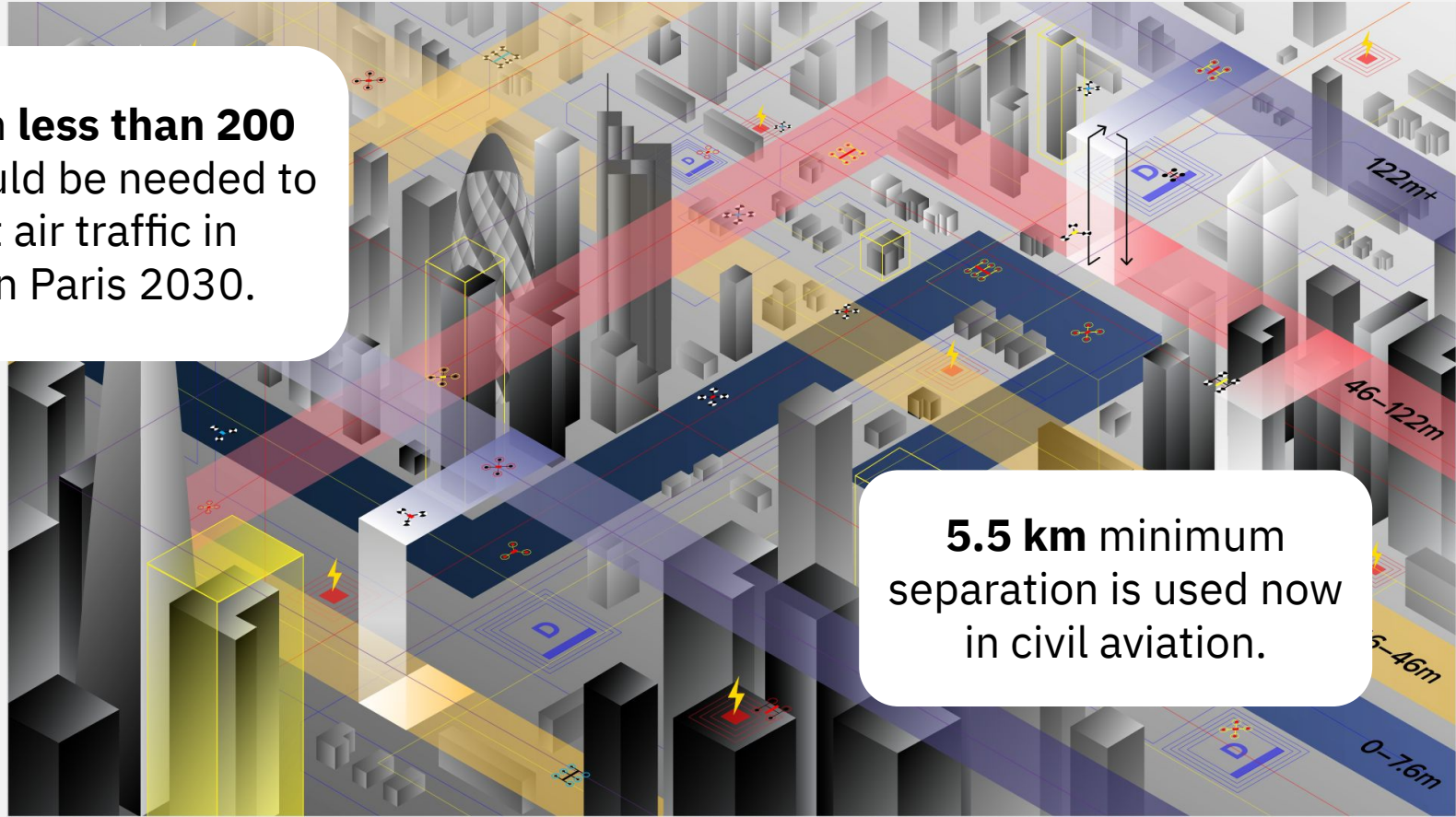


A large number of daily UAS operations requires technologies, which are able to support high-density flights.

Separation **less than 200 metres** would be needed to support air traffic in suburban Paris 2030.

Source: Calculations based on Malik Doole, Joost Ellerbroek, and Jacco Hoekstra, "Estimation of Traffic Density from Drone-Based Delivery in Very Low-Level Urban Airspace," *Journal of Air Transport Management* 88 (2020).

5.5 km minimum separation is used now in civil aviation.



But that's not enough to scale number of flights
and support more sophisticated, advanced operations.

Existing UTM ecosystem supports:

Authorization & Flight
planning

Pre-planned collision
avoidance

Remote identification

Single UAS
operation
In confined
airspace

But there are huge gaps:

BVLOS (beyond visual
line of sight)

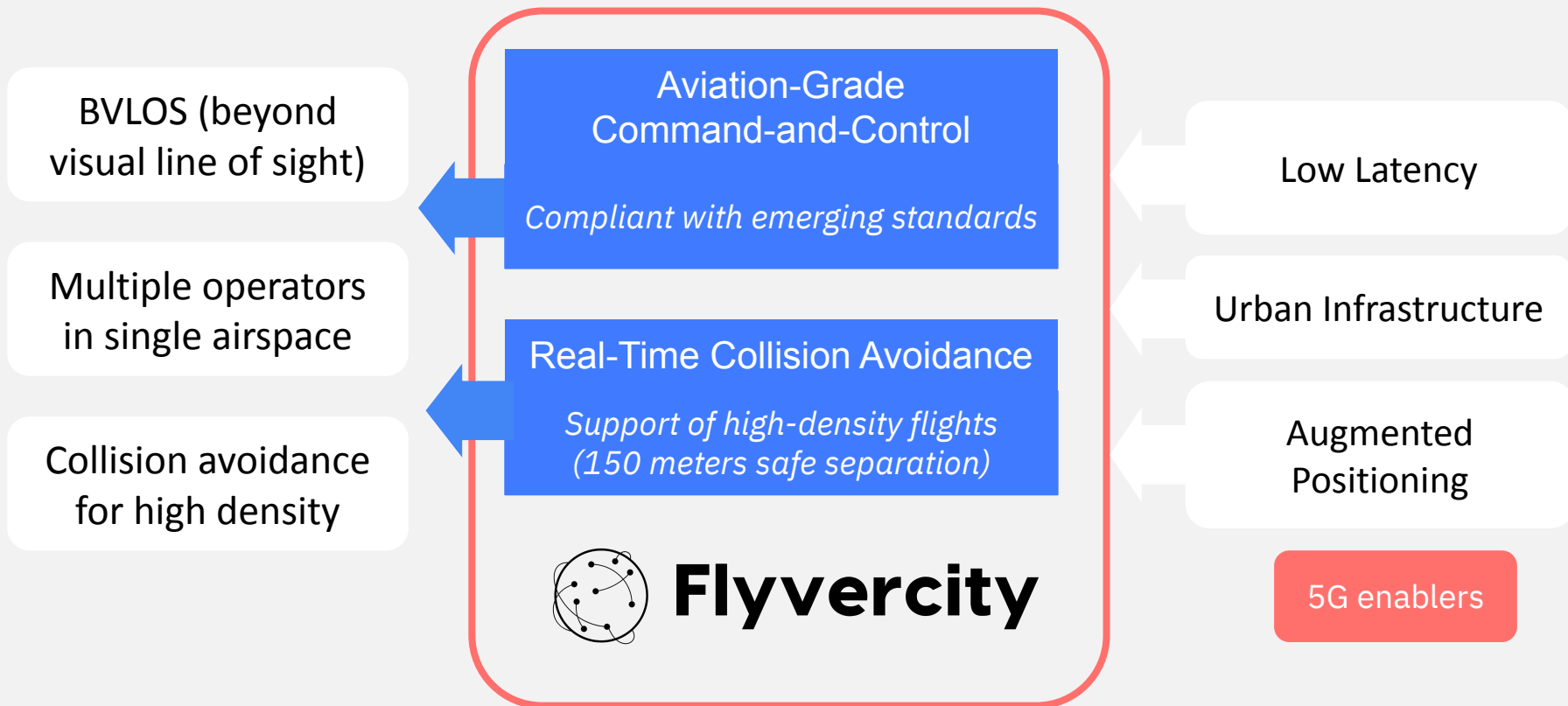
Real-time, high density
collision avoidance

Multiple operators in
single airspace

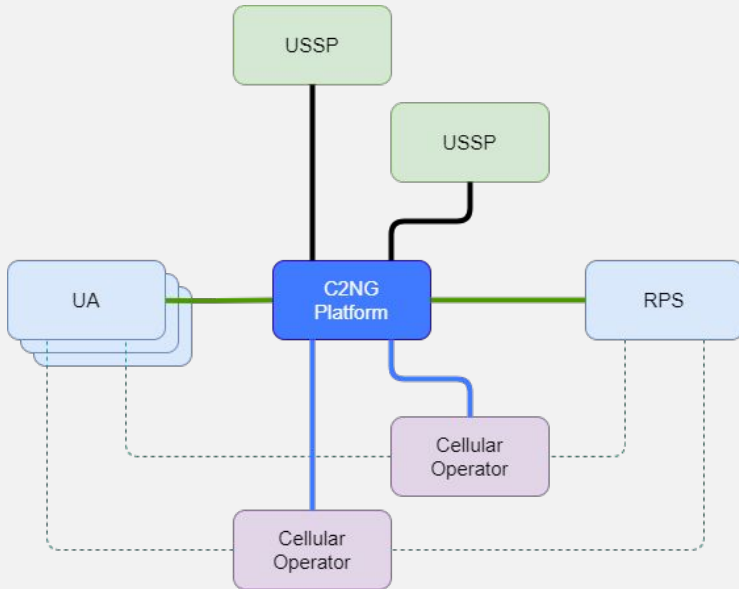
Advanced
and mass
operations

Flyvercity software platform provides core services

for UAS operations scaling, leveraging emerging 5G capabilities.



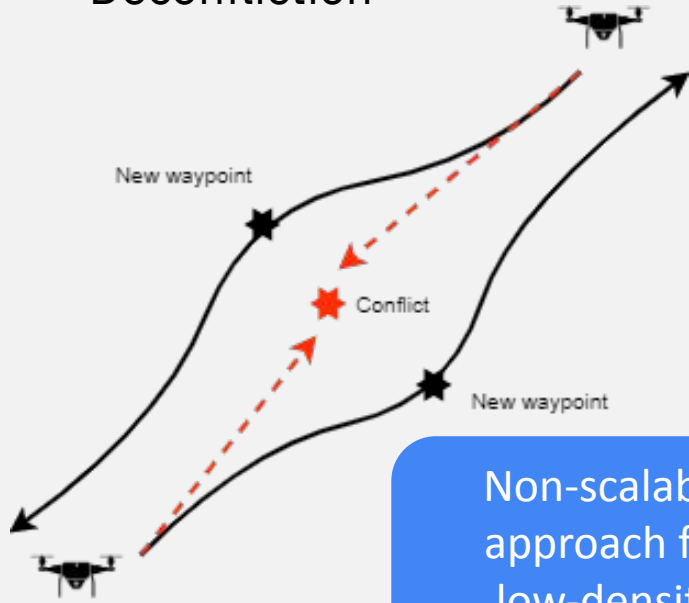
Our C2 Communications Service Provider (C2CSP) solution streamlines usage of cellular infrastructure for everyone.



- C2 with aviation-grade performance characteristics
- Security compliant with emergent standards
- Signal behavior analysis for compliance monitoring
- Uniform access in multi-operator environments

State-of-art UTM uses simple conflict resolution algos and relies on Internet quality of connectivity and autonomous navigation.

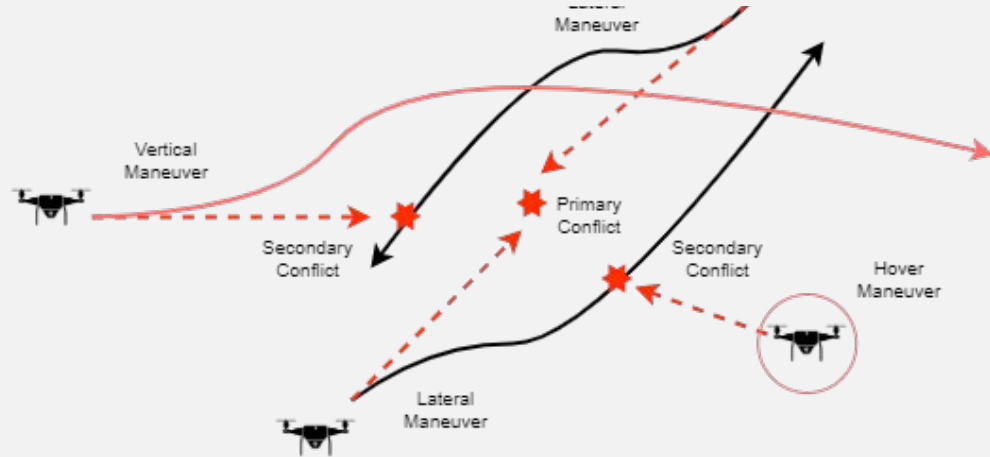
Simple Pairwise Deconfliction



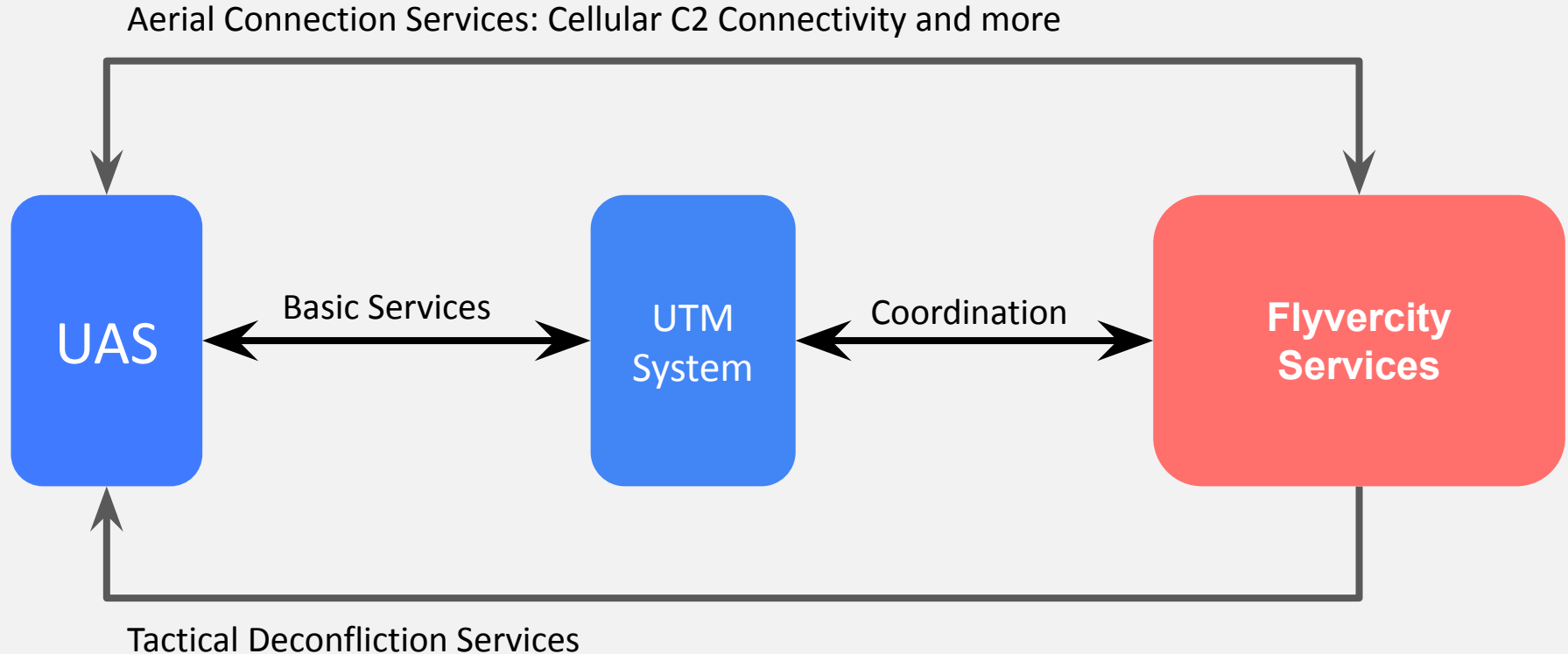
Non-scalable approach for low-density operations

Flyvercity algorithms take into account multiple secondary conflicts (patent pending)

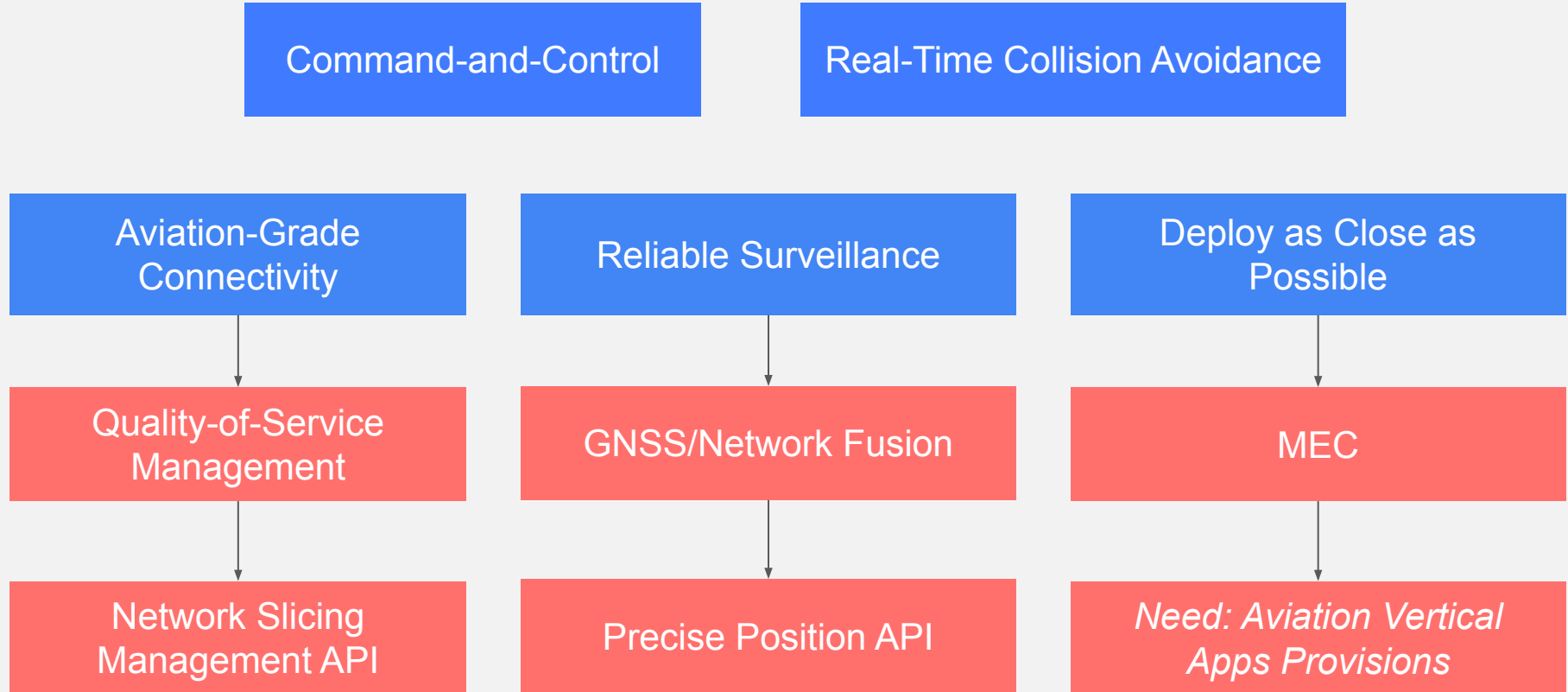
Real world environment and scalable technology



Flyvercity solutions enhances the UTM ecosystem with connected services based on critical communications.

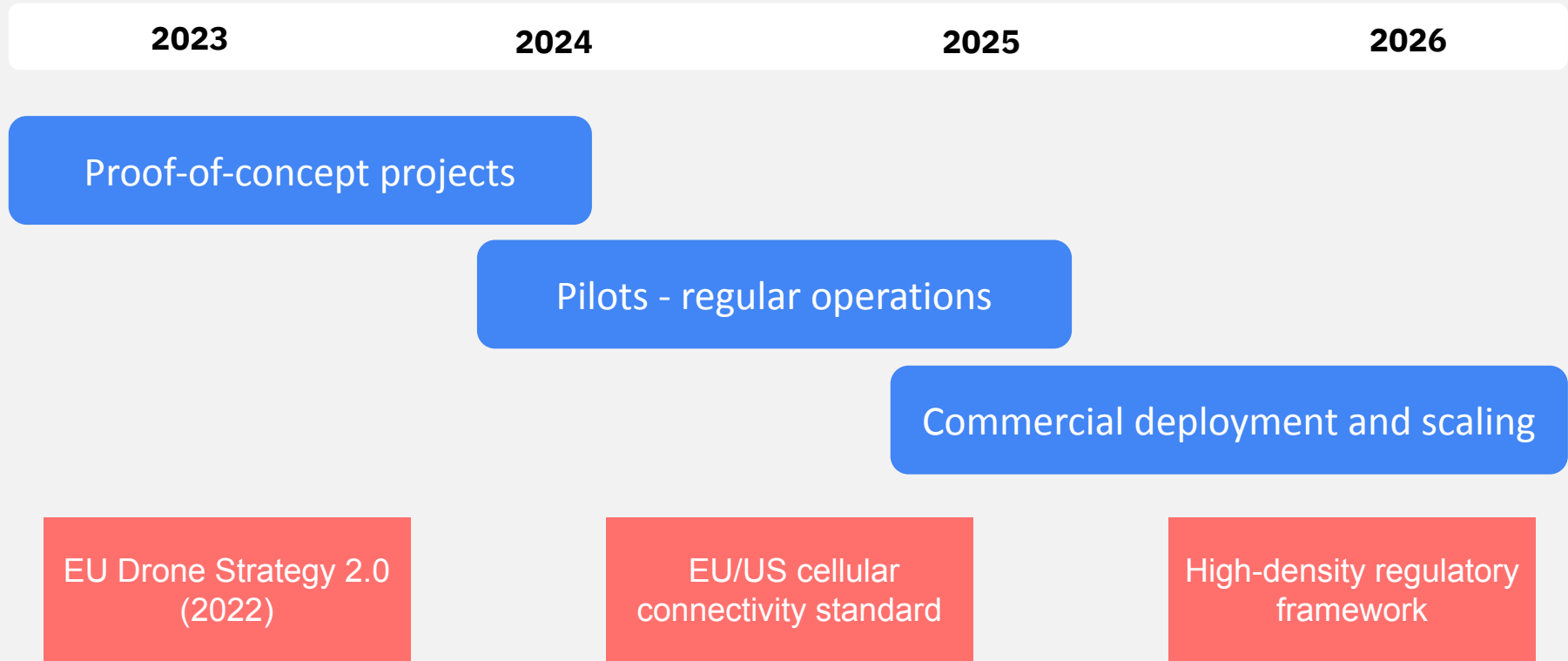


Leveraging Critical 5G-Based Technologies



A roadmap to deployment and scaling

shall be also be coordinated with MEC standardization.





We create, the world where...



CONTACTS



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