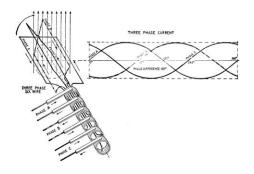
IEEE Smart Grid Vision Panel Session

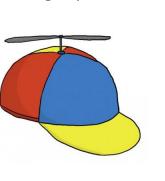
Stephen F Bush National Institute of Standards and Technology Tuesday, October 5, 2010 17:00 - 18:30 Provide power quality for the range of needs in a digital economy



Accommodate **all** generation and storage options

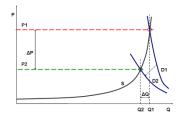
Enable new products, services, and markets

Why Metrics?

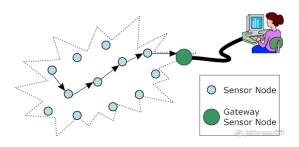




Enable active participation by consumers



Optimize asset utilization and operating efficiency



Operate resiliently against physical and cyber attack and natural disasters

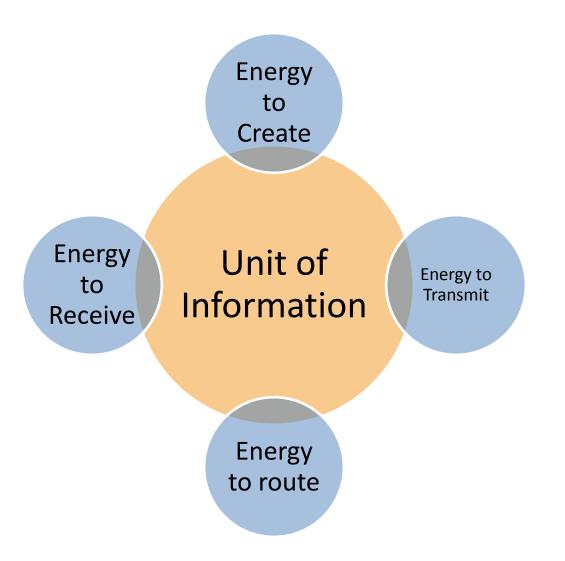
Anticipate and respond to system disturbances in a self-healing manner



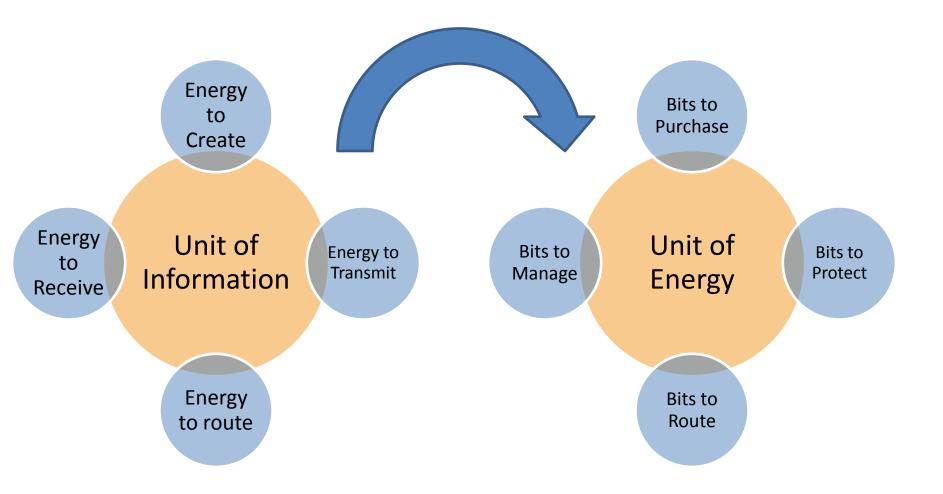
Robert Lawton

Developing correct fundamental metrics will drive success

Low Power Communication



Bits are Energy



Energy and Information

Molecule-to-molecule communication

