IEEE Future Networks Initiative

Collaboration

IEEE ComSoc — IEEE Communications Society
IEEE Photonics Society
IEEE Computer Society
IEEE SA
VTS — Connecting the Mobile World
MTT-S

20+ IEEE societies

Content

IEEE Future Networks Tech Focus
Issue 11, November 2020

technical newsletter, podcasts, videos, articles

Events

IEEE 5G WORLD FORUM

+ vertical/topical workshops, standards forums

Research & Education

INGR — International Network Generations Roadmap

+ eLearning, webinar series, white papers, tutorials,

International Network Generations Roadmap

- The INGR is a semi-annual technical document highlighting network technology evolutions over 3-, 5- and 10-year horizons.

- Created by a group of 100+ international IEEE experts from industry, academia and prominent research labs, organized across 15 distinct working groups.

- Every 12-18 months, INGR will release a new multi-chapter document.

- Next edition coming in a matter of weeks!

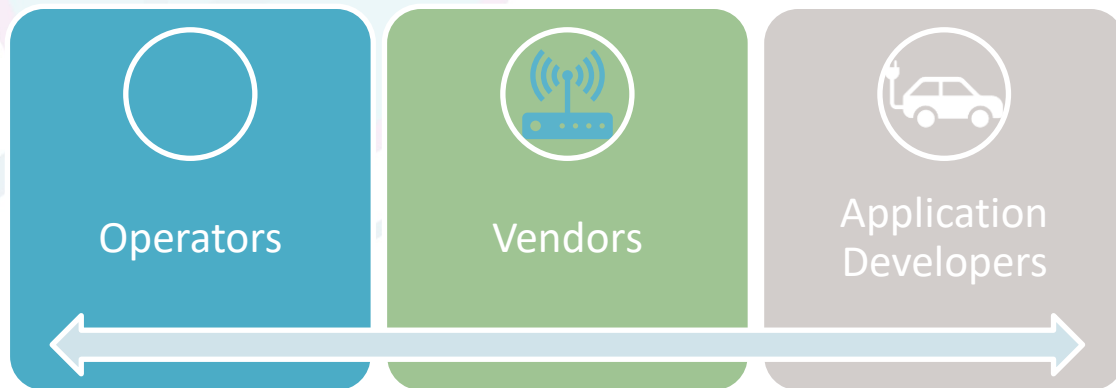- **FutureNetworks.ieee.org/roadmap**

◆IEEE

International Network Generations Roadmap

Executive Summary

An IEEE 5G and Beyond Technolgy Roadmap
futurenetworks.ieee.org/roadmap

IEEE INGR Structure and Working Groups

CATEGORY	DESCRIPTION	INGR WORKING GROUP CHAPTERS
Access	Describes how the users are able to reach the network	• Massive MIMO • mmWave and Signal Processing • Hardware • Energy Efficiency
Networks	Describes how the networks are interconnected	• Edge Automation Platform • Satellites • Optics
System and Standards	Describes system standards and testability	• Standardization Building Blocks • Testbed • System Optimization
Enablers and Users	Represents all the elements that enable deployment, assure functionality and security and address impact on society and environment	• Deployment • Applications and Services • Security and Privacy • Artificial Intelligence and Machine Learning (AI/ML) • Connecting the Unconnected (CTU)

Visit our website: https://futurenetworks.ieee.org/roadmap

The Future Networks Industry Consortium

The IEEE Future Networks Industry Consortium (FNIC) will bring together industry participants across the broad range of 5G/6G technologies to enable win-win collaboration opportunities and contribute to the roadmap for future technological direction.

Operators

Vendors

Application Developers

Thank you

Questions for us?

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FutureNetworks.ieee.org