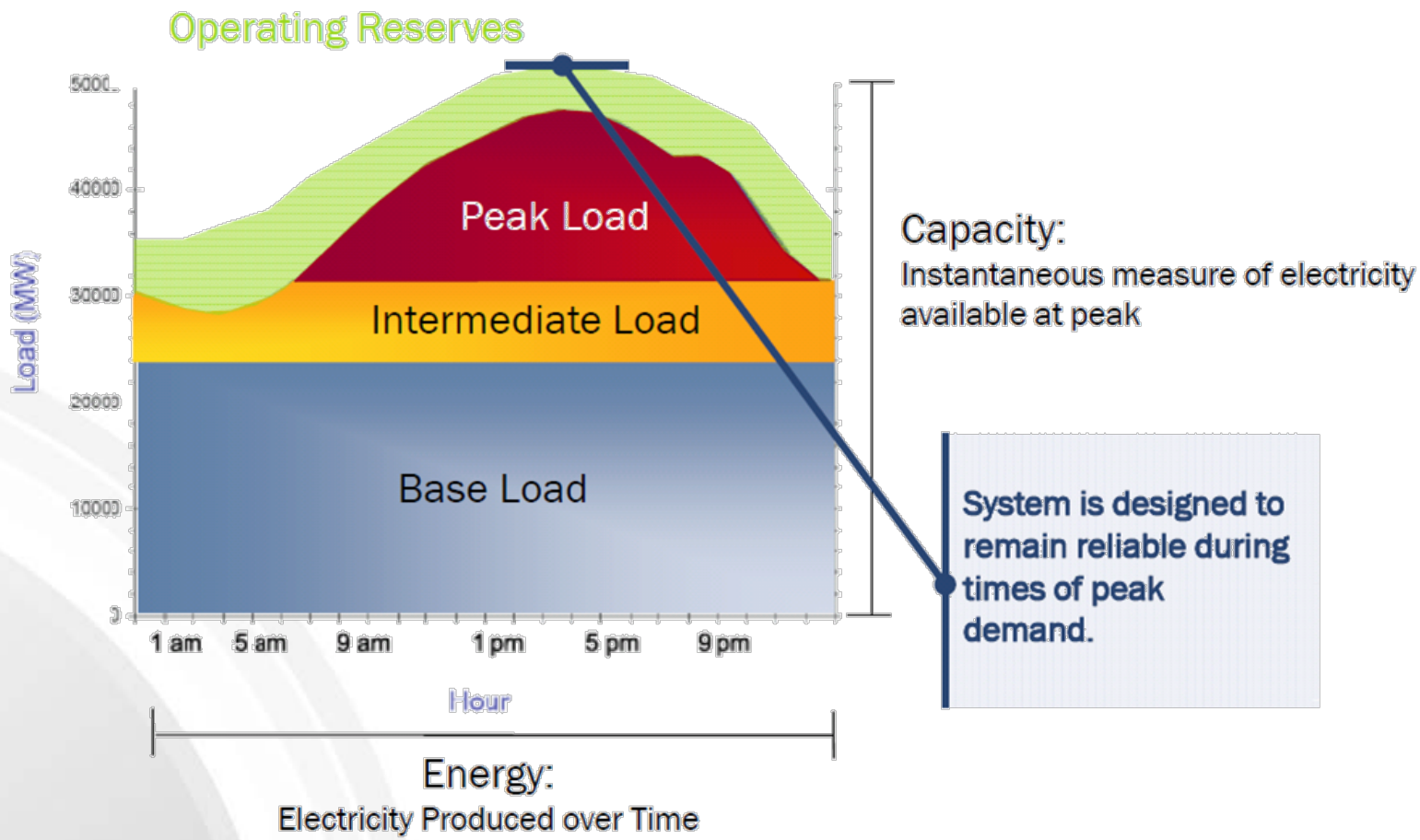
Question: What are appropriate system performance metrics?

(cost/efficiency? CO_2 emission? reliability?)

Question: What are appropriate system reliability metrics?

N-1? N-4? Quality of Service? Other?

Question: Approaches to safe & reliable reduction of operating reserves?



Question: What are market measures of system inefficiency?

- Spread between bid vs ask?
- Geographic variation in price for a single RTO?
- Price volatility?

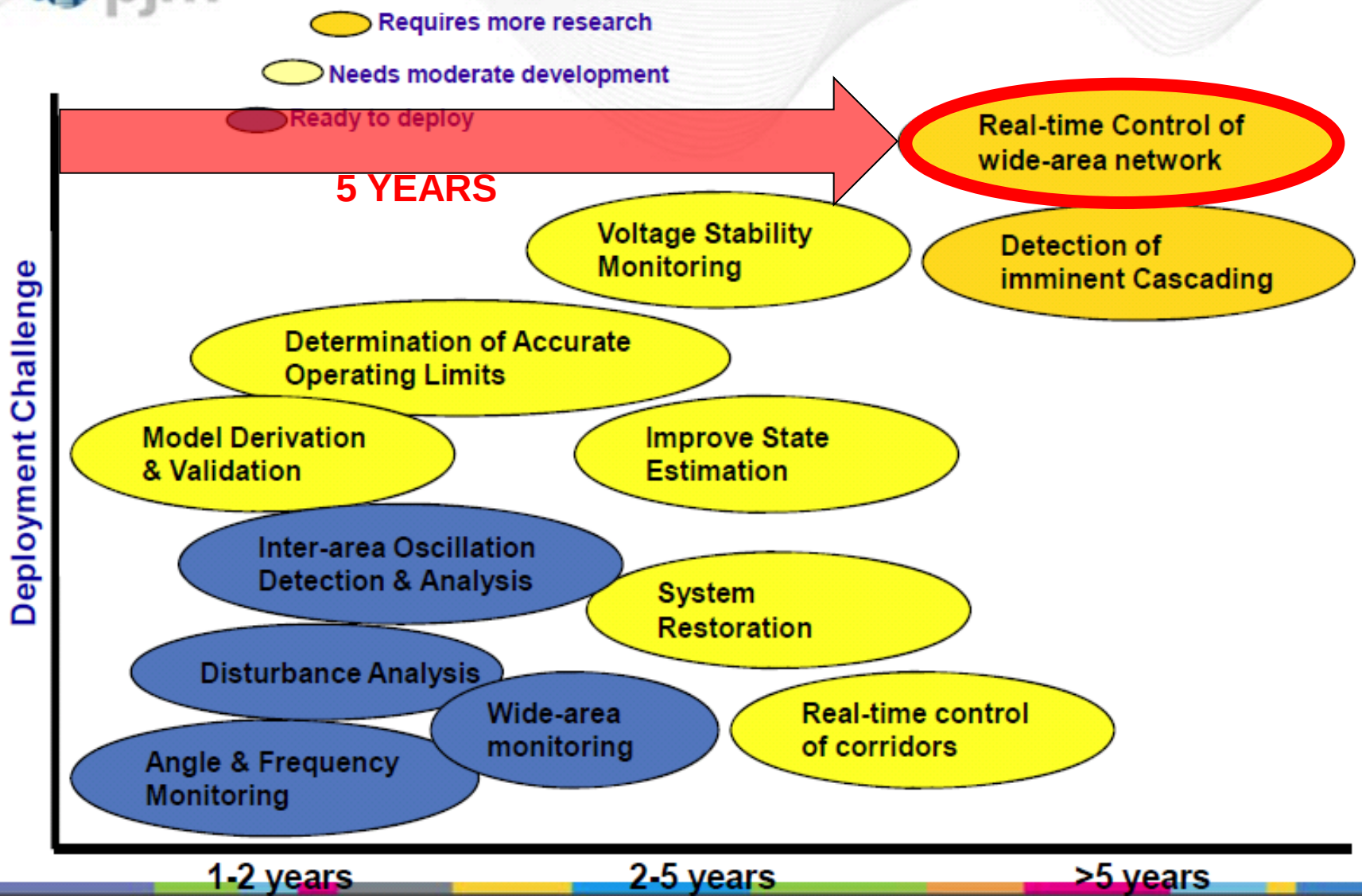
Question: If you could route electricity (actively control impedance of grid), what are the benefits?

(asset utilization? alternate control strategies? alternate market dynamics?)

Question: If you could color electricity (label power flows from generation to load), what are the benefits?

(asset utilization? alternate control strategies? alternate market dynamics?)

SynchroPhasor Applications



Question: What are the **drivers** for implementing Wide Area Control?

1.
2.

Question: What are the **challenges** for implementation of Wide Area Control?

1.
2.

Question: What are the **approaches to address these challenges** for implementation of Wide Area Control?

1.
2.

Question:

What is the State-of-the-Art for transmission system dynamic modeling?

What do these models fall short?

Question: When is a microgrid a viable proving ground for control strategies?