Product Management Update
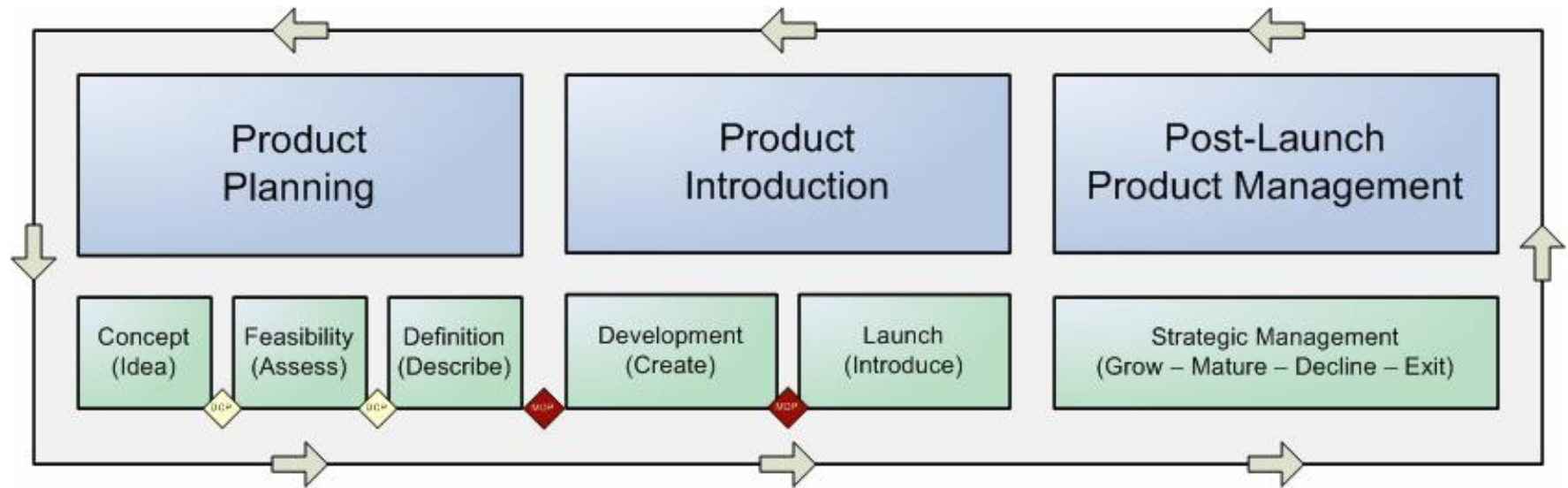
Business Issues Committee
September 21, 2005

NYISO Products

Business solutions delivered as features, functions and services that enable Market Participants to conduct business in NYISO markets

NYISO Product Portfolios

- *Energy Marketplace*
- *ICAP Marketplace*
- *TCC Marketplace*
- *Operations & Reliability*
- *Financial Services*
- *Business Intelligence*

Product Management Lifecycle Model

Product Planning	Product Introduction	Post-Launch Product Management

Concept (Idea)	Feasibility (Assess)	Definition (Describe)	Development (Create)	Launch (Introduce)	Strategic Management (Grow – Mature – Decline – Exit)

Energy Marketplace Product Portfolio

- **Markets**
  - ✓ *Energy*
    - • ***Generation***
    - • ***Load***
    - • ***Transactions***
    - • ***Virtual***
  - ✓ *Ancillary Services*
    - • ***Reserves***
    - • ***Regulation***
  - ✓ *Demand Response*
    - • ***DADRP***
    - • ***EDRP***

- **Core Delivery Mechanisms**
  - ✓ *MIS*
  - ✓ *OSS*
  - ✓ *Upload/Download*

2006 Products and Enhancements

Products & Enhancements	Concept Development	Feasibility and Design	Product Development	Product Launch
Comprehensive Bid Management	◊	◊	◊	◊
Price Error Elimination	◊	◊	◊	◊
Combined Cycle Modeling*	◊			
Intra-hour Transaction Scheduling*	◊			
Self Supply of Reserves*	◊			
Wind Forecasting System*	◊			

*These products could progress to feasibility and design depending on market drivers and resource availability.

ICAP Marketplace Product Portfolio

- **Market**
  - ✓ *Design*
  - ✓ *Auction*
  - ✓ *Manual*
  - ✓ *Documentation*

- **Core Delivery Mechanism**
  - ✓ *Currently manual processes*

2006 ICAP Product Enhancements

Product Enhancements	Concept Development	Feasibility And Design	Product Development	Product Launch
Submittal of GADS data	◊	◊	◊	Under Review
Maintain EFORd for generators	◊	◊	◊	Under Review
Request import rights				
All aspects of SCRs				

TCC Marketplace Product Portfolio

- **Market**
  - ✓ *Design*
  - ✓ *Auction*
  - ✓ *Manual*
  - ✓ *Documentation*

- **Core Delivery Mechanism**
  - ✓ *Currently manual processes*

2006 TCC Product Enhancements

Products & Enhancements	Concept Development	Design and Feasibility	Product Development	Product Launch
Automation of TCC Awards	◊	◊	◊	◊
Submit, maintain and view bids/offers	◊	◊	◊	Under Review
Track MP TCC credit requirements	◊	◊	◊	Under Review
Develop TCC inventory control database	◊	◊	◊	◊
Dynamic access to market related data and billing information				
Conduct End-State design auctions				
TCC options				
Integration with DAM to produce network model for auctions				
Perform auction revenue allocation calculations				
Perform DAM transmission facility outage cost calculations				

Operations & Reliability Product Portfolio

- **Focus**
  - ✓ *Scheduling & Dispatch*
  - ✓ *Management*
  - ✓ *Reporting*

- **Core Delivery Mechanisms**
  - ✓ *Energy Management System (EMS)*

2006 Operations & Reliability Products and Enhancements

Products & Enhancements	Concept Development	Feasibility and Design	Product Development	Product Launch
Automate outage schedule reporting	◊	◊	◊	◊
Integrate SRE/OOM applications	◊	◊	◊	◊
1385 controllable tie line			◊	◊
Other controllable tie line additions*	◊			
Data communications security	◊			

*Other tie line additions/proxy bus additions could be developed and launched if the generic CTL solution can be used.

Financial Services Product Portfolio

- **Focus**
  - ✓ *Customer Settlements*
  - ✓ *Process automation*
  - ✓ *Web-based reconciliation requests*
  - ✓ *Credit Management*
  - ✓ *Working Capital Rebalancing*
  - ✓ *Data storage and performance optimization*

- **Core Delivery Mechanisms**
  - ✓ *Billing and Accounting System*
  - ✓ *Customer Settlements Data Mart*
  - ✓ *NYISO.com*

2006 Financial Services Products and Enhancements

Products & Enhancements	Concept Development	Feasibility And Design	Product Development	Product Launch
Billing Engine Replacement	◊	◊	◊	
Automation of Voltage Support Service	◊	◊	◊	◊
Automation of Thunderstorm Alert cost reallocation	◊			
Automation of Quick-Start Reserves settlement and cost reallocation	◊			
Web-Based Reconciliation enhancements prioritization	◊			
Automated, integrated credit management system	◊			
Automation of Working Capital rebalancing process	◊	◊	◊	◊

Business Intelligence Product Portfolio

- **Focus**
  - ✓ *Data access*
  - ✓ *Analytical tools*
  - ✓ *Reports*
  - ✓ *Dashboards*

- **Core Delivery Mechanisms**
  - ✓ *Data Warehouse*
  - ✓ *NYISO.com*

2006 Business Intelligence Products and Enhancements

Products & Enhancements	Concept Development	Feasibility and Design	Product Development	Product Launch
Operational and Pricing Information Data Mart	◊	◊	◊	◊
Operational and Pricing Dashboard	◊	◊	◊	◊