



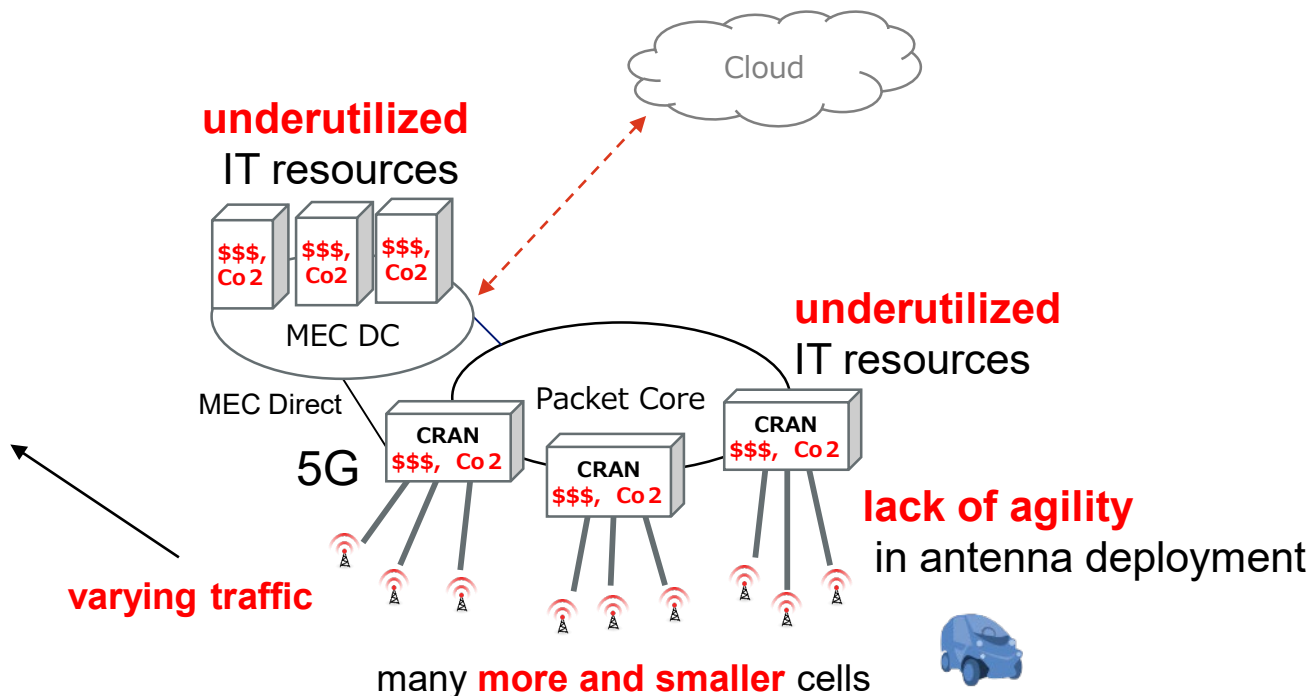
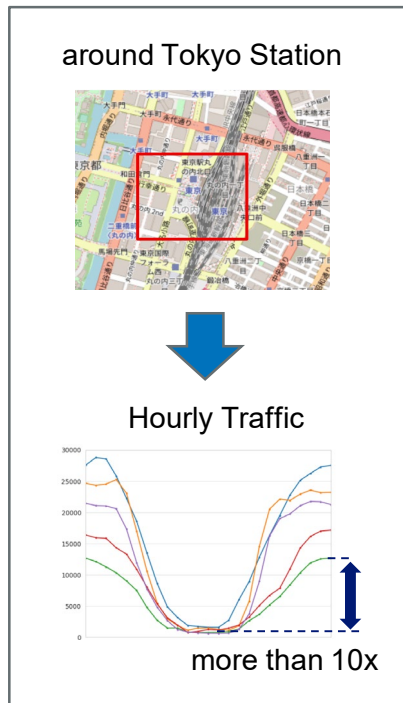
Beyond 5G/6G Networks with Cloud Agility, Elasticity, and Resiliency

June 2023

Masahisa Kawashima
IOWN Development Office, NTT

Arising Issues

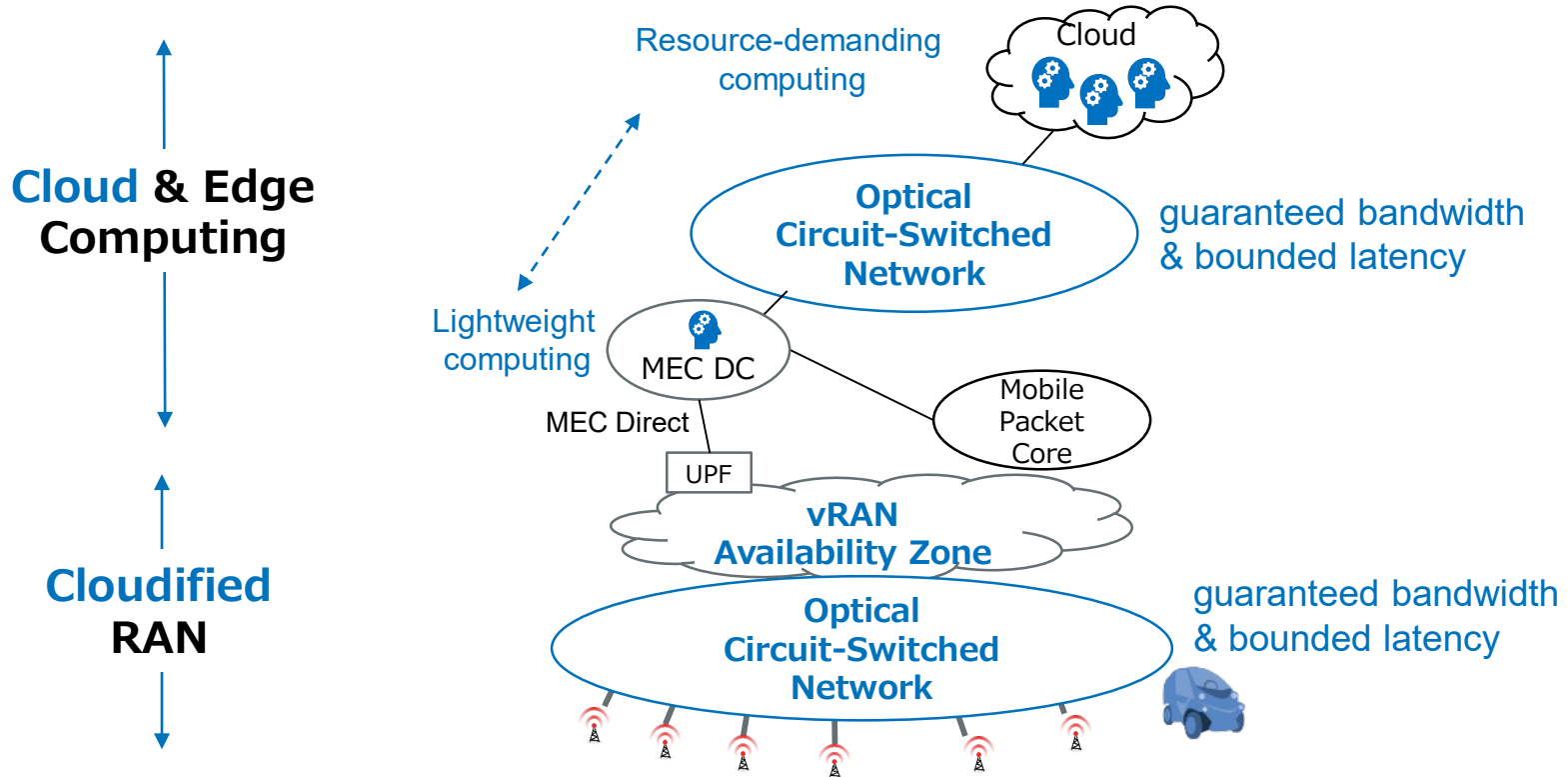
5G & MEC **alone** would **not** be able to **sustainably** support cyber-physical applications



Solution

Beyond 5G/6G Vision (Proposal)

Beyond 5G/6G Networks with Cloud Agility, Elasticity, and Resiliency

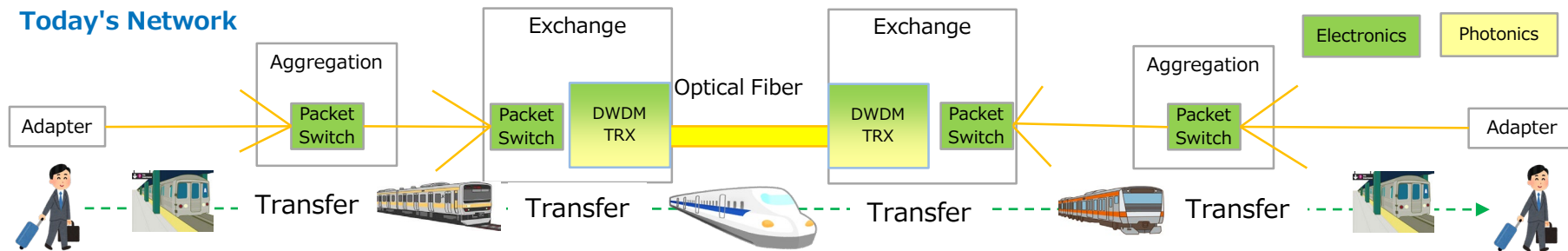


IOWN Global Forum Open APN

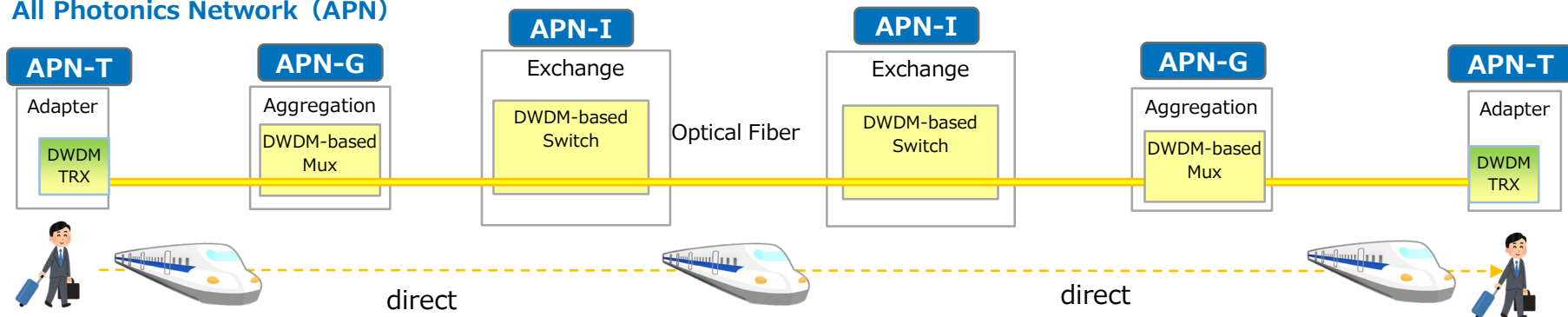
Like travelling on a **direct train**. **No more grasshopping.**

Connect two sites with guaranteed bandwidth and bounded latency, 0.5msec/100km

Today's Network



All Photonics Network (APN)



abc

defined by IOWN Global Forum Open APN

Summary

Arising Issues with 5G

- **Underutilized** IT resources
- **Lack of Agility**

Proposed Solution

- Marriage between **Radio and Optical** with IOWN APN
 - **Cloudified** RAN with IOWN APN
 - **Cloud-and-Edge** Computing with IOWN APN

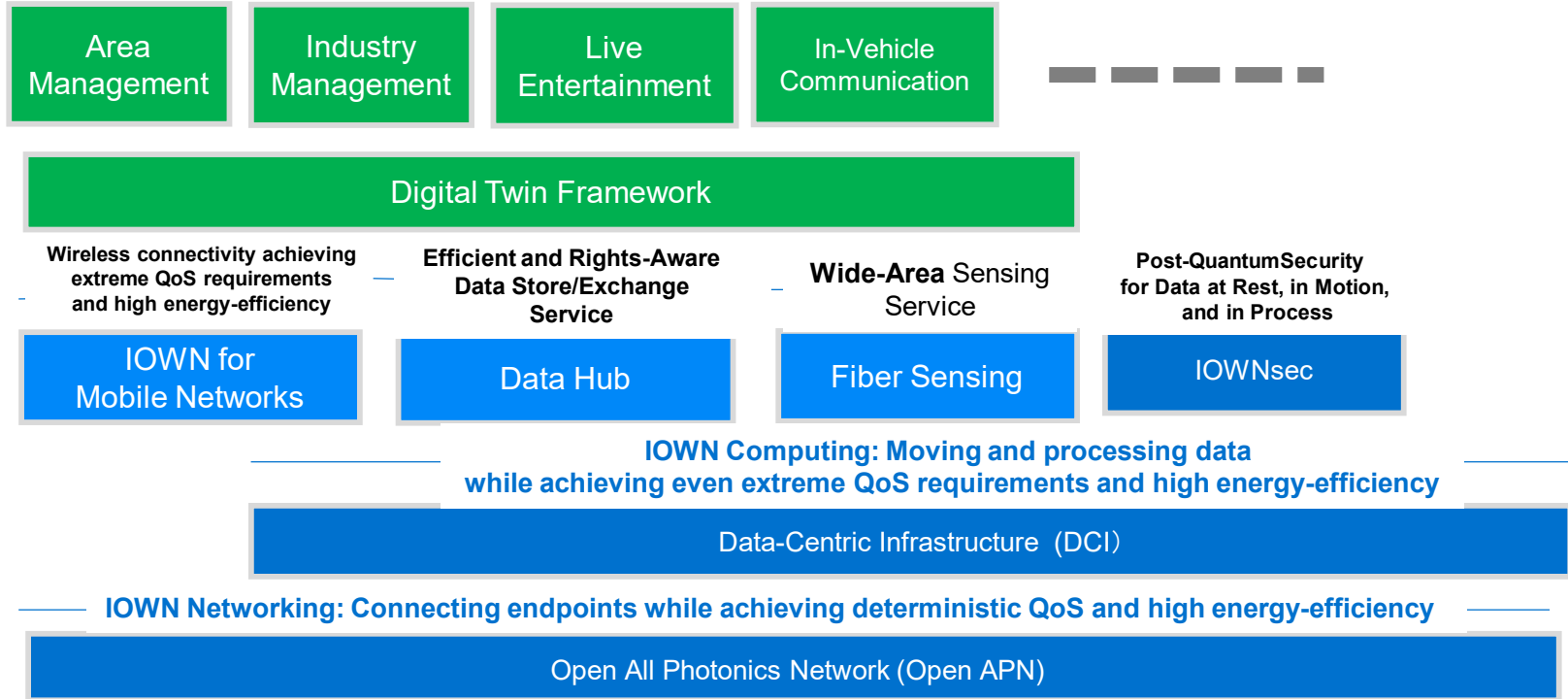


Beyond 5G/6G Networks with **Cloud Agility, Elasticity, and Resiliency**

IOWN Global Forum will hold the next all member meeting in Munich, Germany on September 5-7.

Supplementary Slides

Technology Stack for IOWN Computing and Networking



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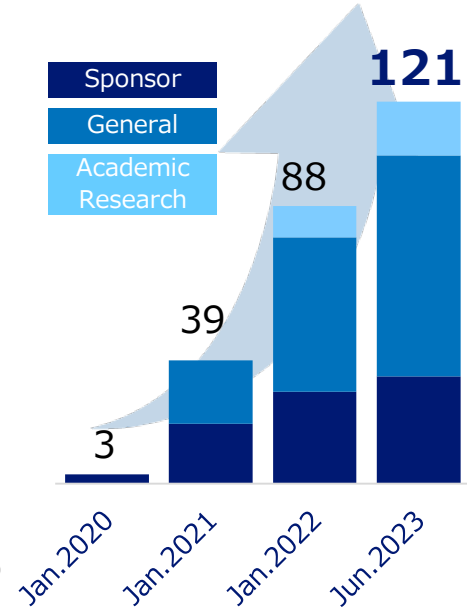
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As of June 2, 2023