WIDE Project, www.wide.ad.jp

✧ **WIDE ;** Widely Integrated Distributed Environment

✧ **Since 1988**
  - ✧ Develop, deliver and deploy the Internet with global partners
  - ✧ Cooperation with industries and government agencies

✧ **WIDE Internet, design, built and operated by ourself**
  - ✧ Camp network (ad hoc network) in March and September
  - ✧ Interop Tokyo Shownet (ad hoc network) STM in June
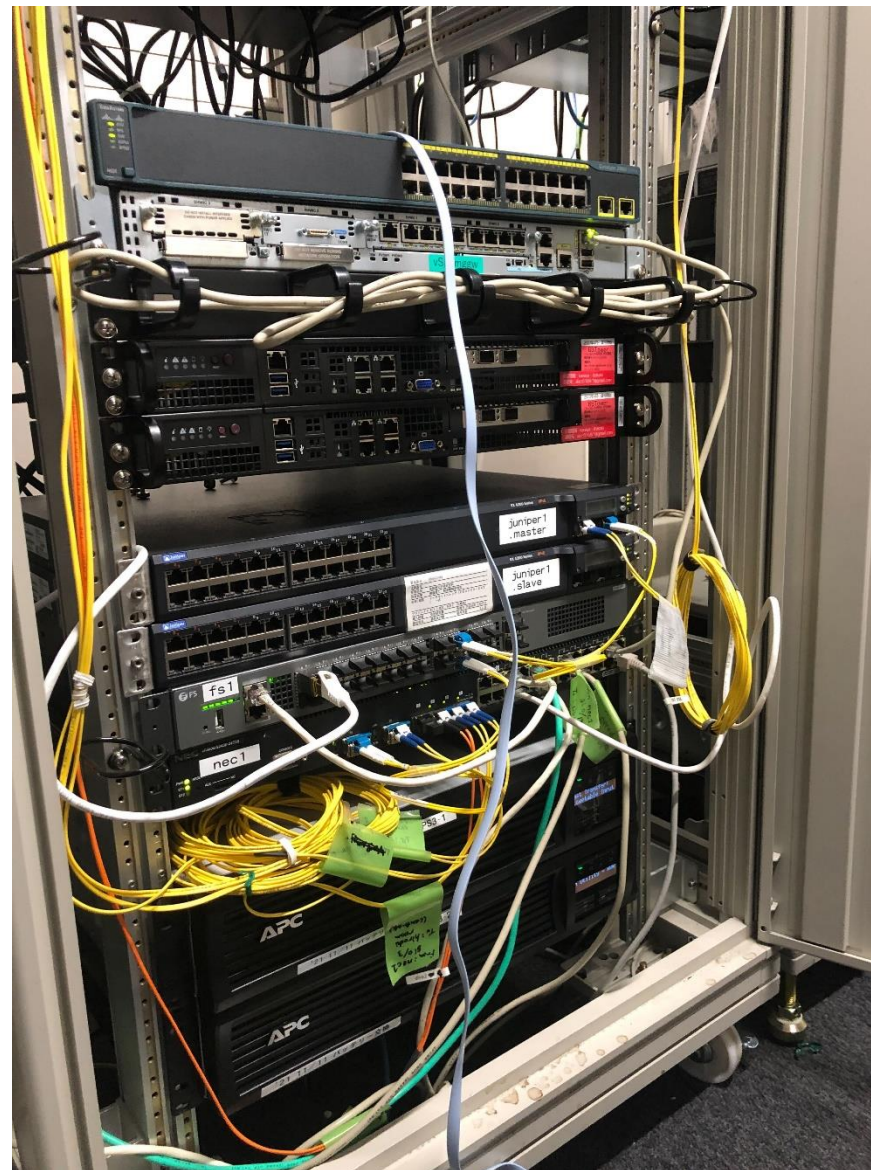 - ◆ **Domestic** networks, including Lab. and EEICE networks 日本
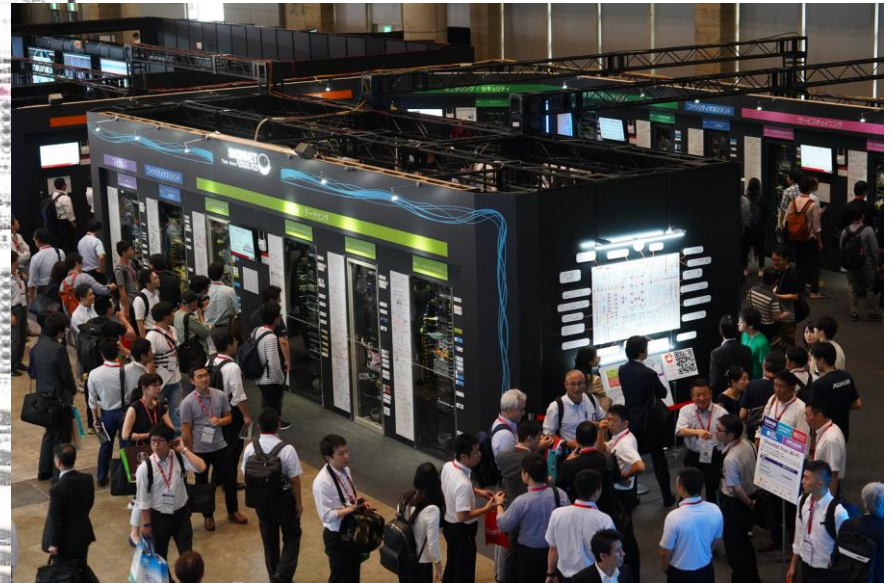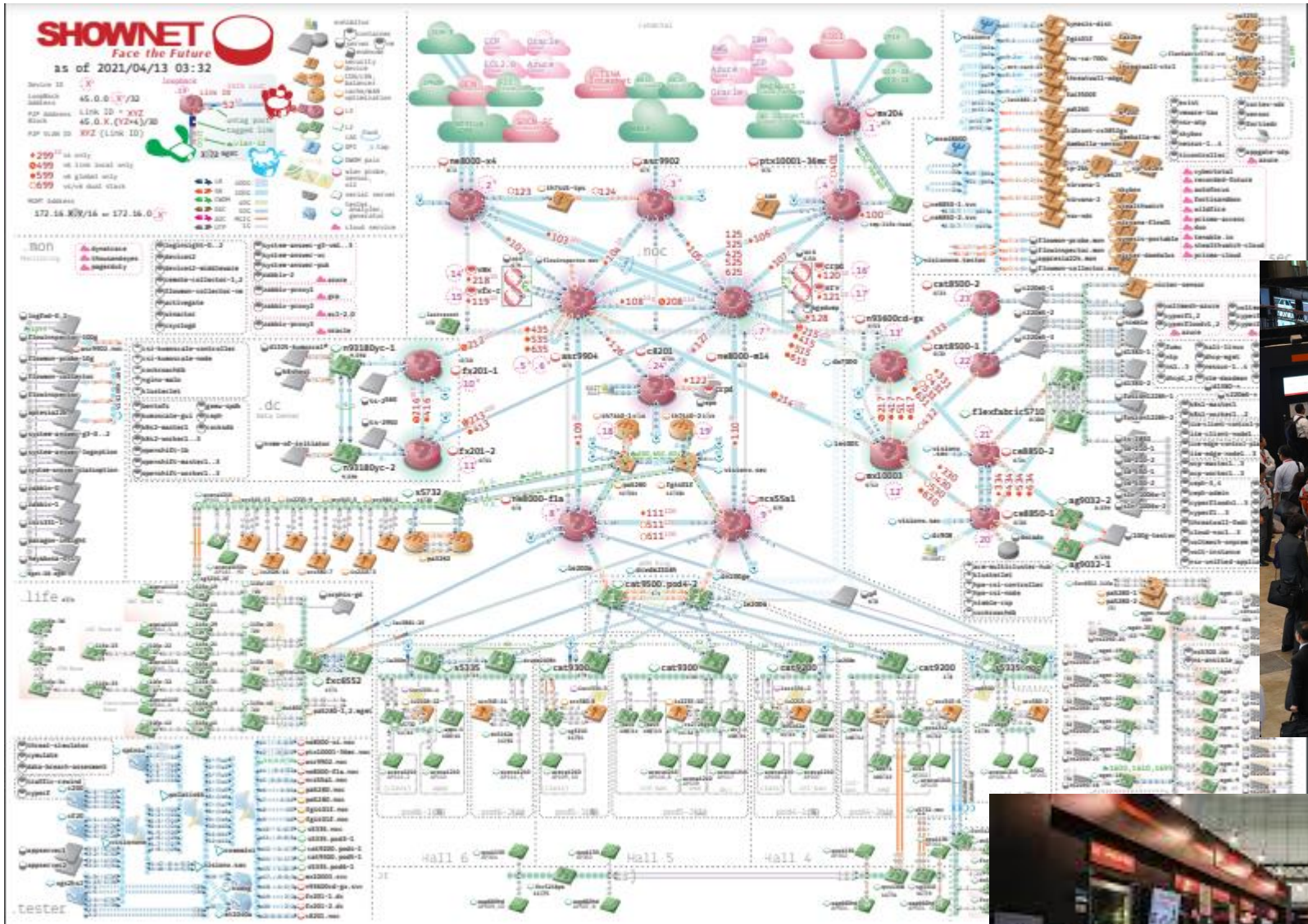 - ◆ **Global** networks 地球
  - ◆ **Quantum** networks 地球
  - ◆ **NTN(Non Terrestrial Networks)** 宇宙 **New**
  - ◆ **Data Center Networks for AI and Web**

- サーバルームの整備
- 実験装置の管理・運用

https://www.arena-pac.net/ja/

Operational
Tokyo - Guam (100Gbps, Feb 2021-)
Guam - Malang (100Gbps, Feb 2023-)
Guam - Manila (100Gbps, Apr 2023-)

Joint Operation
Guam-SG Connectivity Consortium
(ARENA-PAC, AARNet, Internet2, IN@IU)
(100Gbps, Jan 2022-)

www.gutp.jp

- ✧ **GUTP ; Green University of Tokyo Project**
- ✧ **Since 2008**
  - ✧ **Open smart building/campus with Internet-by-Design**
  - ✧ <mark>**Green as a gift, but Open Digital Twin is our target**</mark>
- ✧ **GUTP Research Members in 2023;**
  - ➤ **31 companies, 12 NPOs**
- ✧ **Active Working Groups; 6**
  - ✧ **{Edge-driven} AI/ML**
  - ✧ **Cyber Security for OT**
  - ✧ **BIM Platform {integration with iCAR/SDM in WIDE}**
  - ✧ **SDGs**
  - ✧ **Smart infrastructure**
  - ✧ **Strategic Actions**

  <mark>**Cooperative university testbeds**</mark>

- ✧ <mark>**WEF**</mark>**, IEEE,** <mark>**Microsoft**</mark>**, IPA/DADC(@jp), etc.,**

The University of Tokyo in Summer of 2011
Hacking building/campus facilities with IP

	Peak (2010)	Peak (2011)	Total (2011)	RoI
Major 5 campuses	66 MW	69% (△31%)	75%-78% (22%-25%)	less than 1 month
Eng. No2 Bldg.	1 MW	56% (△44%)	69% (△31%)	2 years

【Contributions】
1. Multi-Vender for sustainability by TCP/IP
2. Global open standard for interoperability

Green university of Tokyo Project
グリーン東大工学部プロジェクト

東京大学
THE UNIVERSITY OF TOKYO

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🔴 **Giving to UTokyo** 🗗

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The University of Tokyo Signs Strategic Memorandum of Understanding with Microsoft to promote Green Transformation (GX), Diversity and Inclusion (D&I) and AI Research

Where recent students go, mainly ?

1. Established IT/ICT companies
   a. Internet Service Provider (e.g., NTT, KDDI, SoftBank, Rakuten)
   b. Cloud/Application/Contents Service Provider (e.g., AWS, Yahoo!, DeNA)

2. Start up companies
   a. Starting up by themselves
      i. DINII https://www.dinii.jp/
      ii. Hirasol Energy https://www.pplc.co/
      iii. OpenEight https://www.wantedly.com/id/hisatake
   b. Join to established start up companies
      i. Preferred Networks
      ii. Indeed