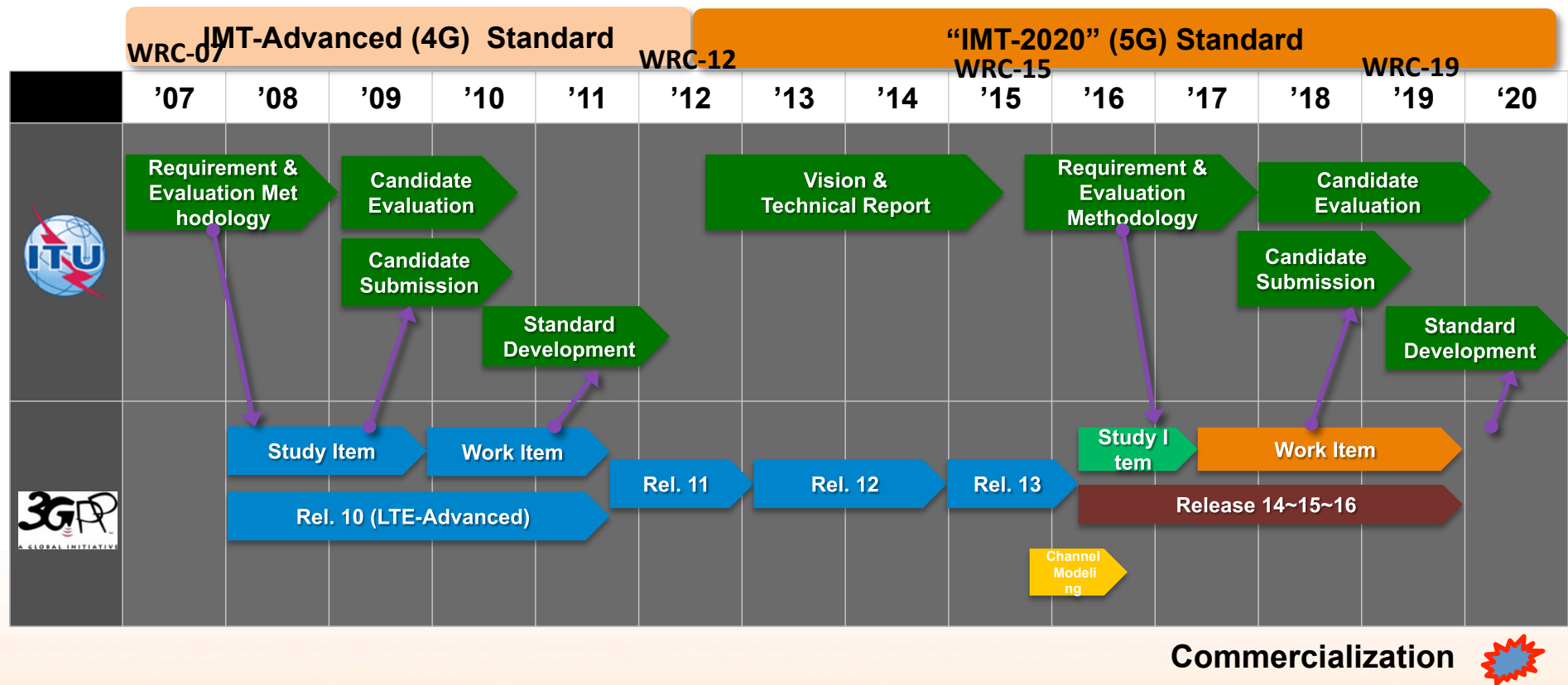




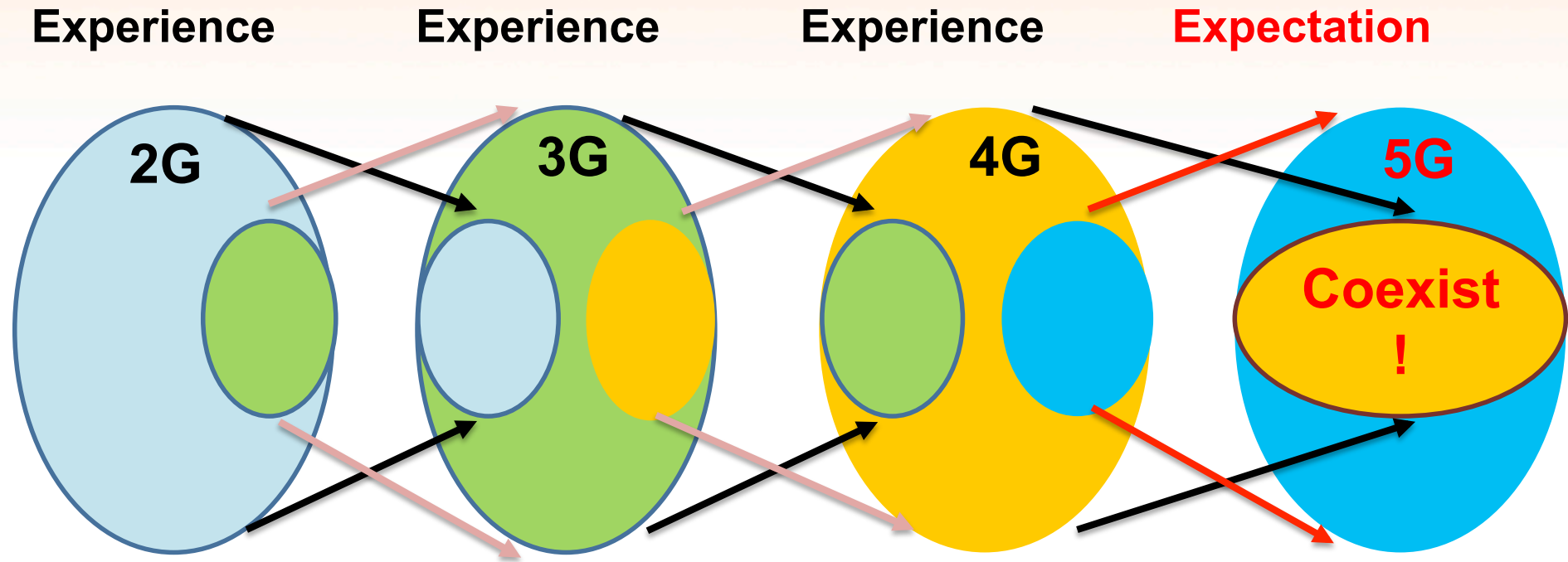
# Standard Roadmap and

## [Expectation and Proposal]

- Phased approach for 5G standards: 1<sup>st</sup> phase until Sept. 2018 and 2<sup>nd</sup> phase until Dec. 2019
- 1<sup>st</sup> phase should include potential solutions for above 6 GHz.
- Tight integration of new RAT and e-LTE for smooth migration.



# Standard Migration and Investment

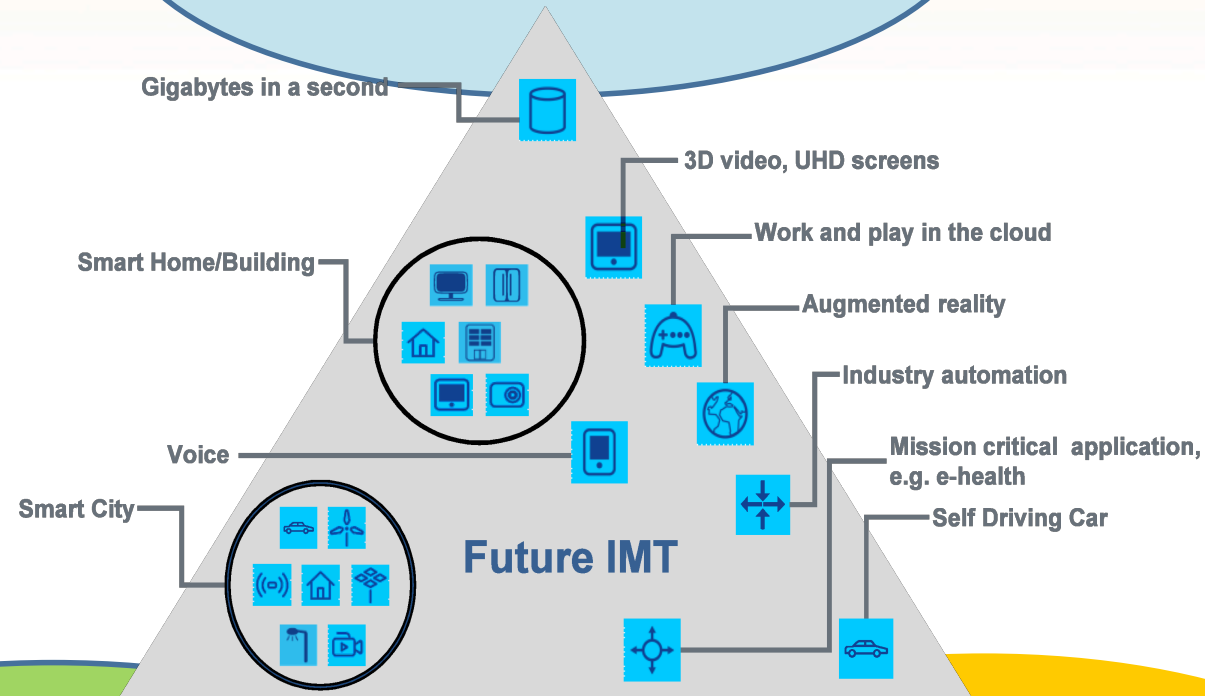


Migration to 5G might be somewhat different from past, since

- 4G is flexible for the time being
- No competing standard
- Huge investment in 4G
- Etc.

# Services in Spectrum and Infrastructure

- Higher band (Above 6GHz)
  - **Augmentation in Infrastructure**
- Enhanced Mobile Broadband



Massive Machine Type Communications

- Lower band (Below 6 GHz)
- **Upgrade in Infrastructure**

Ultra-reliable and Low Latency Communications

- Lower/Higher band (B/A 6 GHz)
- **Replacement in infrastructure**