

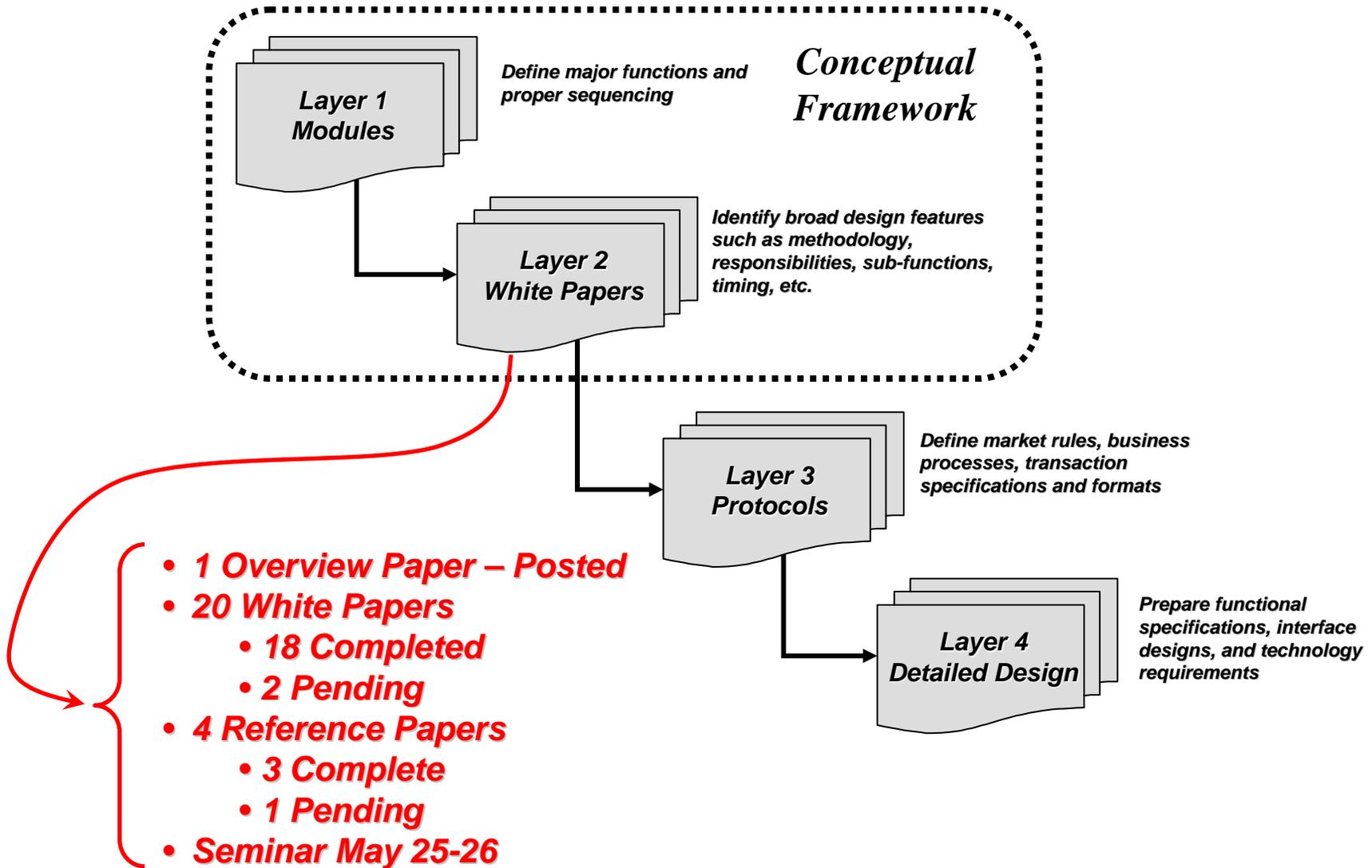


TSLG Update Report

RRG Meeting

April 28, 2005

Layered Design – Status

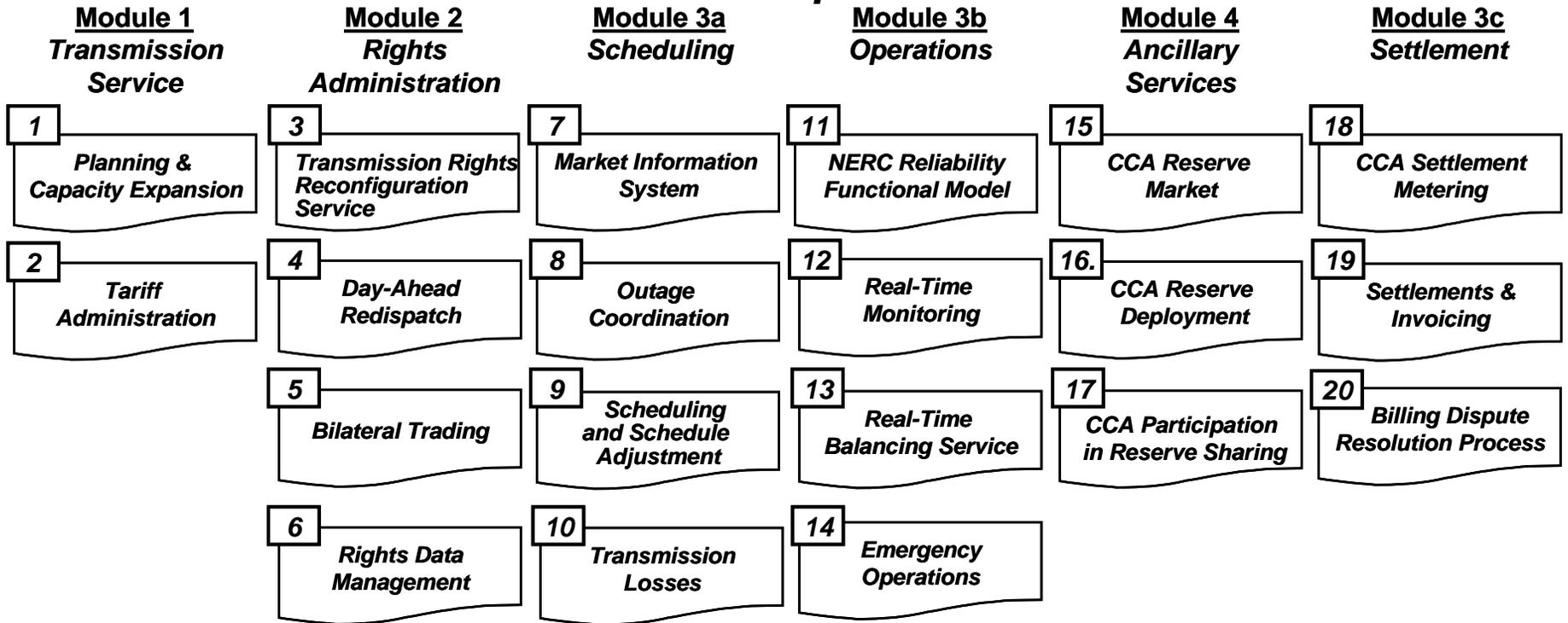




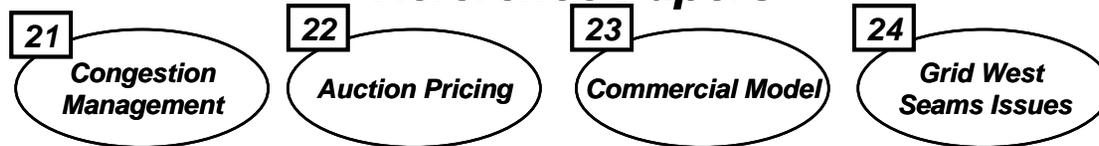
Design Summary Paper

White Paper Overview: Grid West Market & Operational Design

White Papers



Reference Papers

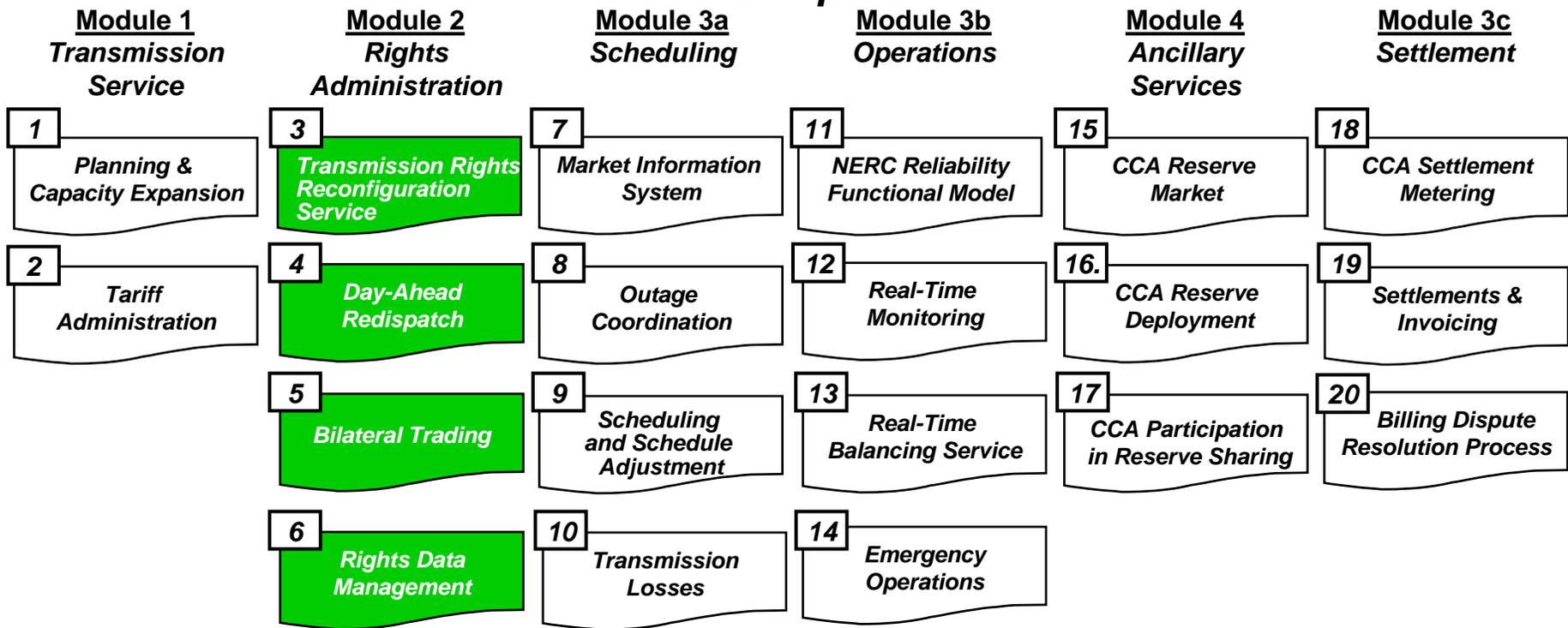




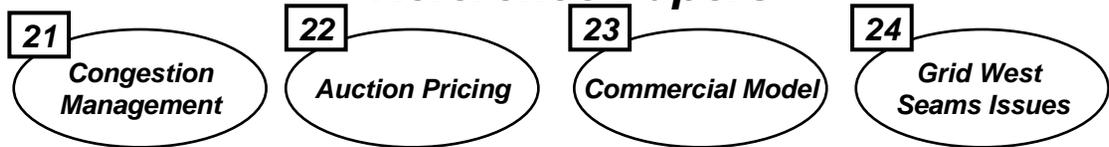
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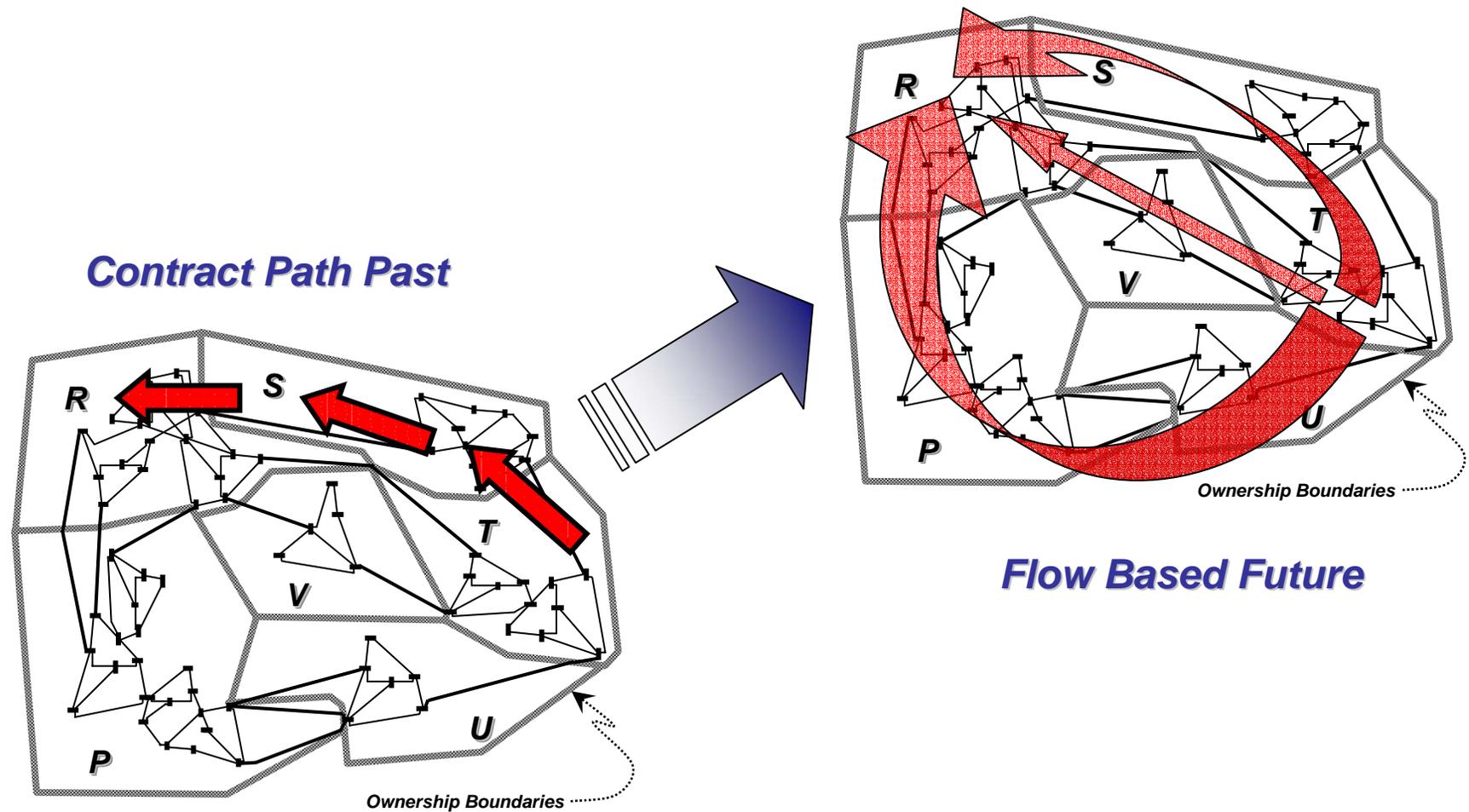
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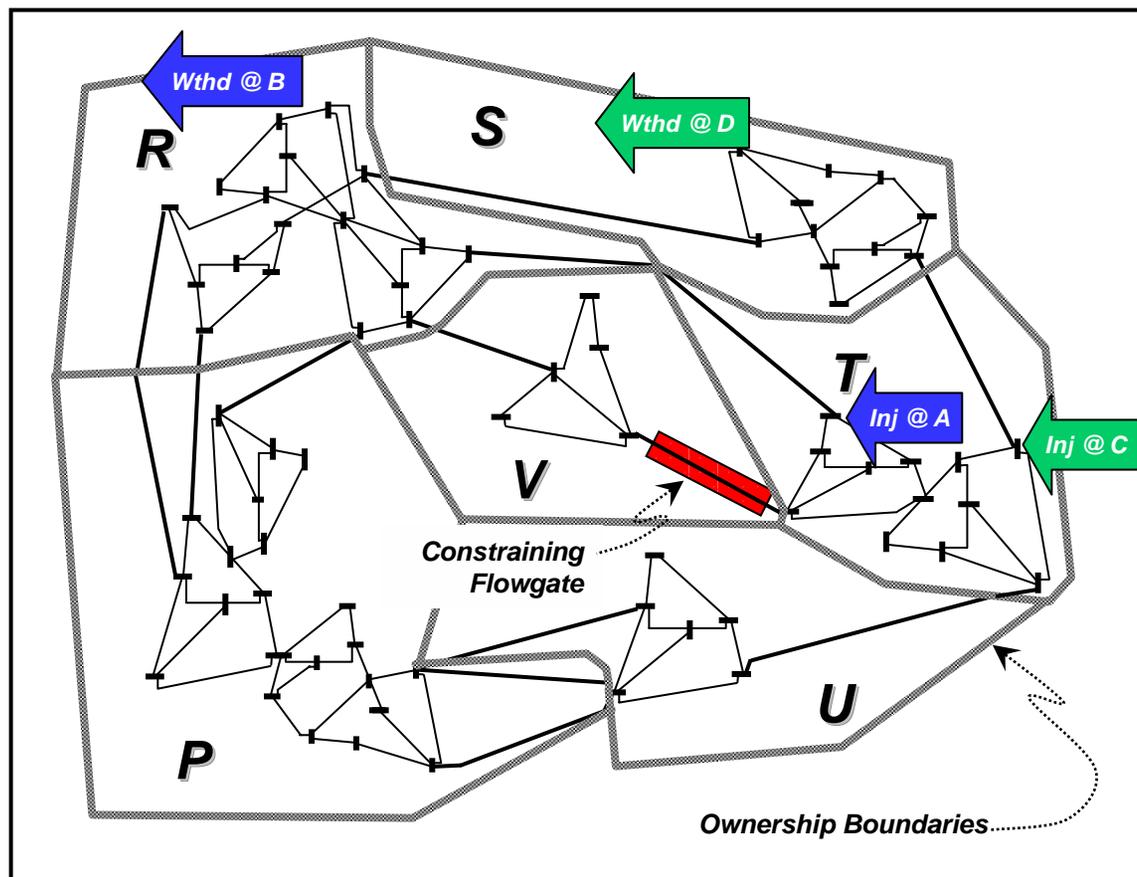
Reference Papers



Move to Flow Based Services



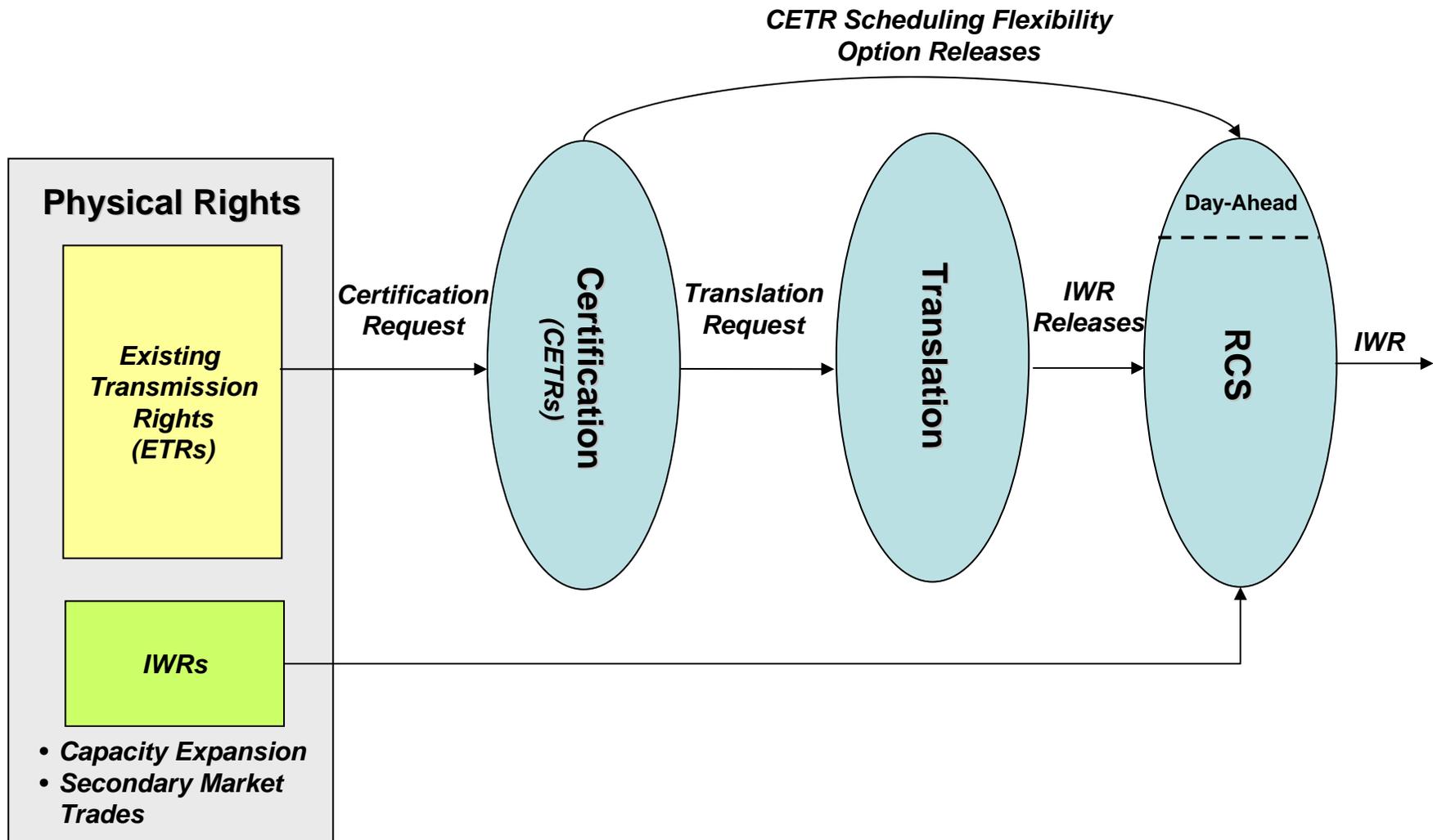
Reconfiguration Enabled



- **Observations:**

- Reconfiguration cannot be done on a bilateral basis.
- An independent party must operate the auctions and be responsible for managing capacity for the combined system.

Rights Data Management

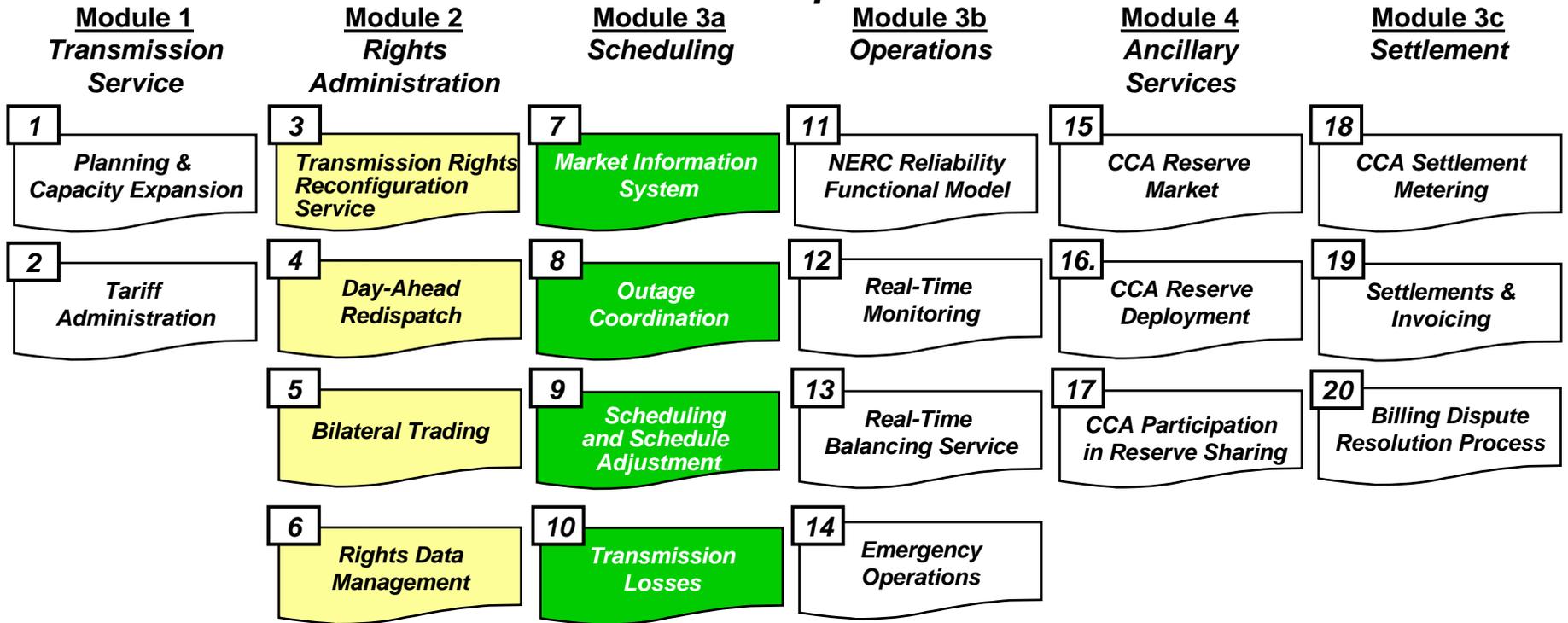




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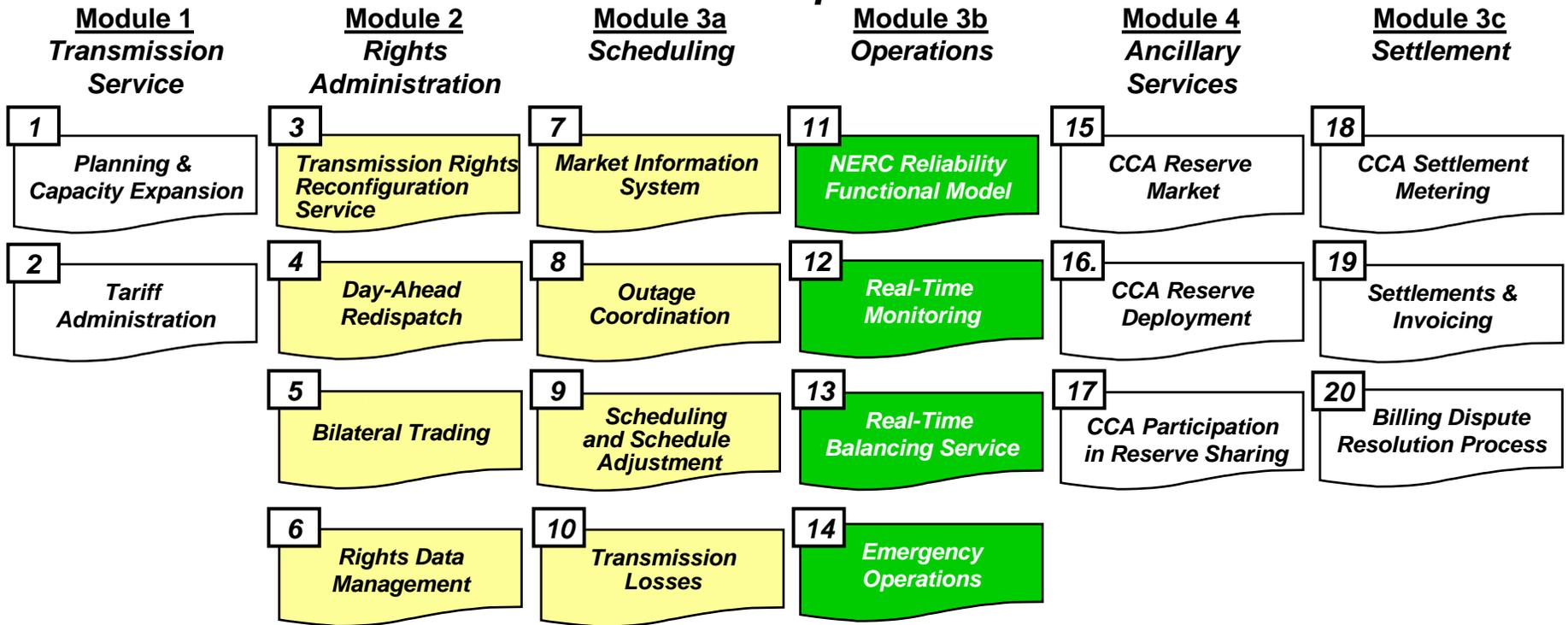




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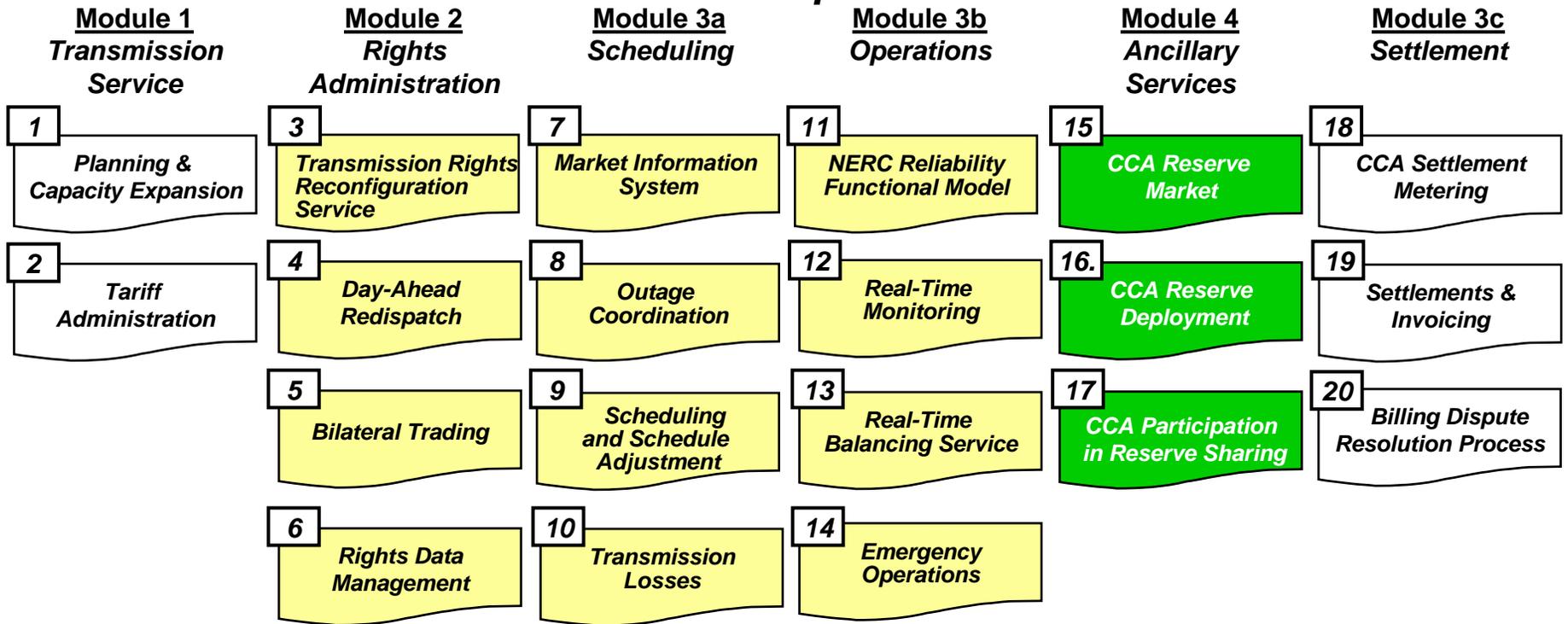




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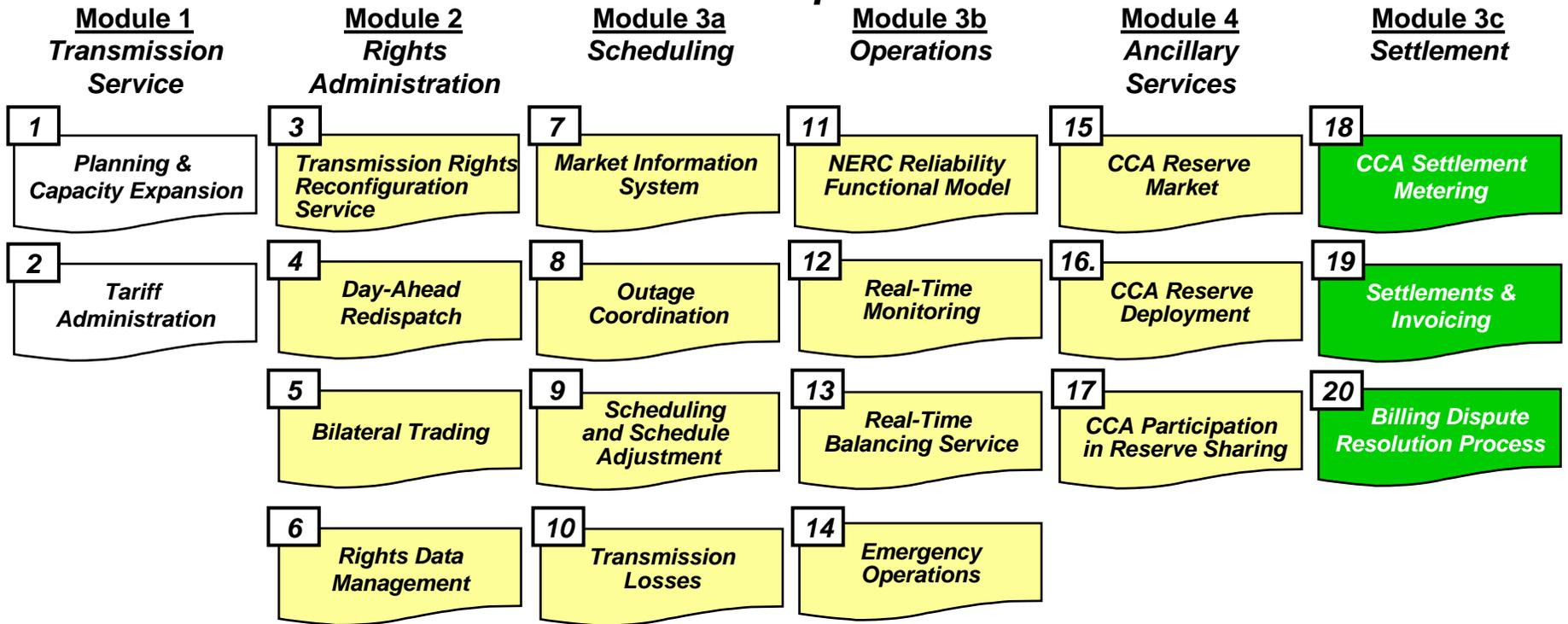




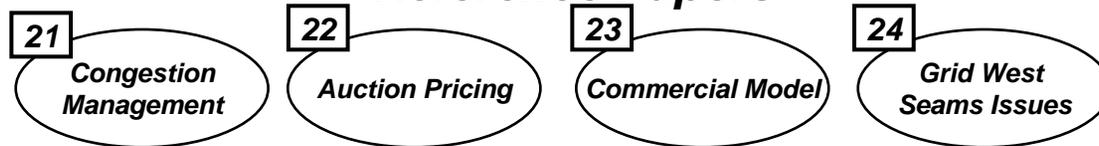
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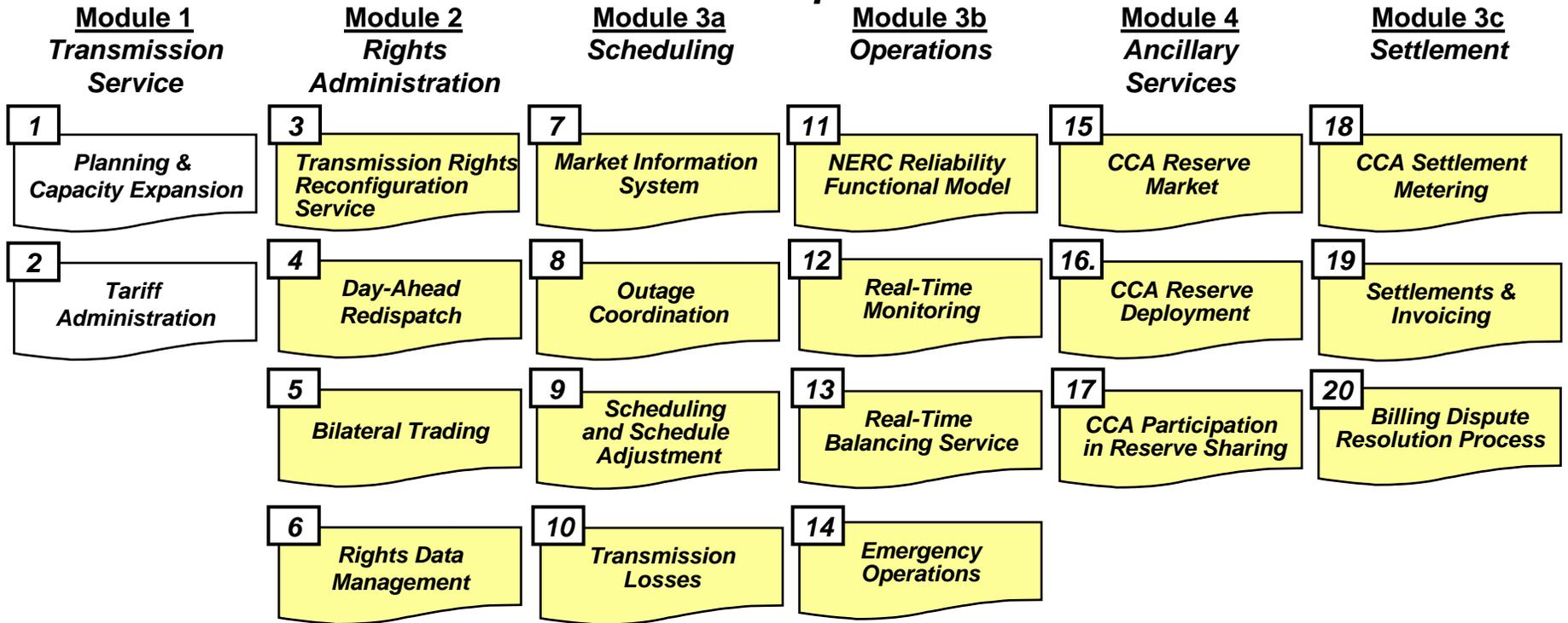




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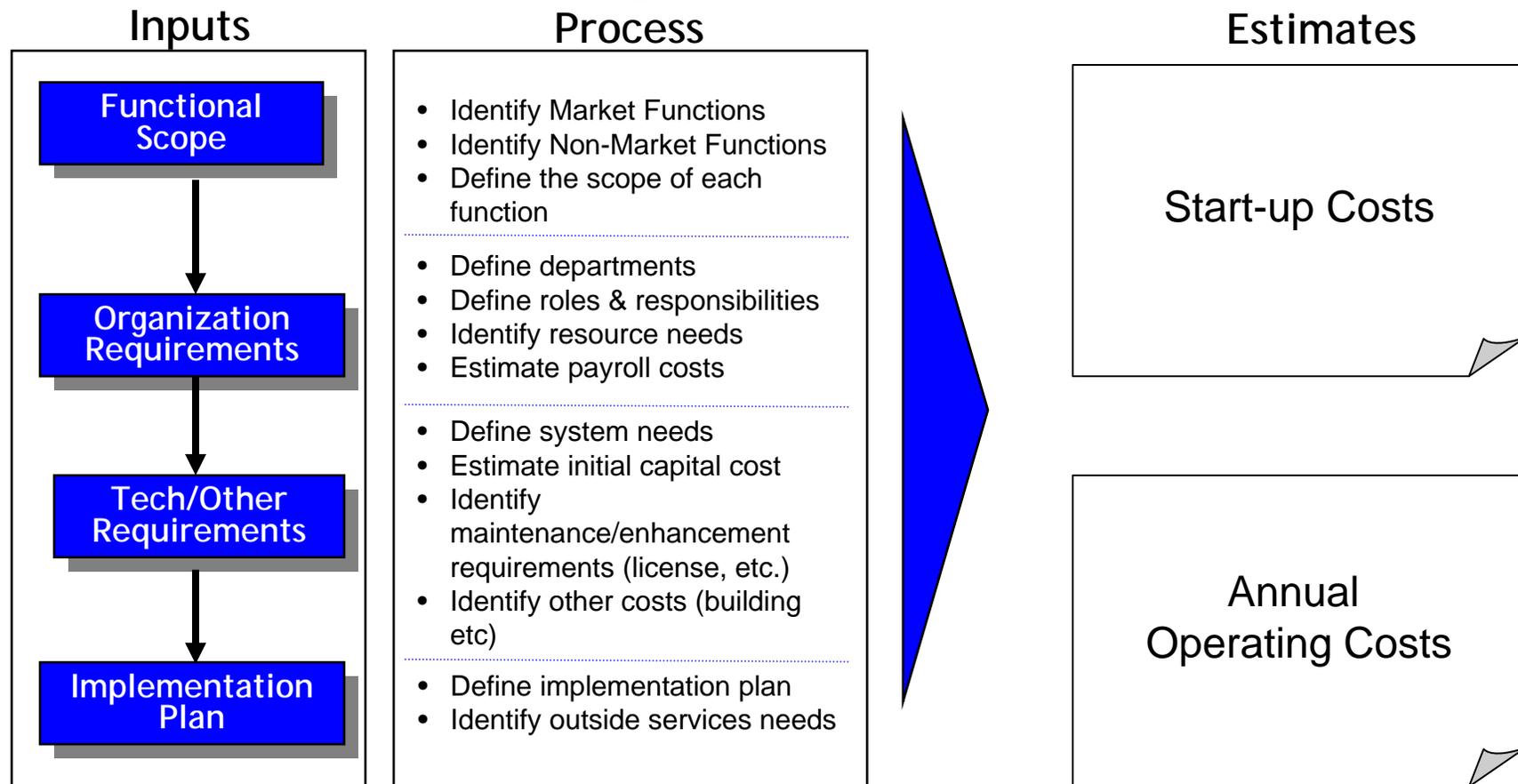
Reference Papers





Cost Estimate

A detailed bottom-up cost estimate for both start-up and annual operating costs needs to be based on the Grid West functional scope, resource, technology and implementation requirements:





Comparing Features

SMD Style RTO Features

- *Generation resource adequacy standard imposed:*
- *Centralized unit commitment.*
- *Day-ahead energy market:*
- *Centralized scheduling without a balanced schedule requirement (may be short).*
 - Transmission rights not needed to schedule.
 - Conversion of pre-existing transmission rights.
 - Explicit day-ahead congestion cost charges.
 - Obligation type FTRs.
 - Only annual and monthly FTRs auctions.
- *Full marginal losses charged ex-post.*
- *No post-day ahead schedule changes.*
- *Real-time energy market, with all deviations between day-ahead and real-time settled.*
- *Market monitoring.*

Grid West Basic Features *

- *No generation resource adequacy standard imposed:*
- *No centralized unit commitment.*
- *No day-ahead energy market.*
- *Centralized scheduling with balanced schedule requirement.*
 - Must have physical transmission rights to schedule.
 - Existing transmission rights are unchanged.
 - No explicit congestion charges.
 - New rights issued as physical IWRs.
 - Reconfiguration Service with annual, monthly, intra-monthly, and day-ahead auctions.
- *Ex-ante losses for IWRs and pre-existing rights.*
- *Post-day ahead adjustments.*
- *Real-time market for balancing service and only within control areas that voluntarily consolidate.*
- *Market monitoring.*

* *Note: Grid West changes from today underlined.*