

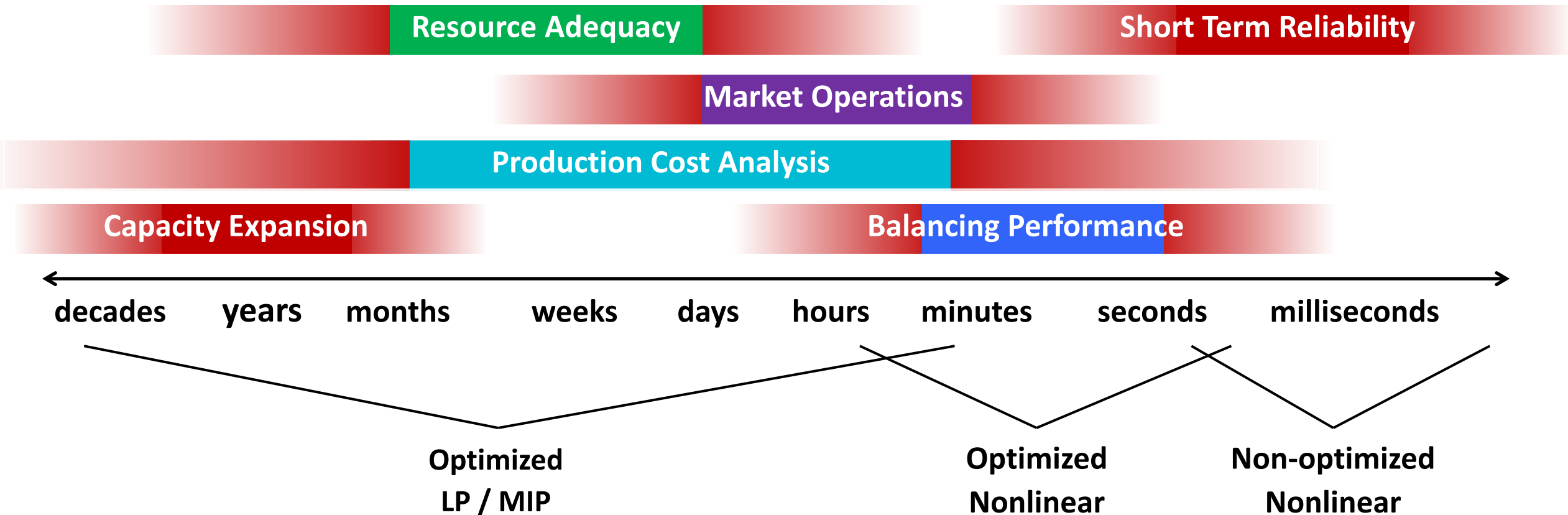


Linking Planning Processes Presented at ESIG – Mar 2023

Outline

- A view of planning processes
- Challenges with linking planning processes across tools and datasets
- Improved synchronization
- Workflow Use Case

Simulation and Decision Support of Power-Systems



Challenges

- Ensuring synchronization between two or more pieces of software
 - Interpretation of parameters
 - Internal data validation/processing for the same inputs may be different
- Ensuring consistency in datasets between multiple tools
 - Different teams work with different tools and build up models differently
- Coordinating interaction between Processes
 - Too many timeframes to perform in a single simulation
 - Consistent system representation between ResourceAdequacy > CapEx > PCM > PowerFlow
 - Requires multiple iterations

Improving Links between Planning Processes

- Single, standard data format across tools
- Moving toward tools that support multiple planning processes intrinsically
- Automation to link data between Processes
 - CapEx to PCM
 - Reliability Analysis to CapEx
 - PCM to Powerflow
 - Gas, Electric

Typical Workflow in Planning Analysis

