

California Plug Load Research Center Workshop

The Eighth Semiannual Workshop on Energy Efficient Plug Loads

October 29, 2015



Dr. G. P. Li

California Plug Load Research Center

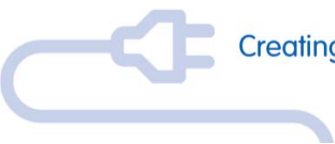
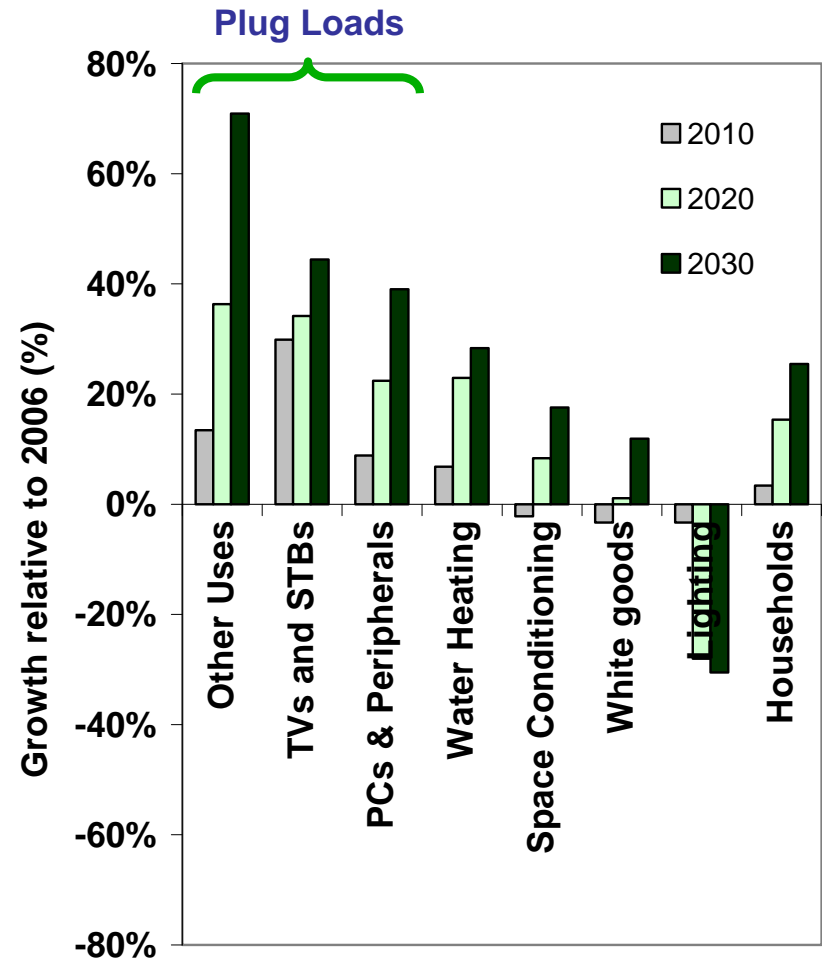
California Institute for Telecommunications and Information Technology



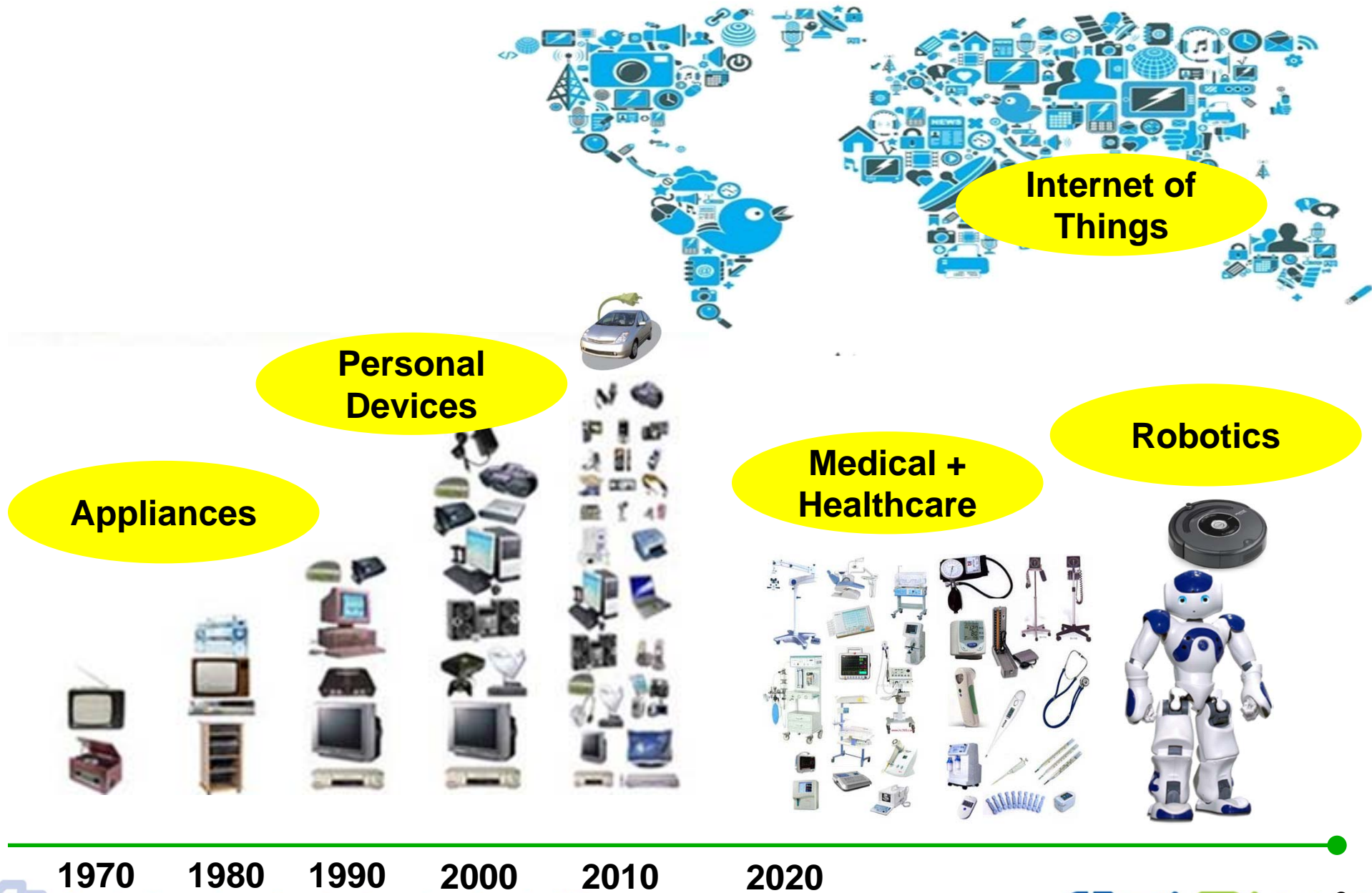
Creating Connections. Powering Innovation. Boosting Efficiency.

CalPlug Purpose

- Help California and U.S. improve energy efficiency in appliances and electronic devices
- In the residential and commercial sectors
- Through research, demonstration, education
- About engineering, incentives, codes and standards, and user behavior



Residential and Commercial Plug Loads



1970

1980

1990

2000

2010

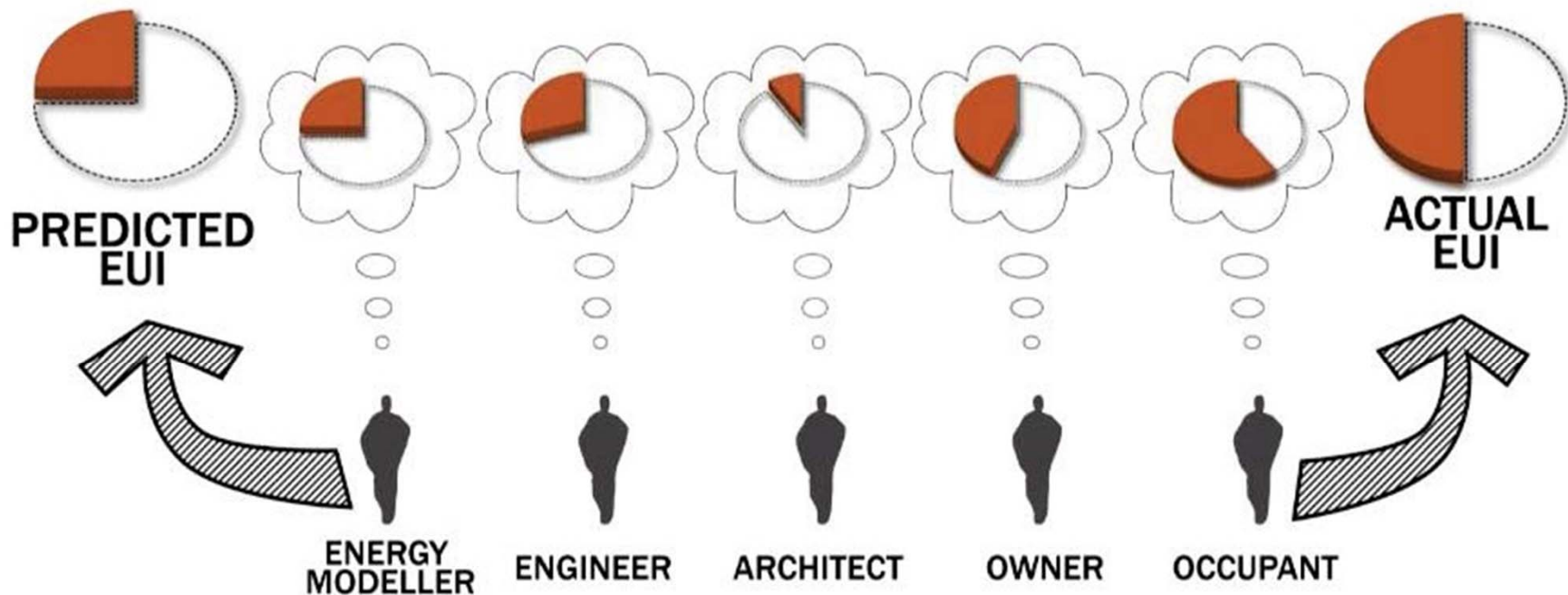
2020

Creating Connections. Powering Innovation. Boosting Efficiency.

Integrating ZNE Building Design with Personal Energy Footprint Management

ENERGY USE

PREDICTED vs. ACTUAL



Clark Brockman, AIA LEED Fellow
Principal, SERA Architects

CalPlug Workshop

➤ **Goal:**

To have an open format for plug loads information exchange and to accelerate their energy efficiency by all means including innovation in hardware and software, codes and standards, and incentives and rebates

➤ **Anticipated outcome:**

To create an energy efficiency working group for strong collaborations among players including research centers, manufacturers, service/content providers, utilities and government agencies



CalPlug Workshop

- **Morning sessions** will report EE progresses in advanced power strips/tier 2, small network equipment.
- **Afternoon sessions** will report loads look ahead, and zero net energy (ZNE) challenges and solutions.
- **Afternoon networking reception**



Acknowledgements

- **CEA and its member companies for support and guidance in STB, PC power management, small network equipment**
- **SCE – support for plug loads project at CalPlug**
- **CEC– support at CalPlug**
- **CalPlug member companies and sponsors**
- **Speakers and panel members**
- **CalPlug staff and students**



**We welcome
opportunities for
collaboration.
Thank you!**



Creating Connections. Powering Innovation. Boosting Efficiency.