

Smart Grids Usage Scenario

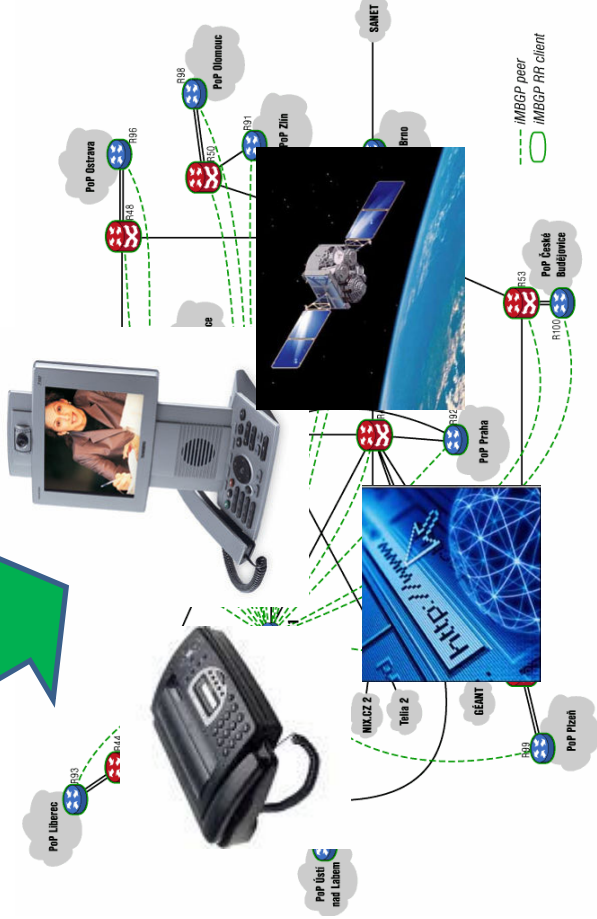
José Luís Malaquias

ISA-Intelligent Sensing Anywhere

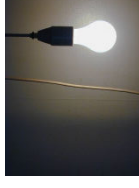
Let's do some time travel



Alexander Bell



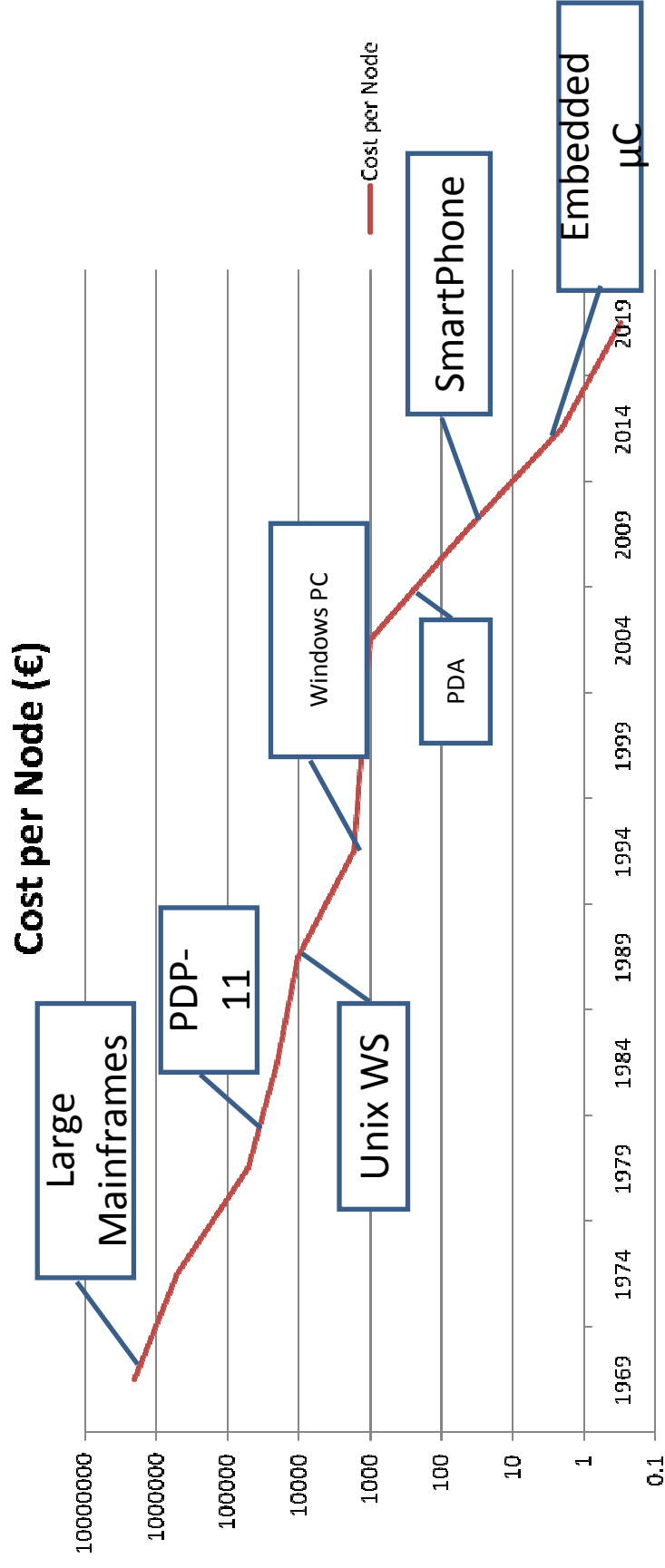
Thomas Edison



I S A

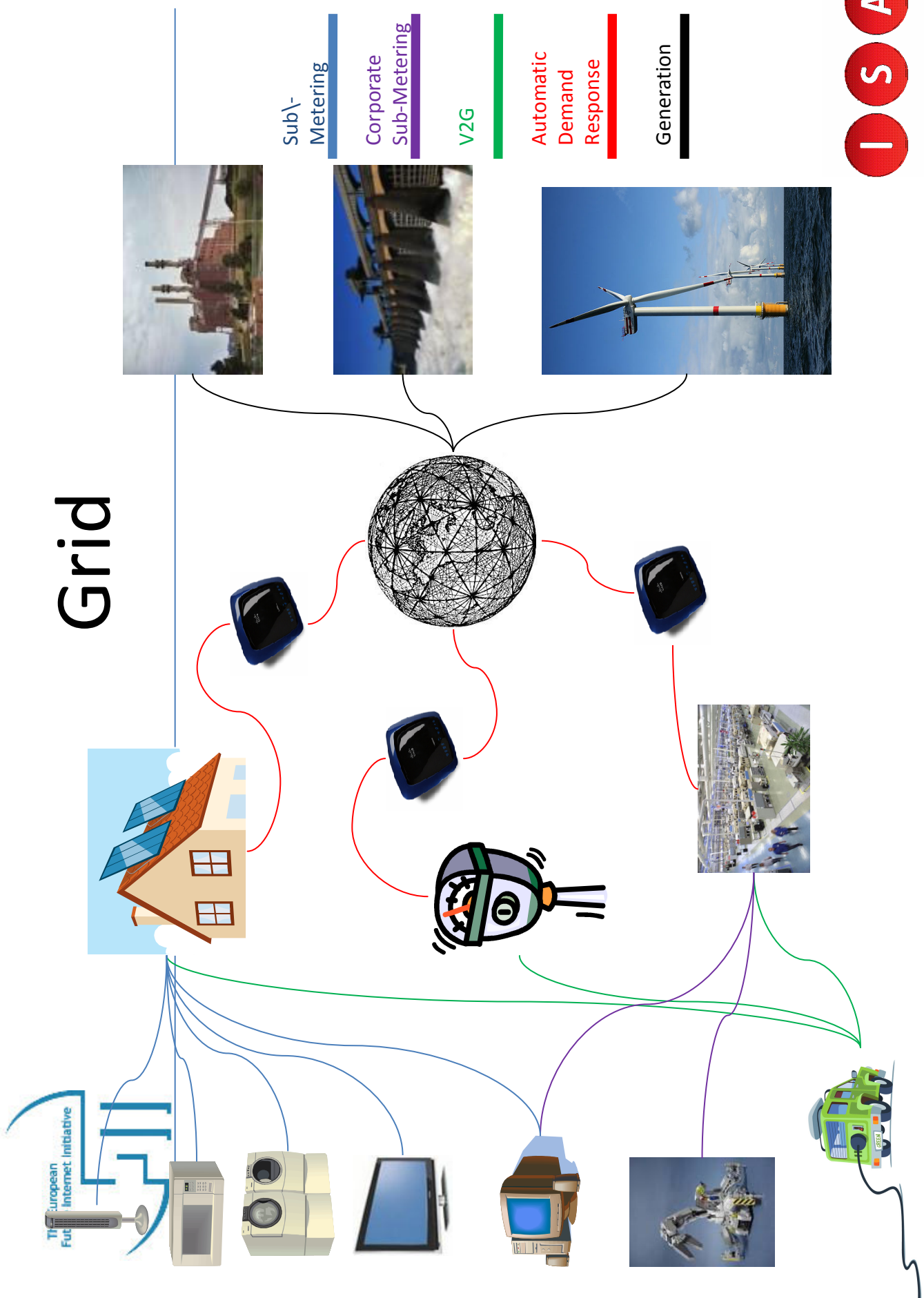
Intelligent Sensing Anywhere

Falling price of Internet Nodes



It's time for us to leverage the low-cost of Internet nodes to put communication capabilities into every appliance

Grid



Sub-Metering

Corporate Sub-Metering

V2G

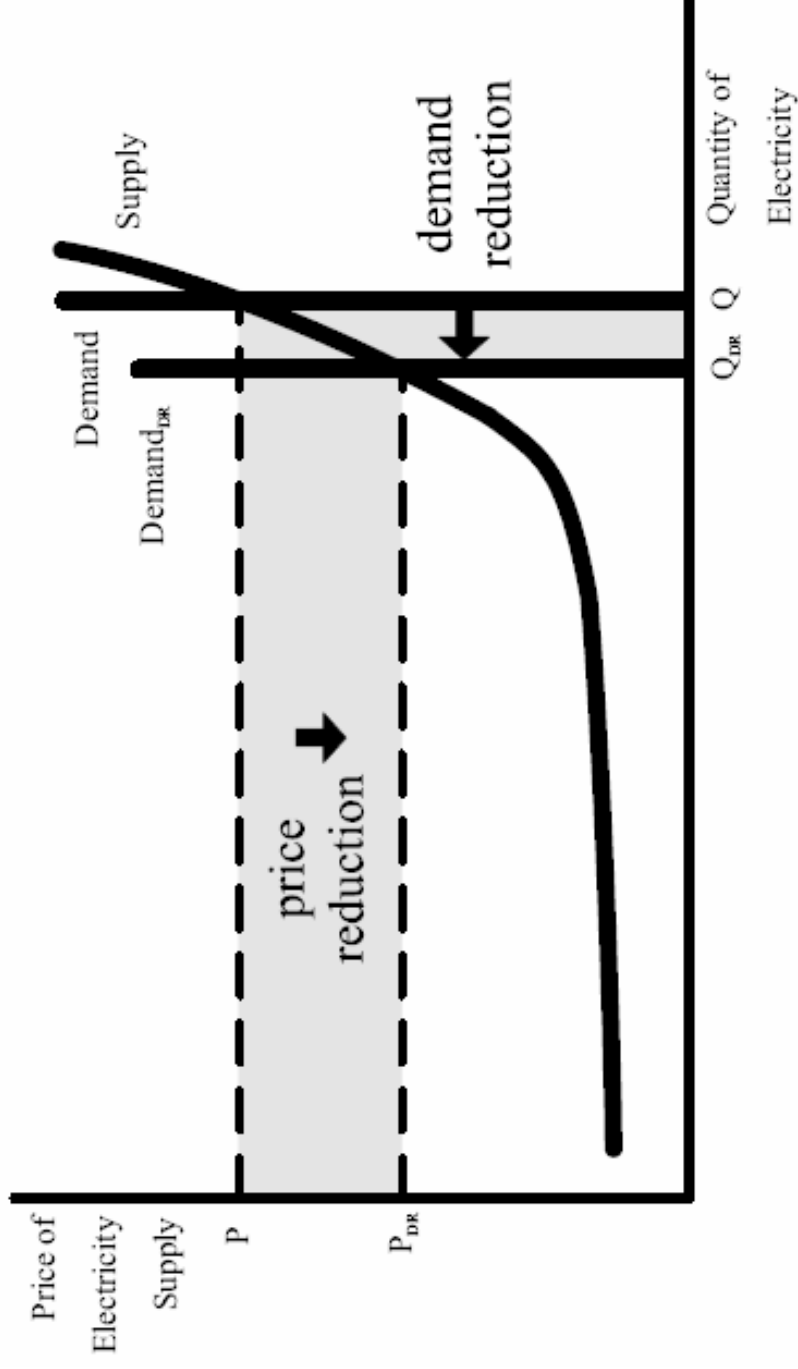
Automatic Demand Response

Generation

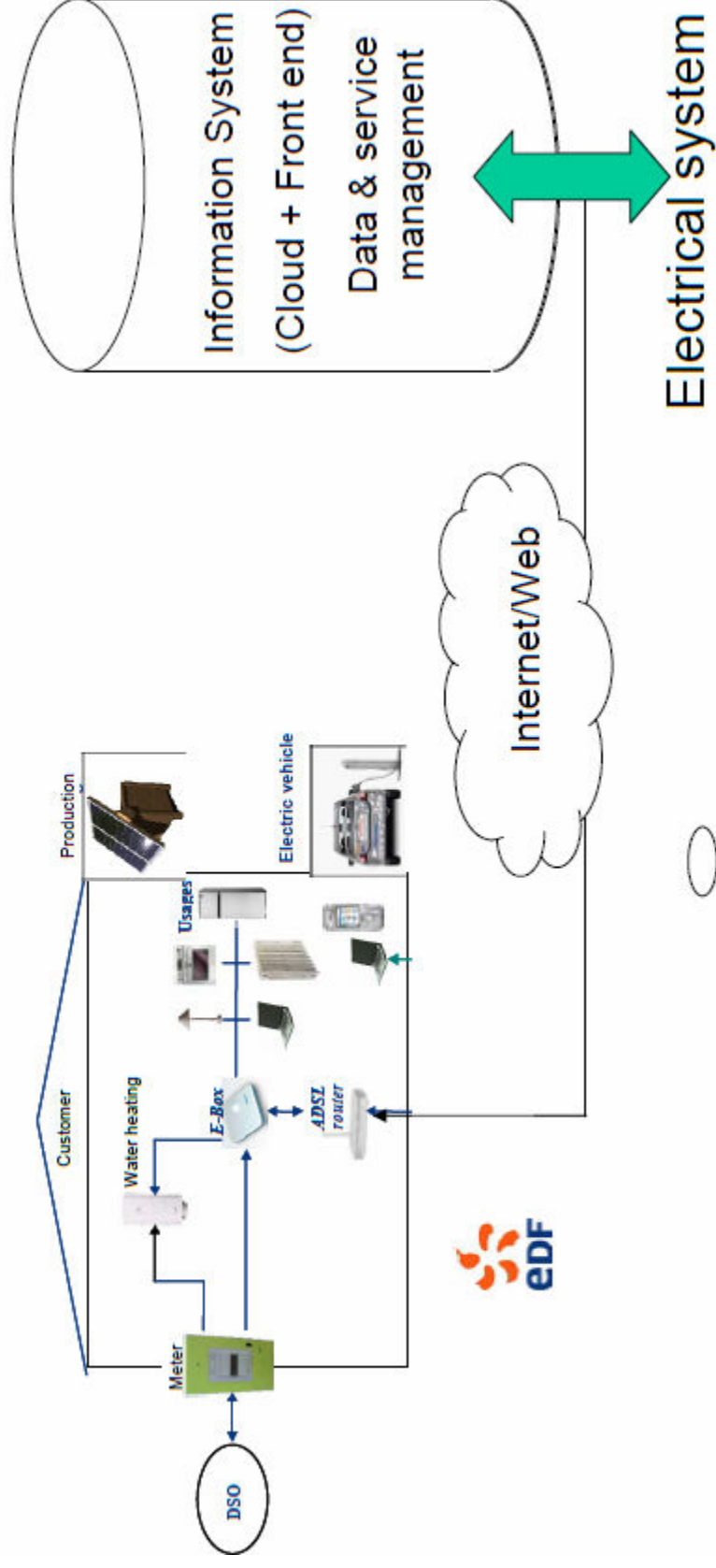
I S A

Intelligent Sensing Anywhere

Business case



Smart Meter vs. Smart Grid



Credit: Jean-Luc Dormoy's presentation at 1st Usage Scenario Meeting

Interaction with other USC

Automated Assisted

Demander response

Vehicles will be able to provide artificial intelligence to avoid the sharp price peaks to respond to sudden peaks in demand to solve a type of problem that not only affects the vehicle's energy storage capabilities, but also the storage capabilities of the energy supplier. Capable of being supplied with a large amount of energy, demand peaks are being managed by returning energy back to the grid.

The grid can offer the customer a more sustainable environment.

