International Network Generations Roadmap
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)

Graduated Initiatives

IEEE ROADMAPS
IEEE Big Data
IEEE Smart Cities
IEEE Cloud Computing
IEEE IEEE Software Defined Networks
IEEE Cyber Security
IEEE Internet of Things
IEEE Rebooting Computing
IEEE Transport Electrification Community
IEEE Sustainable ICT
IEEE Lifesciences
IEEE International Network Generations Roundtable

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

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

Visit our website: https://futurenetworks.ieee.org/roadmap
IEEE Future Networks Initiative Organization Structure

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<table>
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<tr>
<th>Topic</th>
<th>Speaker/Institution</th>
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<tr>
<td>5G Technology Overview and Architecture</td>
<td>Dr. Srini Gottumukkala, OpusNet</td>
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<td>IEEE Future Networks International Network Generations Roadmap (INGR)</td>
<td>Narendra Mangra, GlobeNet LLC</td>
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<td>Evolution of Optical and Transport Technologies for 5G Xhaul Network</td>
<td>Dr. Reza Vaez-Ghami, Viavi</td>
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<td>IEEE Future Networks Applications and Services Roadmap (Smart Cities Ecosystems)</td>
<td>Narendra Mangra, GlobeNet LLC</td>
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<td>(Demo) Microcontroller Radar Stations Utilizing Software Defined Radio (SDR)</td>
<td>Keenan Leatham, UDC</td>
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Acknowledgements

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- PES
- RAS
- Sensors Council
- GWU Student Branch
- UDC Student Branch

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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/ieee-5g-summer-school
  - INGR Webinar Available on Demand