

**International Network Generations Roadmap** 

# 2020 IEEE Future Networks Winter Session

Narendra Mangra, GlobeNet, LLC IEEE INGR and Applications & Services WG Co-Chair February 8, 2020



# Agenda

- IEEE Future Networks Initiative and IEEE INGR
- IEEE INGR First Edition Highlights
  - New and Existing WGs
- IEEE Second Edition and Working Groups





# **IEEE Future Networks**





#### **2020 Future Directions Coverage**











IEEE Roadmaps Committee (IRC)

ieee.org/futuredirections

#### **Graduated Initiatives**































#### **IEEE Societies**





























**Packaging Society** 

IEEE STANDARDS ASSOCIATION

**IEEE EDUCATIONAL ACTIVITIES** 

#### **Initiative Profile**

- Launched August 2016
- Technical Activities Board Funded
- 20+ Participating Societies/OUs

#### Government, Academia,





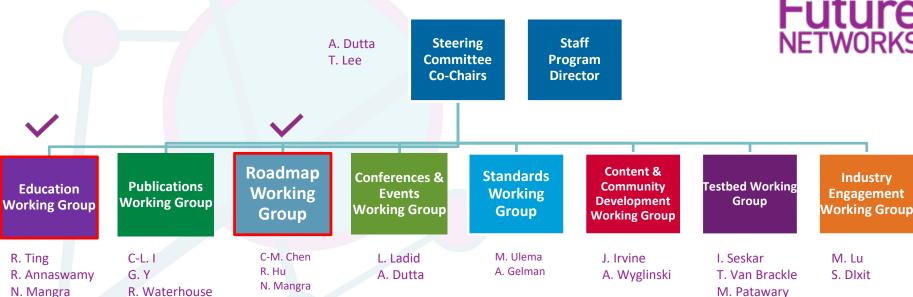






## **IEEE Future Networks Initiative Organization Structure**











#### **2020 IEEE Future Networks Winter Session Topics**

5G Technology Overview and Architecture, Dr. Srini Gottumukkala, OpusNet

IEEE Future Networks International Network Generations Roadmap (INGR), Narendra Mangra, GlobeNet LLC

**Evolution of Optical and Transport Technologies for 5G Xhaul Network**, Dr. Reza Vaez-Ghami, Viavi

IEEE Future Networks Applications and Services Roadmap (Smart Cities Ecosystems), Narendra Mangra, GlobeNet LLC

(Demo) Microcontroller Radar Stations Utilizing Software Defined Radio (SDR), Keenan Leatham, UDC





## **Acknowledgements**

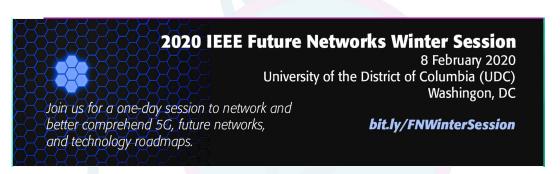
- COMSOC Baltimore
- ► SPS NOVA
- PES
- RAS
- Sensors Council
- GWU Student Branch
- UDC Student Branch

Special Thanks to the University of the District of Columbia (UDC) for hosting this event!





## Presentation Slides will be posted on IEEE FNI Website







- IEEE INGR https://futurenetworks.ieee.org/roadmap
- 2020 IEEE FNI Educational Sessions (includes slides from previous session)https://futurenetworks.ieee.org/education/ieee5g-summer-school
  - INGR Webinar Available on Demand





