

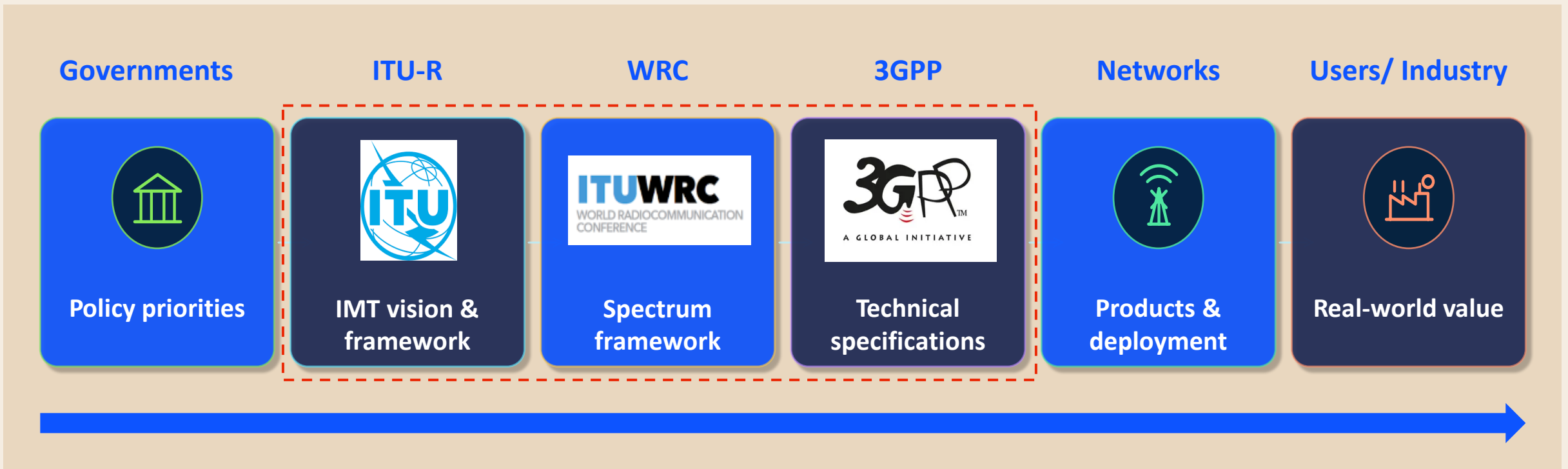


From Global Vision to Commercial Networks:

How ITU-R and 3GPP Shape IMT

Creating a global mobile ecosystem

Collaboration underpins the development of each new generation

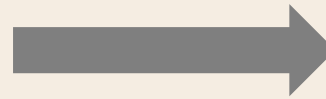


The key elements are interdependent

Aligning spectrum decisions with technical standards creates ecosystems



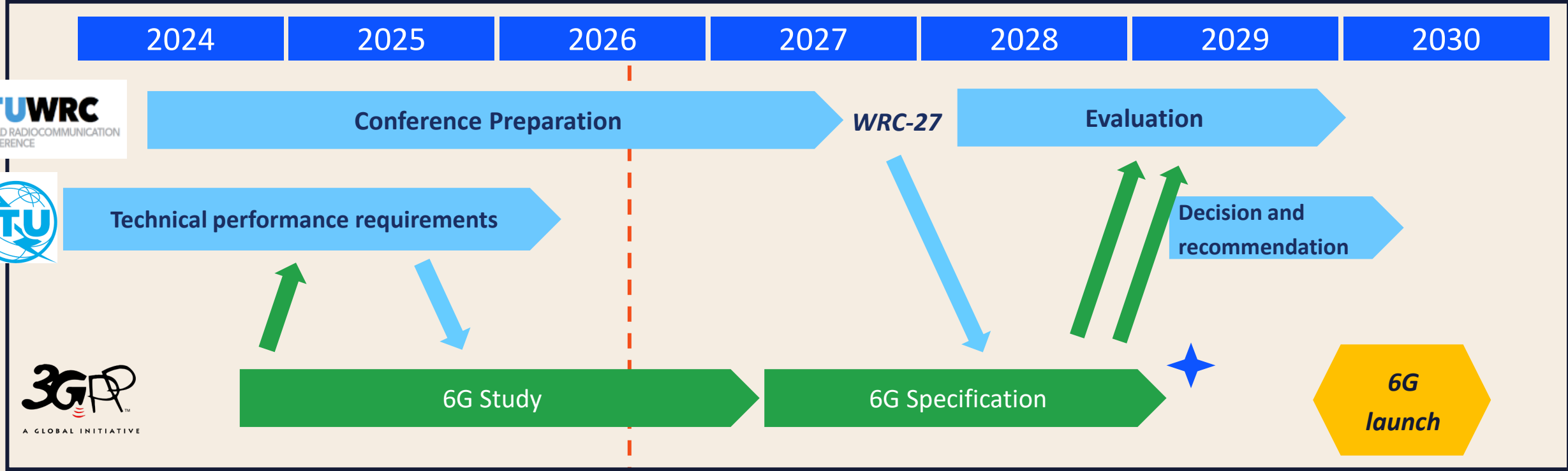
*Competitive
vendors*



Global collaboration on 6G is advancing right now



The decisions that shape 6G are being made today – it’s critical Australia’s needs are represented.



Australian operating environments are different

Our 3GPP focus: To produce a standard that includes Australian priorities



6G: Performant. Resilient. Ubiquitous.

Secure

- Meeting capacity needs
- Future architecture (RAN, Core)
- Future IoT
- New services

5G: Non-terrestrial networks

- Global front-runner
- Building an ecosystem

Improved Voice/emergency calling

- Consistent ecosystem behaviour



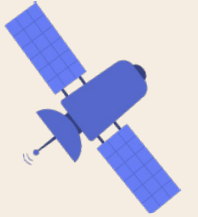
Global developments shaping radiocommunications

Our 3GPP focus: Terrestrial capacity expansion to ubiquitous connectivity



Upper 6 GHz/lower 7GHz:
The next capacity layer

Satellite-to-Mobile:
Mobile Networks to Anywhere



Launch band for 6G

3GPP NR NTN standard direct-to-device
connectivity

Demonstrated site re-use

More efficient use of scarce satellite
spectrum

A Practical Path to 6G Growth

A foundation for ubiquitous coverage



6G: an intelligent, resilient and spectrum-flexible network platform.



6G Radio delivering increased spectral efficiency

Greater channel bandwidths in upper 6GHz, massive MIMO, uplink improvements

**Multi-Radio Spectrum
Sharing**

Standalone 6G architecture

AI-native RAN

**Integrated Sensing and
Communication**

**Terrestrial and satellite
convergence**

6G-native IoT

6G network platform



Thank you