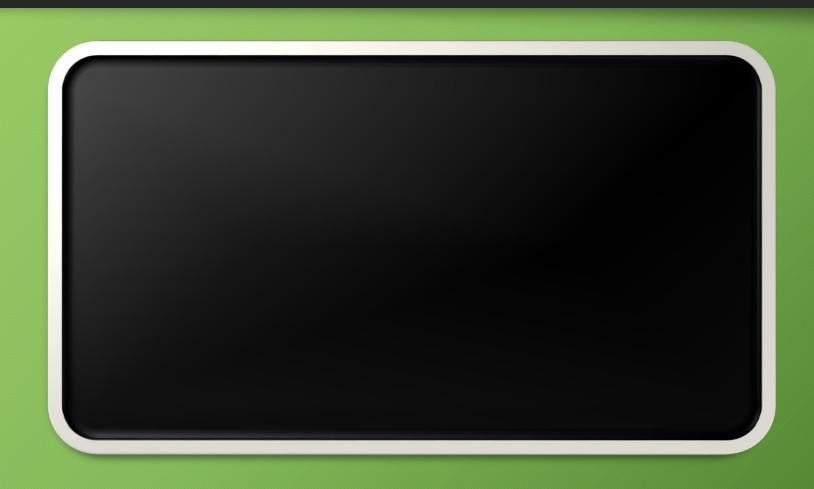
Smarter Home, Smarter City

April 21, 2018



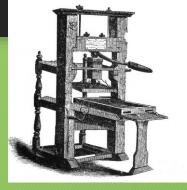


The Pace of Technology Change



Evolutions - Printing/ Musical Entertainment



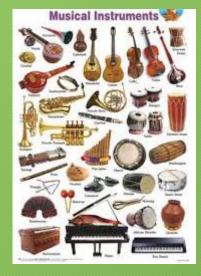


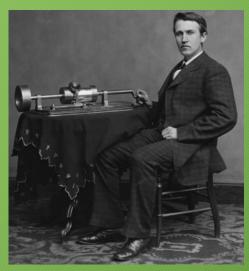












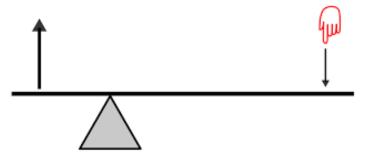




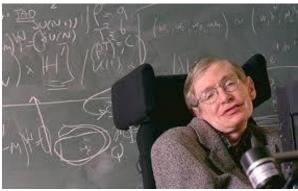


What is Smart?

- Knowledge
- Intelligence
- Solutions to problems
- Wisdom





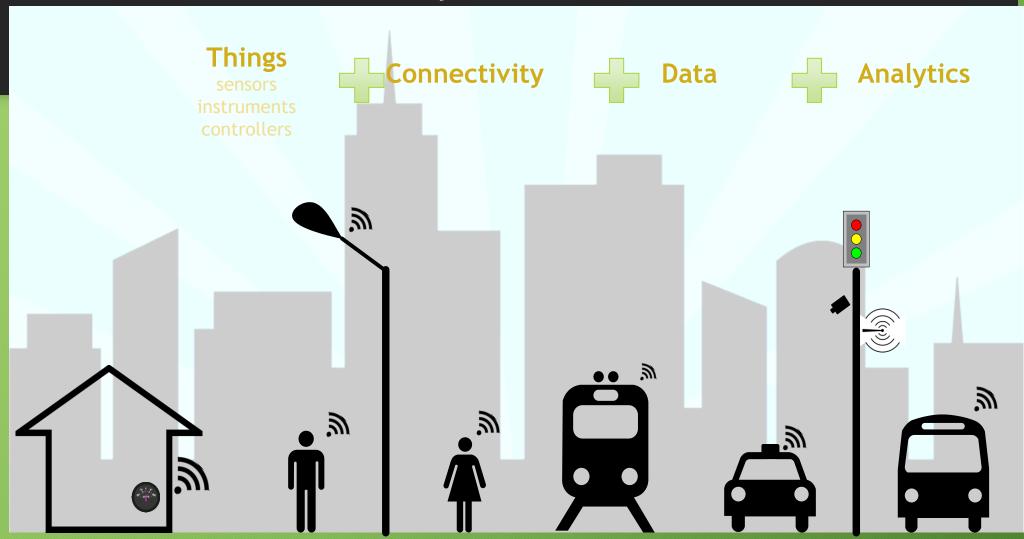


Why do we want Smarts?

- Efficiency
- Be more effective
- Increase safety
- Reduce resource needs

• Bottom line - "Smarts" applied wisely create benefits or convenience.

What is a Smart City?



Global Activity in Smart Cities



Bellevue View of Smart City



SILLEVUE SMART

Desired Outcomes

- Livability: safety, health convenience, quality of life
- Sustainability: reducing waste, increasing efficiencies, protecting the environment
- Resiliency: effective emergency response, faster recovery

AMI (Smart Water Meters) Customers Expect Better Information on Water Use

- Customers can control water usage
- Proactive leak detection



Number of Jurisdictions with "Smart Meters" Are Growing Nationally and Locally

Jurisdictions with Smart Meters:

- Bellevue (gas, electric and soon, water)
- Sammamish Plateau Water & Sewer District
- Woodinville Water & Sewer District
- · Renton, WA
- Yakima, WA
- San Francisco, CA
- New York, NY
- · Cleveland, OH
- Tucson, AZ
- Corpus Christi, TX
- Houston, TX
- Salt Lake City ,UT
- Atlanta, GA
- Los Angeles, CA
- New Orleans, LA



Smart Homes

"A smart home, or smart house, is a home that incorporates advanced automation systems to provide the inhabitants with sophisticated monitoring and control over the building's functions."

Smart Home Energy UK



Monitor and control multiple appliances, access weather, sports, music

Create shopping lists; built-in cameras to see inside; set expiration dates for freshness; get recipes based on ingredients...



View visitors, steam video, save images, activate lighting; signal for help



















Demand Manager Benefits for Customers and to Society

Benefits to Society

Efficient electricity usage during high demand times limits less environmentally friendly power generation

Benefits for Customers

Allow customers to make prioritized decisions around how much energy they use at any given time



Demand Manager

Putting The Customer In Control



- **Demand Manager Application** runs on the customer's meter
- Wireless Load control switches that are connected to your high energy appliances communicate with the meter to switch off or throttle down power usage as needed
- 4 Interactive mobile and web tools provide members the ability to remotely monitor and manage their electricity usage





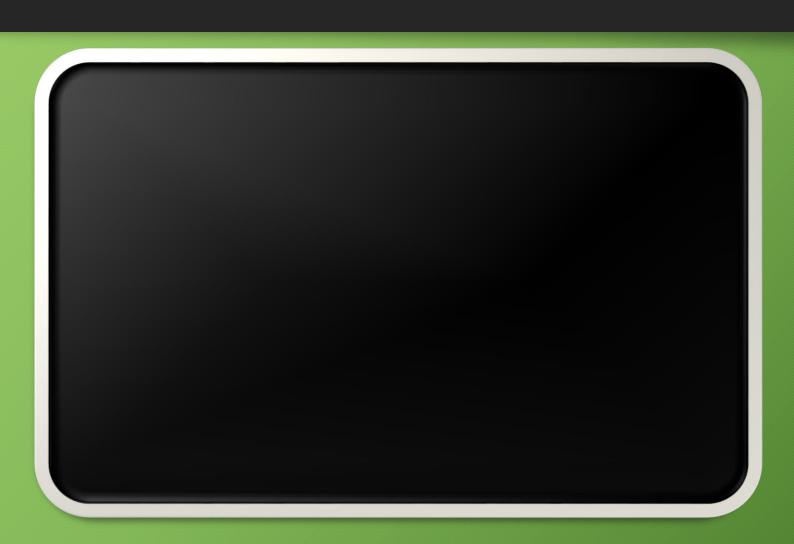
Maximum Power Consumption Is Set For example: 8 kW



Physically Connect to your Appliances

Power Consumption Limits Can Be Overridden At Any Time

Technology can be convenient, but there are limits





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