

Sheng-Po Wang Industrial Technology Research Institute (Div. V) samperwang@itri.org.tw



Video Coding for 6G Applications

&D Capability of ITRI on 6G Video Applications

6G Machine to Machine Video Communication

Immersive XR and Hologram



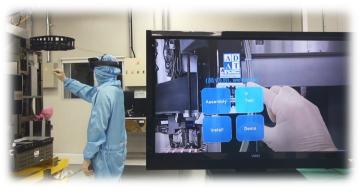
R&D Capability of ITRI on 6G Video Applications

- ITRI ICL is a professional and experienced R&D team on multimedia applications for B5G/6G
 - ✓ We have been developing video coding, transmission and processing technologies for decades.
 - ✓ We are familiar with B5G/6G multimedia applications and also experienced in field verification for various usage scenarios.
 - ✓ We have been participating in MPEG/JVET video coding standardization activities and contributing important technical proposals for more than ten years.



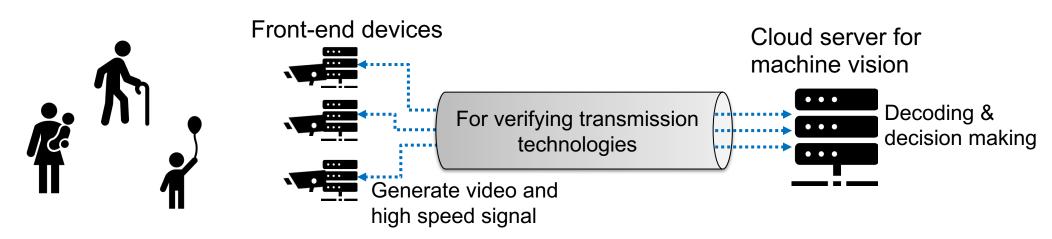






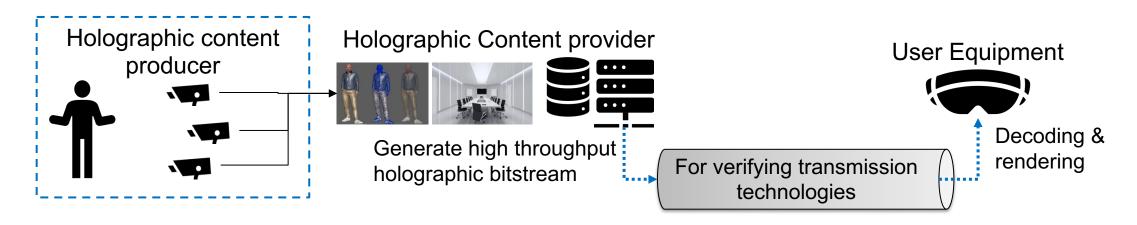
6G Machine to Machine Video Communication

- M2M video communication requires rapid response, massive linkage, ultra-high reliability and privacy protection
- Traditional technologies are designed for human consumption, which are insufficient for communication between machines
- It is needed to develop new coding and transmission technology / stand for connected machines
- ➤ ITRI can contribute to the project by developing prototypes and conducting field verification for 6G M2M video communication applications



Immersive XR and Hologram

- Immersive XR and Hologram applications not only require large bandwidth to deliver content, but also consume hugh computing power to render the image on UE.
- Ultra-low latency is also needed for providing vivid user experience.
- ➤ Based on our rich experiences and experties on video streaming and XR applications, we are confident to carry out prototypes for novel 6G use cases
- ➤ ITRI can be a hub for collaboration between companies in Taiwan and Europe to develop innovative 3D holographic and immersive XR prototyping system



Topics of Interest for SNS 2024

Stream B:

 Develop video coding and transmission technology for machine to machine video communication.

Stream C:

- Establish holographic applicational prototyping system as the testbed for verifying 6G communication technologies
- Establish test environment for machine-oriented video communication applications

