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Moving to 'NextG'

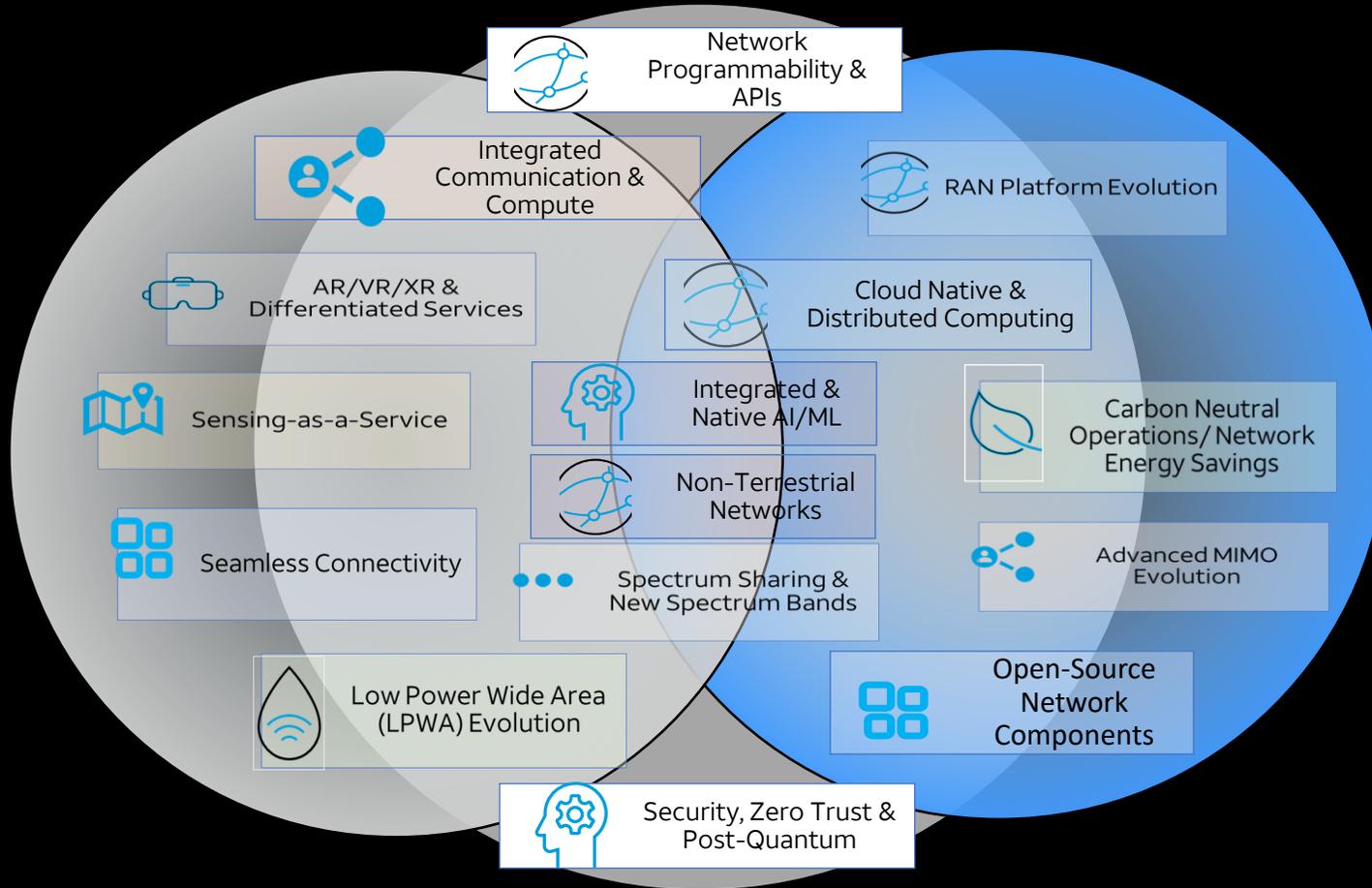
Release 20 and Beyond

- Realistic expectations should be developed by the industry for 6G uses, goals and timelines
- Prefer one 'big' umbrella SID that allows diverse sets or building blocks of use cases
- Low bar for introducing new use cases to have an effective “brainstorming phase” that can help to develop some common understandings of high-level design principles
- Focus on continuous evolution building on, and extending, the 5G ecosystem with use cases that emphasize “what cannot be done with the previous generation”
- When considering use cases, a basic principle is 6G must not inherently trigger a hardware refresh of 5G RAN infrastructure
- Smooth migration from earlier generations
- Mission Critical/Public Safety & Security aspects shall be considered from the start
- Emphasize Network simplification leading to lower operational costs, scalability and flexible deployment models
- Modular Network Functions that recognize the trend for disaggregation and an open, interoperable cloud native architecture with open APIs
- AI/ML-centric approach with integrated and native Intelligence built into the Network and align AI/ML with other ecosystem players

6G: Evolution or Revolution?

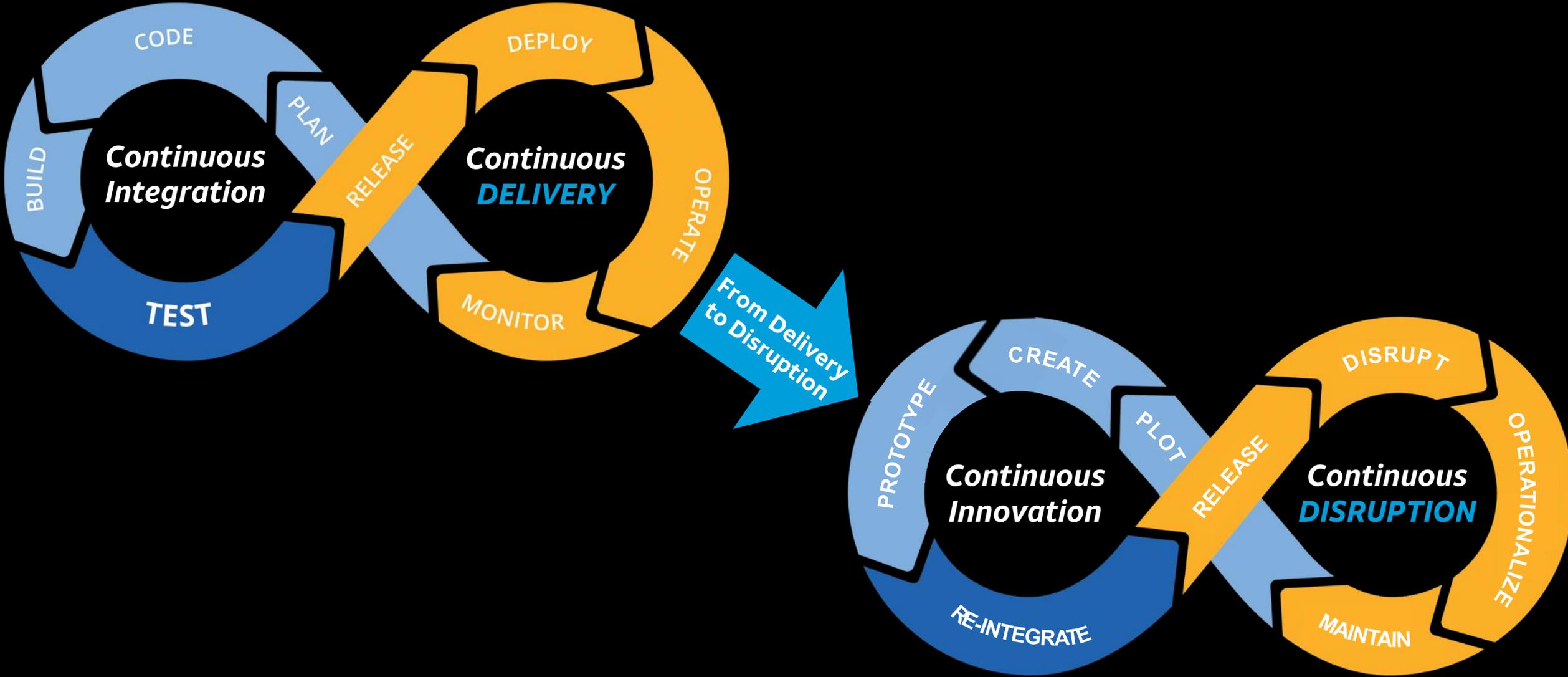
 **Top Line Growth**

Bottom Line Cost Saving 

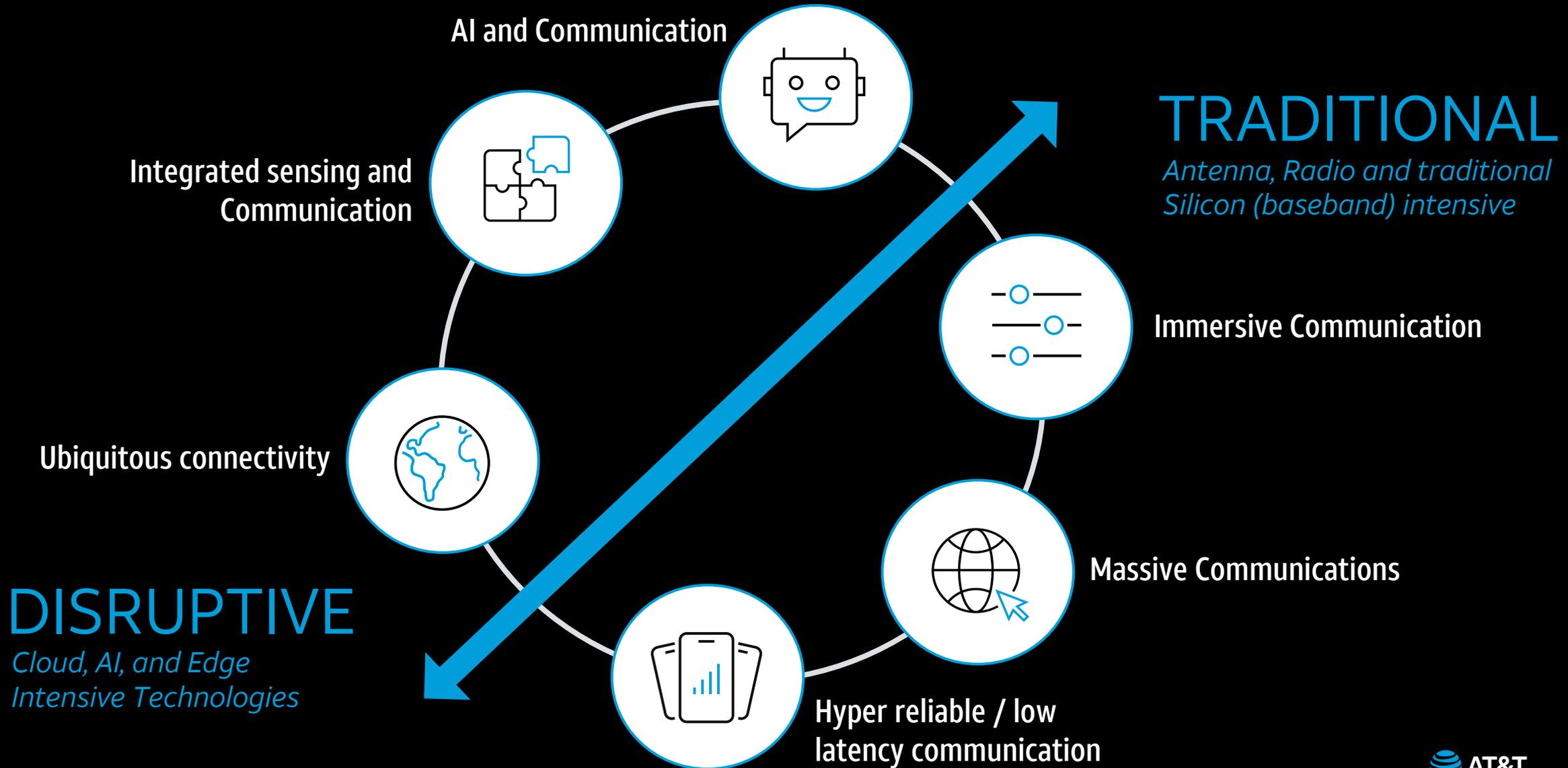


 **Technology Evolution**

Transitioning to a new 'CICD' model



Evolution to Usage Tomorrow



Importance of Low Power Wide Area Cellular IoT

- 3GPP introduced eMTC and NB-IoT very late in the 4G life cycle and never specified a 5G NR based technology for LPWA cellular IoT
- Unlike smartphones LPWA cellular IoT design-ins can span 10, 15, or even 20 years and outlive the cadence of a “G”
- Absent a 5G NR based solution the longevity of eMTC/NB-IoT impacts strategic planning of LTE maintenance and sunset

➔ LPWA cellular IoT solutions for beyond 2030 significantly impact business decisions TODAY

- 6G LPWA cellular IoT must-haves include
 - Single global solution
 - Long-term visibility early in the 6G life cycle
 - Solutions that can live through technology generations
- The usual: enhanced accessibility, higher connections density, lower latency, higher throughput ...  AT&T

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