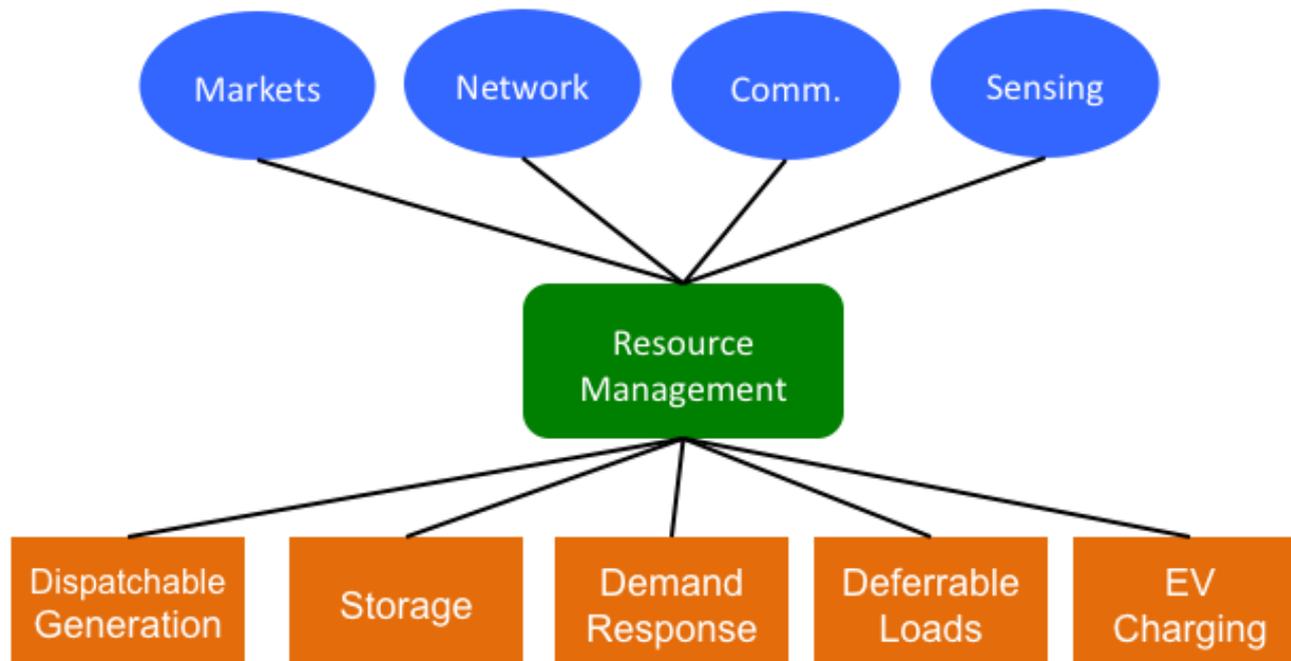


Smart Grid: Multiple Interacting Elements



Converging trends demands

Effective <i>management</i> of resources	[control]
Better <i>data analytics</i> of demand and supply	[modeling]
Improved and cost effective <i>measurements</i>	[sensing]
Design of <i>markets</i> and <i>platforms</i>	[policy & econ]

Convergence Challenge: Intelligent Periphery

How do we manage increased uncertainty?

How do we coordinate millions of distributed resources?

How do we design viable new market services and platforms?

How do we plan and value system upgrades and services?

What policy and operations changes will be required?

How can we extract value from data?

Multiple disciplines: theory+practice+systems+policy