



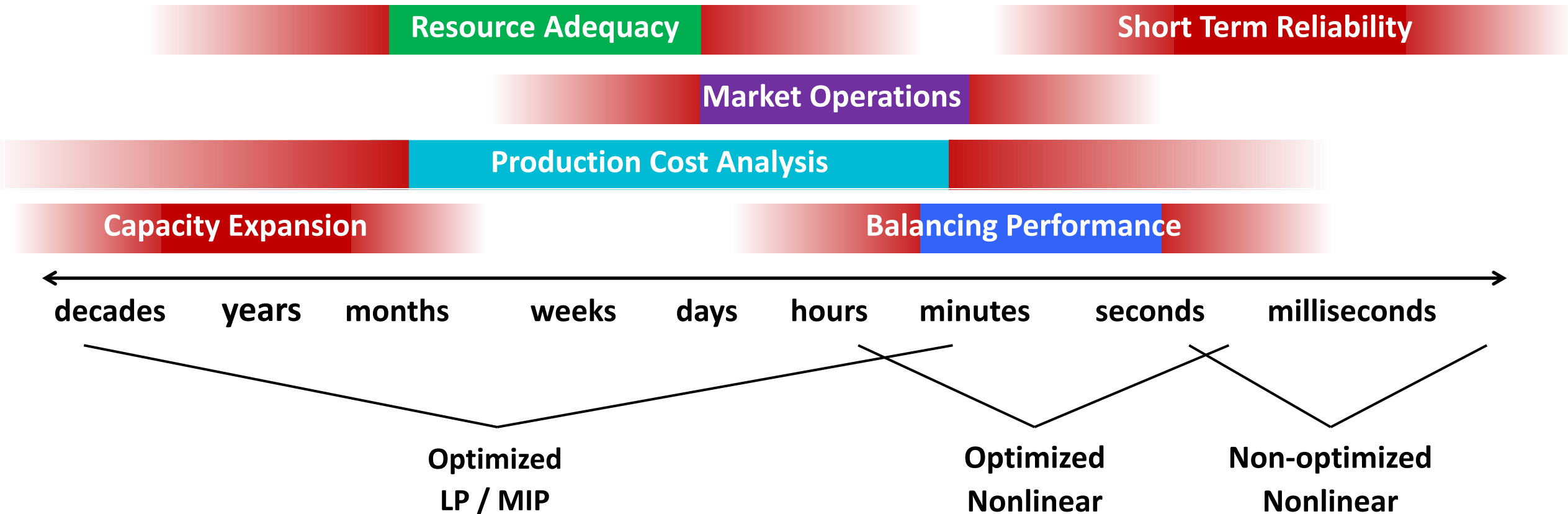
# Linking Planning Processes

## 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

