



# Asia 6G Research Initiative Open Workshop













The Korean Institute of

Communications and Information Sciences

> **Auditorium of KICS building** 32-3, Nonhyeon-ro 38-gil, Gangnam-gu, Seoul



## **Agenda**

	Time	Title	Speaker
	2:00 ~ 2:30pm	Welcome Address + MOU Ceremony	
	Session 1		
	2:30 ~ 3:00pm	Introduction of Beyond 5G Promotion in Japan	Mr. Takashi Nakamura, NTT DoCoMo, Japan
	3:00 ~ 3:30pm	Towards Performance Guaranteed Networking for 6G	Prof. Kyunghan Lee, SNU, Korea
	3:30 ~ 4:00pm	Introduction of 6G Research Program in Taiwan	Prof. Tzong-Lin Wu, NTU, Taiwan
	4:00 ~ 4:15pm	Break	
	Session 2		
	4:15 ~ 4:45pm	Future Communications R&D Programme in Singapore	Prof. Tony Quek, SUTD, Singapore
	4:45 ~ 5:15pm	Towards 6G Hyper-Connectivity: Integrated Terrestrial and Non-Terrestrial Networks	Prof. Byungju Lee, INU, Korea

**Abstracts** 

5:15 ~ 5:30pm

**Closing Remarks** 



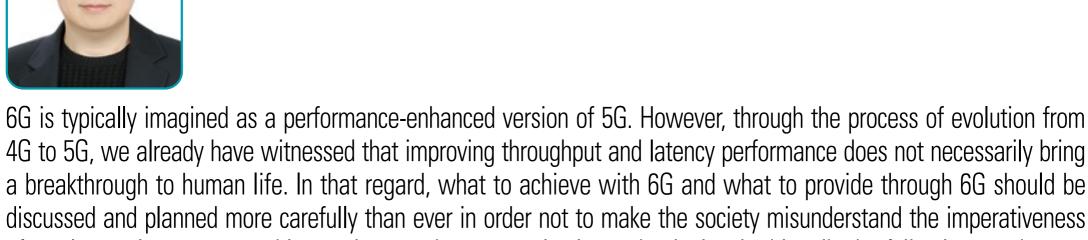
**Introduction of Beyond 5G Promotion in Japan** 

Mr. Takashi Nakamura, NTT DoCoMo, Japan

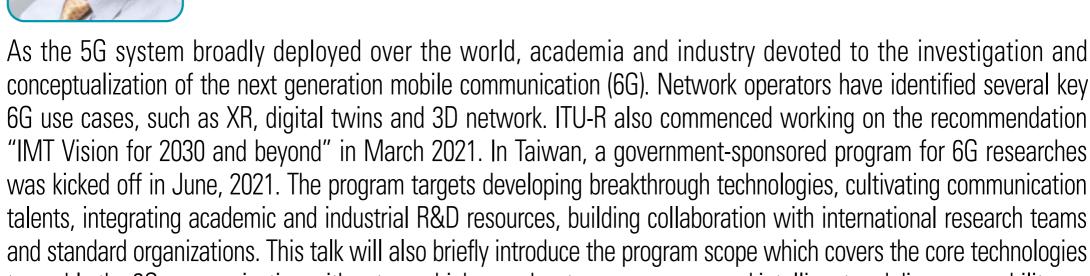
- Holding an international conference for international cooperation - Discussing among industry-academia-government stakeholders to create the vision for Beyond 5G, etc.
- The Consortium is structured by two committees; Committee for Planning and Strategy and International Committee. Under

Prof. Kyunghan Lee, SNU, Korea

the Committee for Planning and Strategy, White Paper Sub-committee was established. The White Paper Sub-committee developed and published the White Paper in March 2022, capturing vision of beyond 5G based on views of variety of industries, KPI & requirements and technology trends. In this talk, overviews on the White Paper will be explained. **Towards Performance Guaranteed Networking for 6G** 

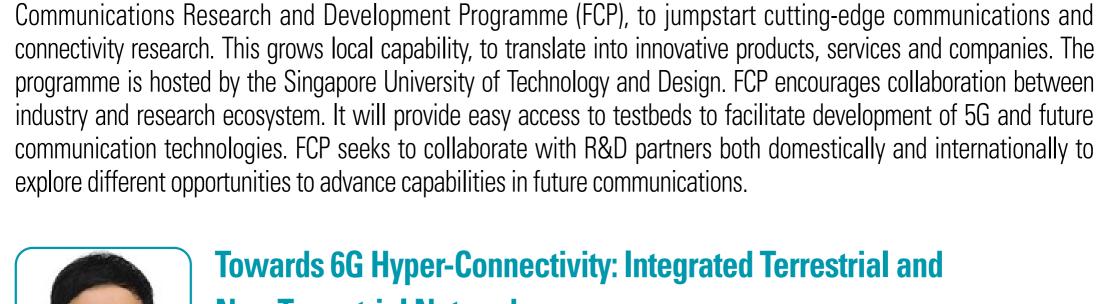


of continuous investment and innovations on the communication technologies. In this talk, the following two keys to differentiate 6G from 5G in the users' perspective not in the technologies' perspective are discussed in depth with anticipated technical challenges therein: 1) enabling the vision of end-to-end performance guarantee for 6G in the level of networks not in the level of links, 2) providing interfaces to applications for them to directly benefit from the performance-guaranteed networking. **Introduction of 6G Research Program in Taiwan** Prof. Tzong-Lin Wu, NTU, Taiwan



As the 5G system broadly deployed over the world, academia and industry devoted to the investigation and conceptualization of the next generation mobile communication (6G). Network operators have identified several key

and standard organizations. This talk will also briefly introduce the program scope which covers the core technologies to enable the 6G communication with extreme high speed, extreme coverage, and intelligent and diverse capability. **Future Communications R&D Programme in Singapore** Prof. Tony Quek, SUTD, Singapore



connectivity research. This grows local capability, to translate into innovative products, services and companies. The programme is hosted by the Singapore University of Technology and Design. FCP encourages collaboration between industry and research ecosystem. It will provide easy access to testbeds to facilitate development of 5G and future communication technologies. FCP seeks to collaborate with R&D partners both domestically and internationally to

Communications and connectivity have become the critical foundational technology that supports Singapore's

economy. Singapore has invested close to \$\$70 million through the launch of Singapore's first national Future

**Non-Terrestrial Networks** Prof. Byungju Lee, INU, Korea One important expectation in the sixth generation (6G) era is that machines and things will be the main consumers of mobile data traffic. Since 6G networks should support a variety of form factors with different service requirements and hardware capabilities, enabling technologies should be distinct from those of 5G in all aspects. To make the visions come true, 6G wireless networks should be hyper-connected, meaning that there should be no constraint on the data

**Towards 6G Hyper-Connectivity: Integrated Terrestrial and** 

### rate, coverage, and computing. There are the critical challenges for 6G hyper-connectivity including beyond gigabits-persecond (Gbps) data rates for immersive user experiences, zero coverage-hole networks, and pervasive computing for

- connected intelligence. In this talk, the key technical issues for achieving zero coverage-hole networks are discussed.
- Registration
- The Workshop registration fee is free. Online Participation: You don't need to register. Please click the 'JOIN WORKSHOP' button.

• On-site Participation: Register it by clicking the 'REGISTER NOW' button. It is a first come first

serve basis.

**Online Participation JOIN WORKSHOP** 

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