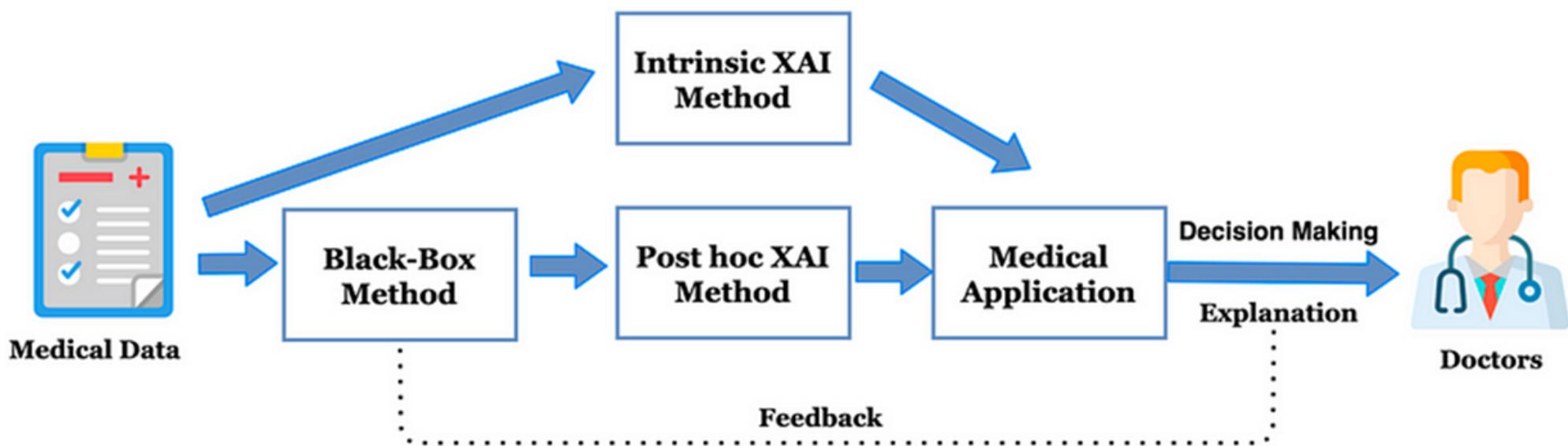
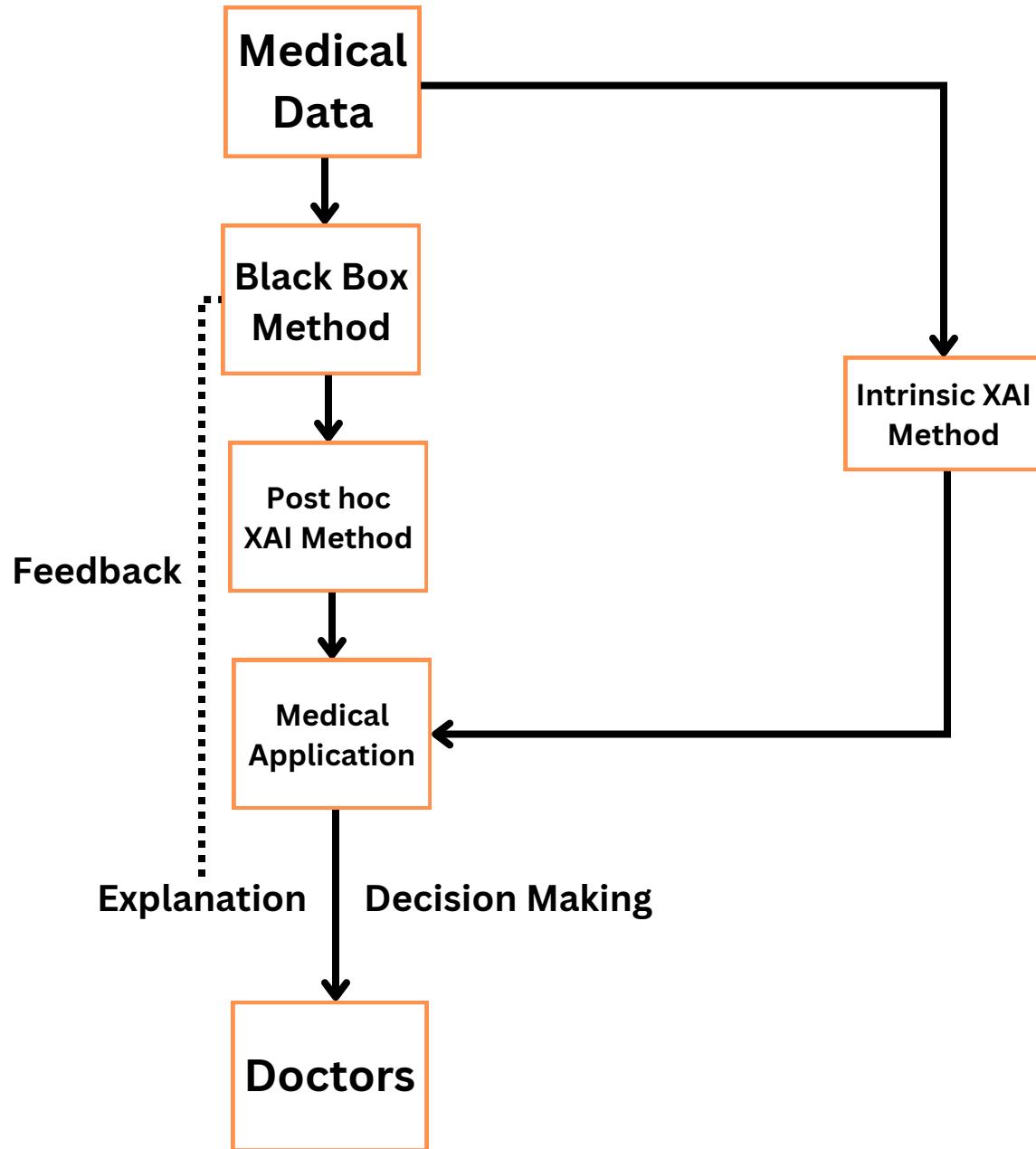
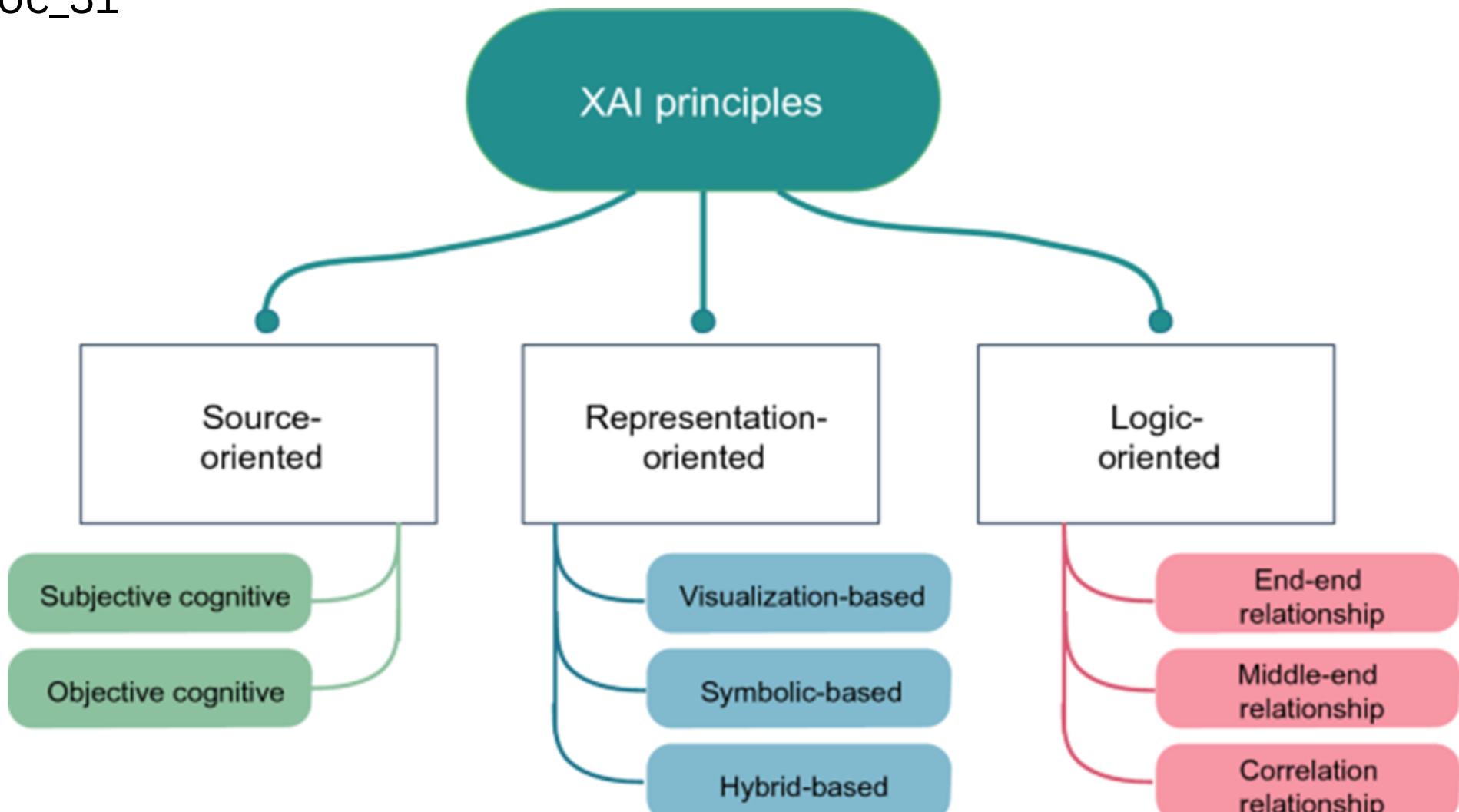
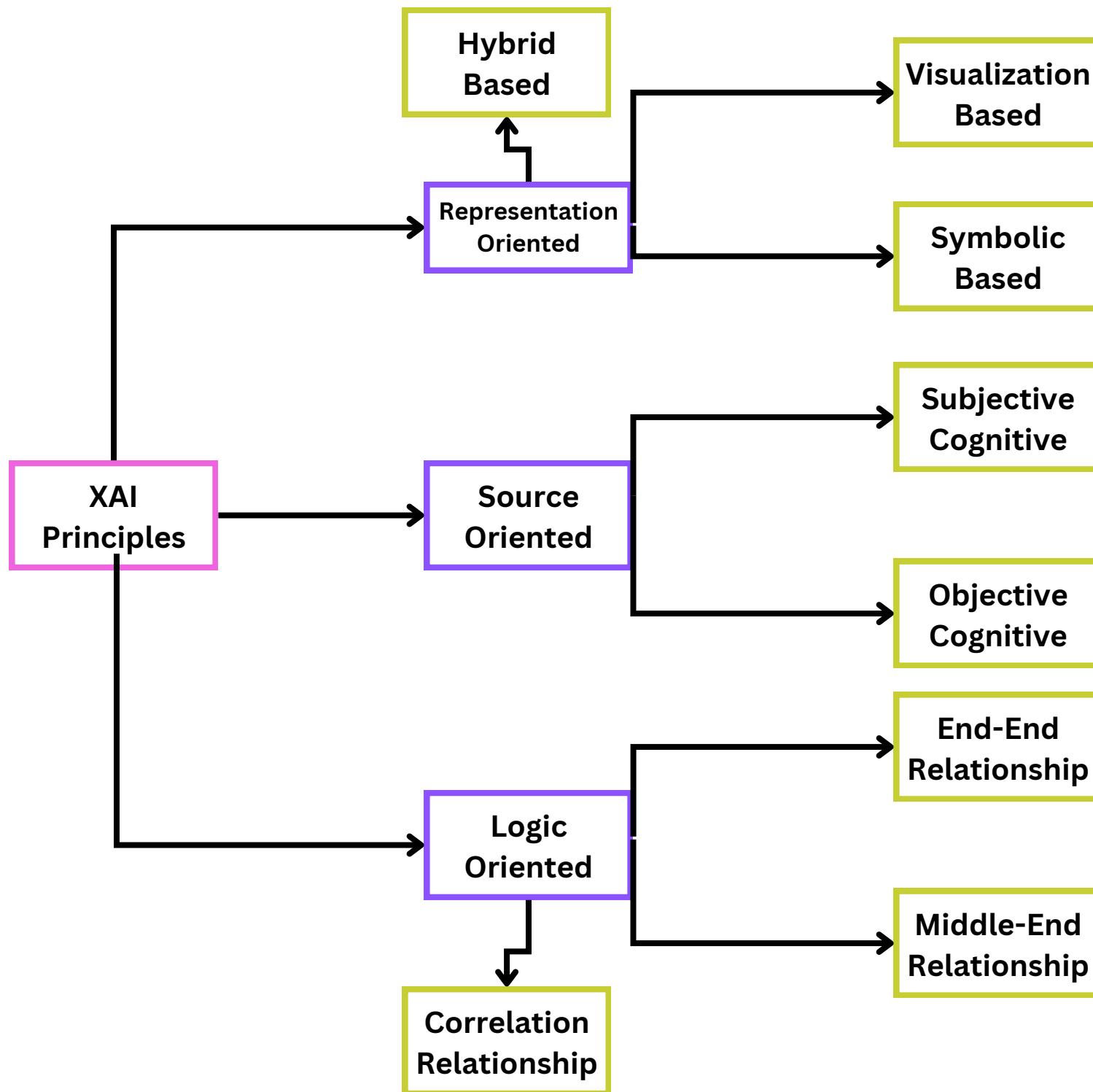


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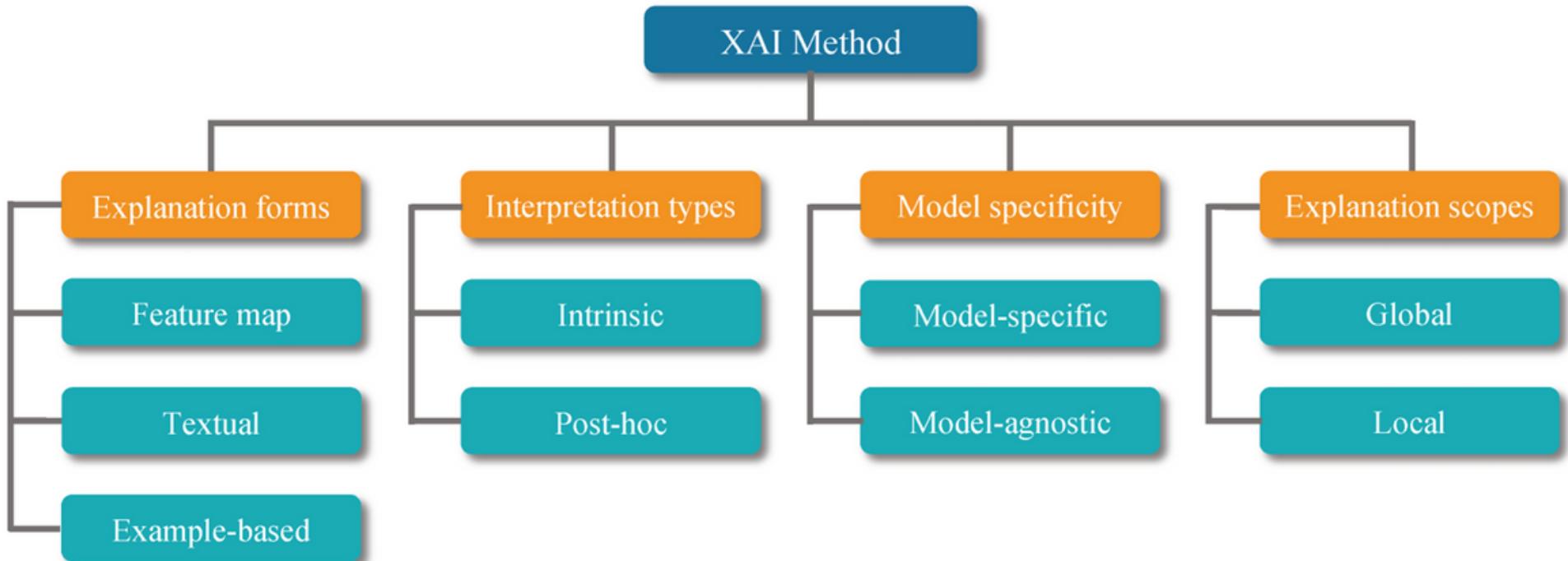


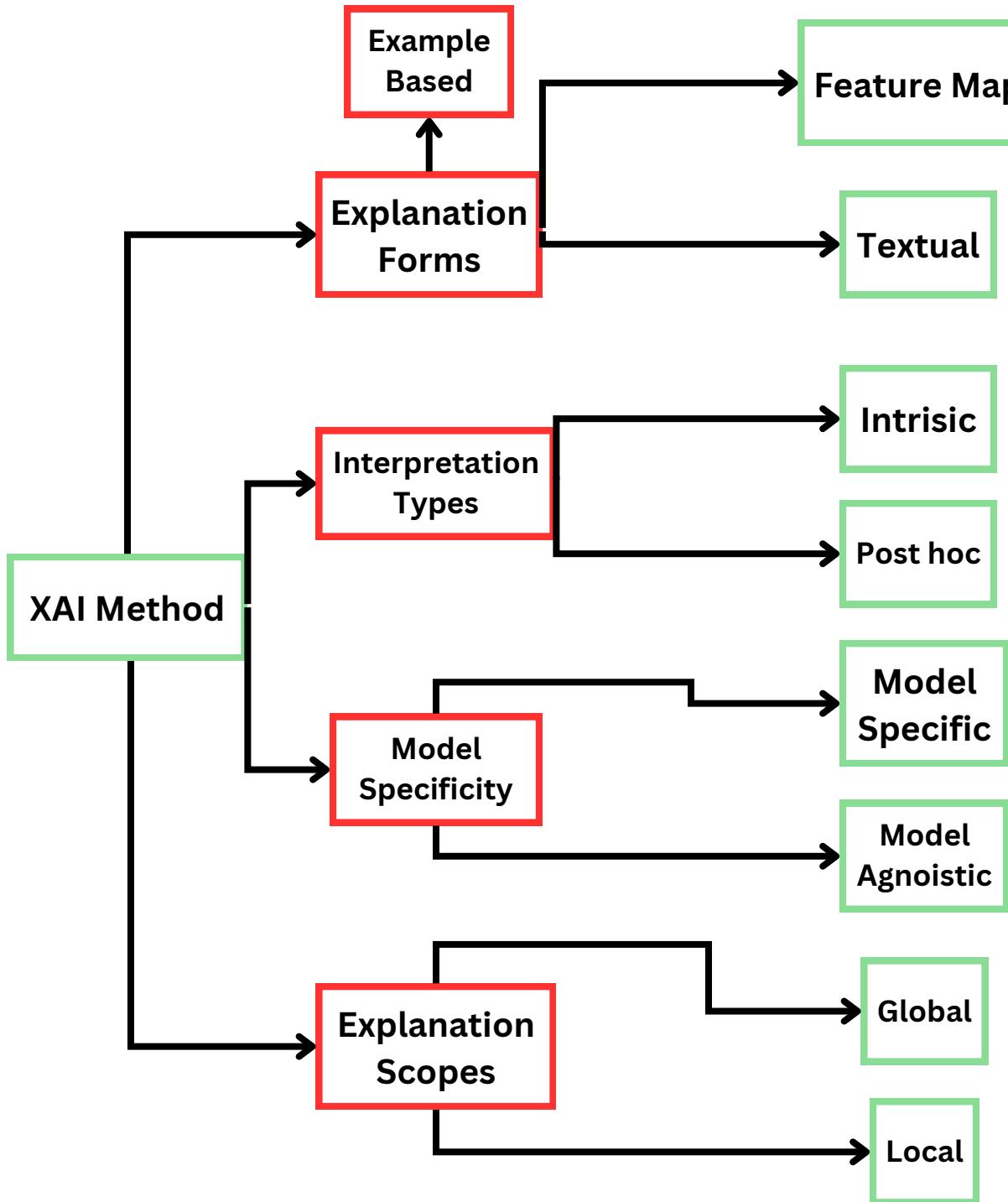




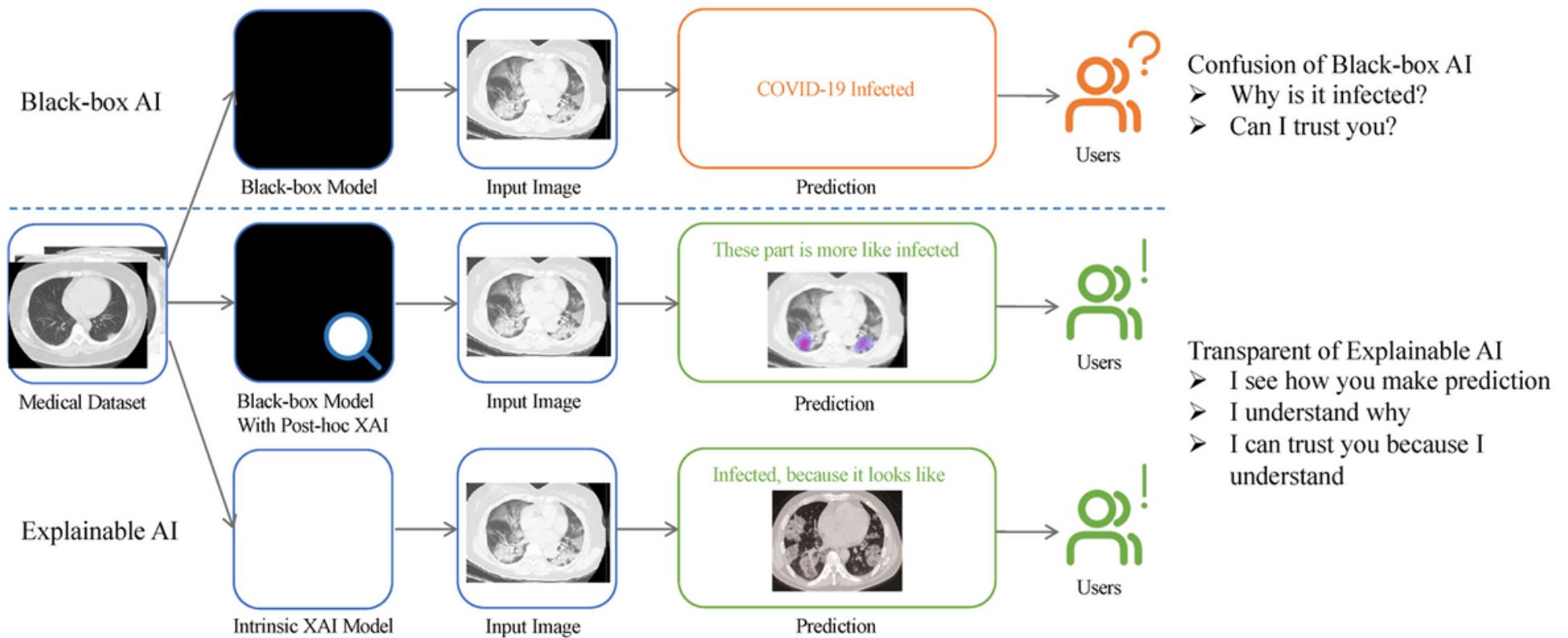


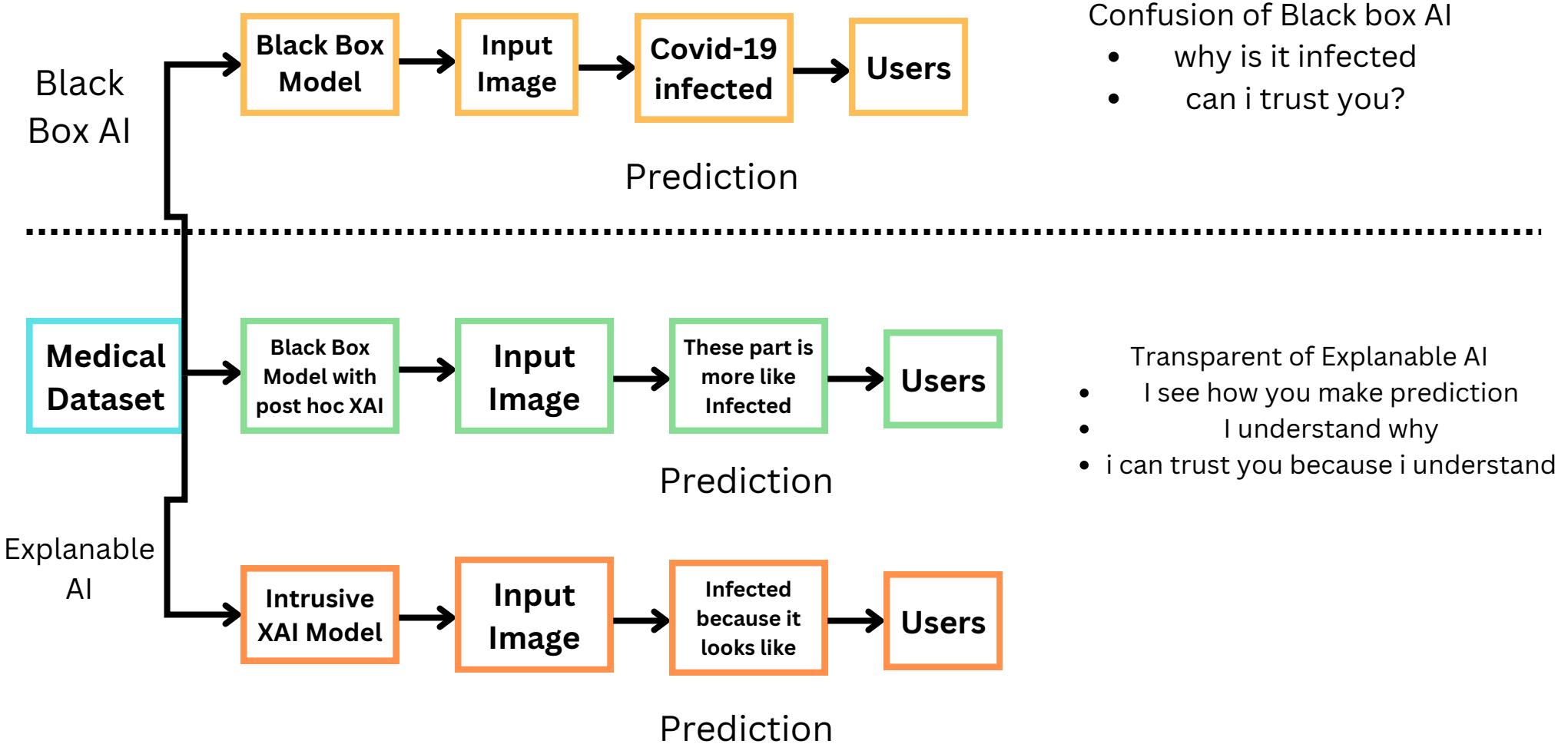
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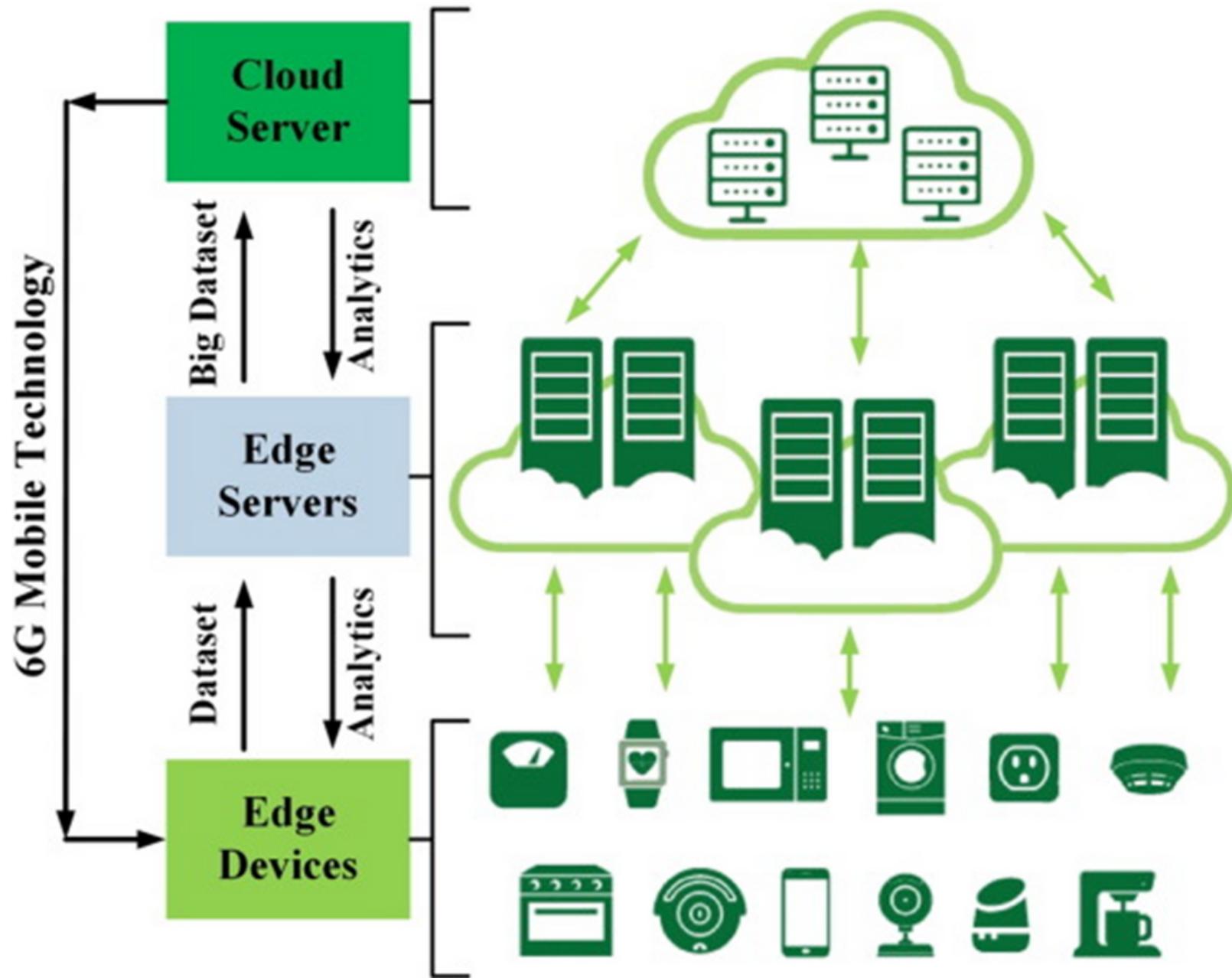




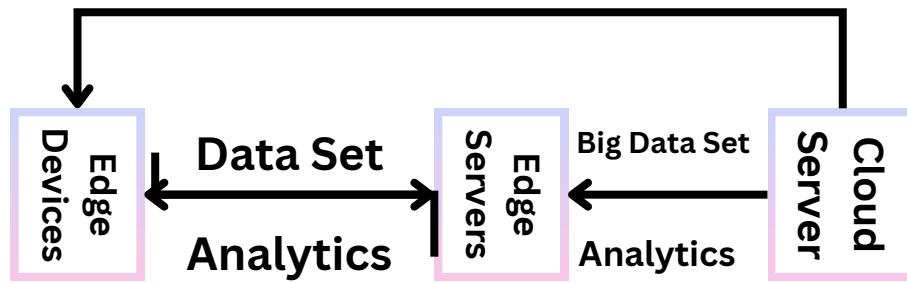
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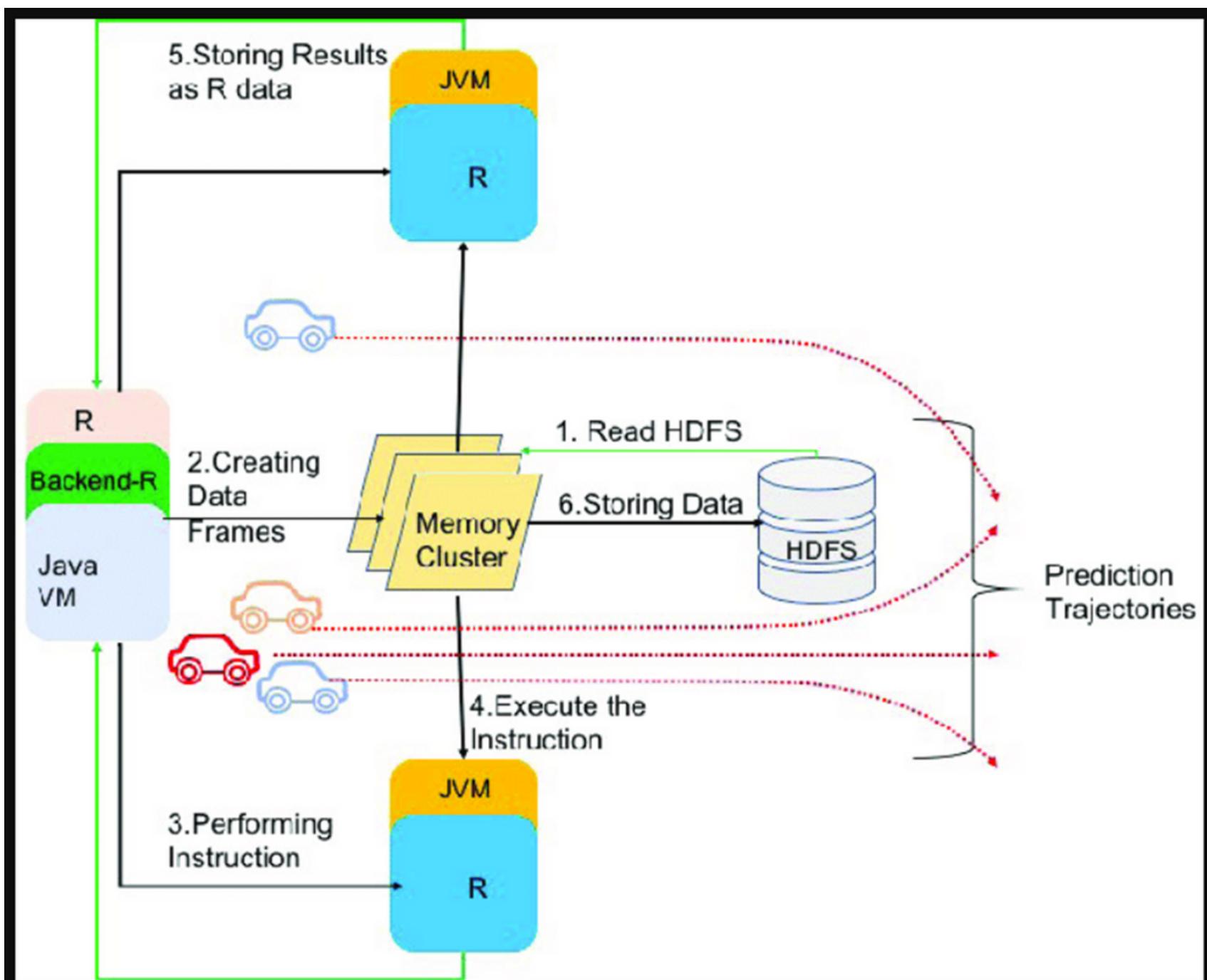


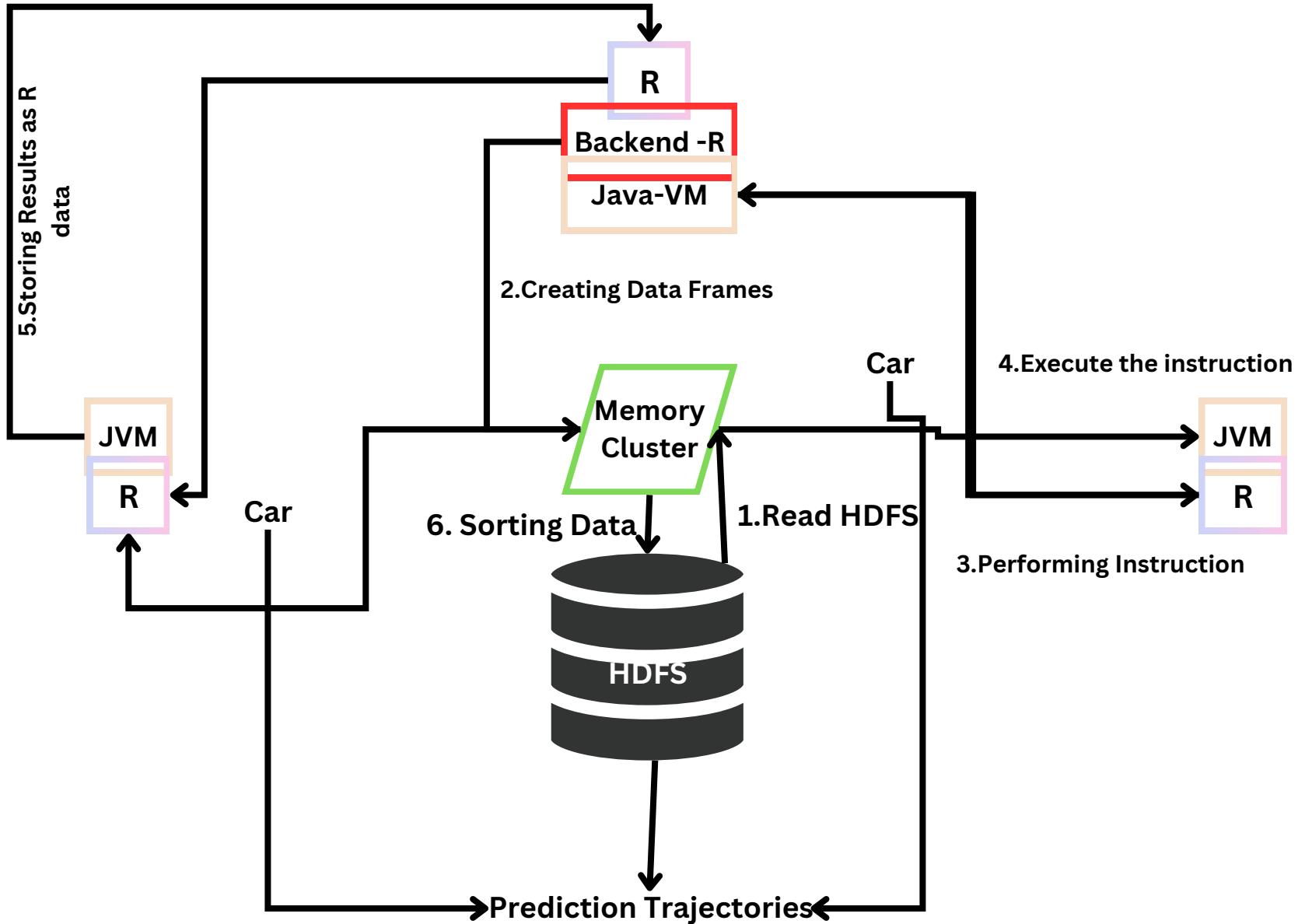


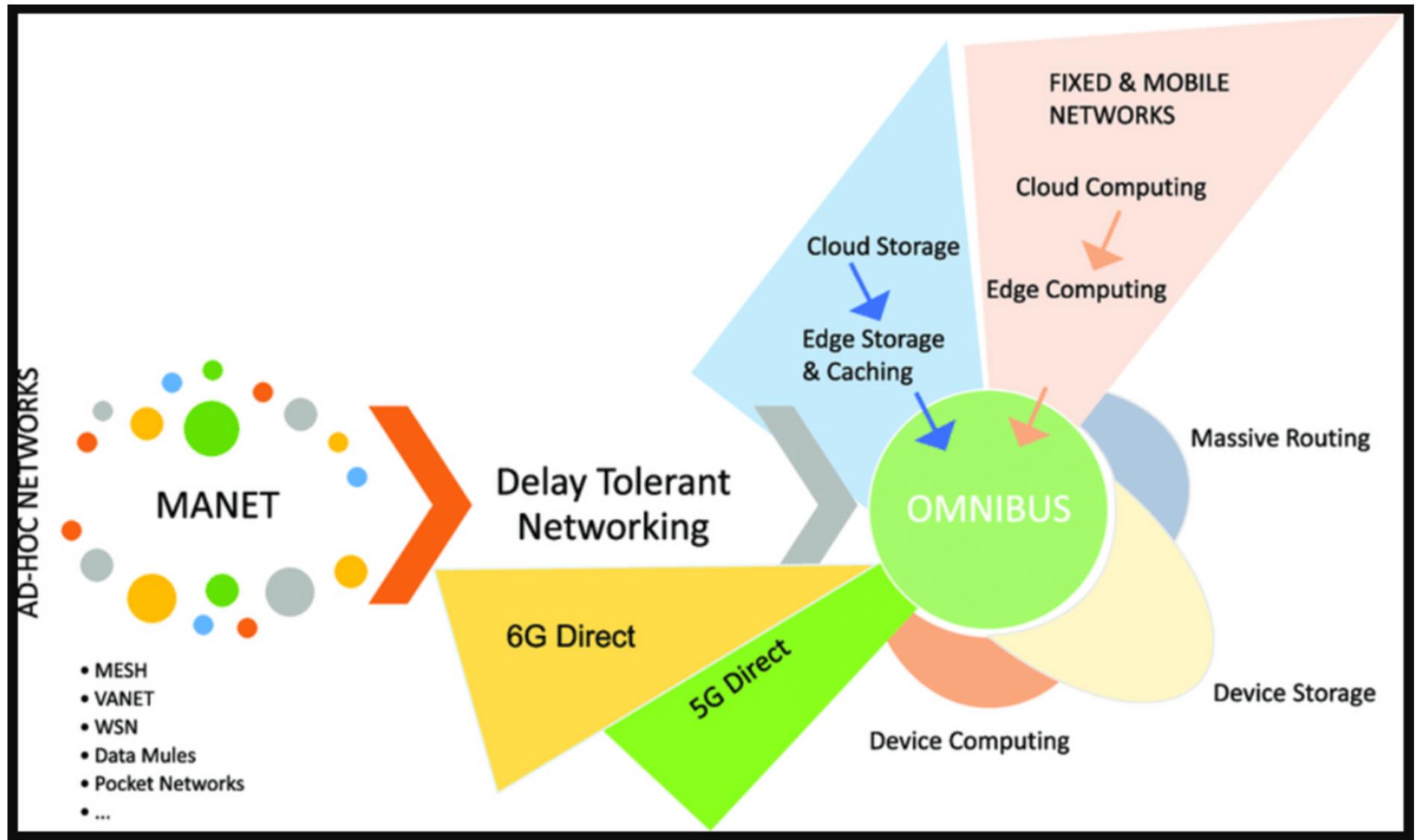


6G Mobile Technology

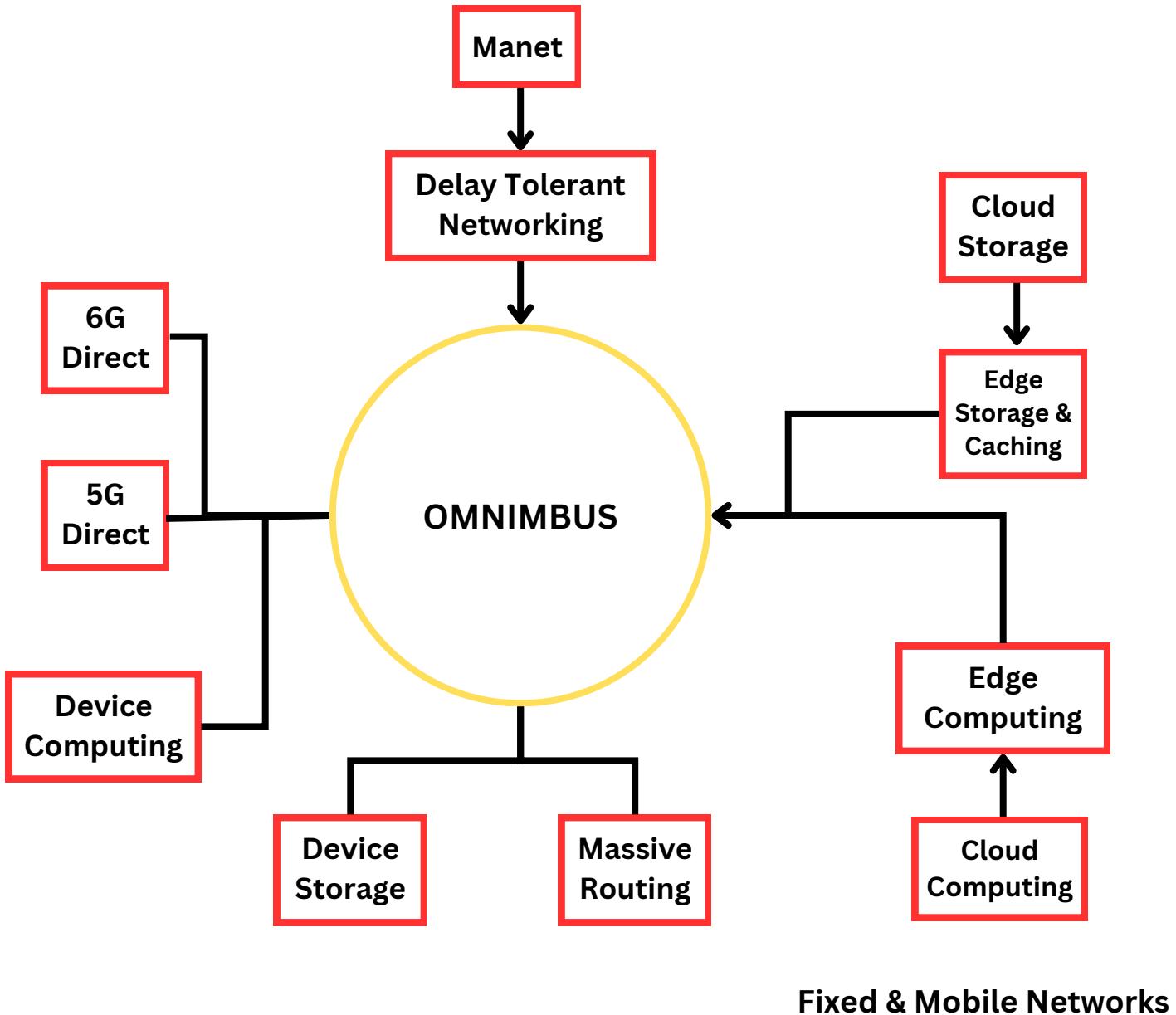


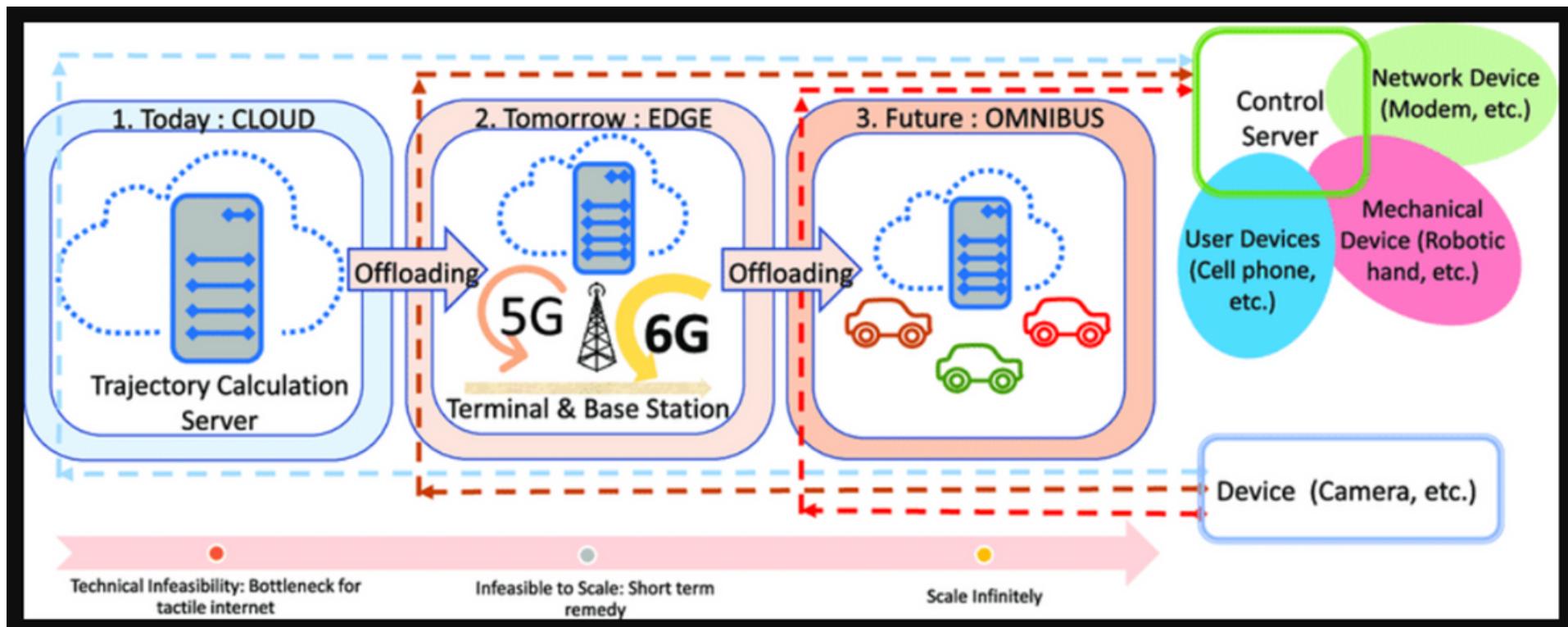


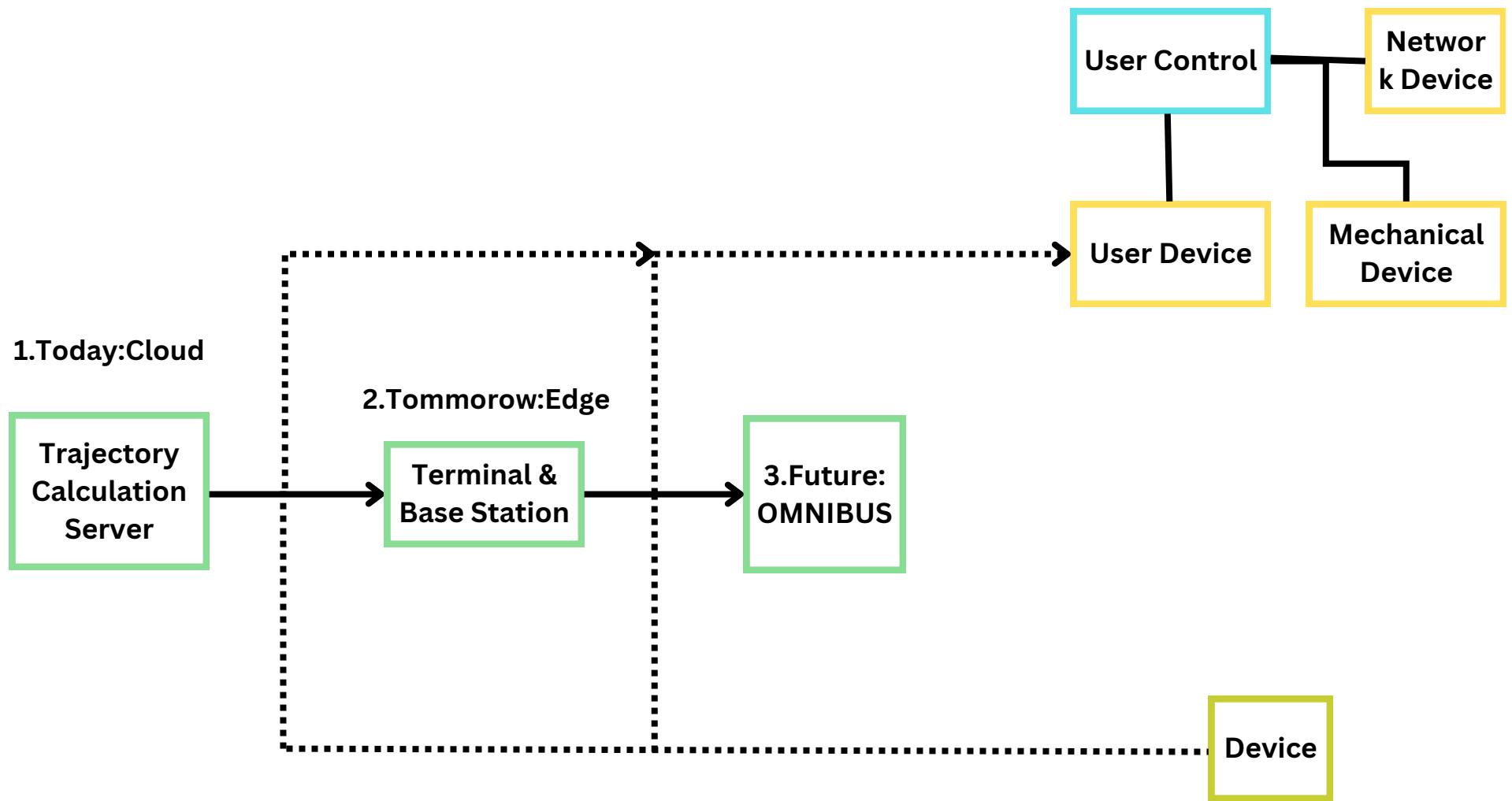


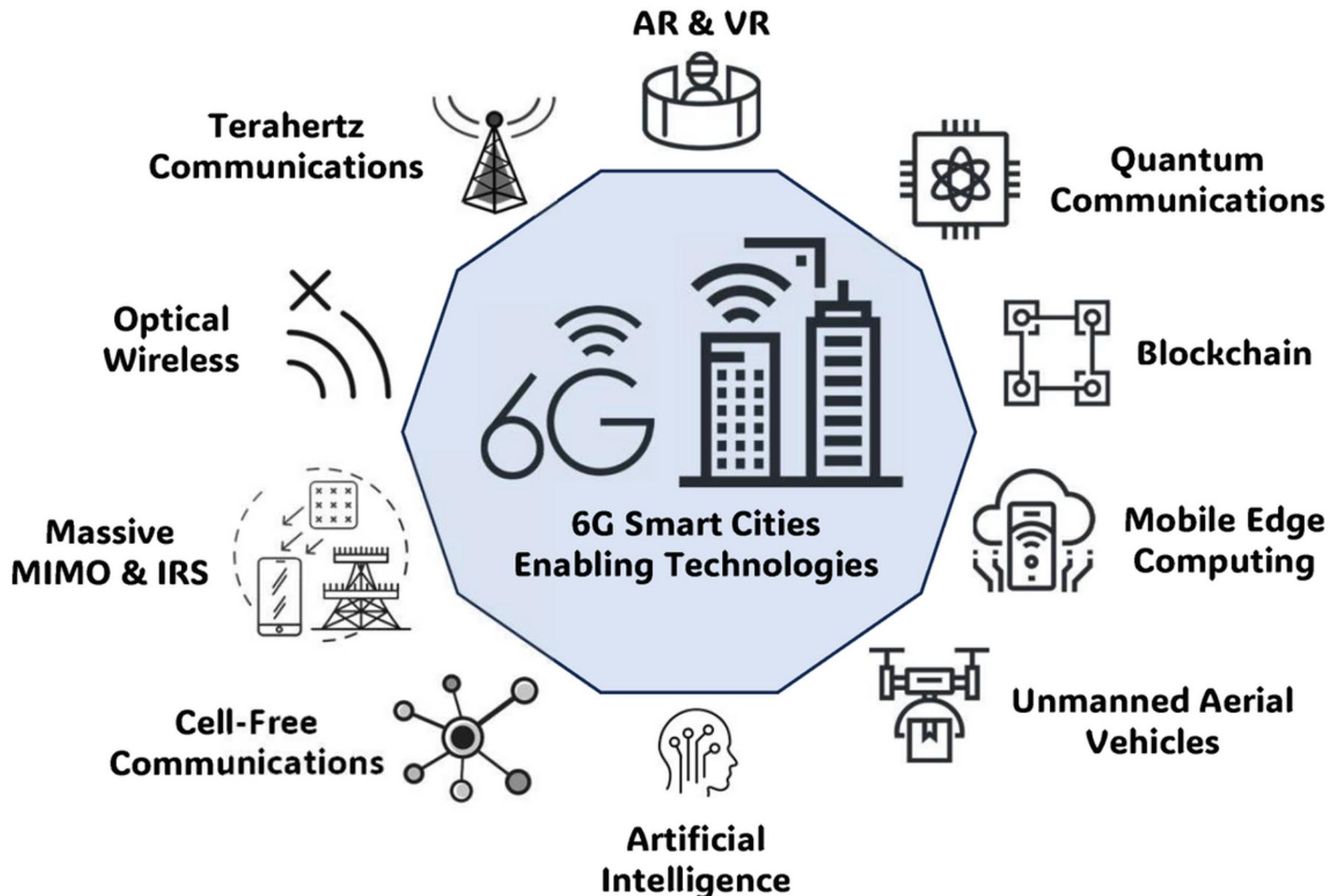


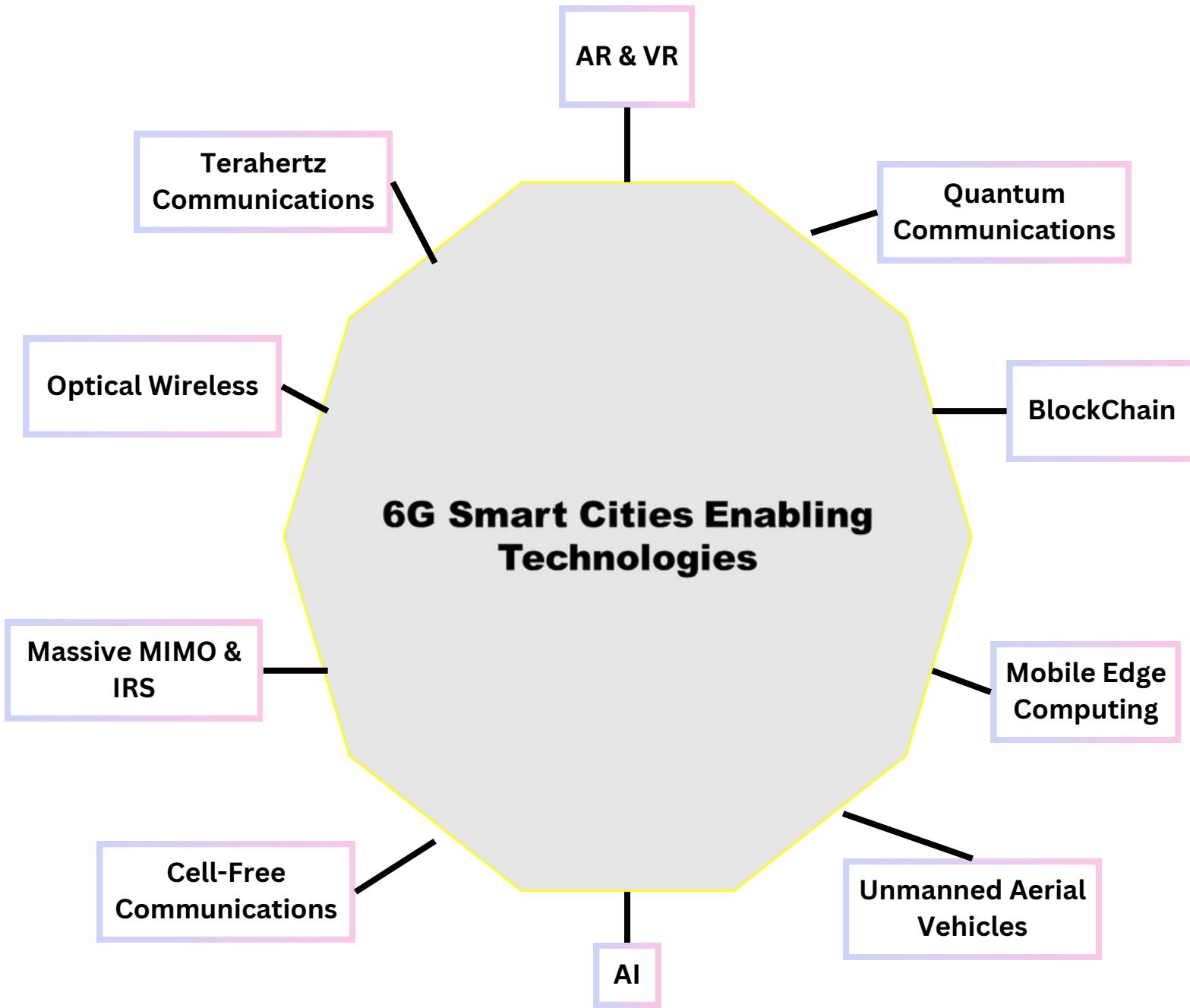
AD-HOC Networks

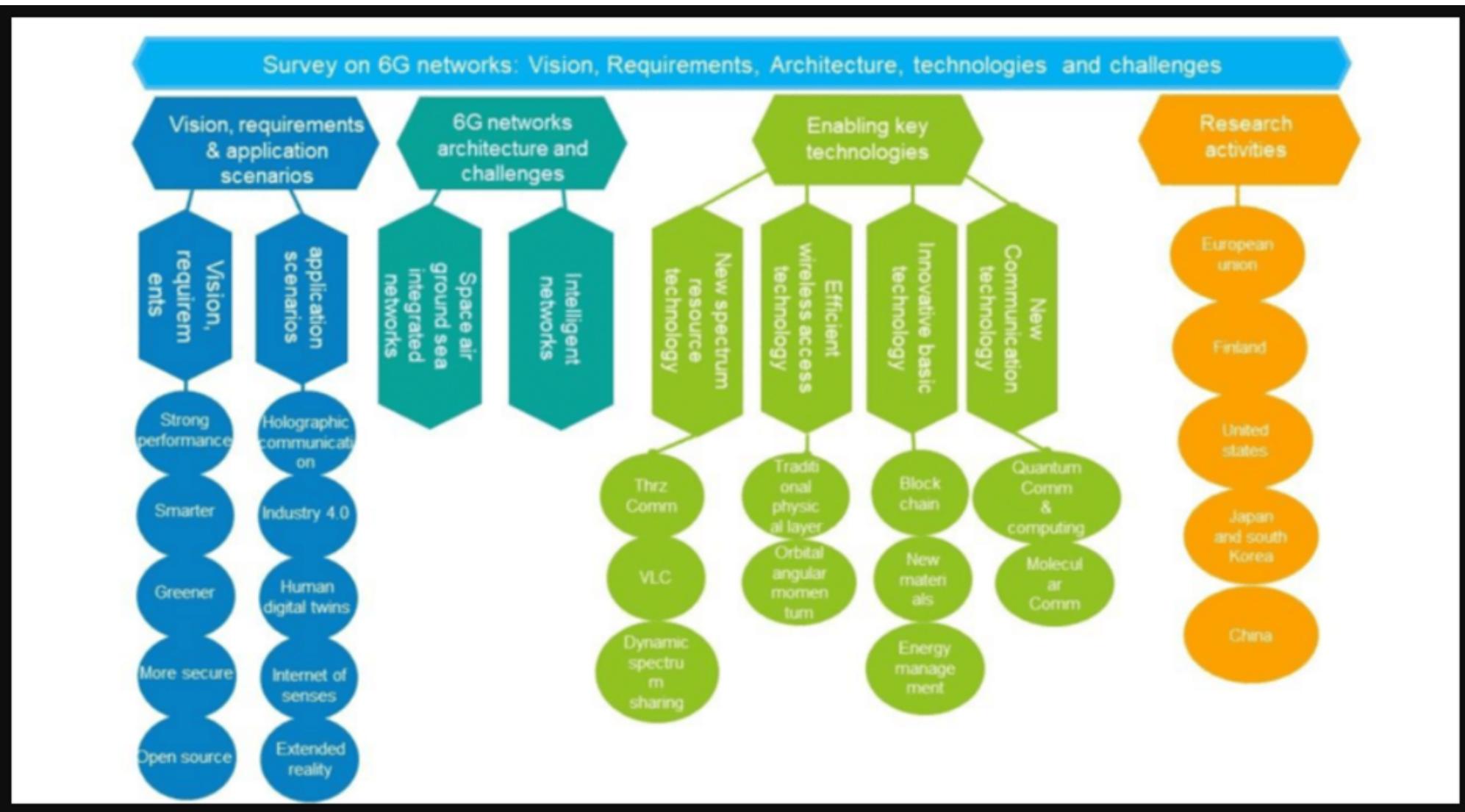




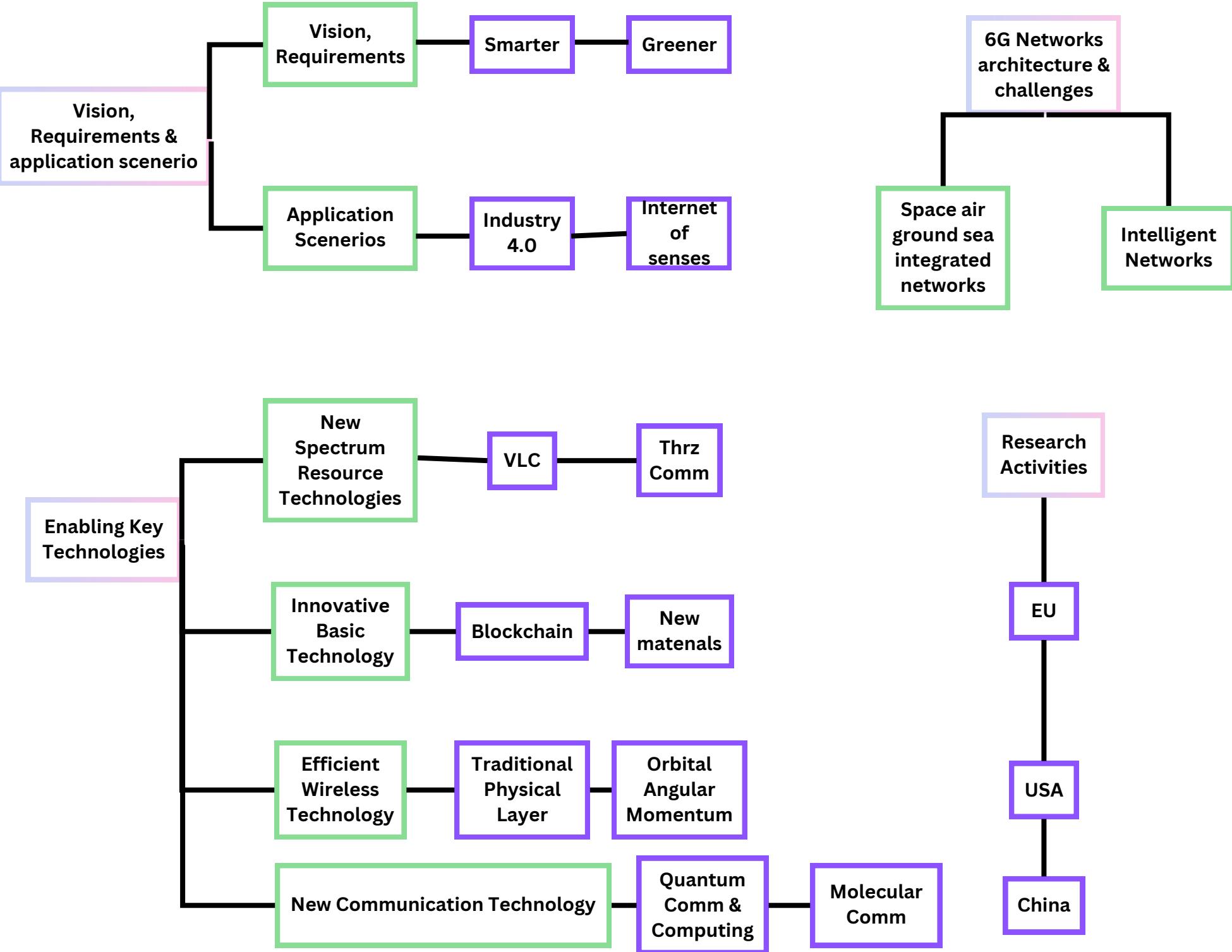


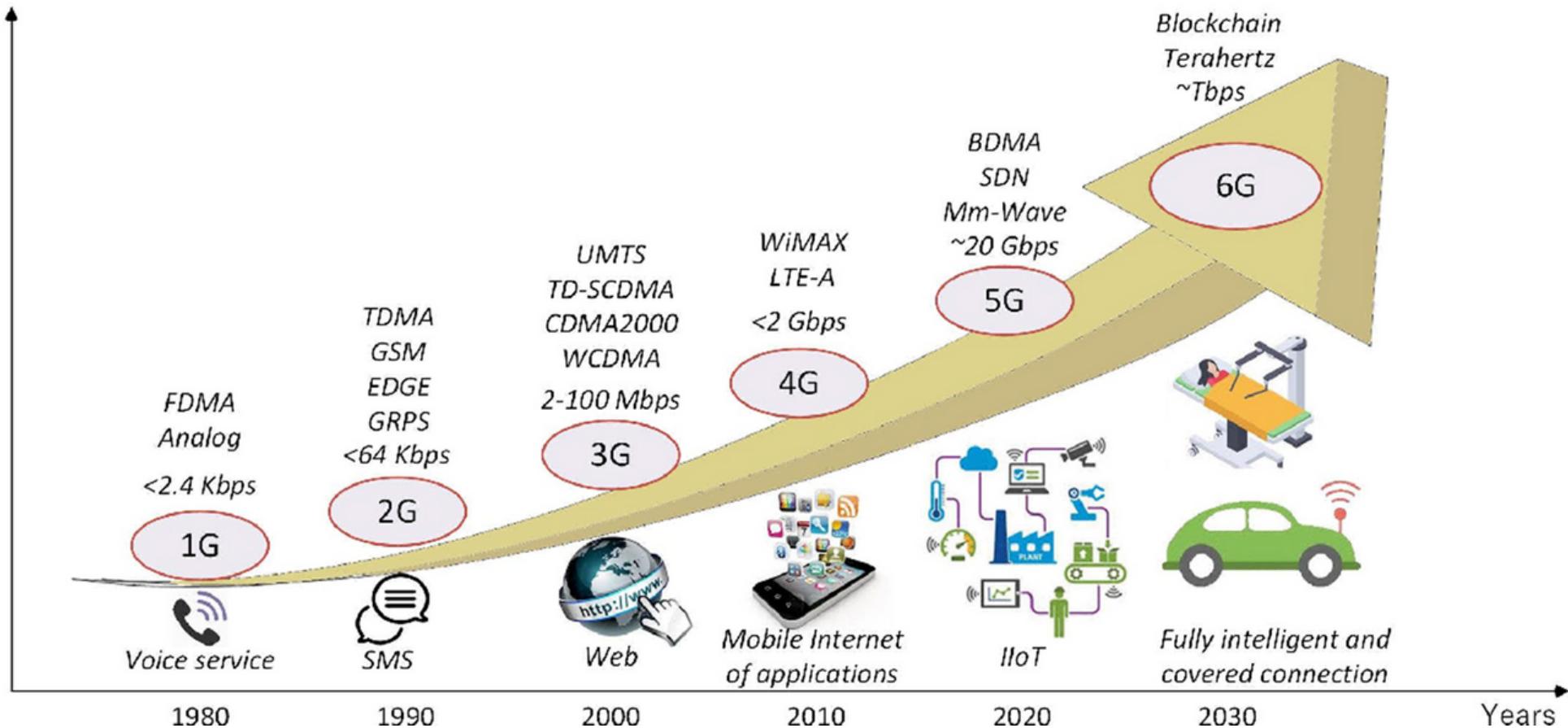


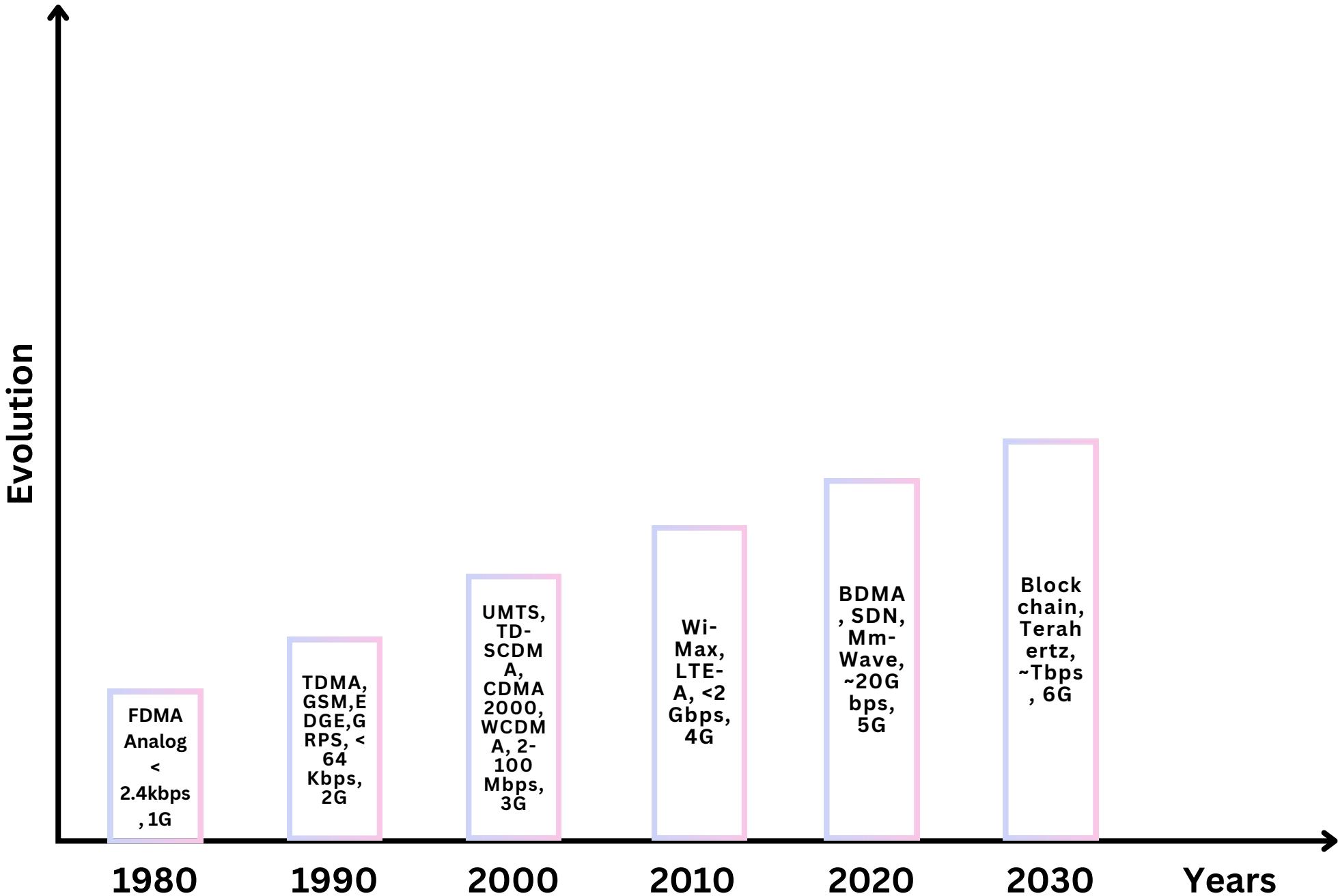


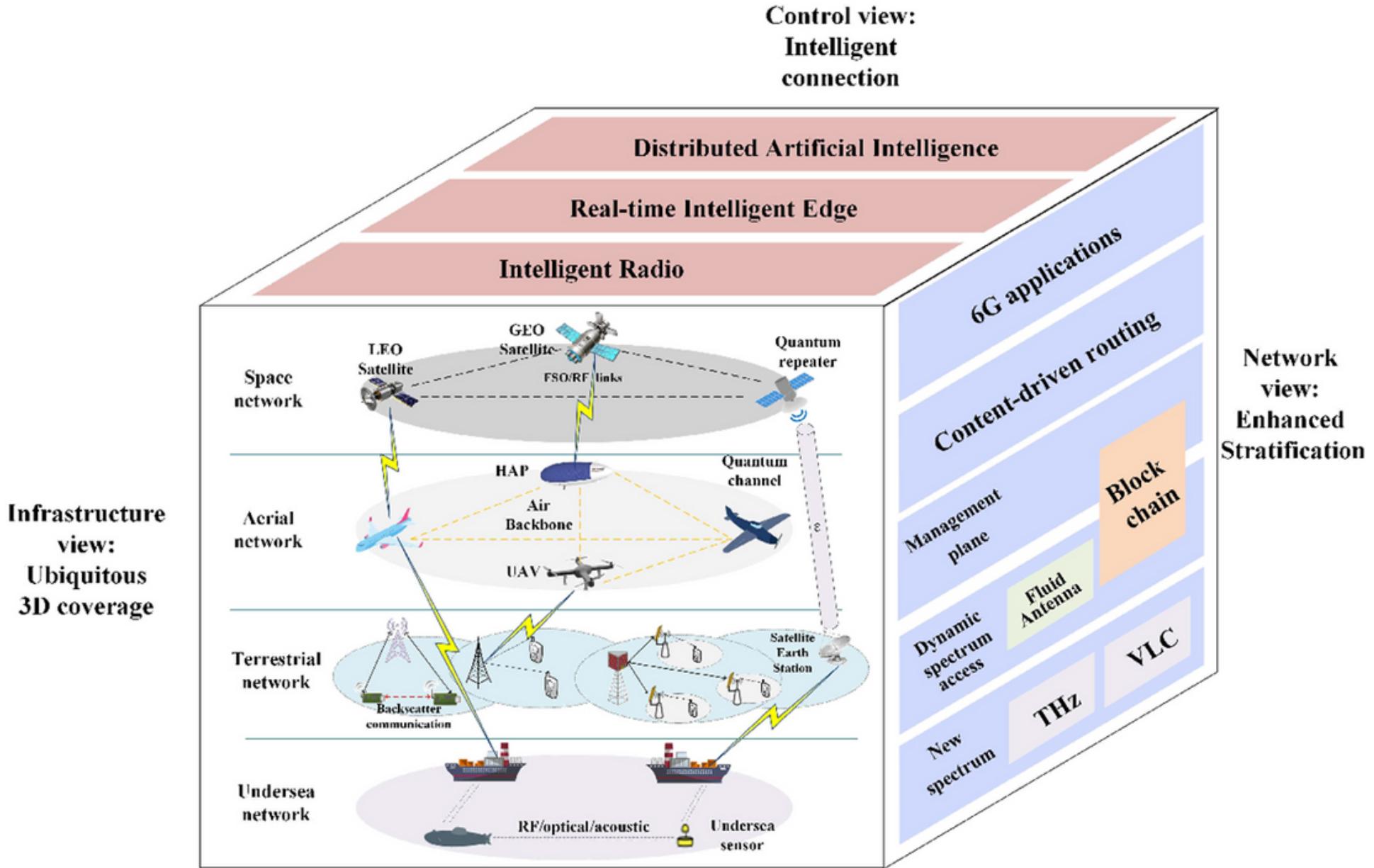


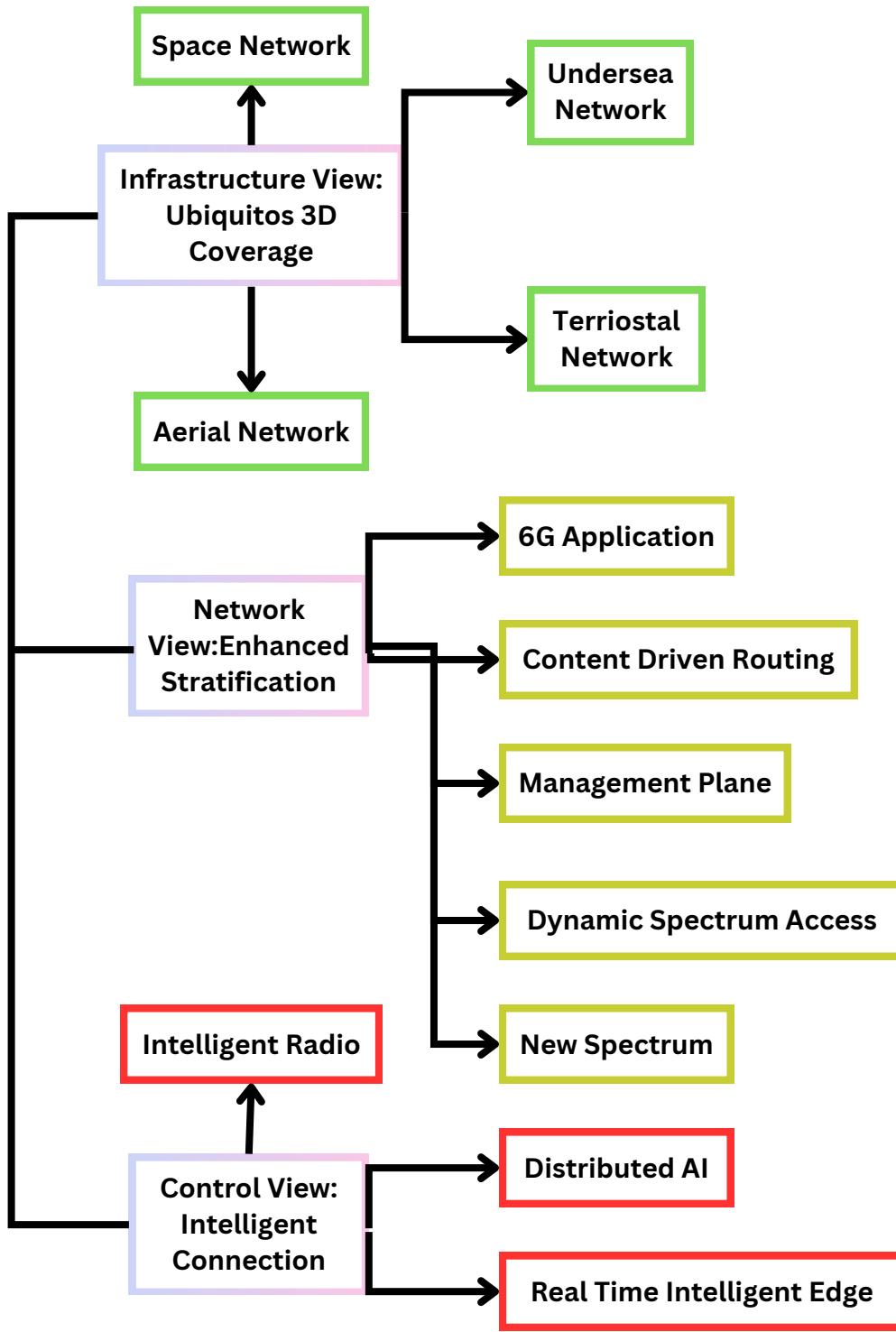
Survey on 5G Networks : Vision, Requirements, Architecture, Technologies & Challenges

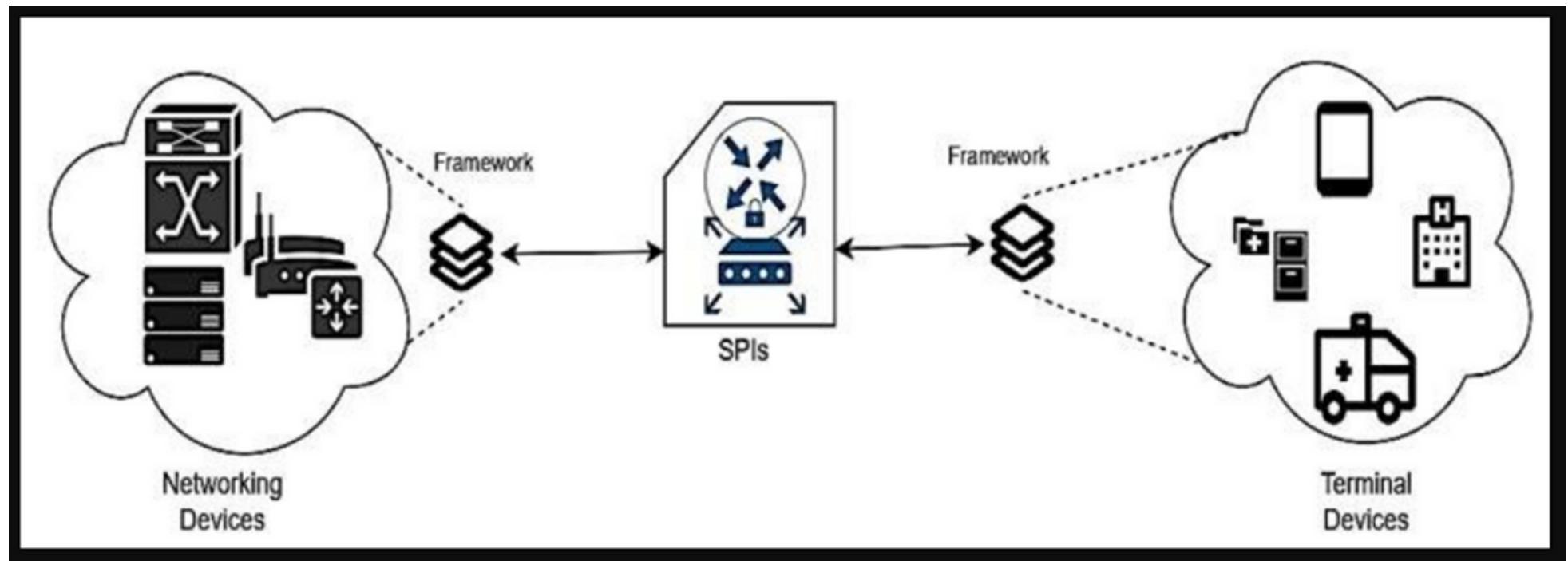


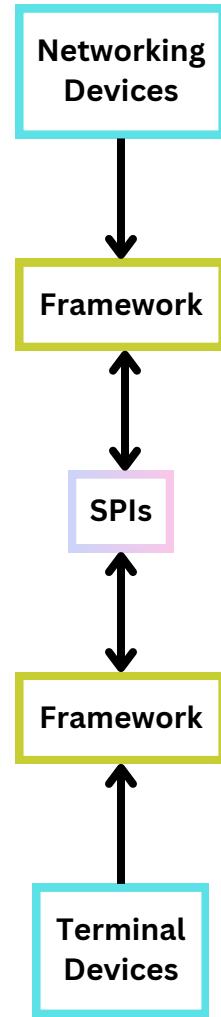


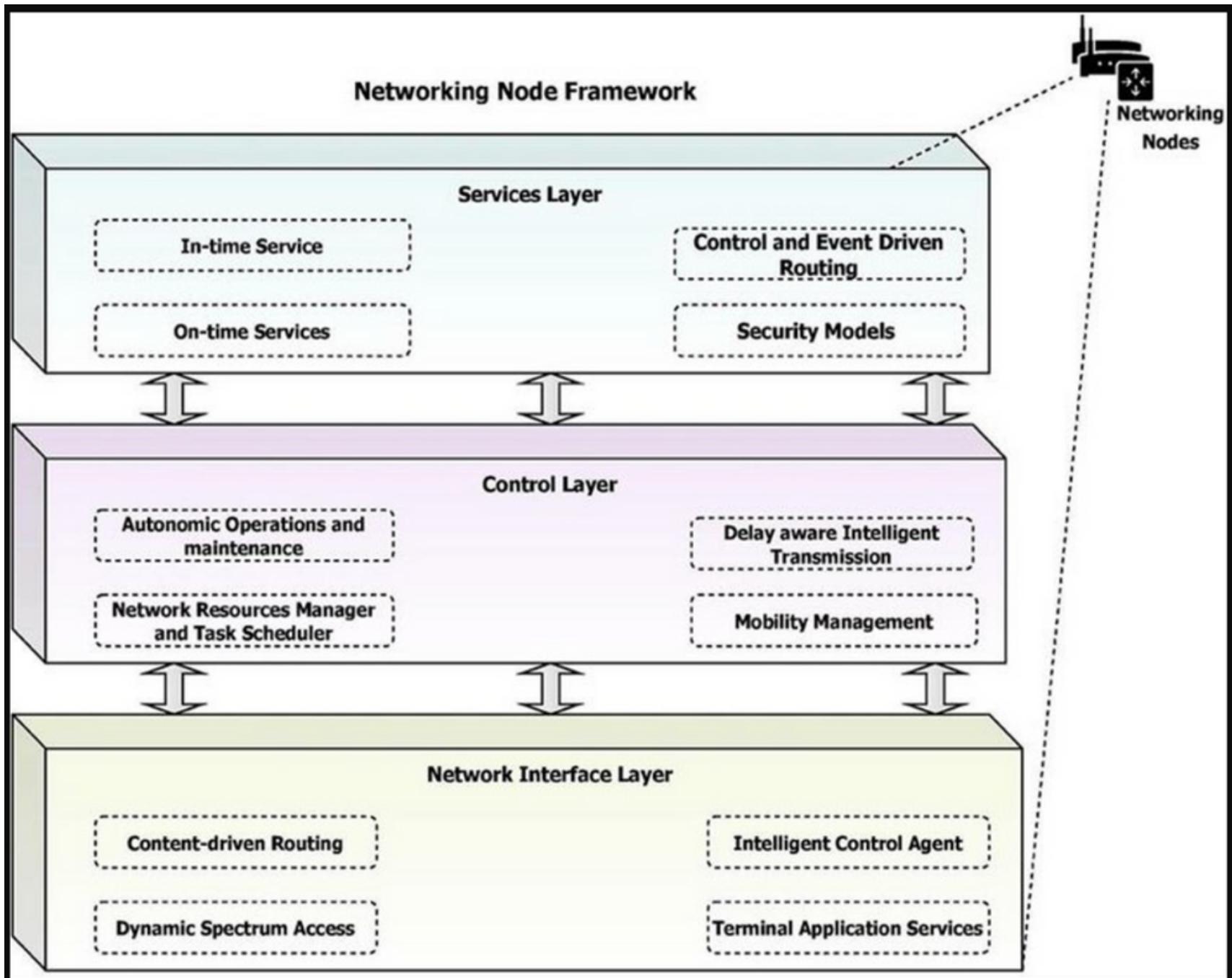


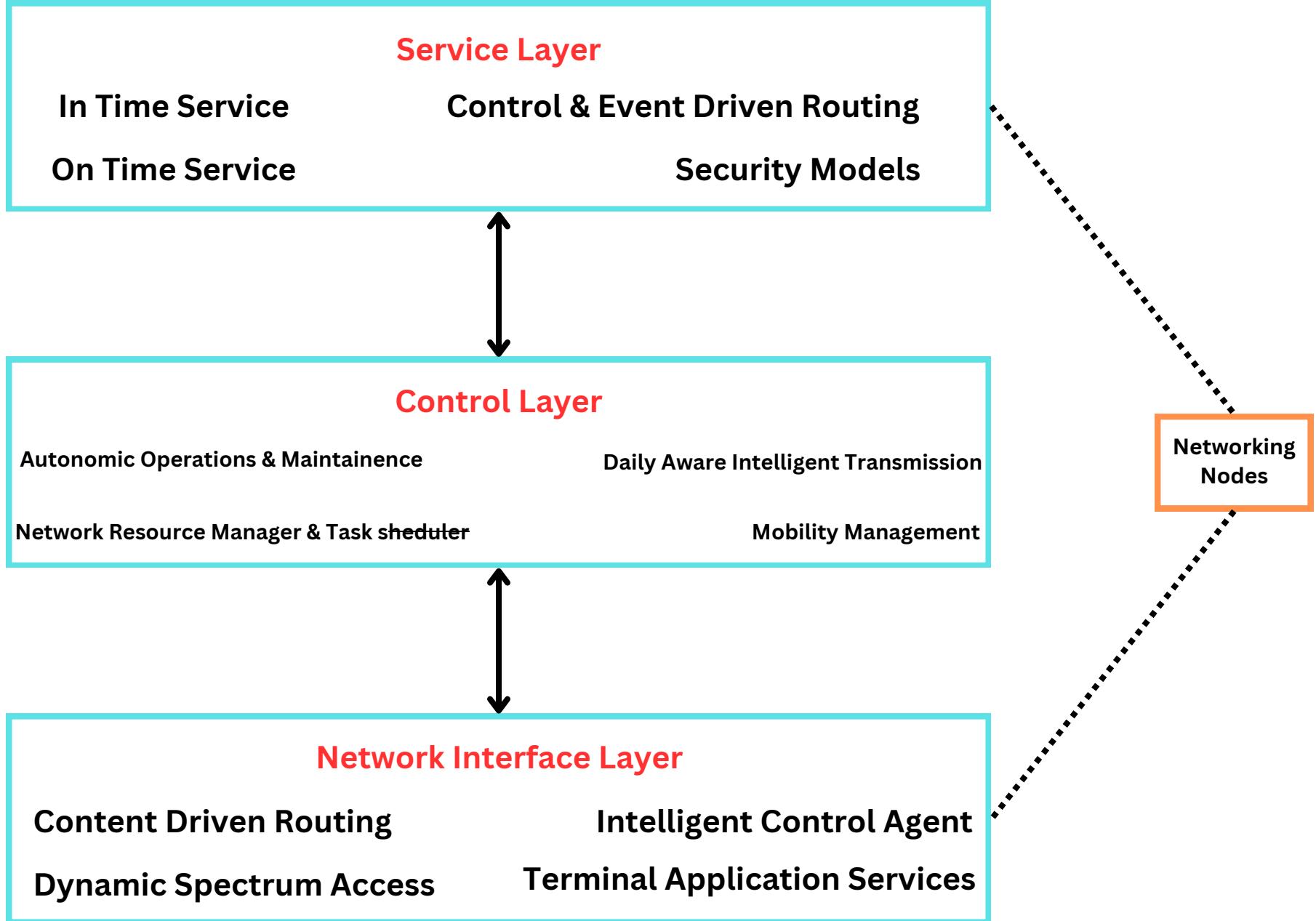


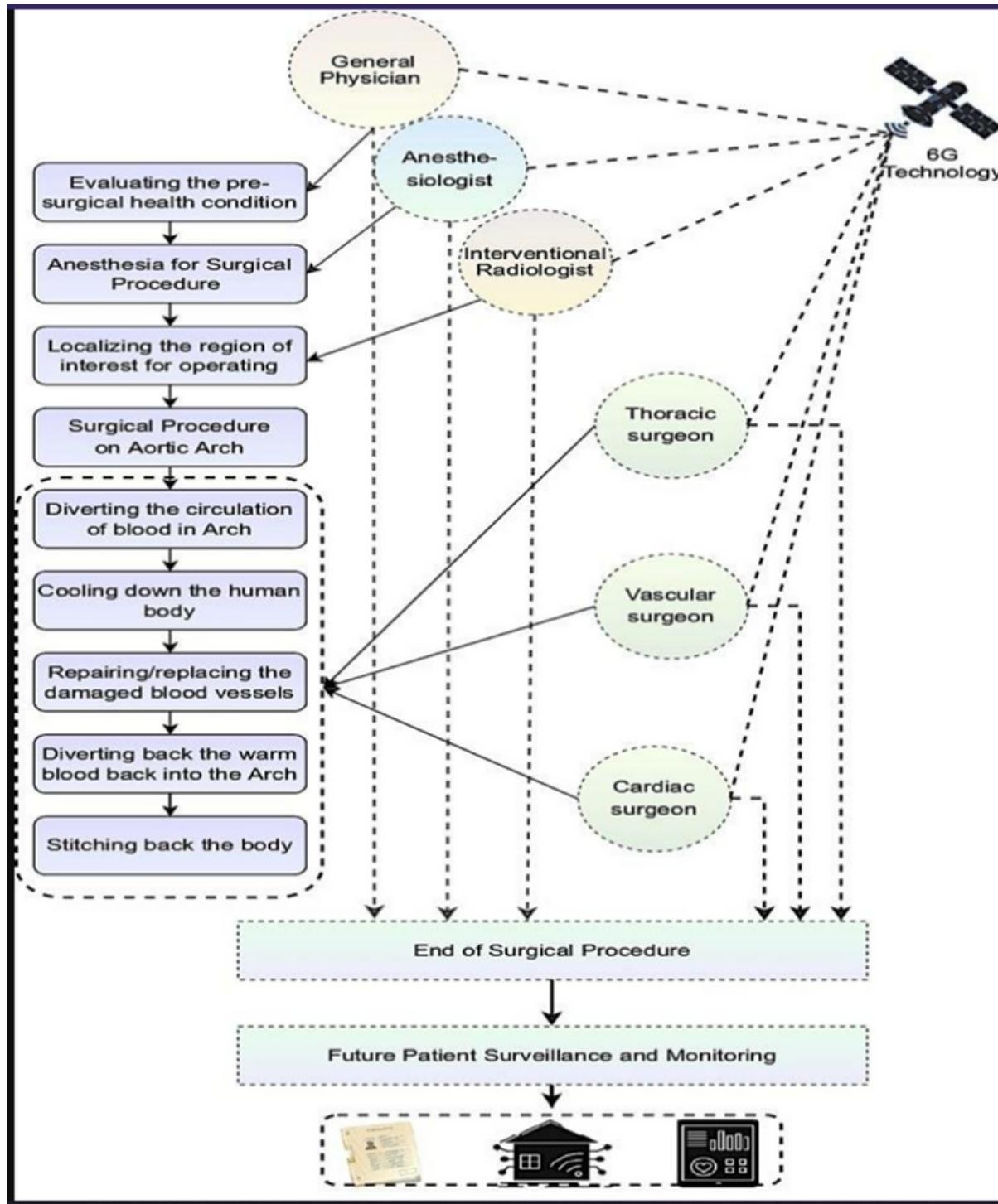


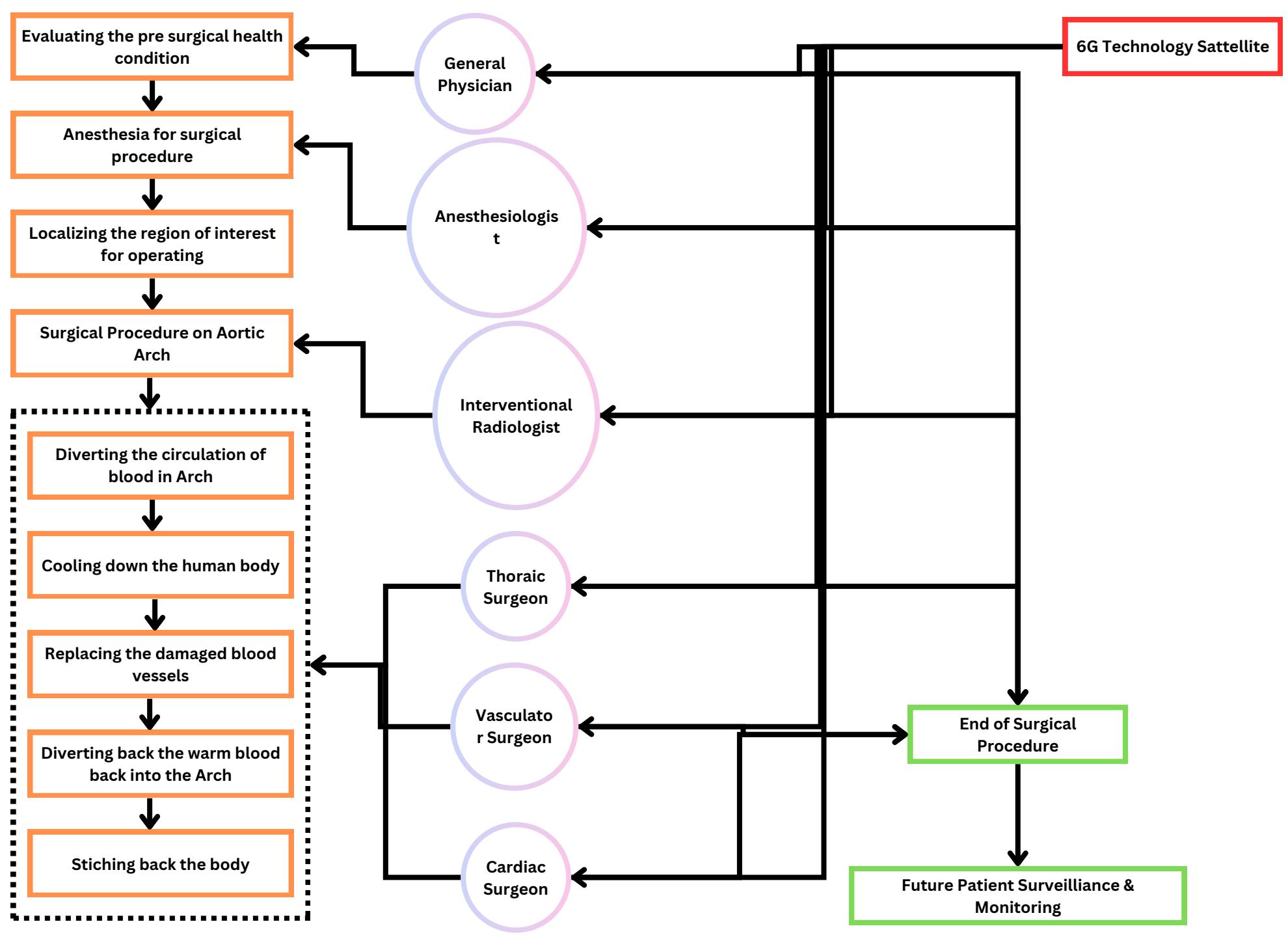


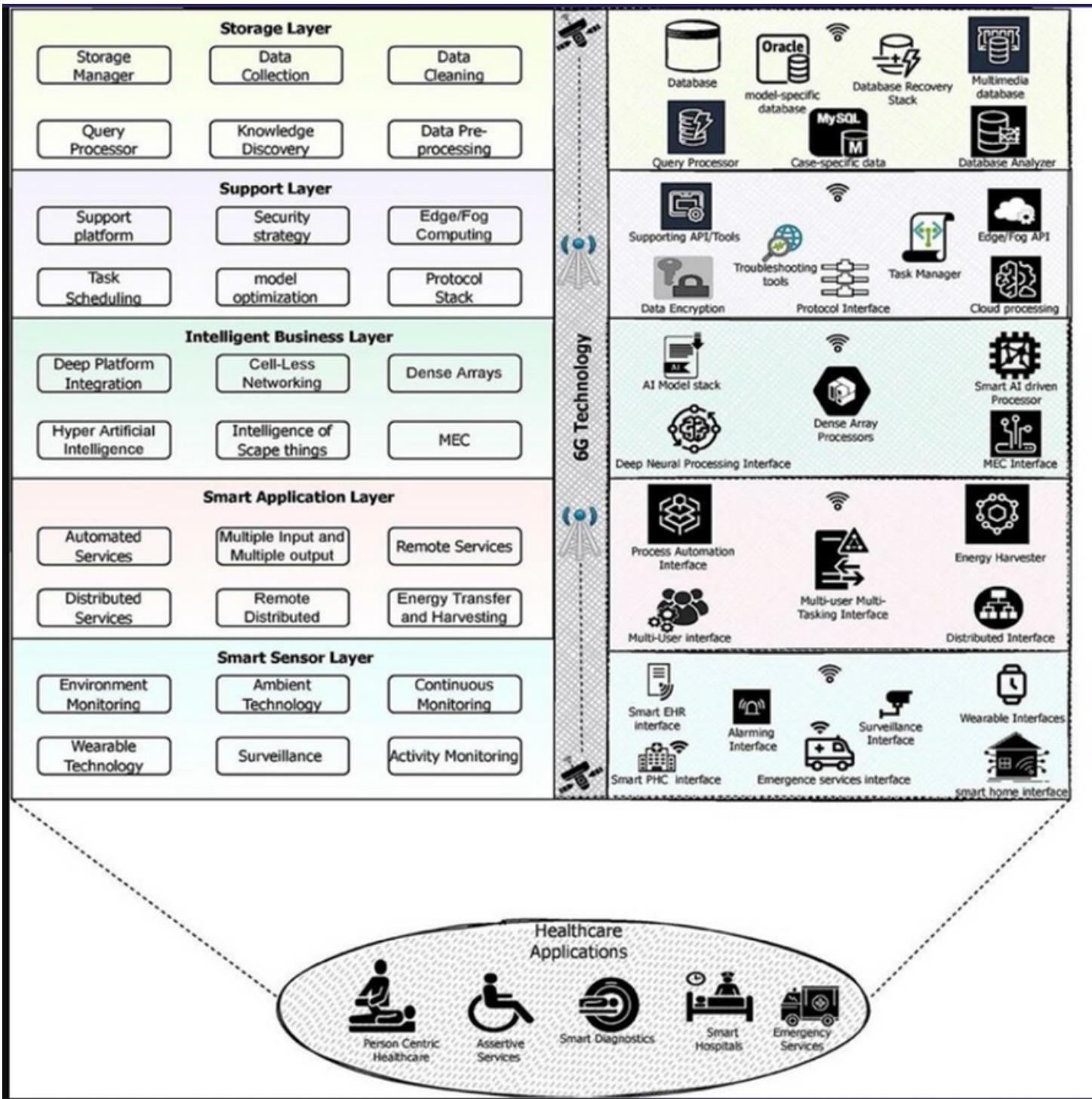


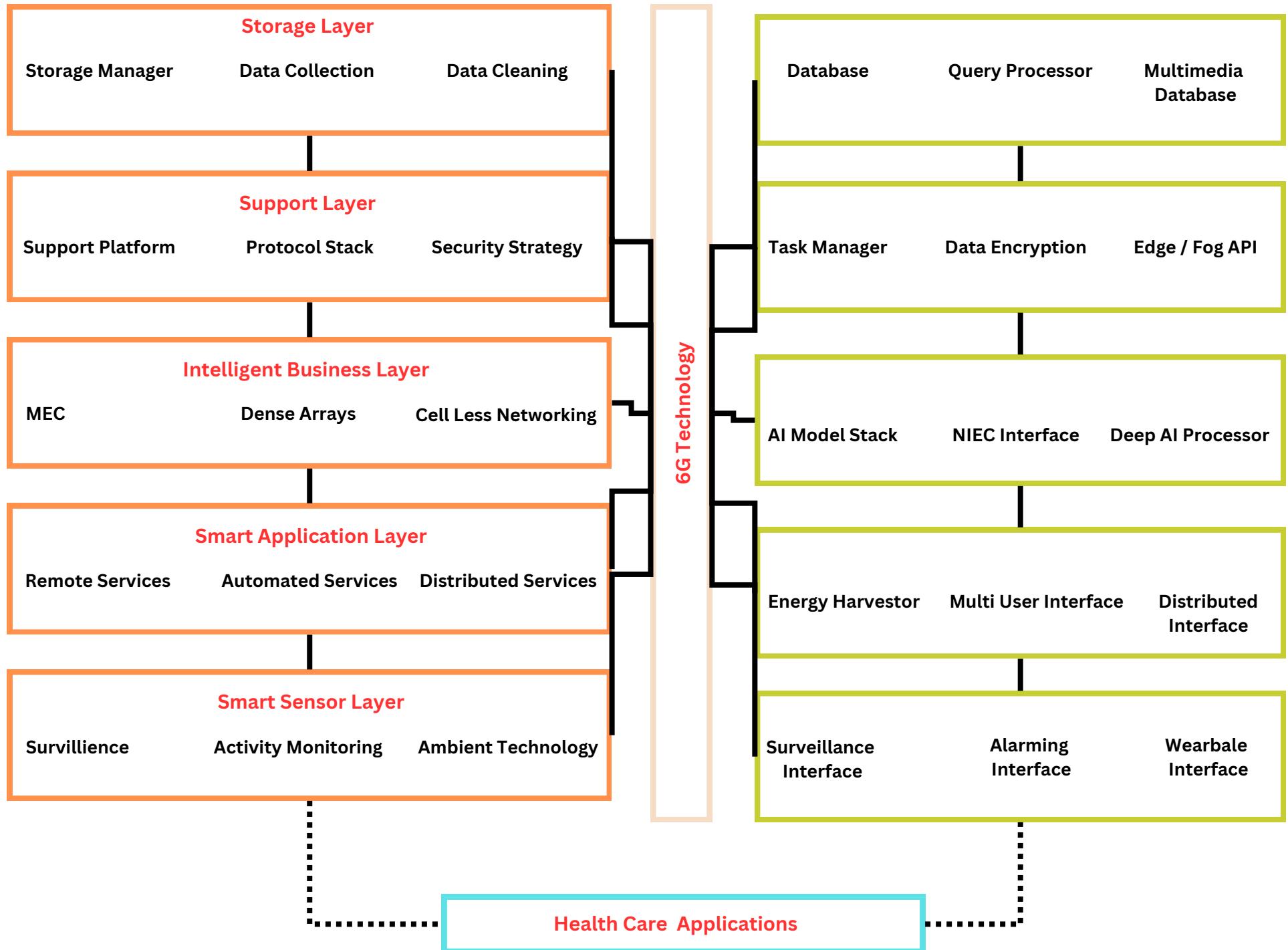


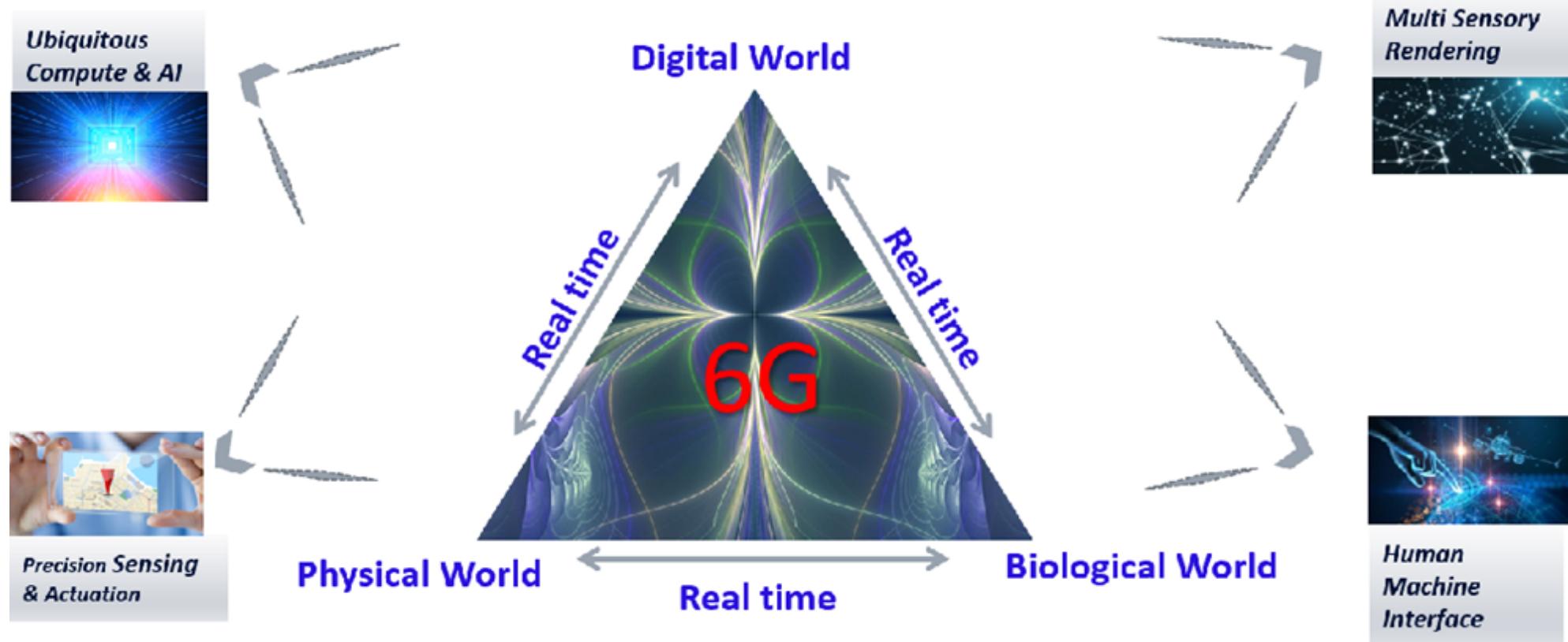


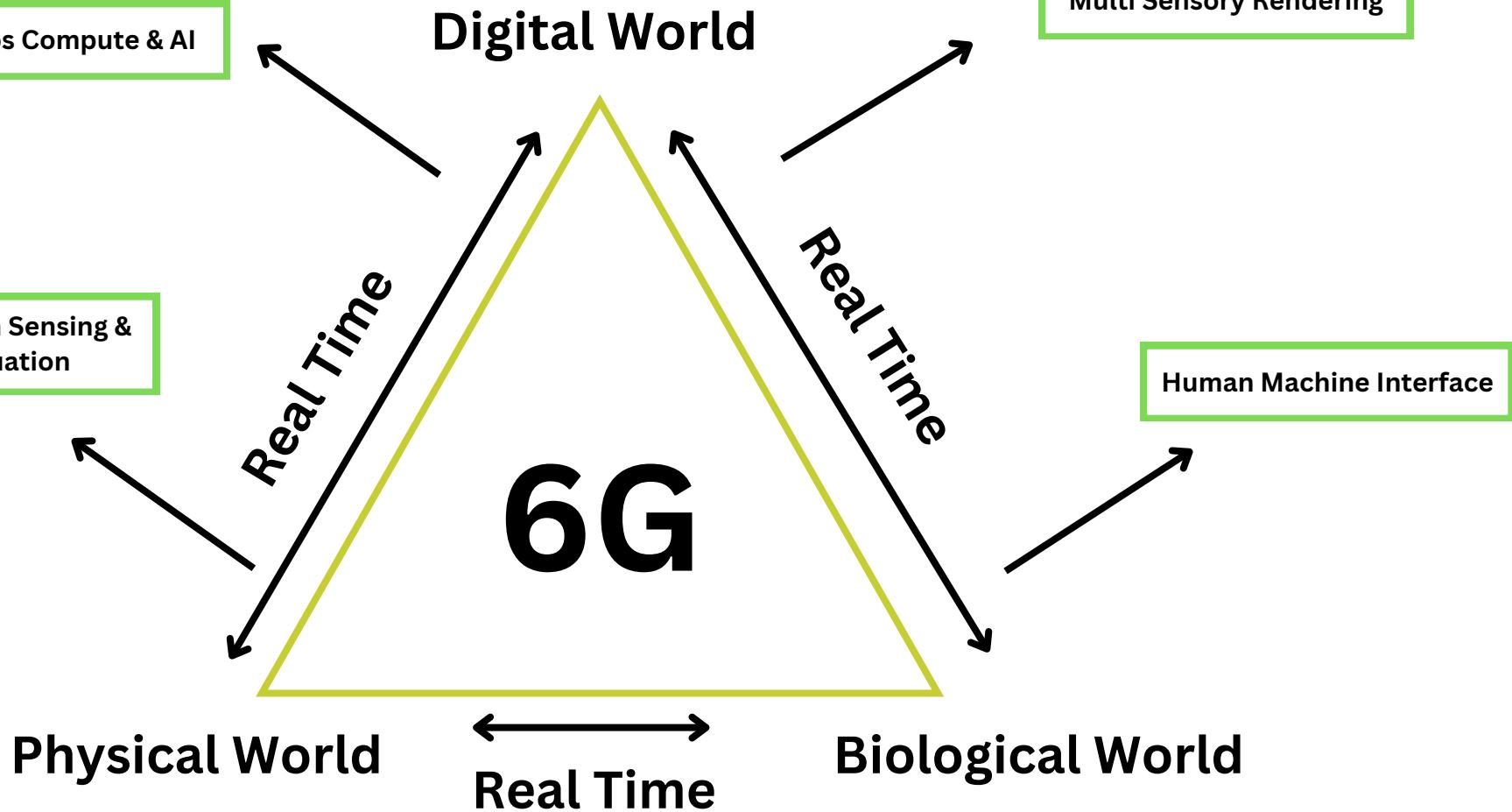














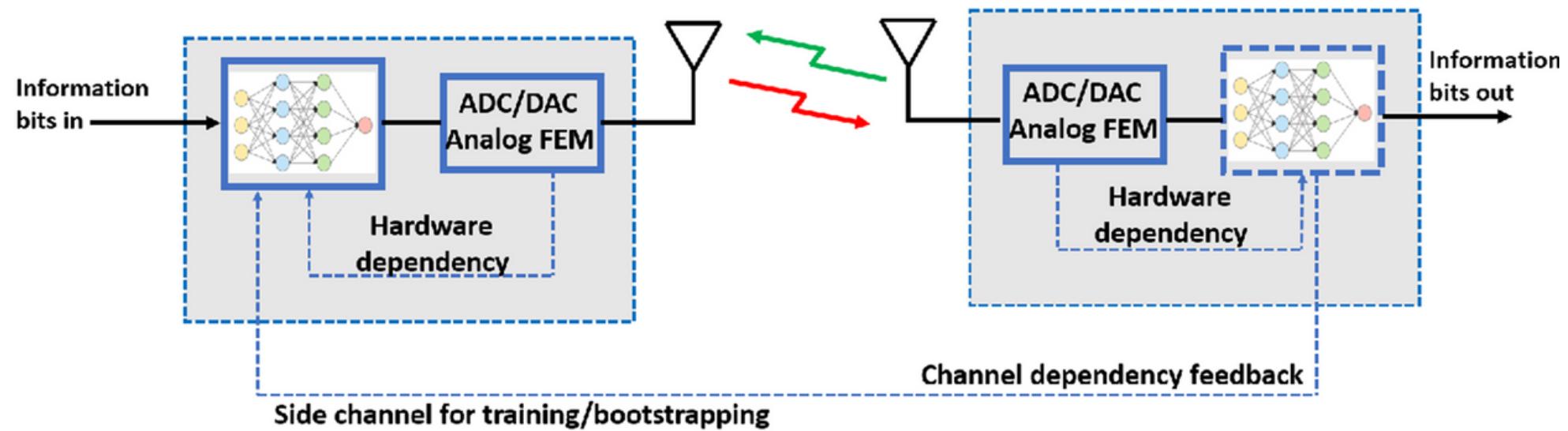
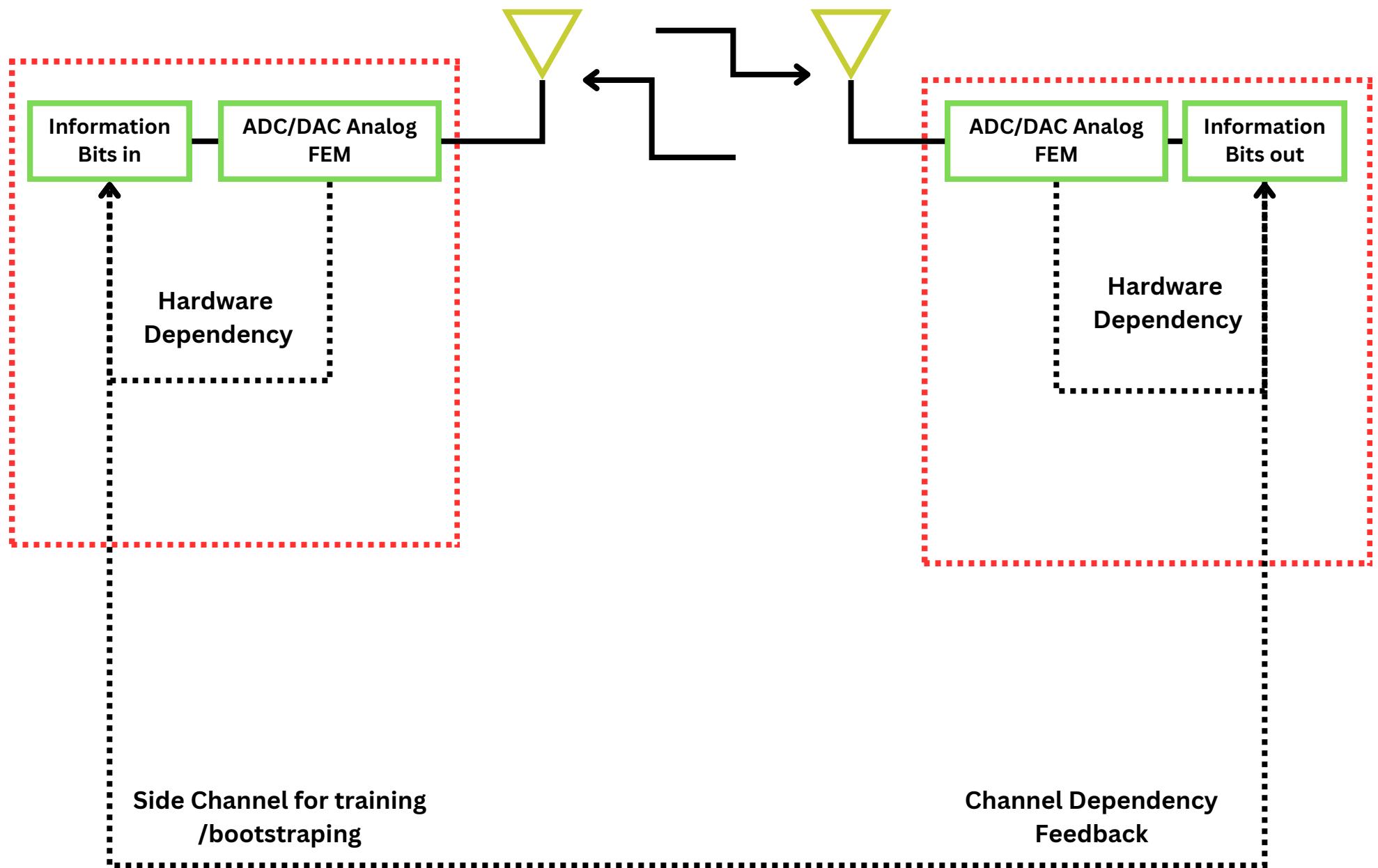


FIGURE 5. End-to-end learning systems adapting to hardware and channels.



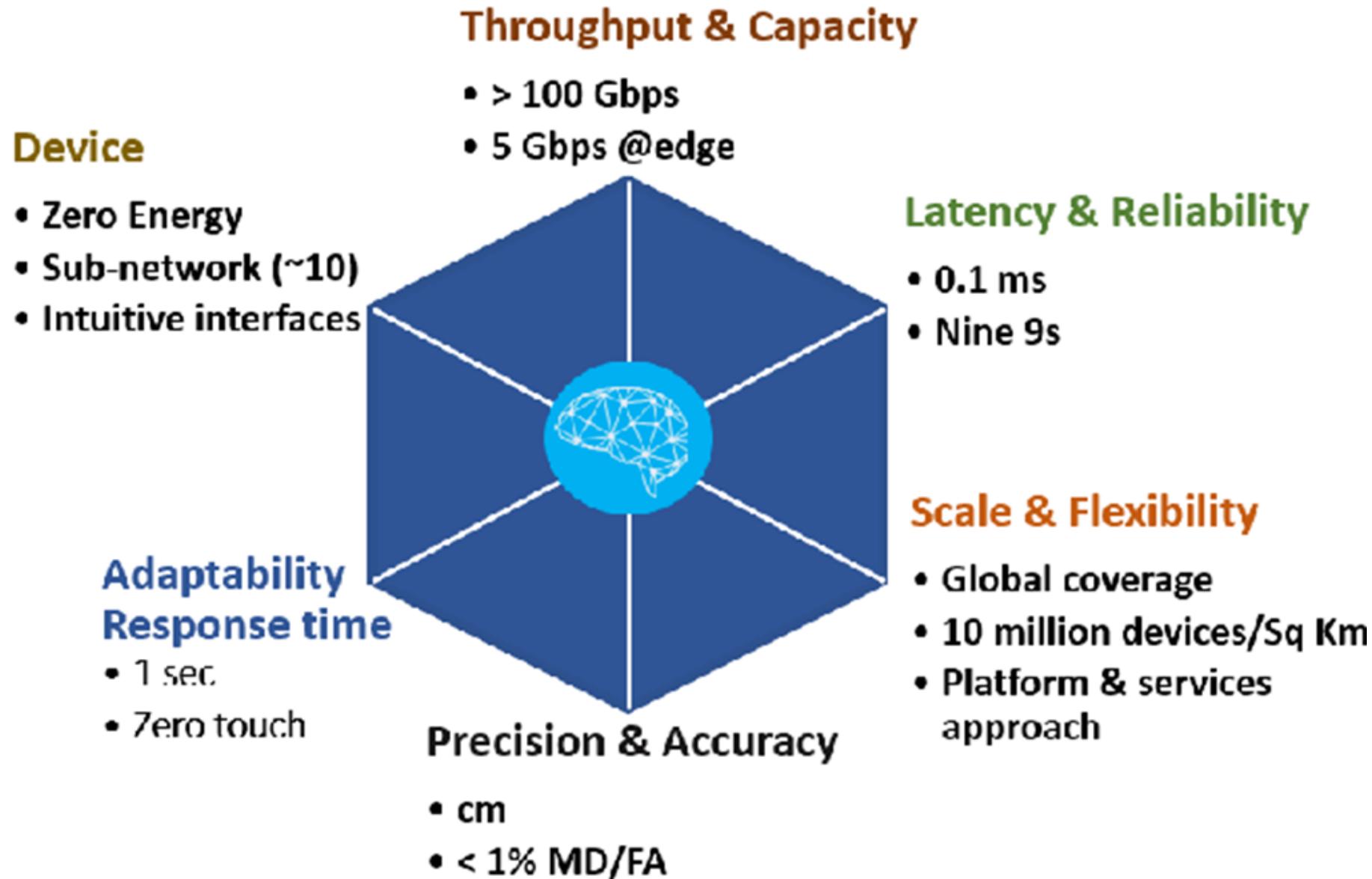


FIGURE 3. Key requirements and characteristics of 6G. Object sensing is characterized through missed detection (MD) and false alarm (FA)

Throughput & Capacity

- >100 Gbps
- 5 Gbps @ edge

Device

- Zero Energy
- Sub Network

Latency & Reliability

- 0.1ms
- 9sec

Adaptability Response Time

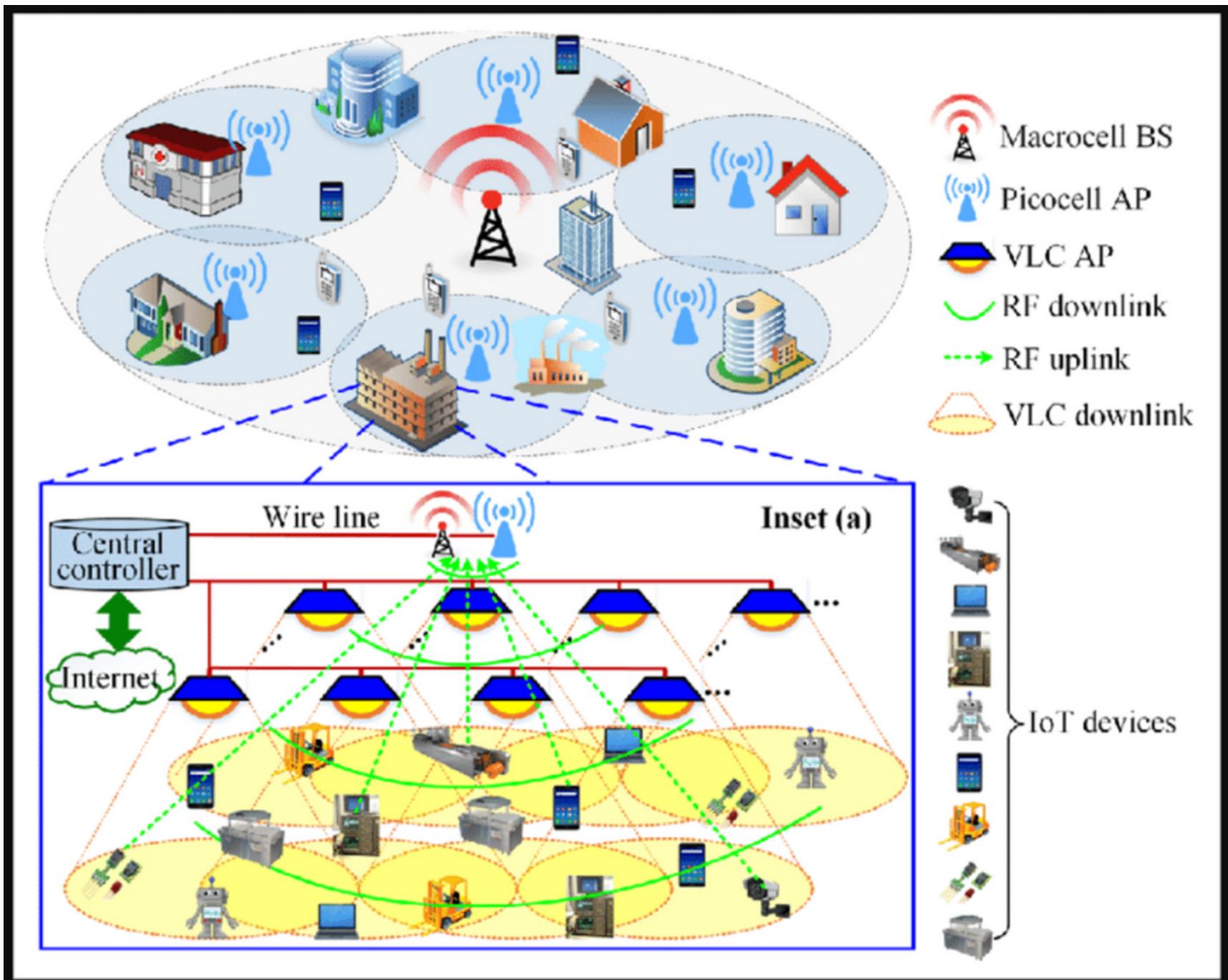
- 1 sec
- Zero touch

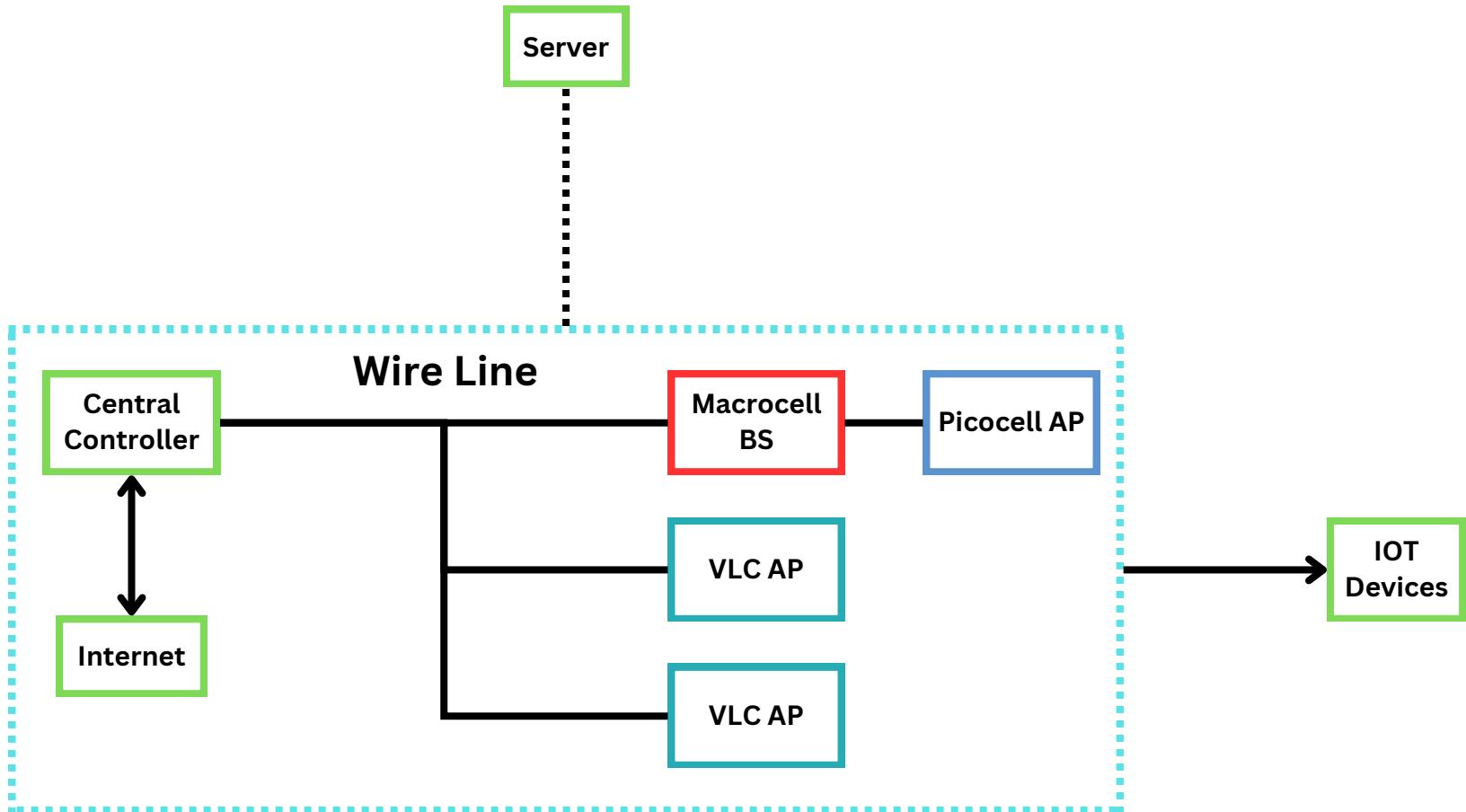
Scale & Flexibility

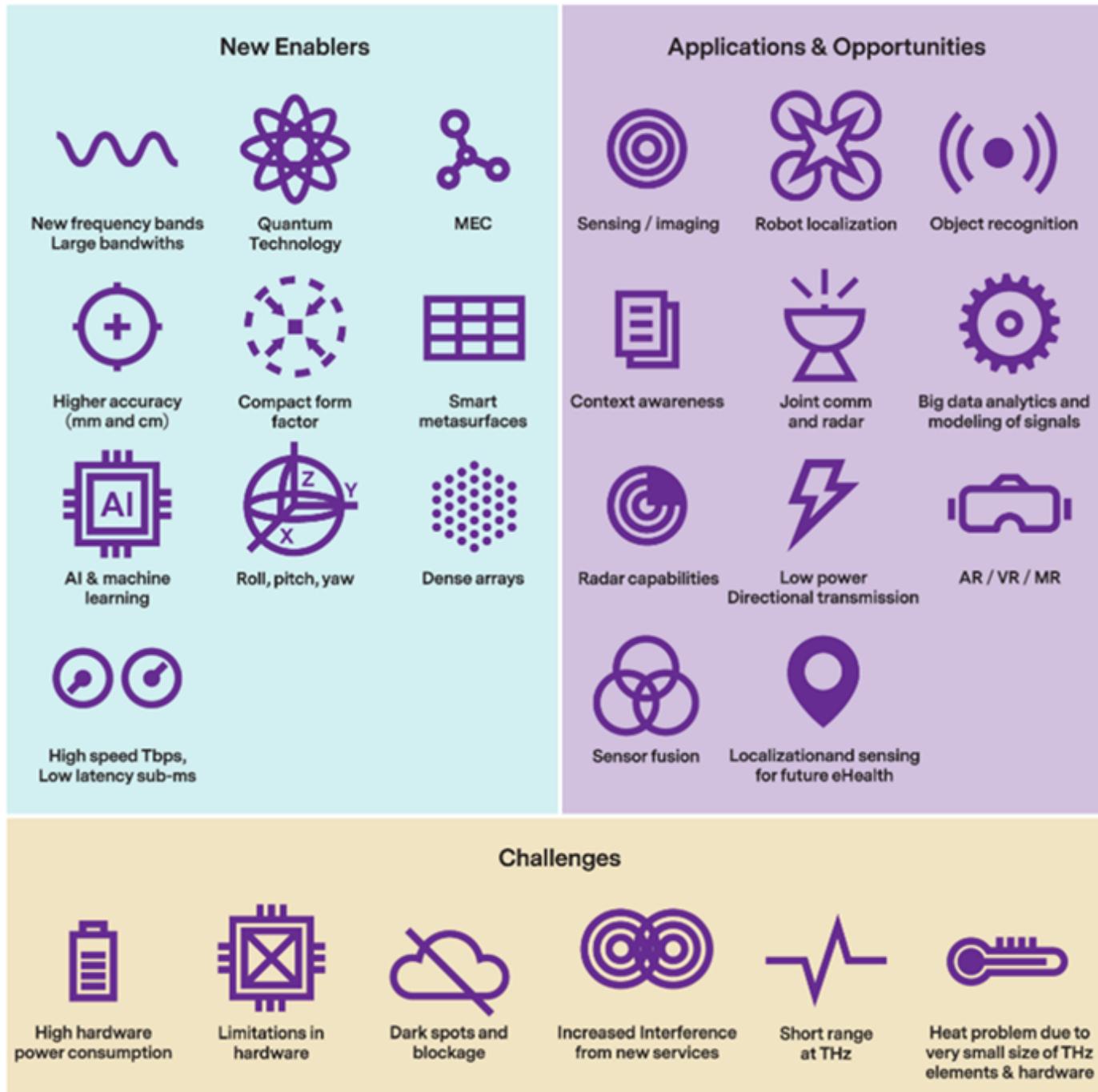
- Global Coverage
- Platform & Services approach

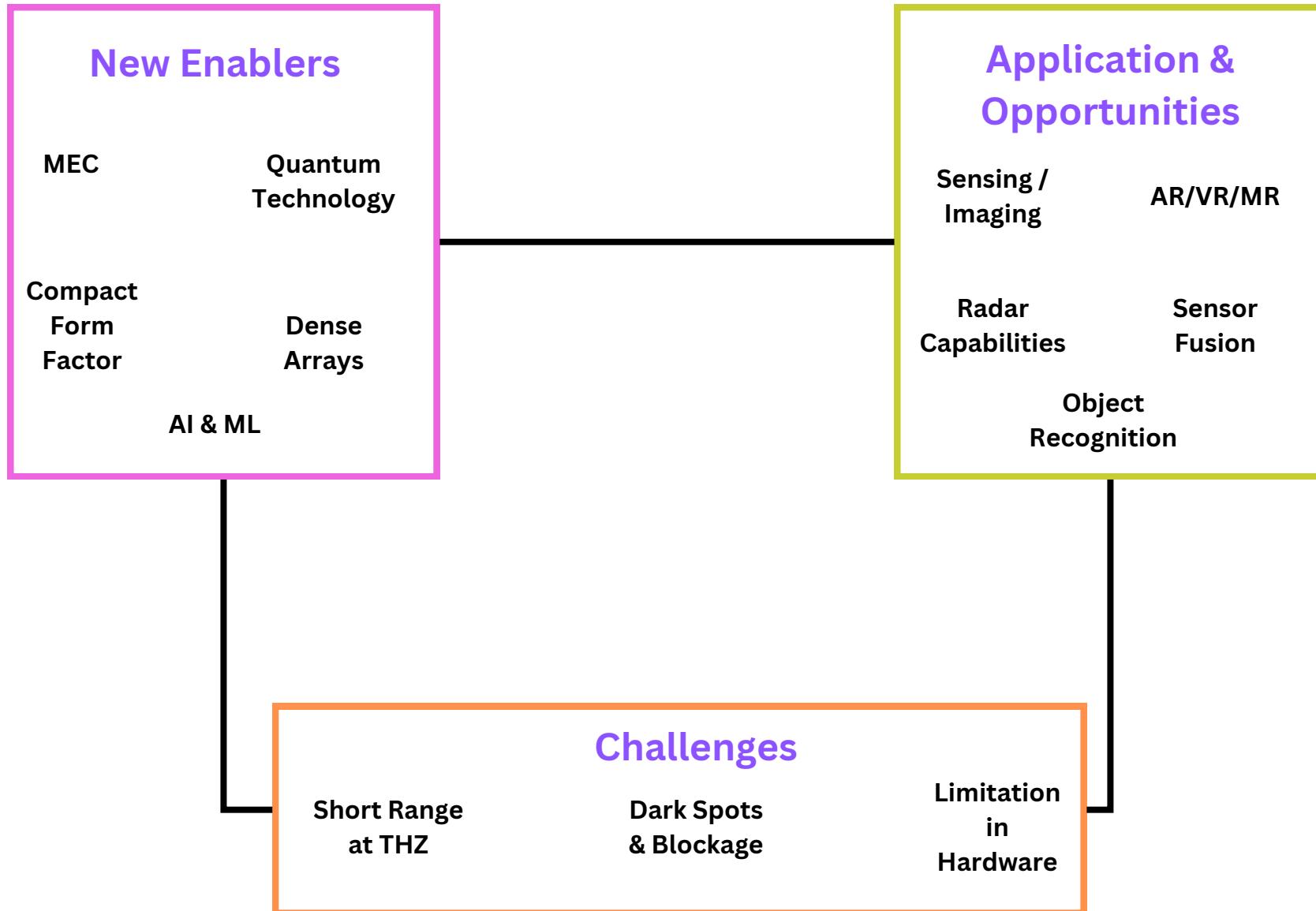
Precision & Accuracy

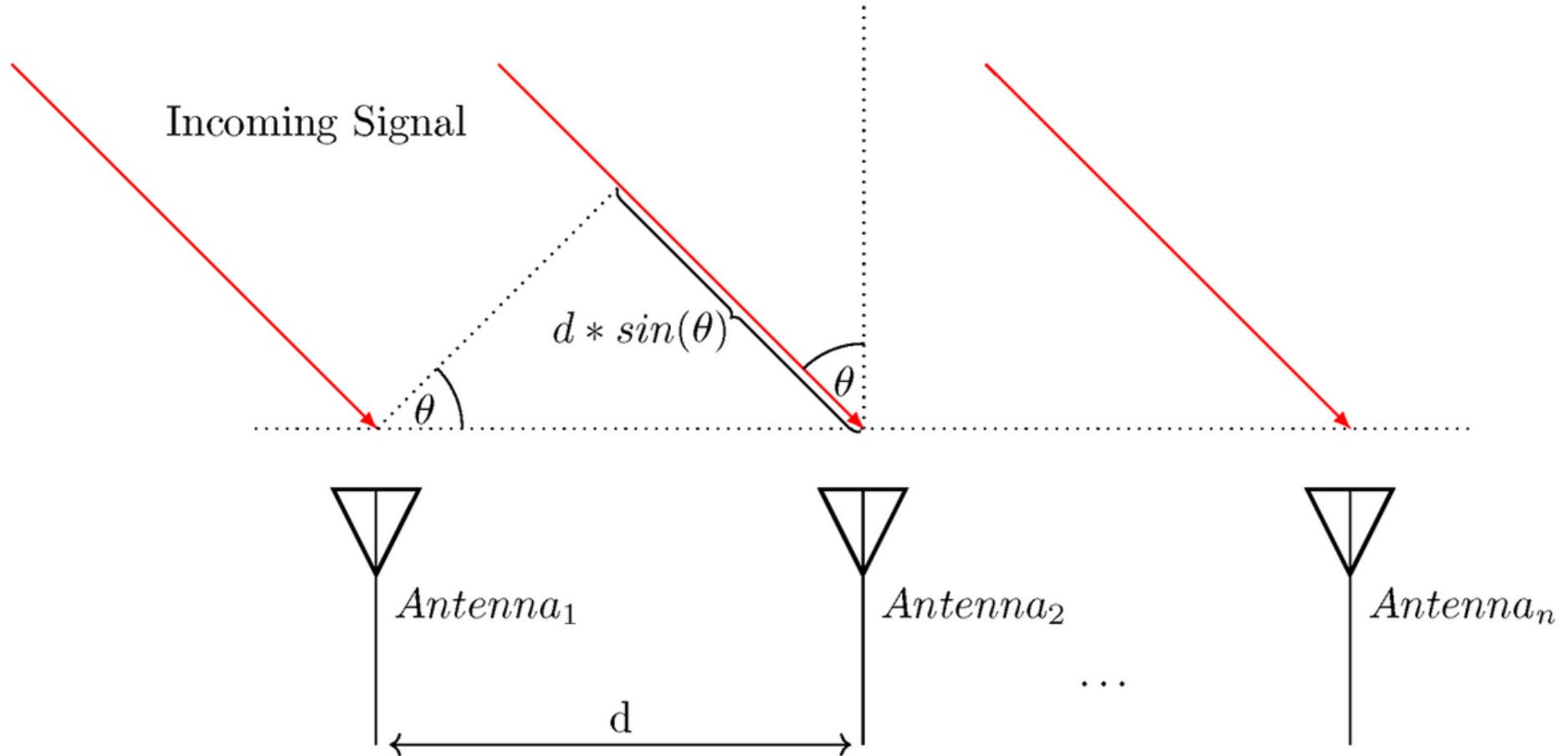
- cm
- <1% MD/FA

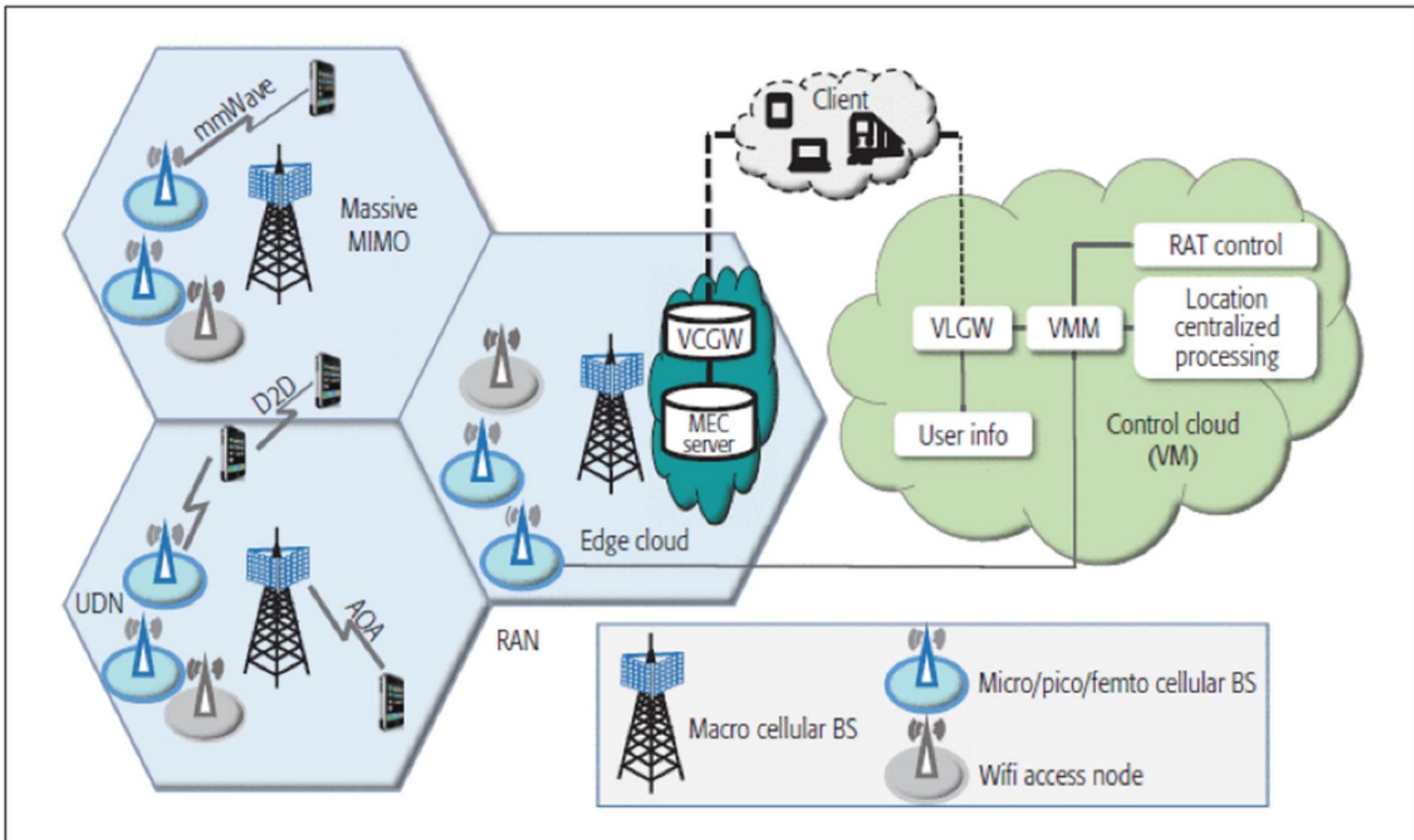


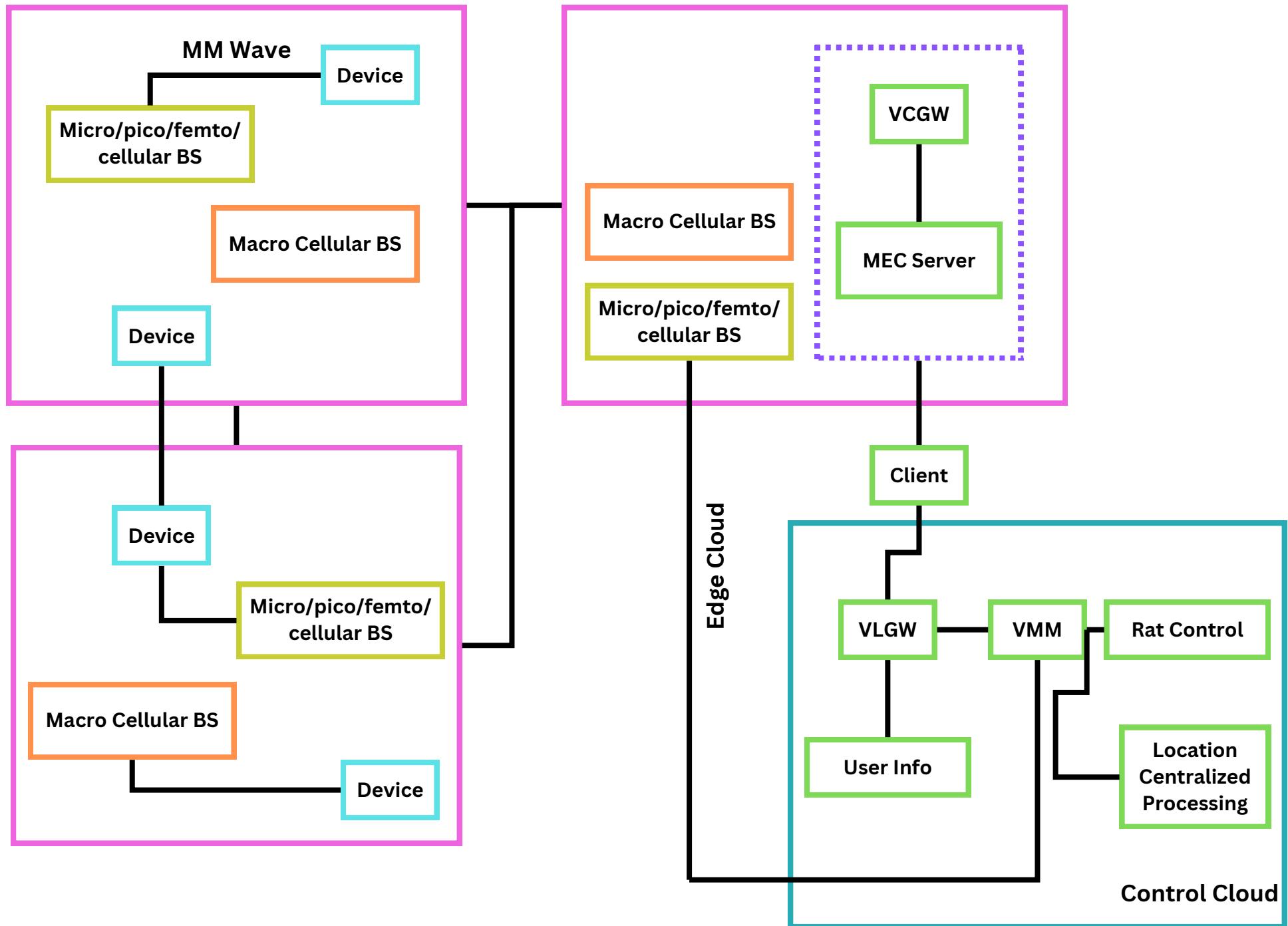


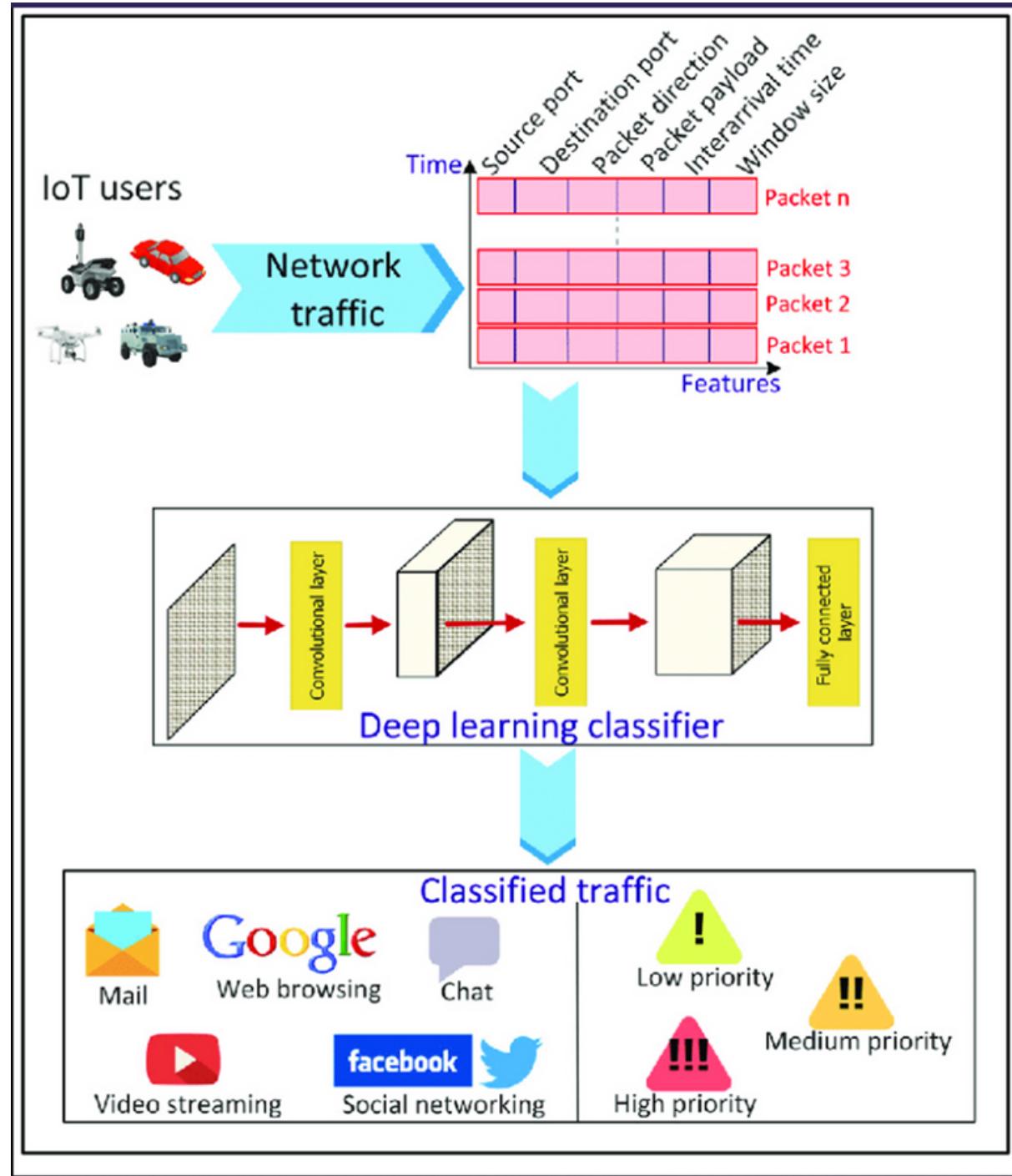


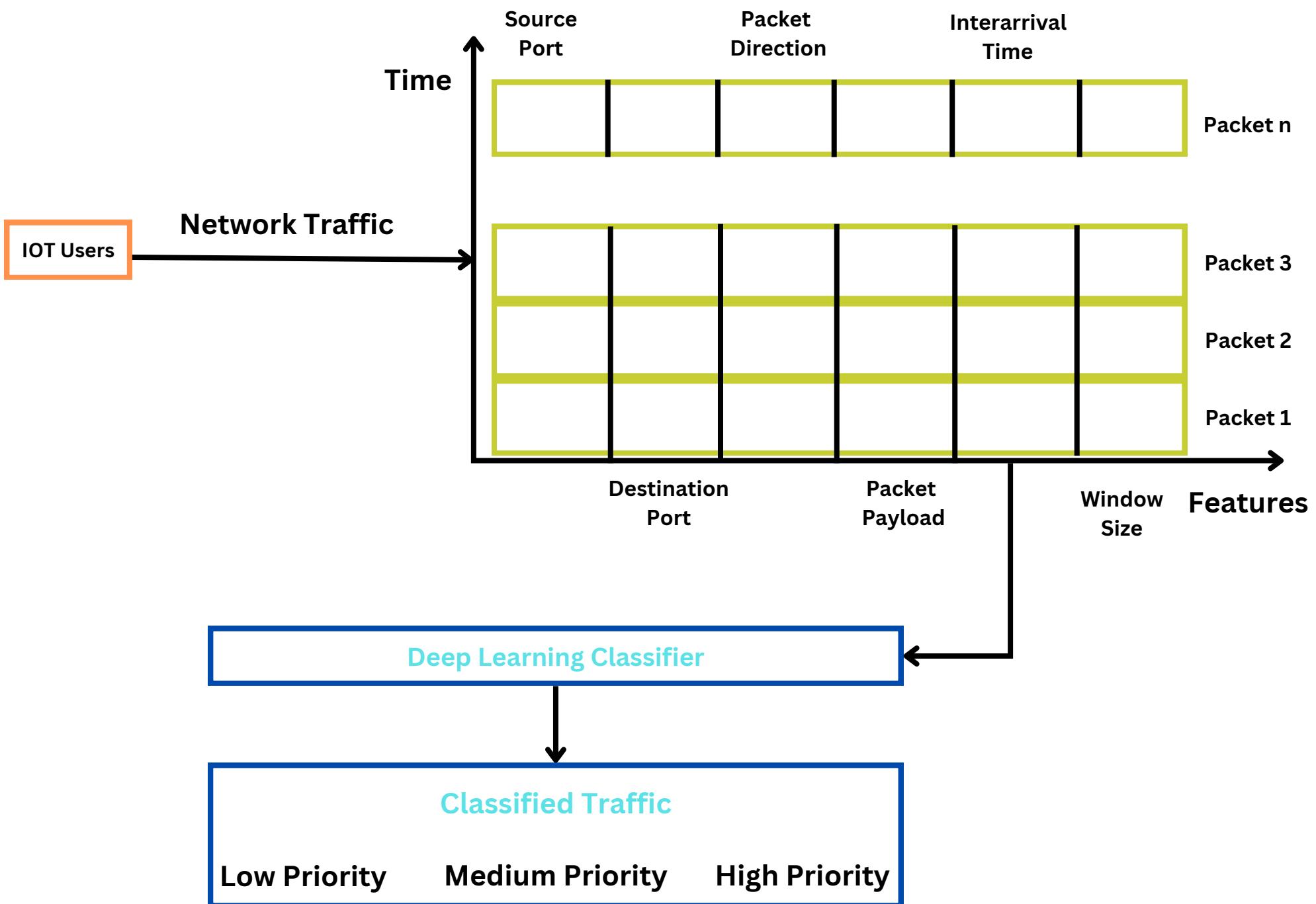


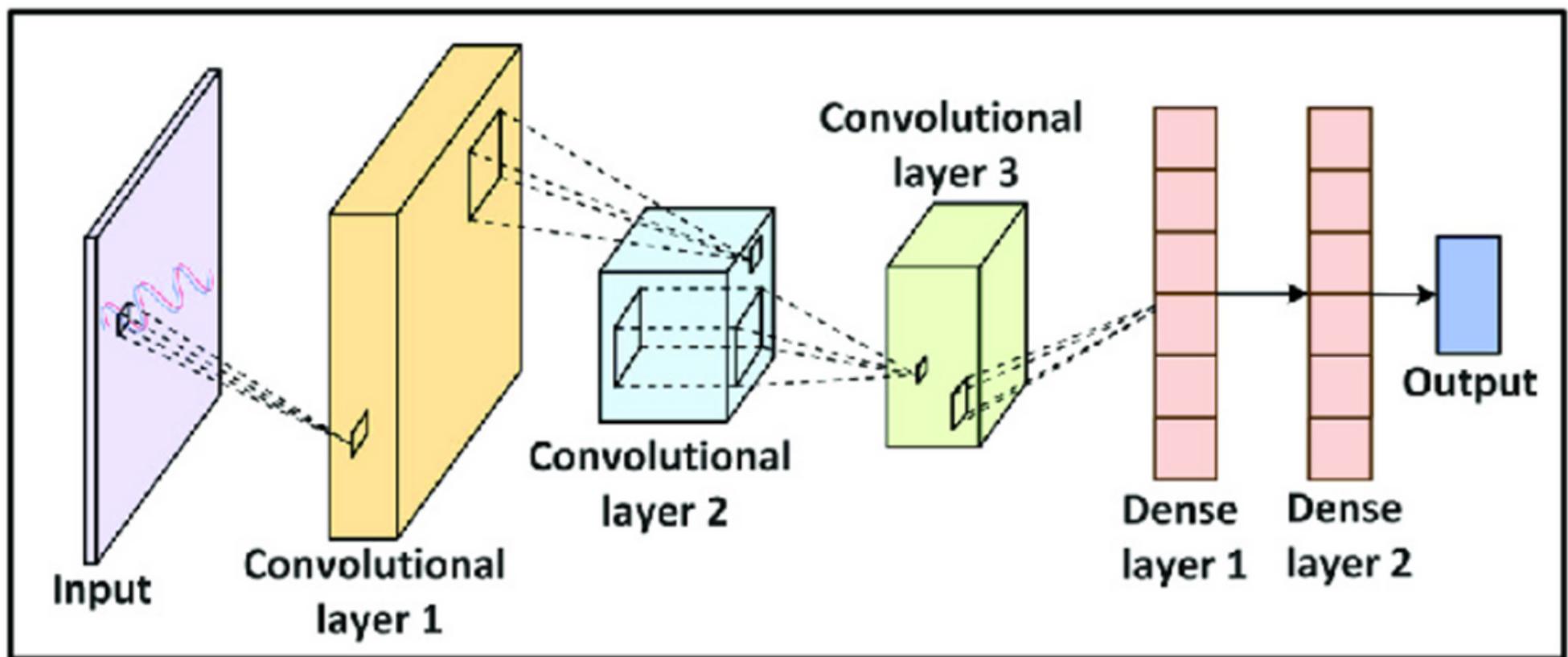




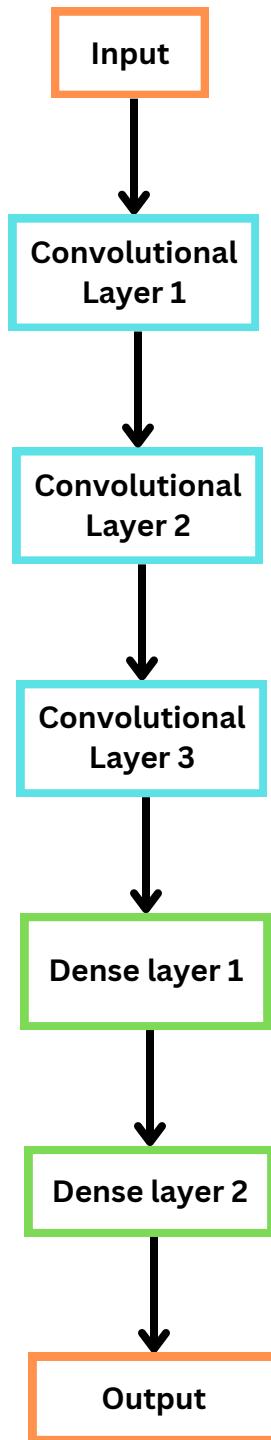


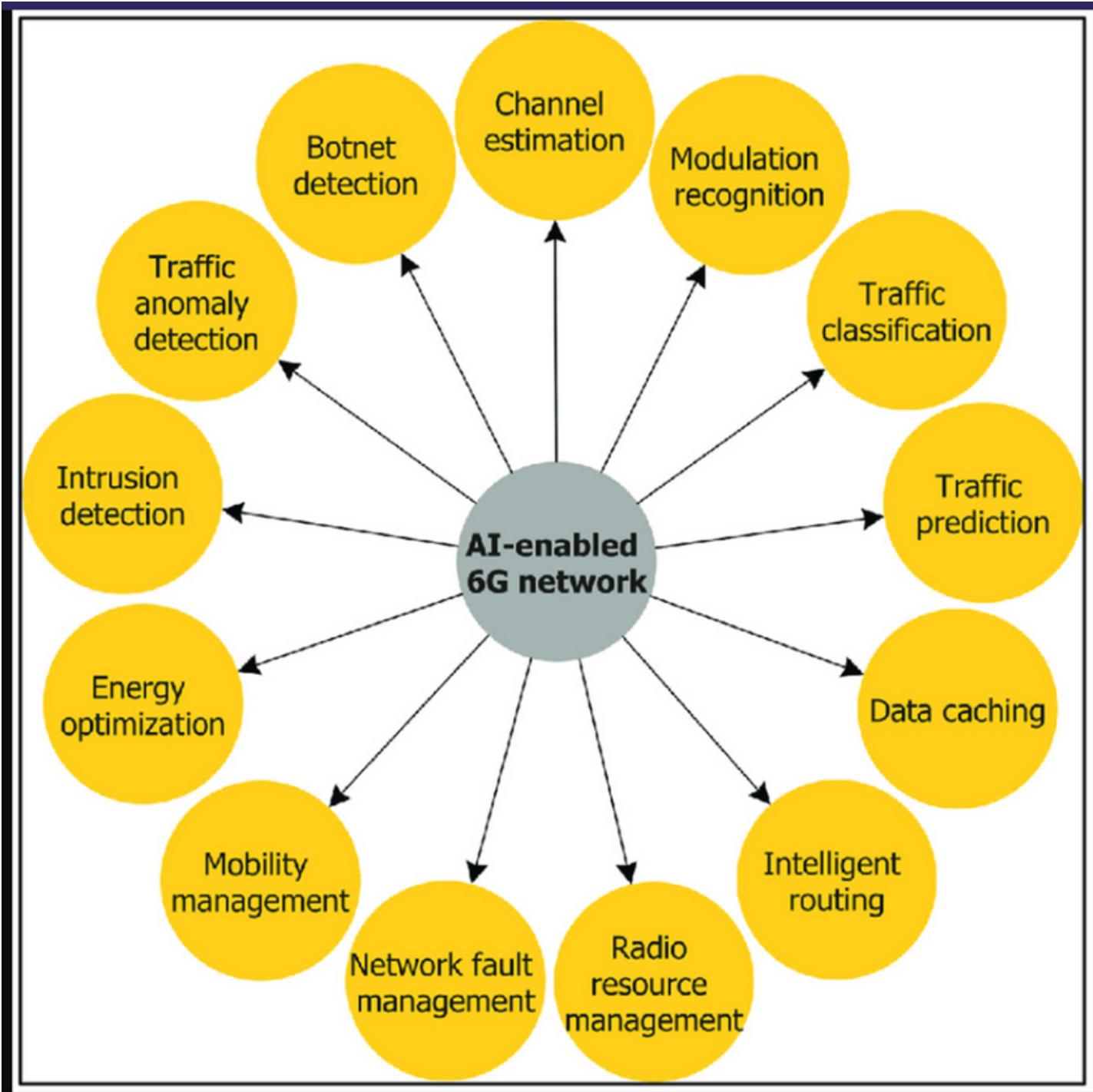


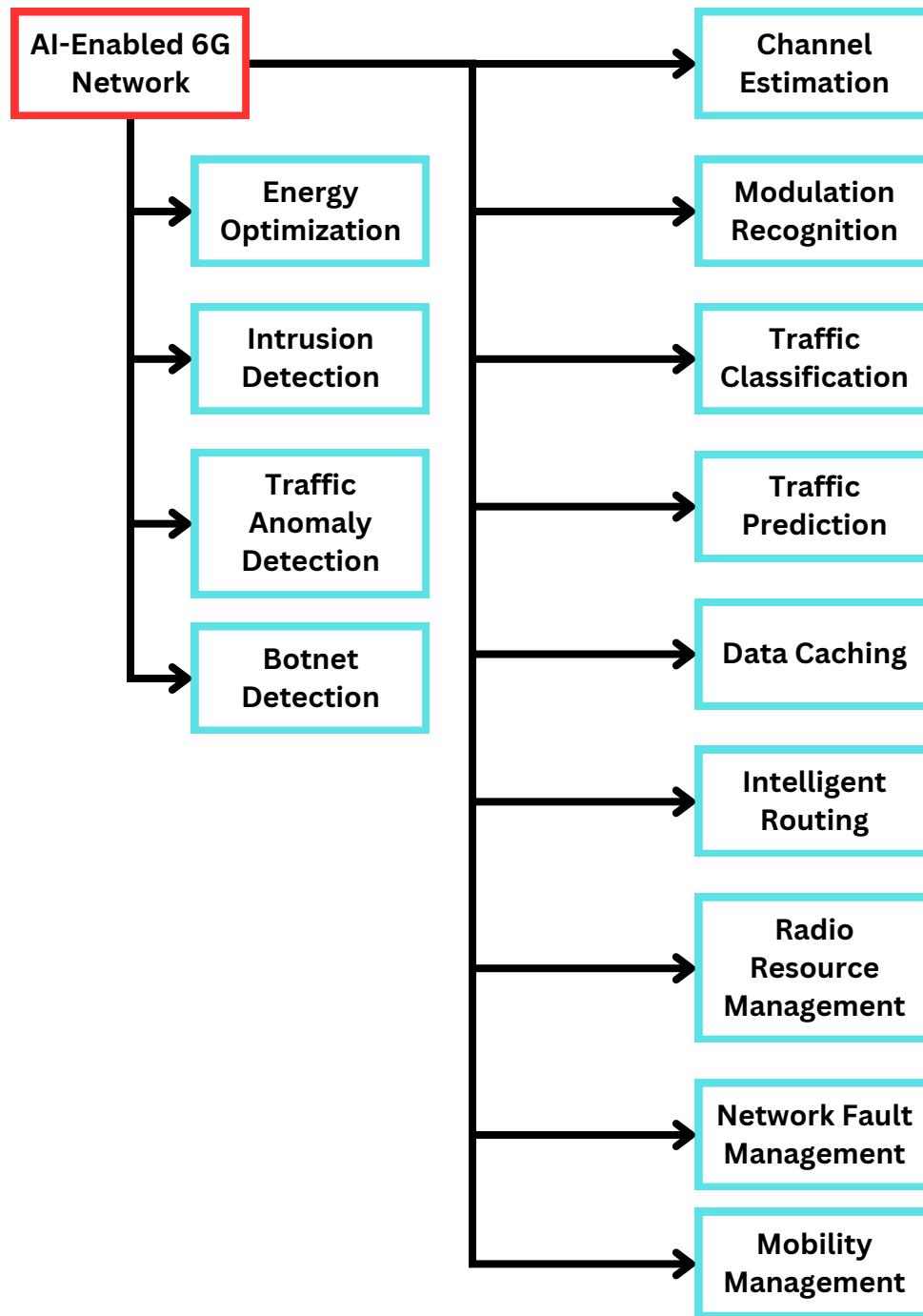


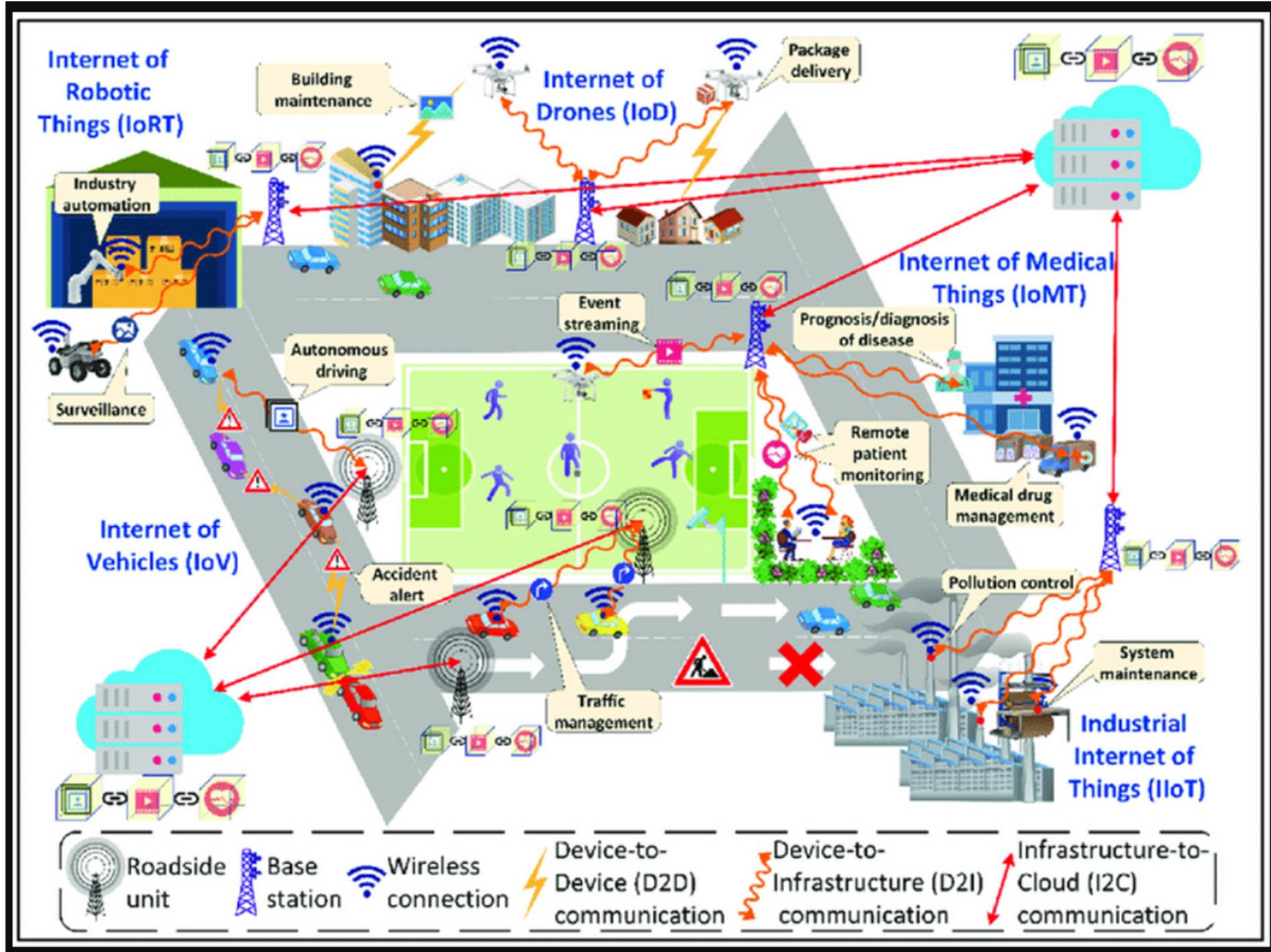


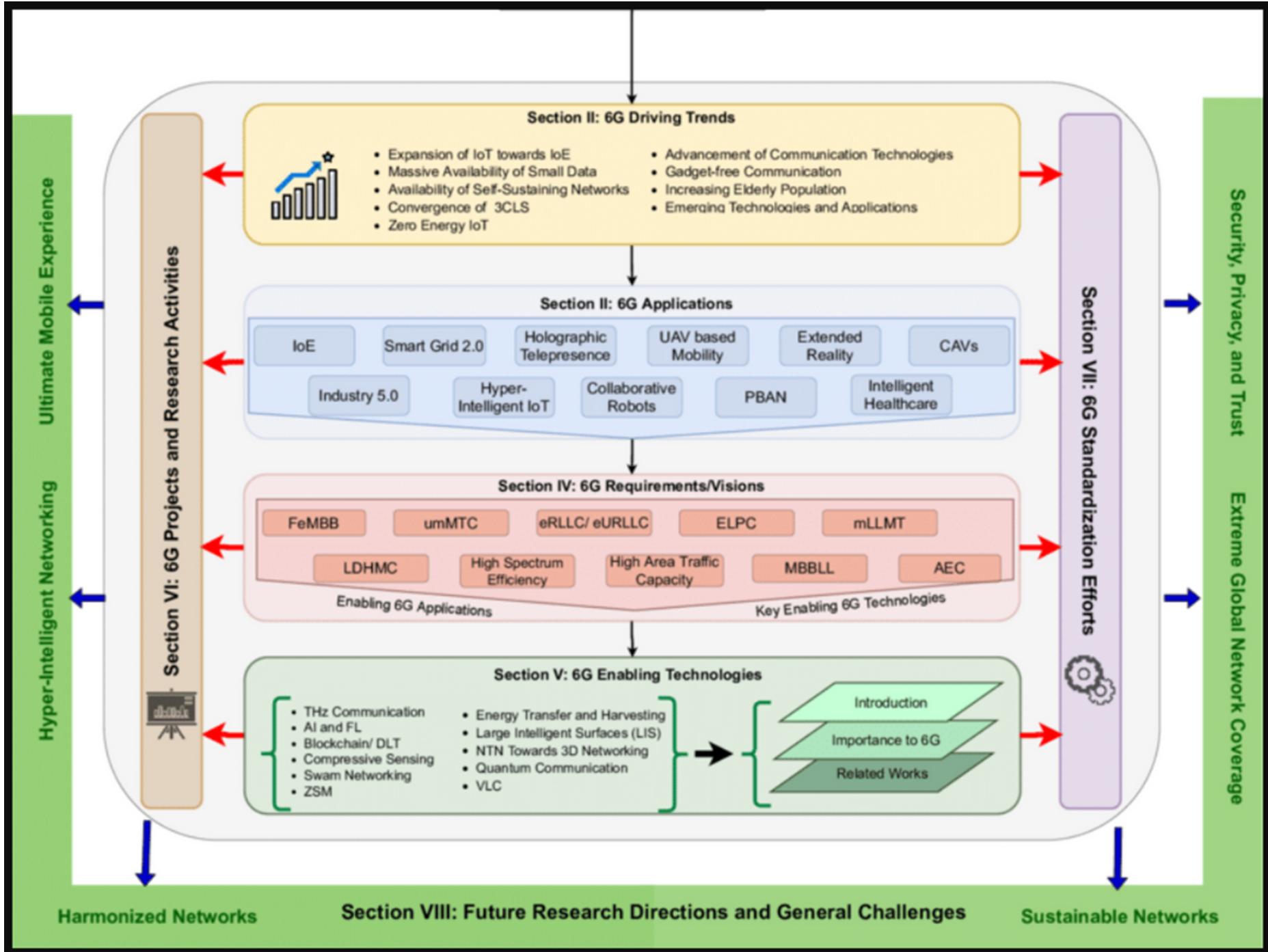
Convolutional Neural Network (CNN)-based modulation recognition in networking.

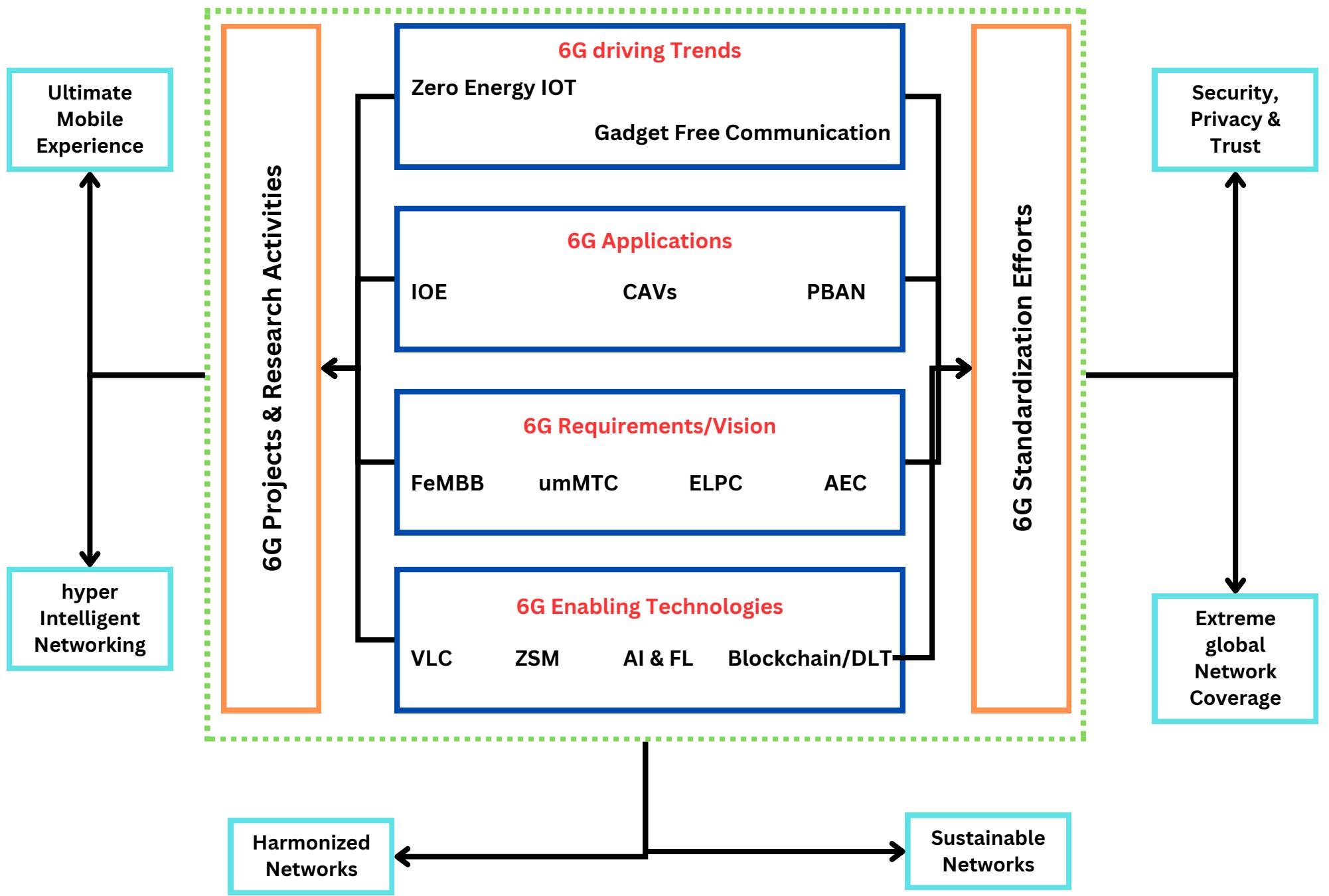


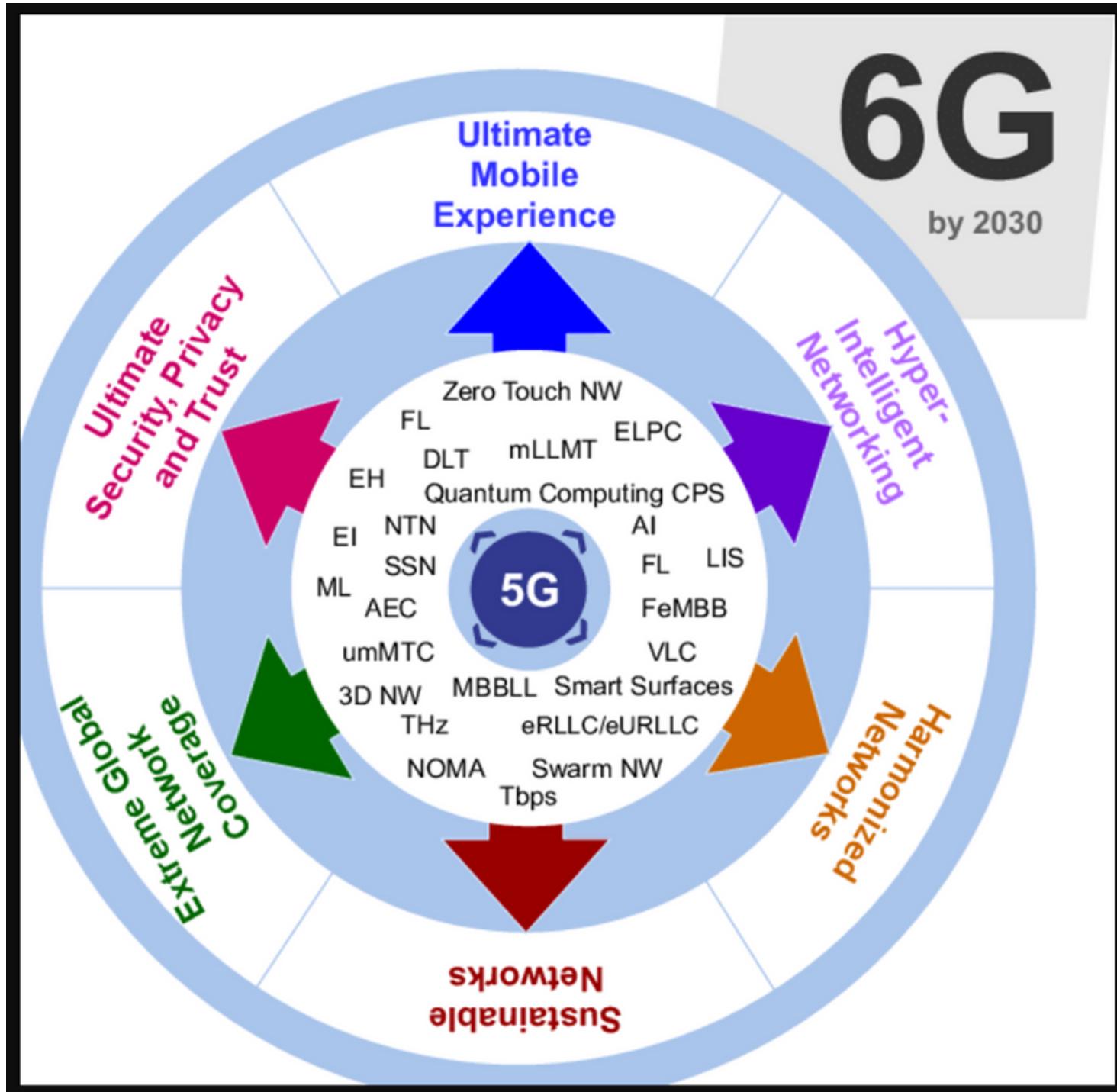


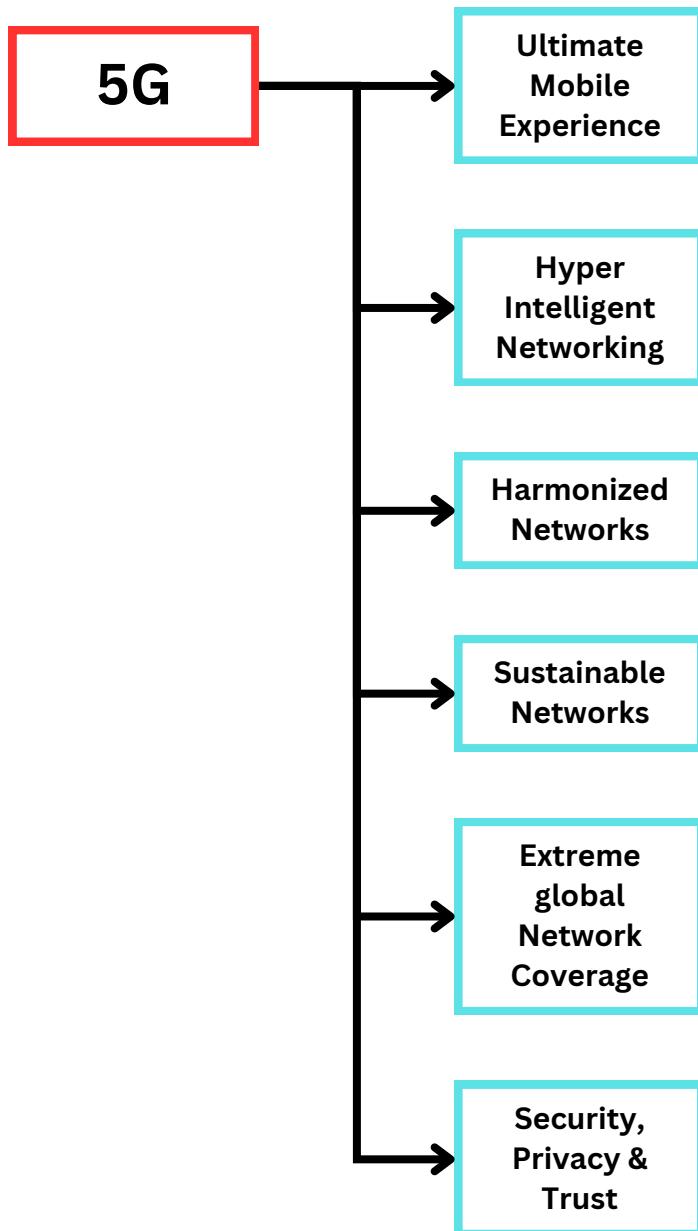


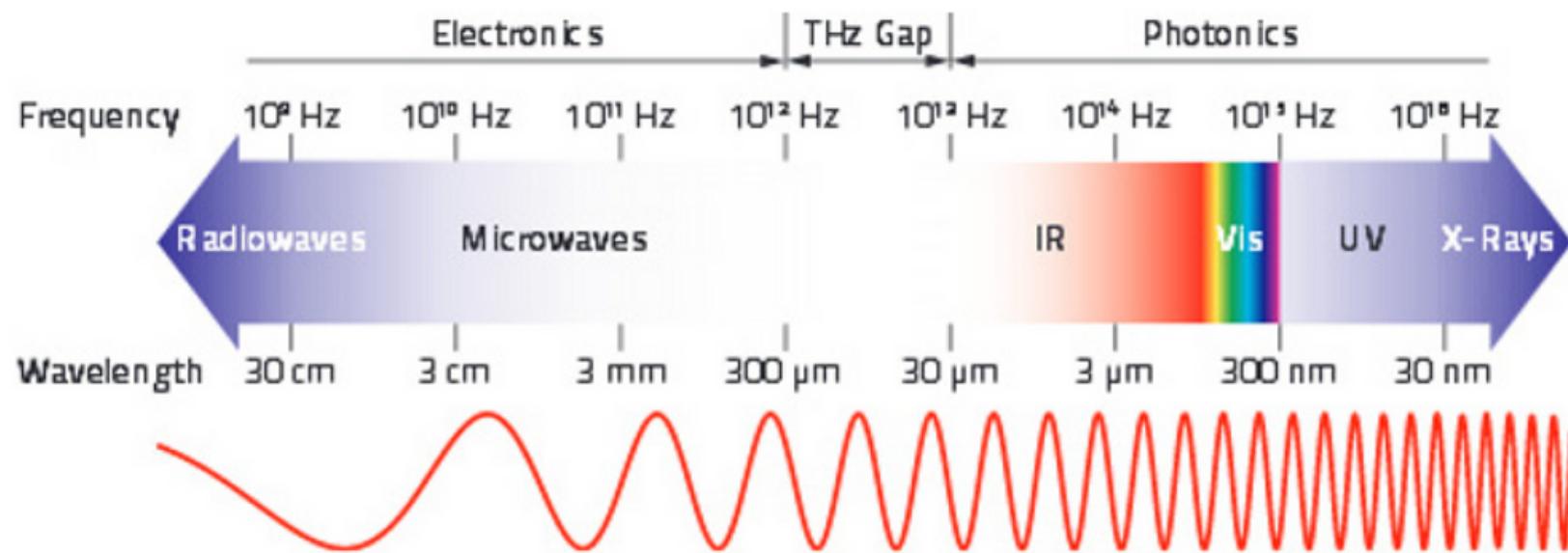




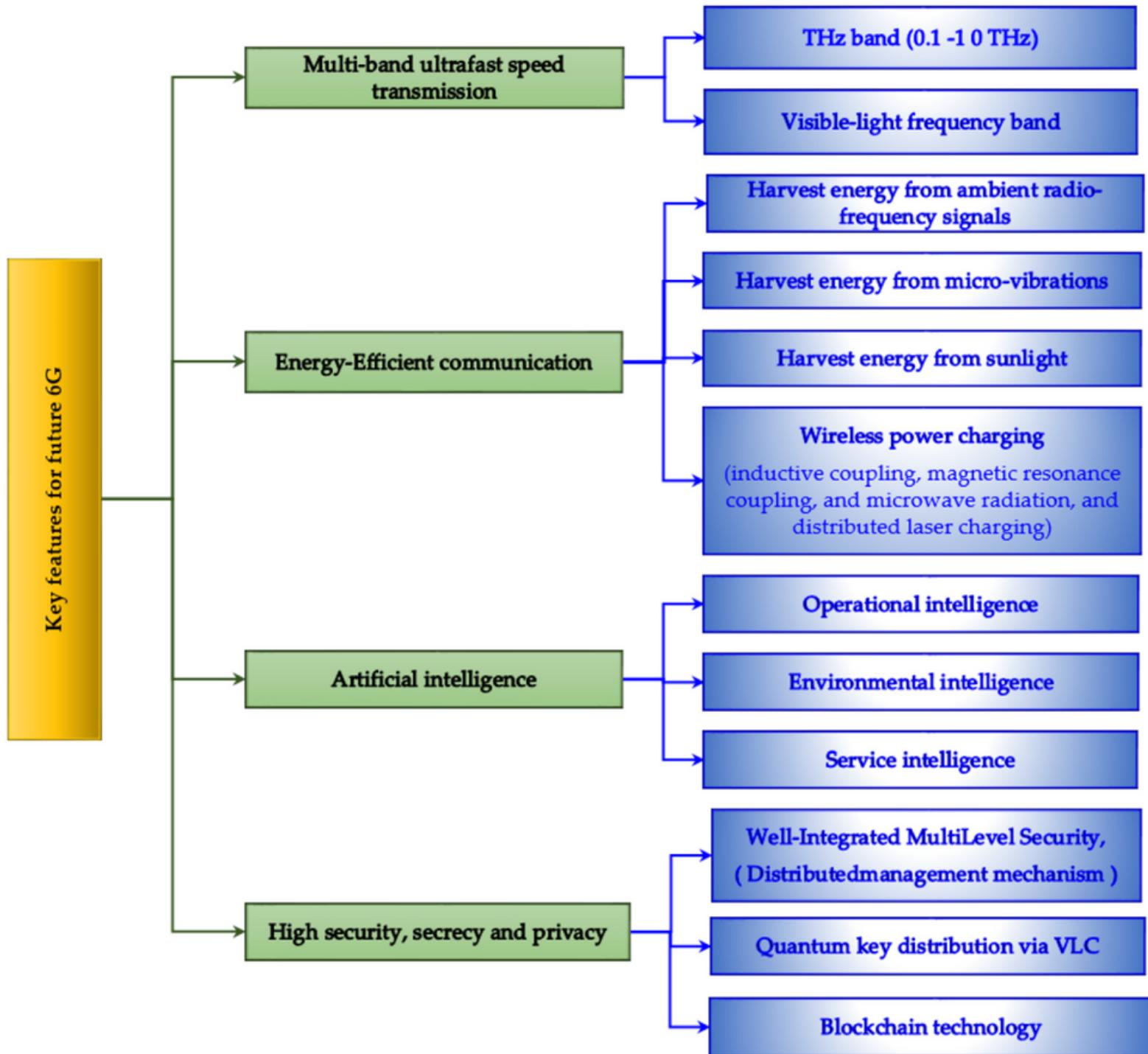




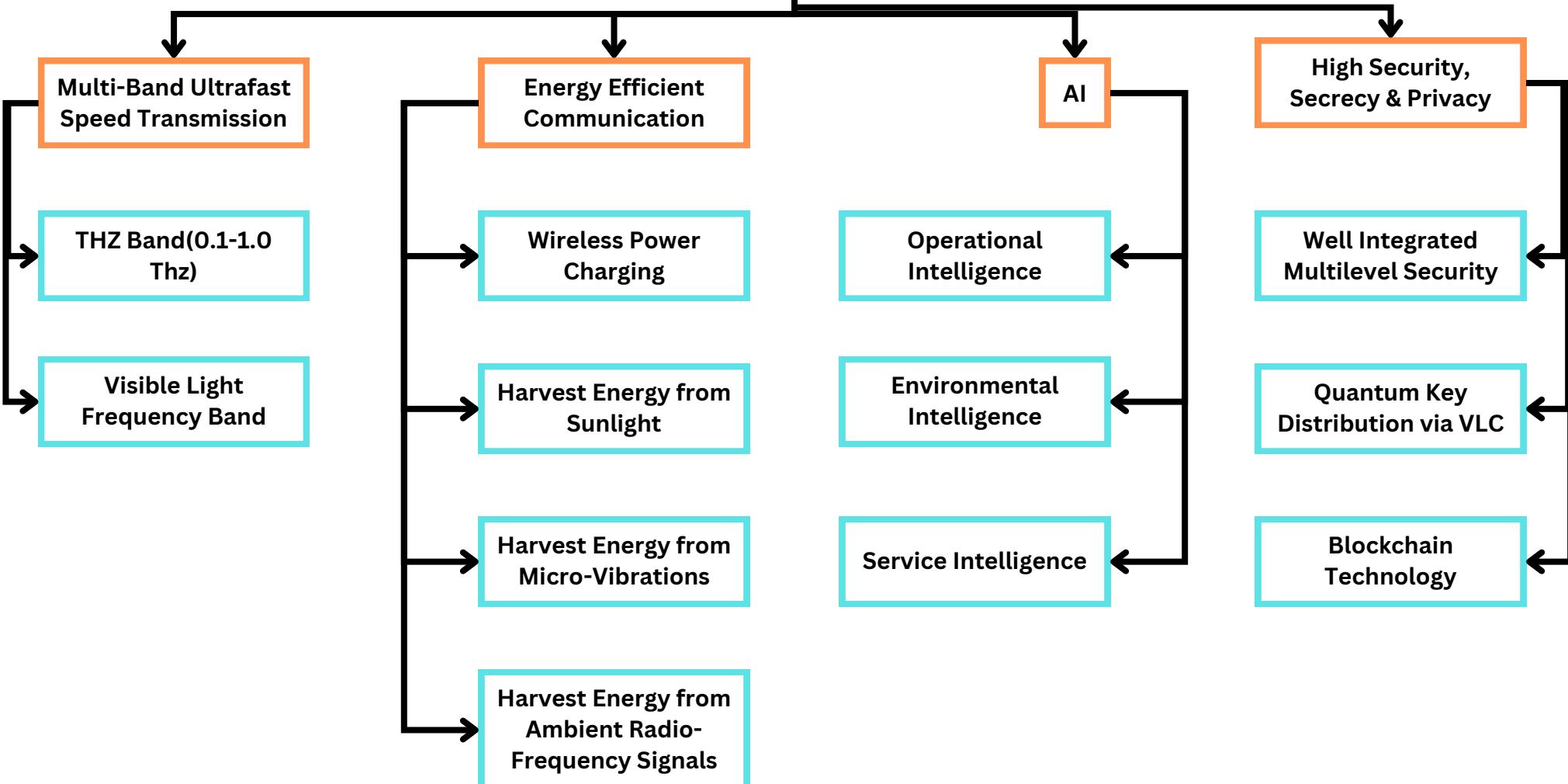


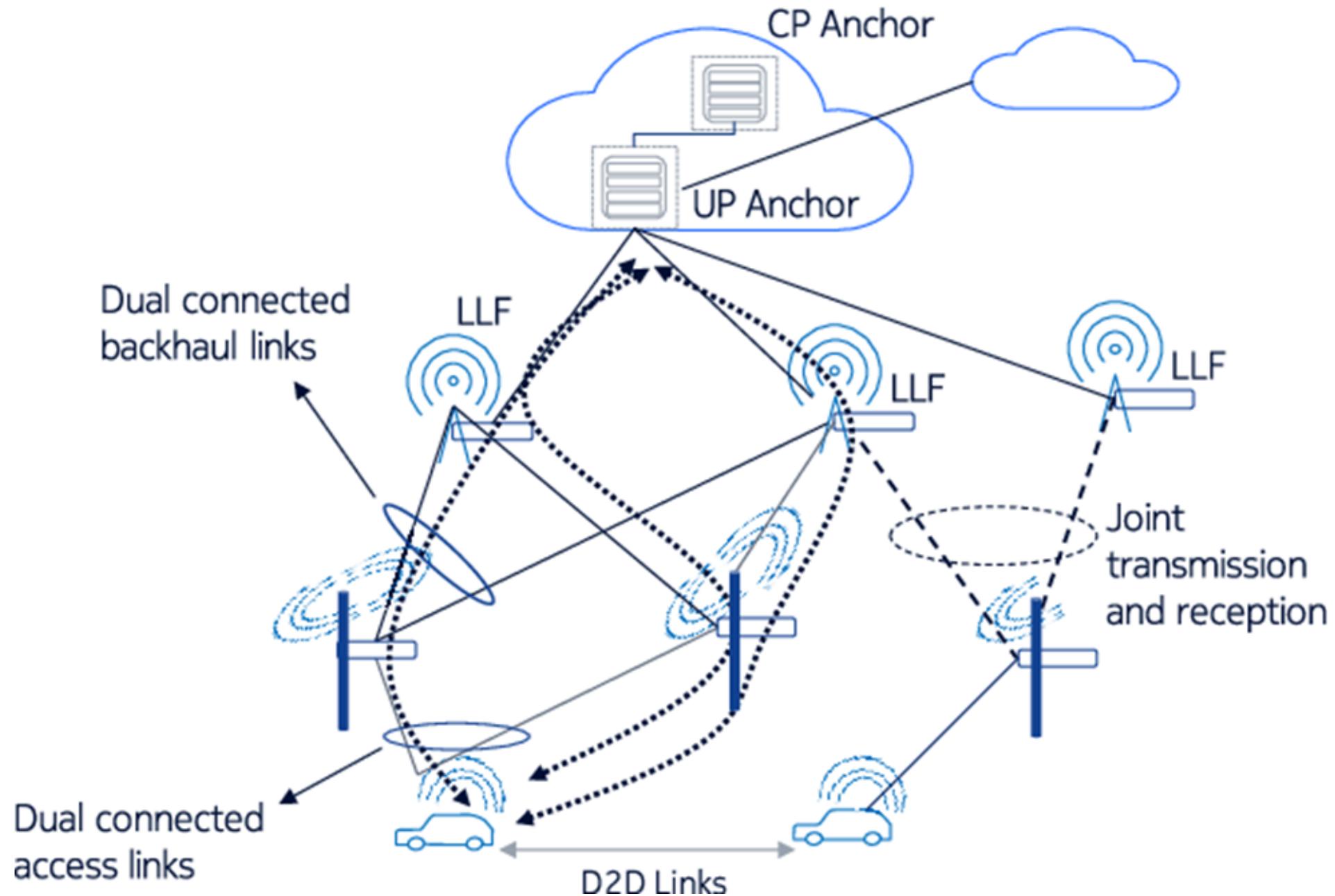


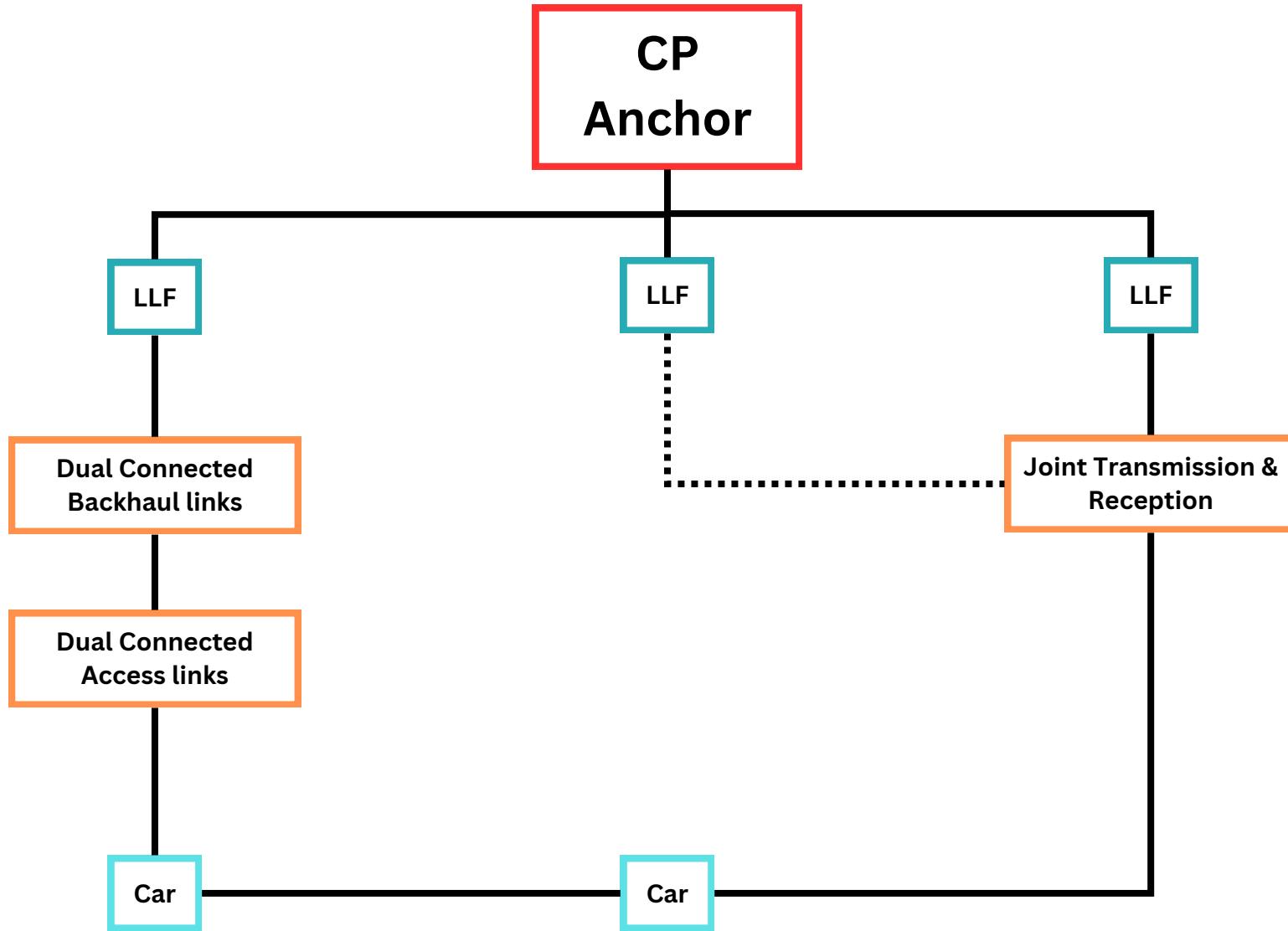
Frequency (THz)	Wavelength (μm)	Propagation mechanism	Attenuation effects	Supported link distances (m)	Approximate Bandwidth (THz)
0.3-3	1000-100		Free Space Loss	< 10	Up to 0.3
3-30	100-10	LOS, Reflection	Molecular Absorption High H ₂ O Peaks	< 1	> 1

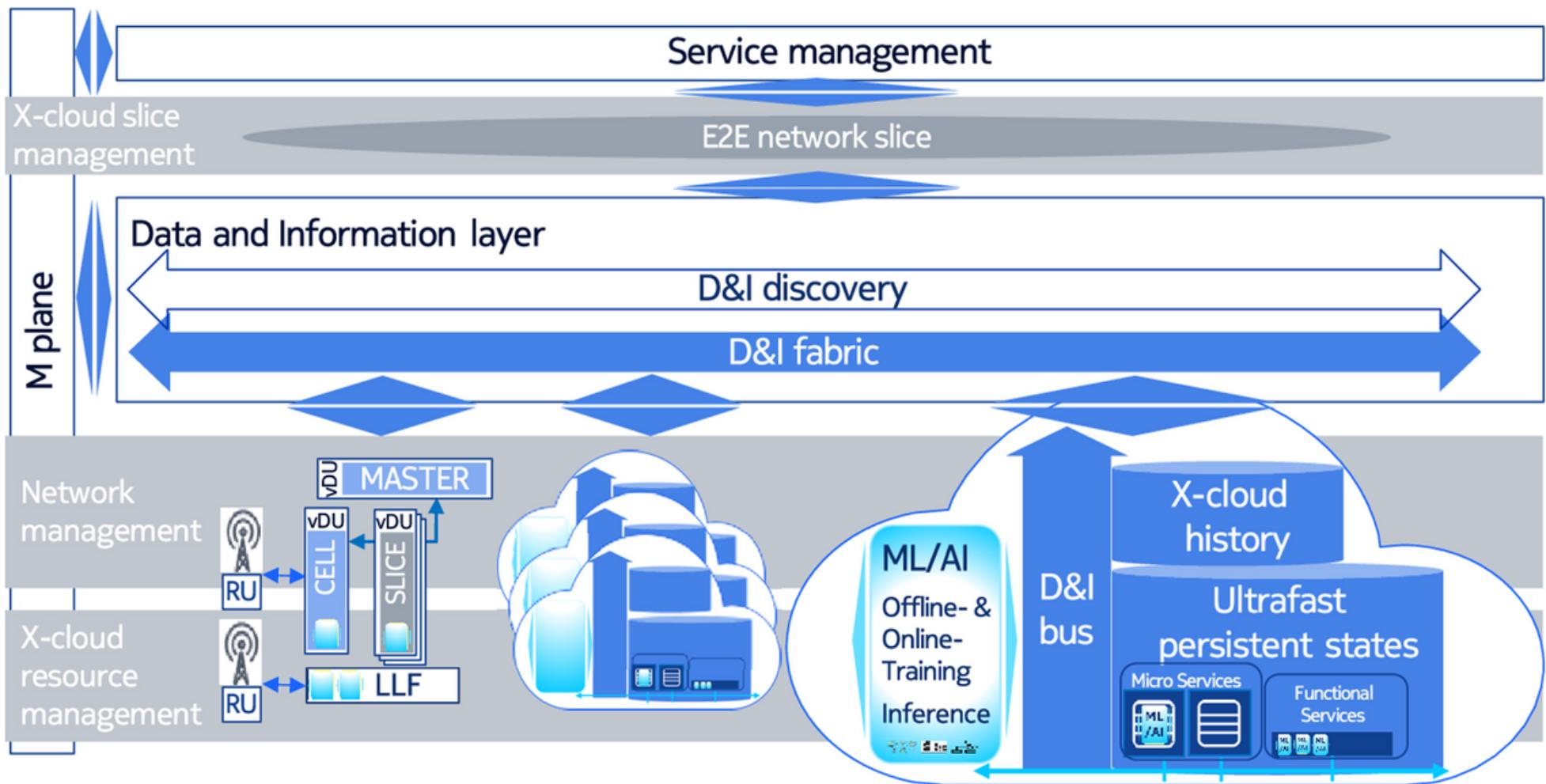


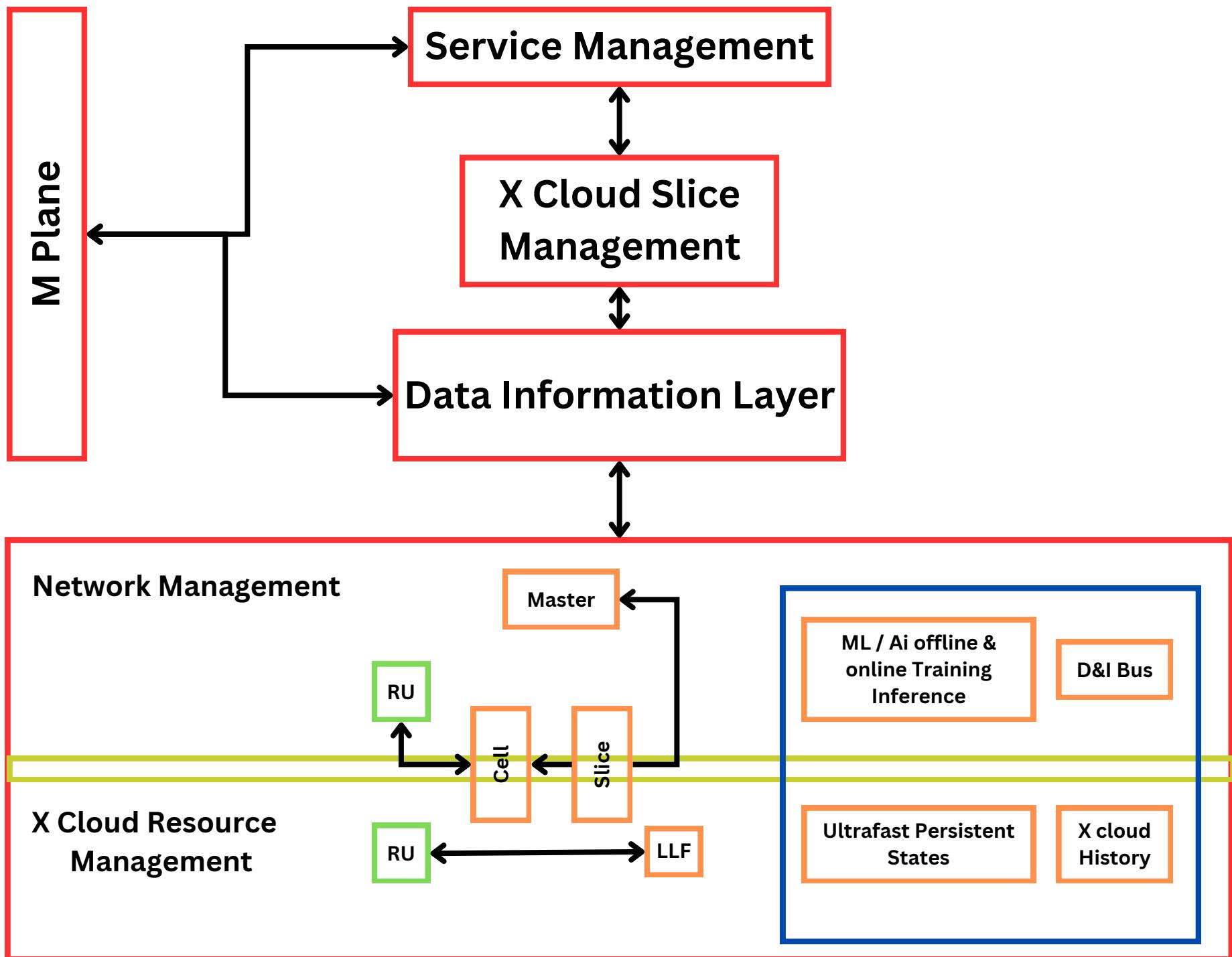
Key Features for Future 6G

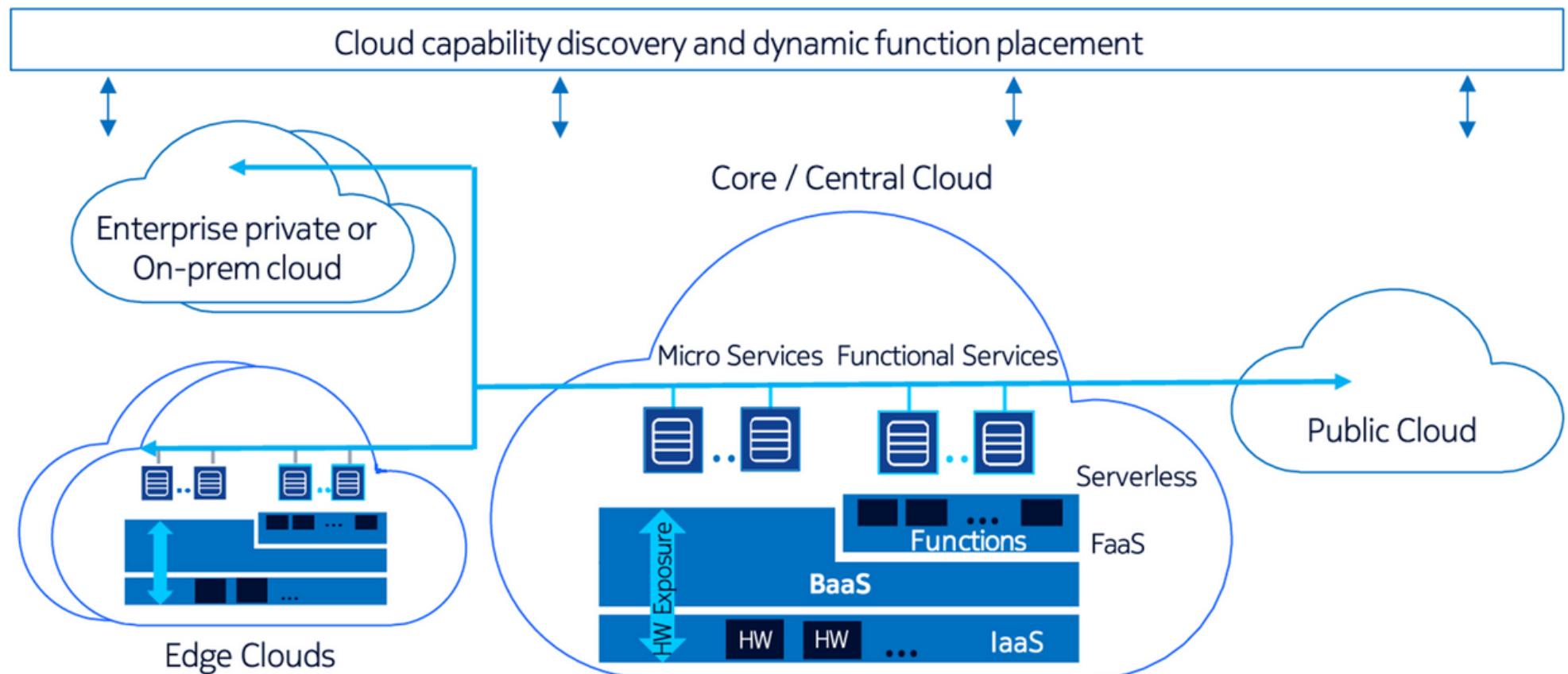




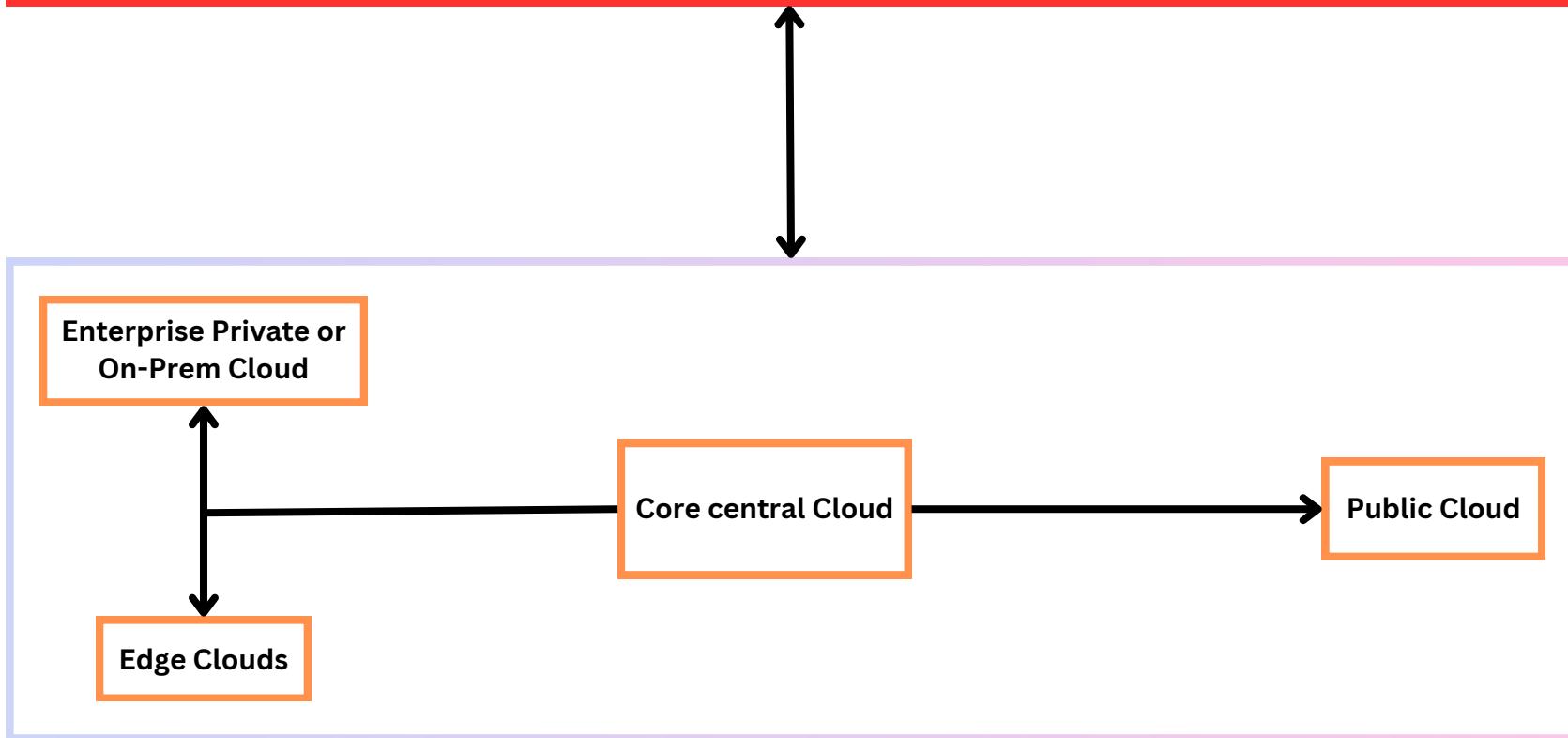








Cloud Capability Discovery & Dynamic Function Placement



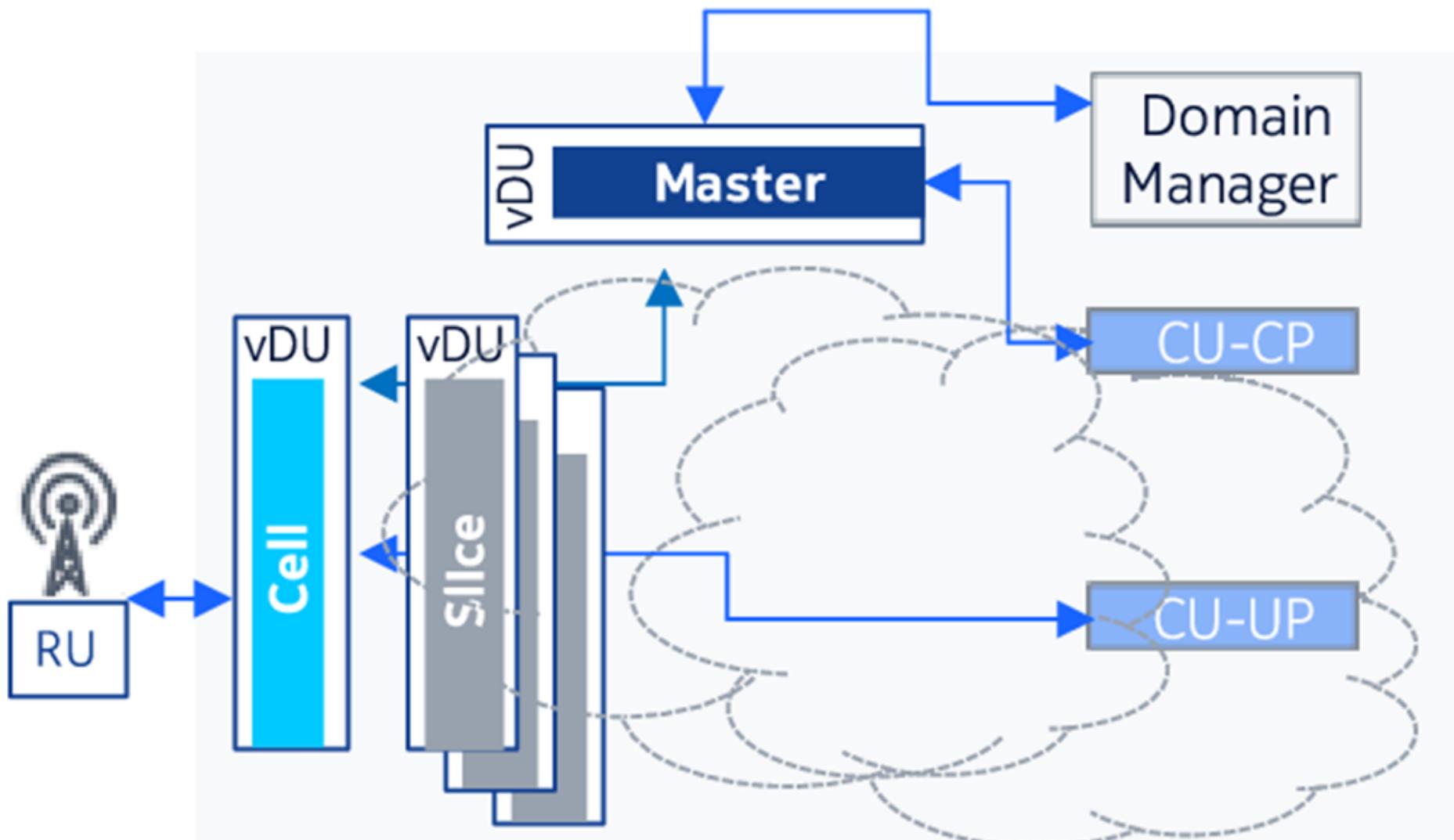
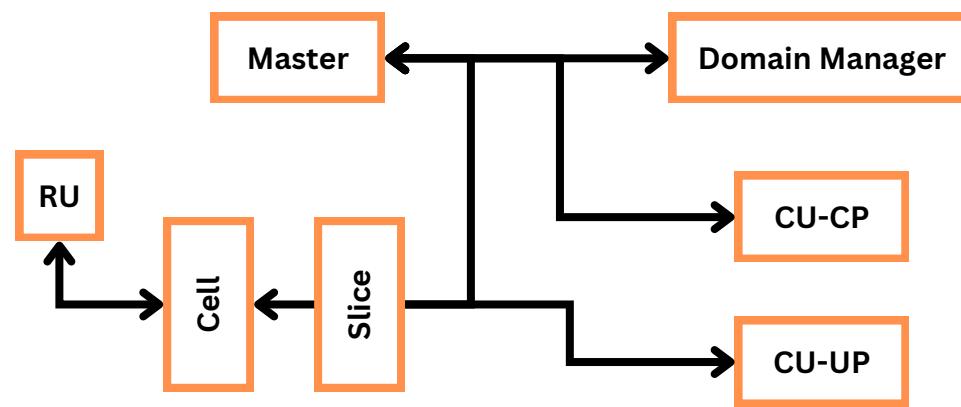
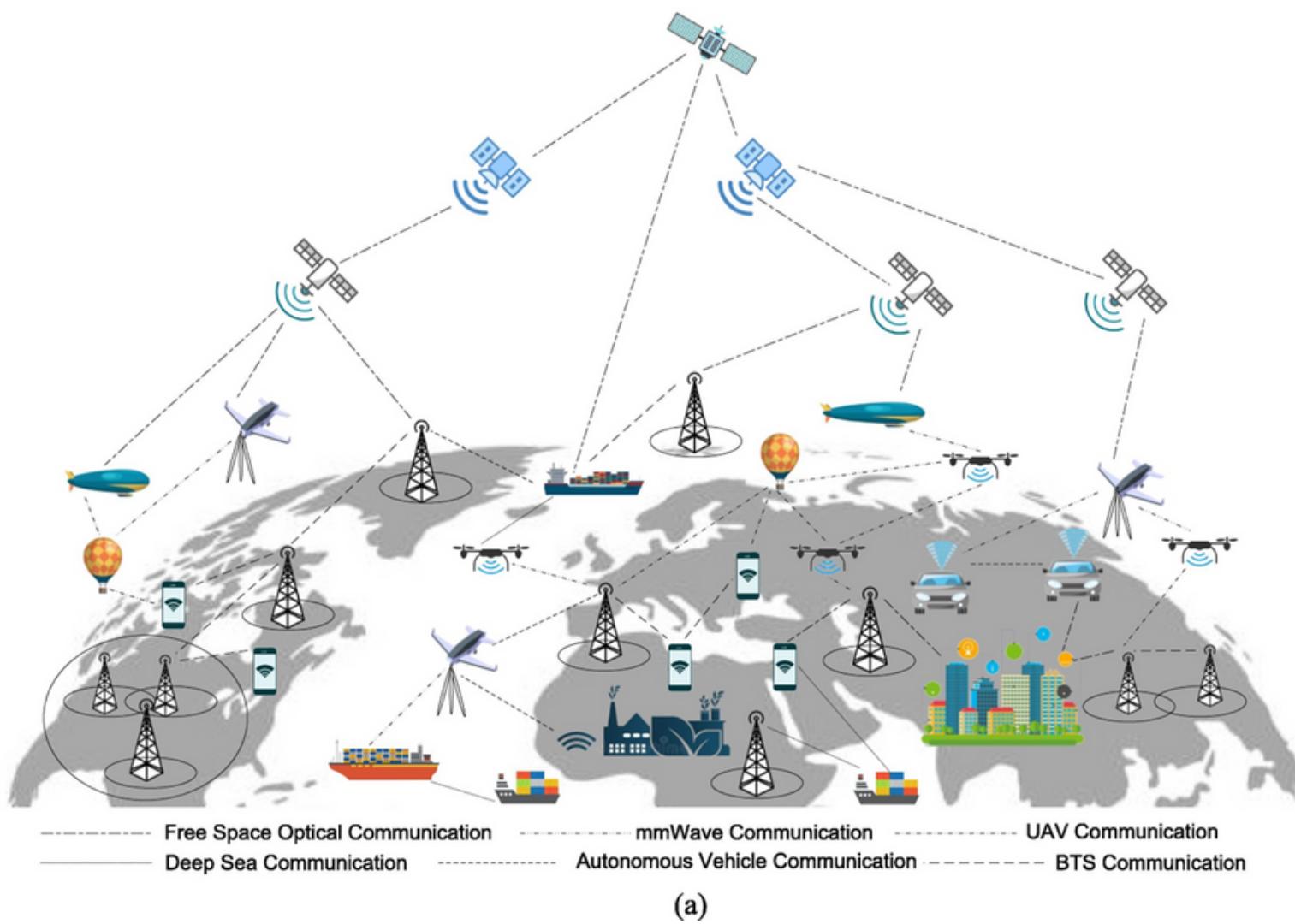
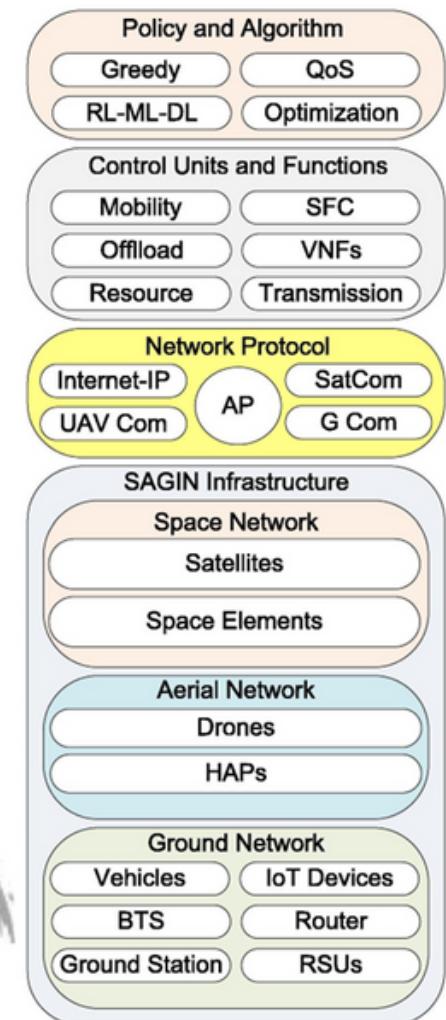


FIGURE 1 Functional architecture of a 5G network slice

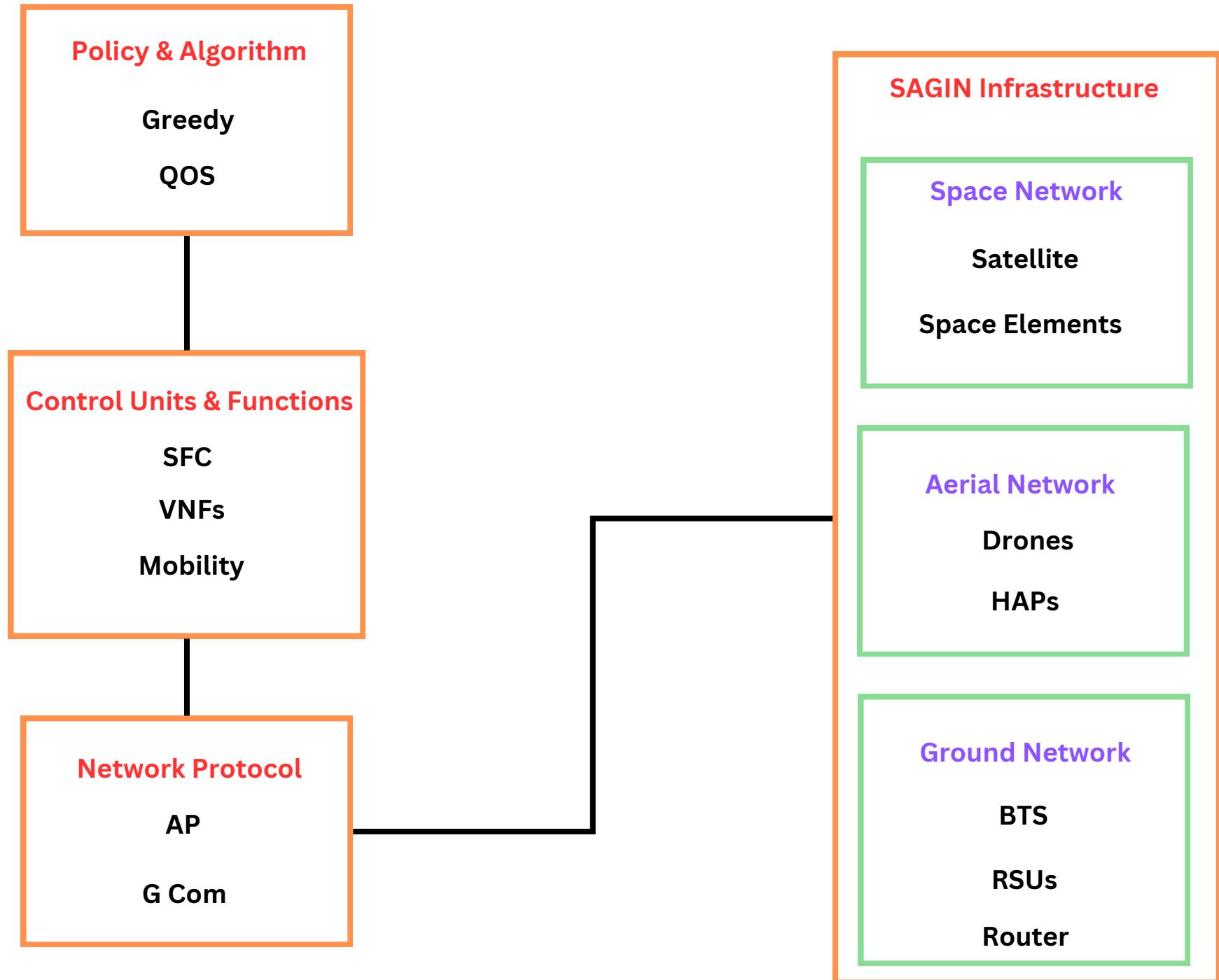


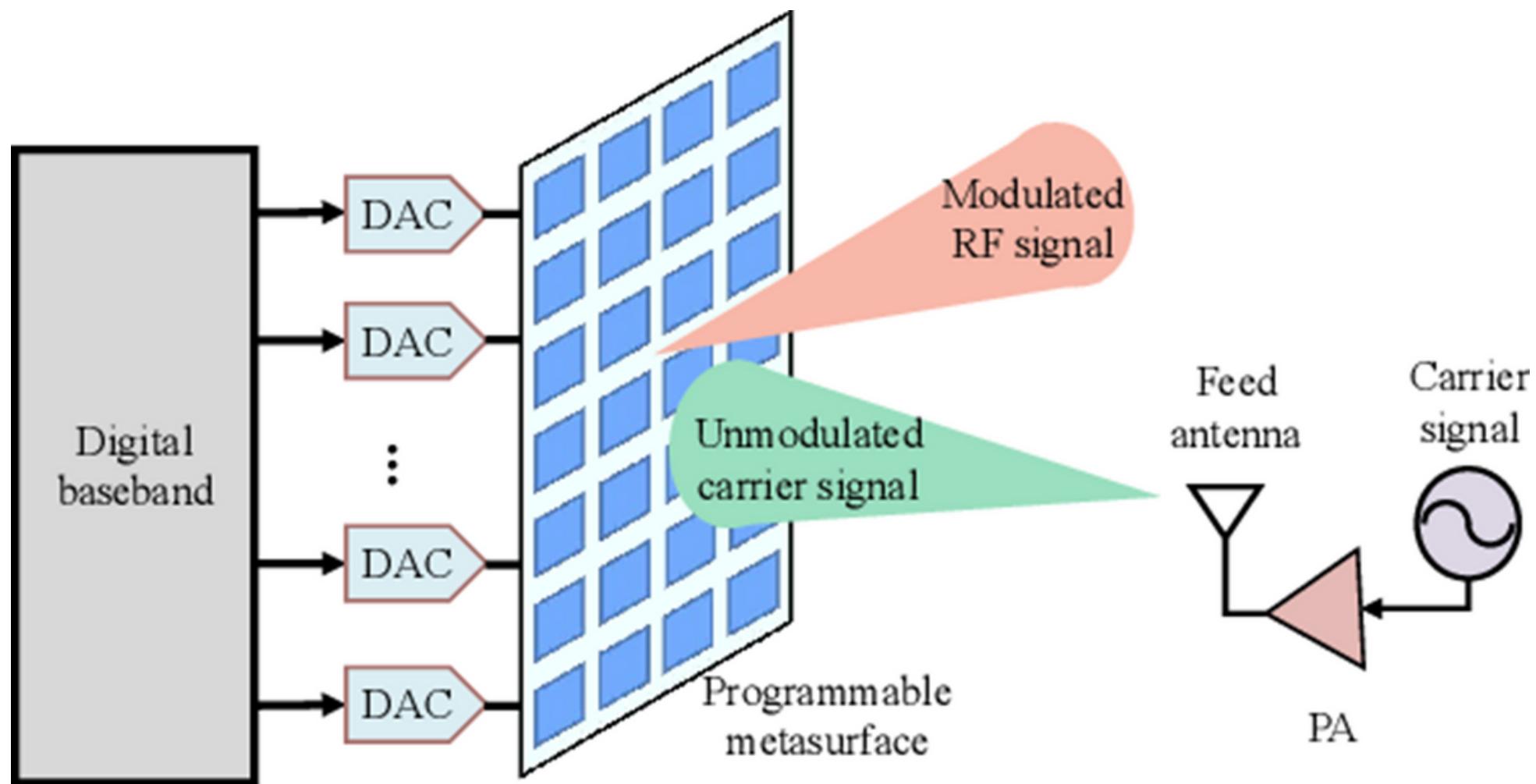


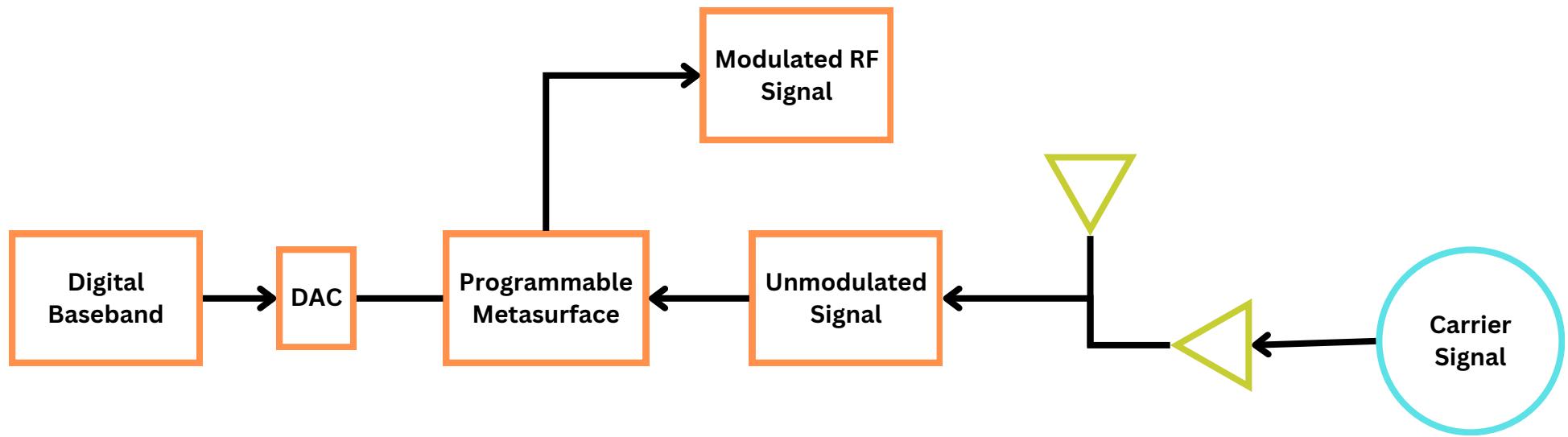
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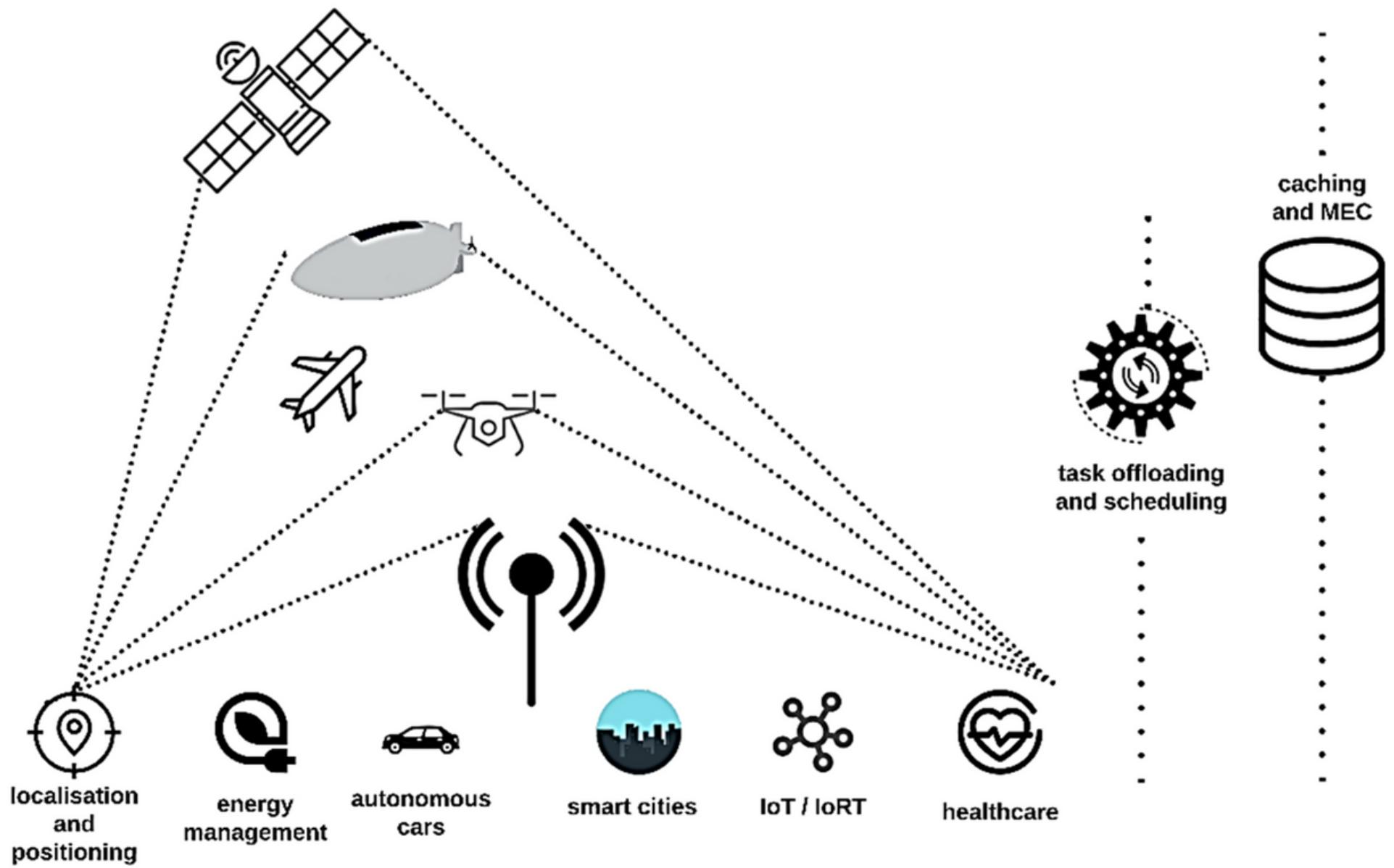


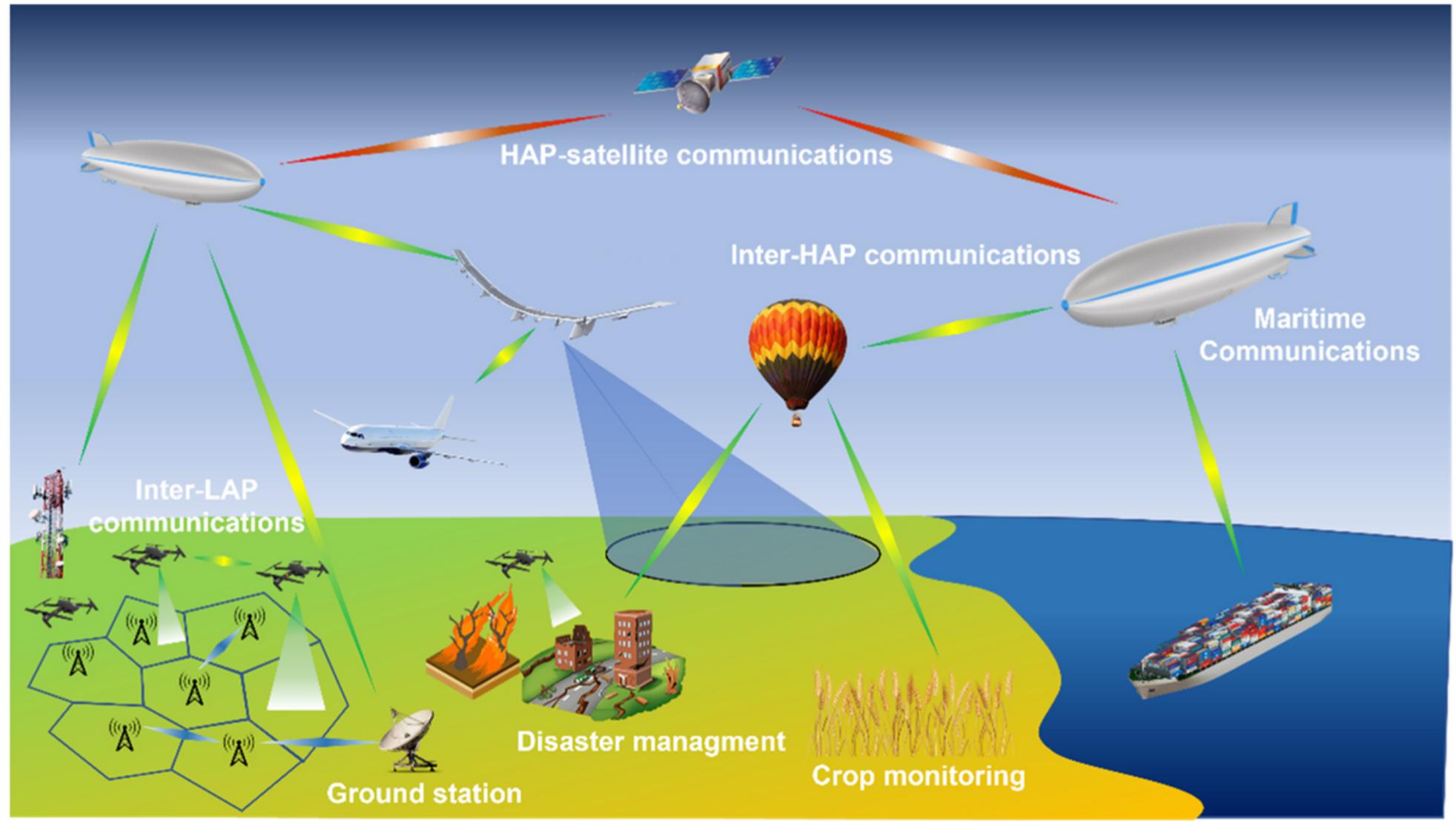
(b)











Hap Sattelite Communications

Inter Hap
Communications

Inter Hap
Communications

Inter Hap
Communications

Inter hap
Communications

Ground Stations

Crop Monitoring

Marine Time
Communications

Disaster Management

