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shaping tomorrow with you

Fujitsu Laboratories of America Technology Symposium 2013

Welcome and Opening Remarks

Yasunori Kimura

President and CEO

Fujitsu Laboratories of America, Inc.

June 5th, 2013

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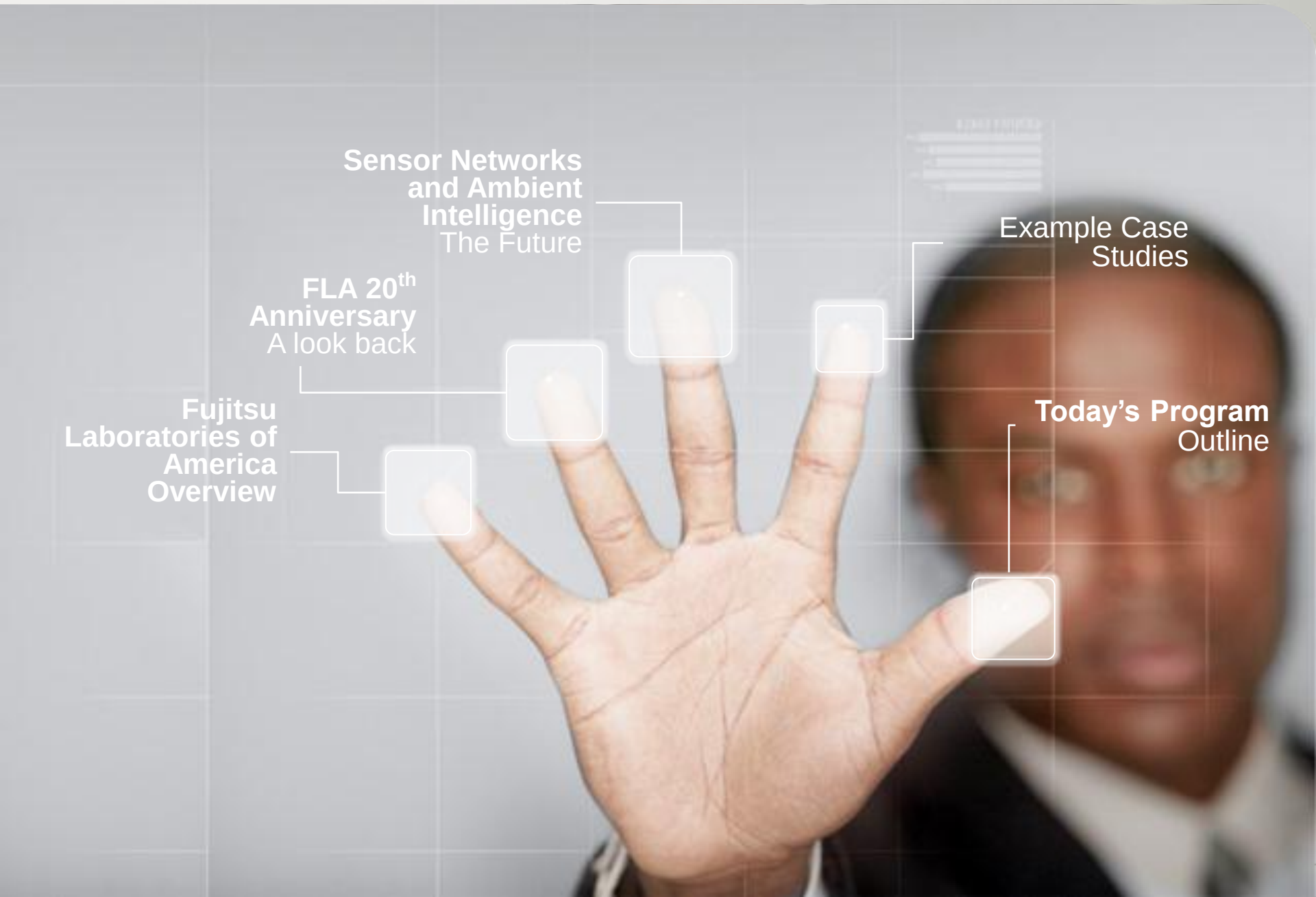
Agenda


Sensor Networks and Ambient Intelligence
The Future
Example Case Studies
FLA 20th Anniversary
A look back
Fujitsu Laboratories of America Overview
Today's Program
Outline

Fujitsu Laboratories of America, Inc. (FLA)

Fujitsu Laboratories are Leading the Innovation Charge

Fujitsu Laboratories of Europe Ltd. (FLE)

Fujitsu Research and Development Center, China (FRDC)

Fujitsu Laboratories Ltd. (Estab. 1968)

Sunnyvale

Texas

Fujitsu Laboratories of America, Inc. (FLA) (Estab. 1993)

15+ R&D projects
70 Researchers from 15 countries

STANFORD UNIVERSITY

Massachusetts Institute of Technology

Berkeley UNIVERSITY OF CALIFORNIA

parc® Palo Alto Research Center

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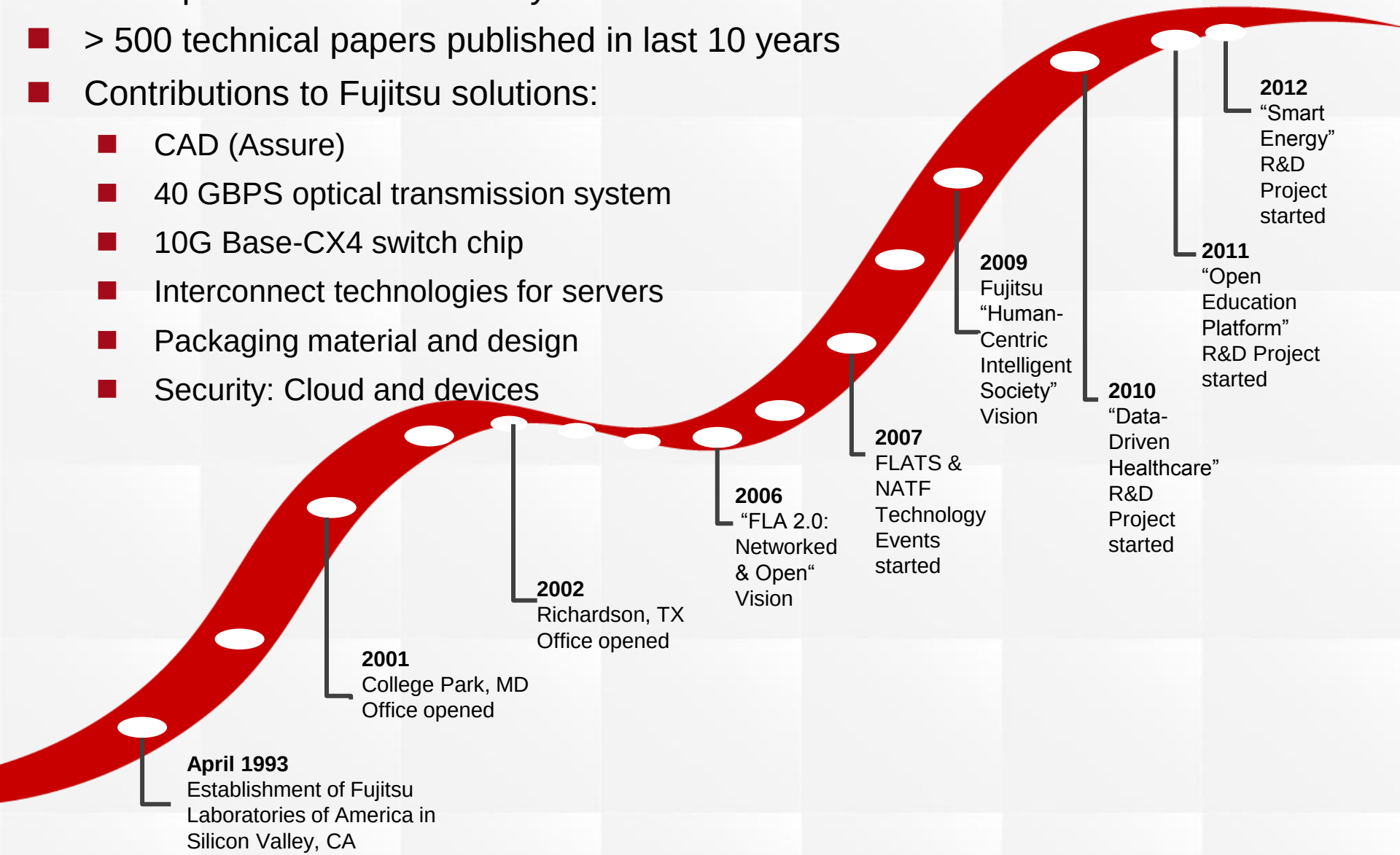
FLA History and Accomplishments

- > 750 patents filed in last 10 years
- > 500 technical papers published in last 10 years
- Contributions to Fujitsu solutions:
  - CAD (Assure)
  - 40 GBPS optical transmission system
  - 10G Base-CX4 switch chip
  - Interconnect technologies for servers
  - Packaging material and design
  - Security: Cloud and devices



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20 Anniversary – A Retrospective Video

Today's Theme: Ambient Intelligence

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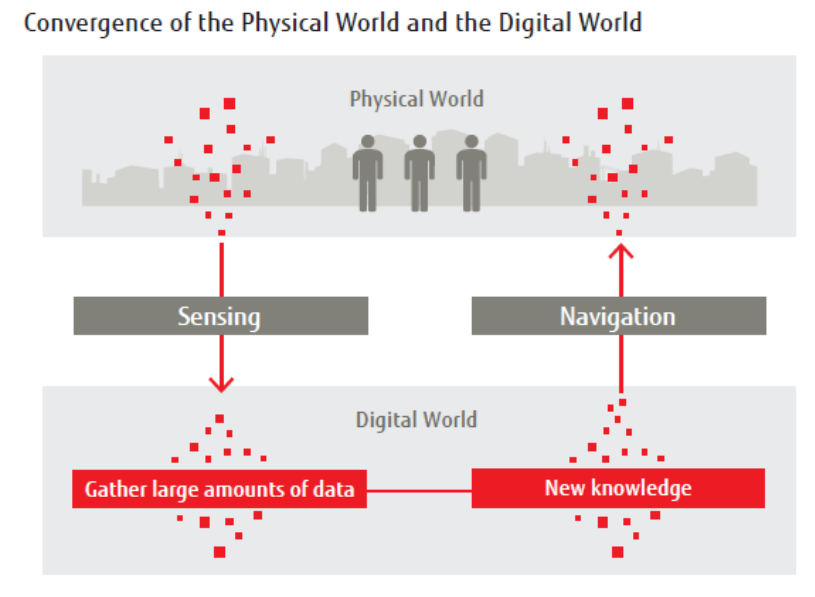
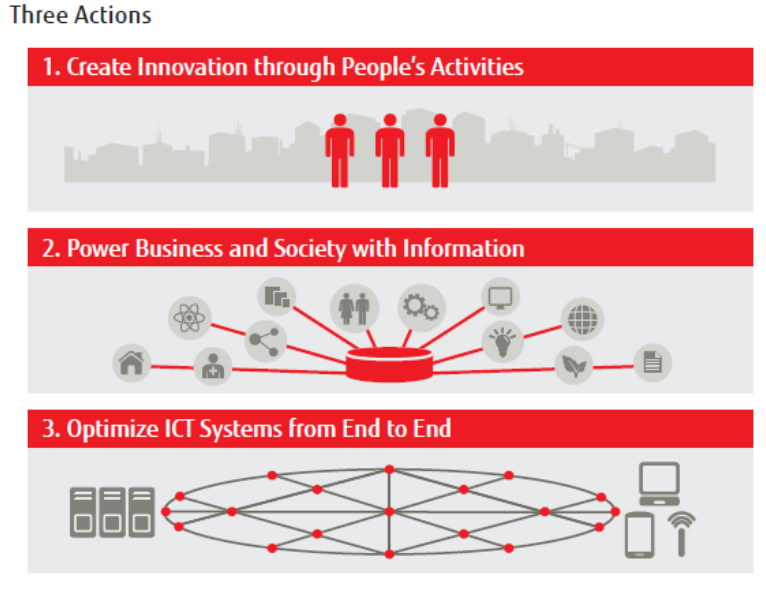
- A vision for 21st century and beyond
- Matches with Fujitsu's "Human-Centric Intelligent Society" vision
- Variety of technologies will be needed to enable Ambient intelligence environments including *sensors, AI, HCI, context-aware, biometrics, nanotechnology,* etc.





Fujitsu's vision: Human-Centric Intelligent Society

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Sensor Network Services

"Aging in place"

- Alternative to nursing home
- Better quality of life
- Dignity, safety, & connectedness
- Lower cost

- Better info
- Alerts

Anonymized data collection and analysis

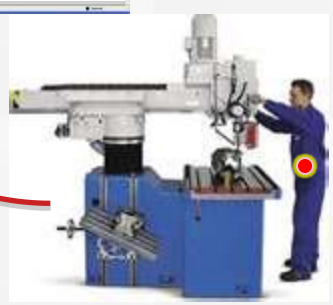
Patient in hospital

- Targeted treatment
- Earlier detection (e.g. sepsis)
- Earlier release

Other online data

Crowd-sourcing data

- Collective awareness informs individual behavior
- Collective awareness informs broader policies



Worker health & safety

- Alertness detection
- Morale & productivity improvement through stress awareness and reduction
- Health improvement via fast feedback

- Track self & family
- Lifestyle feedback
- Compare self to others
- Pro-active role in own wellness
- Stress tracking

User with bio-sensors

Smart phone

- Collect
- Alert
- Predict
- Notify
- Socialize
- Advise*
- Summarize

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Advanced Metering Infrastructure (AMI)

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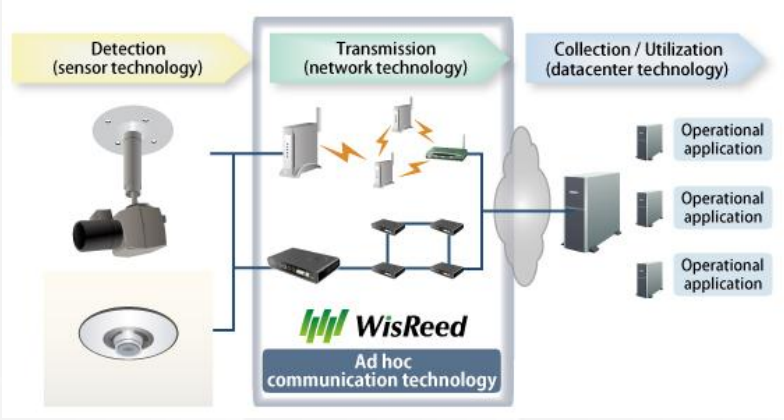
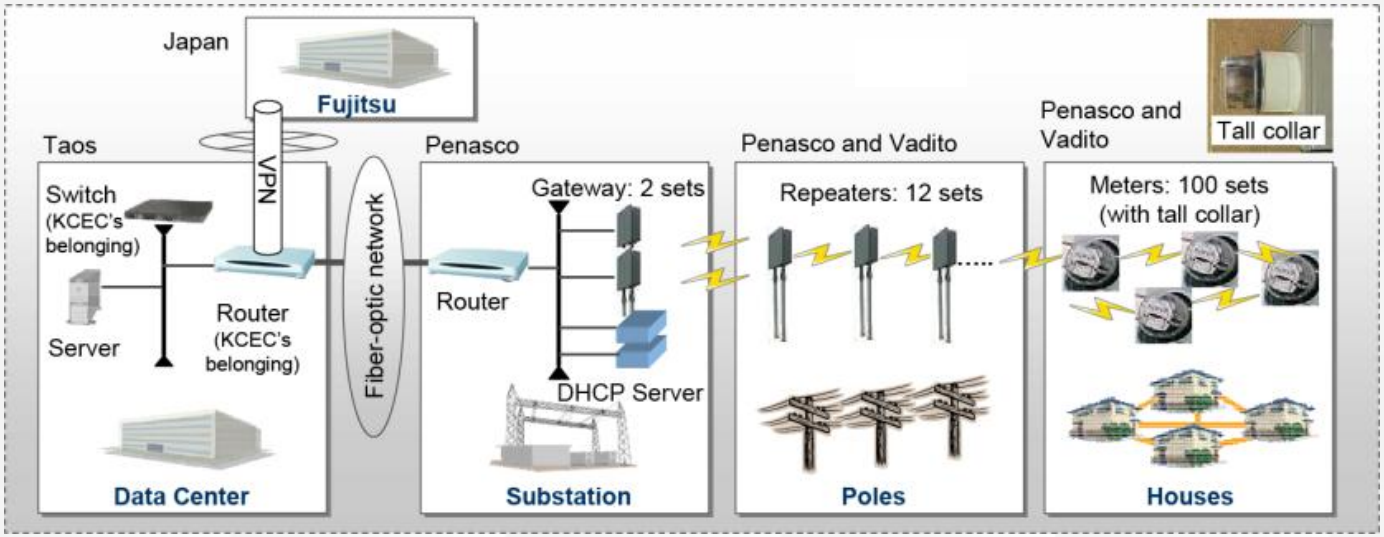
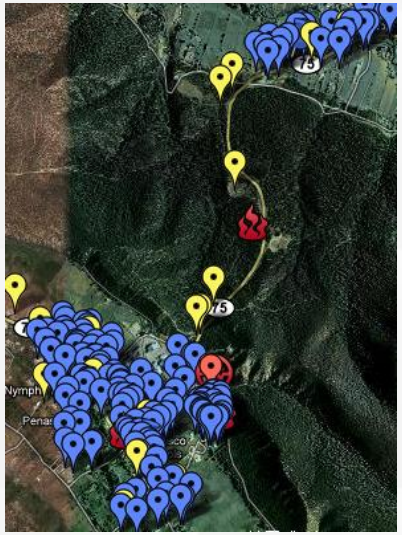
- Based on Fujitsu WisReed Mesh Network
- Including Demand Response, Distribution Automation, meter data storage, data analysis, device maintenance, billing, etc.
- Benefits to utilities and consumers
  - Remote and automated reading
  - Accurate billing & fraud detection
  - Flexible pricing options
  - Outage detection and management
  - Better management of usage



AMI deployment in a harsh environment





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Today's Program

Time	Agenda
8:00 am – 9:00 am	Registration and Continental Breakfast
	Master of Ceremonies: Matt Goldman, SVP of Strategy, Fujitsu America, Inc.
9:00 am – 9:15 am	**Welcome and Opening Remarks** Yasunori Kimura, President and CEO, Fujitsu Laboratories of America
9:15 am – 9:45 am	**Fujitsu North America Keynote** Bob Pryor, President and CEO, Fujitsu America, Inc.
9:45 am – 10:45 am	Panel Session #1: ***"Roadmap to the Future: Clouds, Pervasive Computing and M2M"***
10:45 pm -11:05 pm	Networking Break
11:05 am – 12:05 pm	Panel Session #2: ***"Solutions in Healthcare, Automotive and Smart Cities that Leverage Sensor Networks and M2M"***
12:05 pm - 1:30 pm	Lunch and Presentation on "Mobile Music: Breaking Barriers with Sensors and Sound" by Ge Wang, Asst. Professor, Stanford University and Co-founder of Smule (12:45 pm - 1:15 pm)
1:30 pm – 2:30 pm	Panel Session #3: ***"Pervasive Computing Challenges: Systems, Data and Design"***
2:30 pm – 3:30 pm	Panel Session #4: ***"The BRAIN Initiative: the Big Yottabyte Data Challenge"***
3:30 pm – 3:50 pm	Networking Break
3:50 pm – 4:10 pm	**Fujitsu Laboratories Keynote** Tatsuo Tomita, President of Fujitsu Laboratories Ltd.
4:10 pm – 5:10 pm	**Industry Keynote** Andy Bechtolsheim, Founder, Chief Development Officer and Chairman of Arista Networks
5:10 pm – 5:20 pm	**Wrap up and Closing Remarks** Matt Goldman and Yasunori Kimura
5:20 pm – 7:00 pm	Networking Reception

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