

## NYISO IT Strategic Initiatives Progress Update

Business Issues Committee Meeting  
24 April 2001



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## Agenda

- *Review of the Initiative Development Process*
- *Review current and future IT architecture*
- *Review Migration Plan*
- *Discuss Immediate Deliverables*
- *Future Phases*

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# Overview of Initiative Development

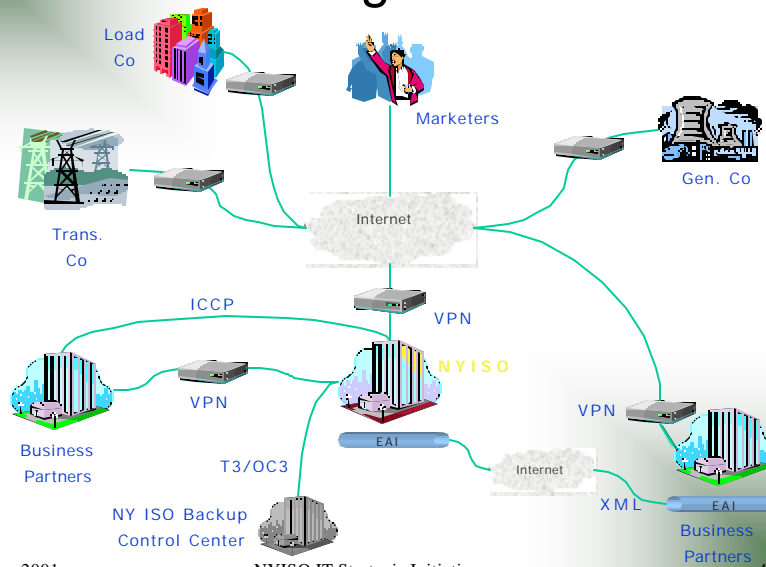
- ✓ Sapiient and NYISO completed 5 week Enterprise Architecture Strategy in Q4 2000
  - Developed the future technology solution for the NYISO & a migration plan
  - Data Accessibility was deemed number one priority focus area
  - Transform NYISO from a data provider to an information provider

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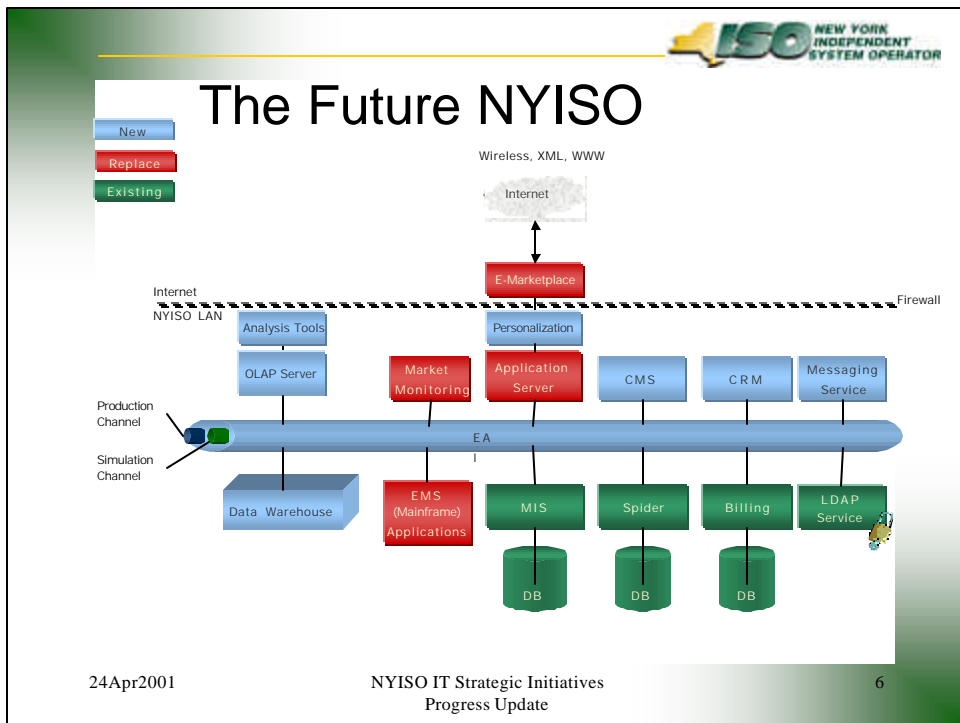
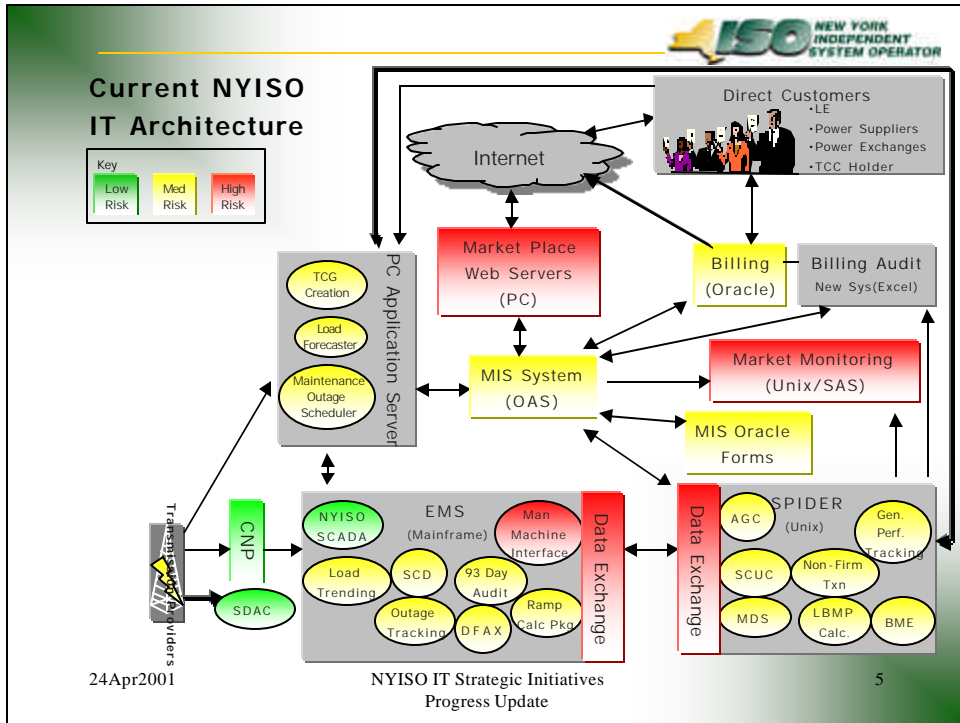
# IT Strategic Vision



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## Migration Plan

- Phased Approach
- Website Refresh - 24April01
- Webserver Replacement, Billing & MMU Solutions and EAI Phase One Deliverables - 29May2001\*
- Pilot Data Mart available for limited testing - 2Q01
- All new applications should be EAI aware/enabled

\*- dependent on impact of Summer Initiatives

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## Immediate Deliverables

- ✓ Second Quarter (currently unscheduled)
  - *PI Pilot Project*
    - Capture RT Telemetry, DAM / HAM / RT Prices
    - Ability to analyze PI data
    - Executive Summary Report
  - *Webserver Replacements*
    - NetDynamics replaced with WebLogic
- ✓ 24 April
  - *Web Refresh*
    - Updated nyiso.com website
    - This is not the result of the Mar/Apr User interviews

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## Immediate Deliverables

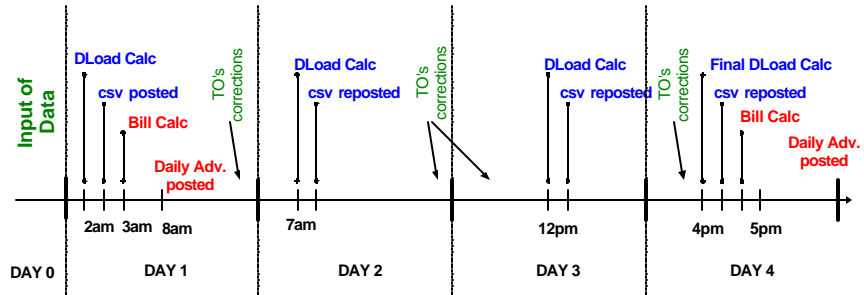
✓ 29 May

- *Billing Enhancements*
  - Pre-Billing - Enable MPs & NYISO Staff to see sub-zonal load inputs
    - Load data feed
    - Static data feed

## Load Data CSV Feed

- ✓ Data included in feed is
  - *Measurement description (name, PTID)*
  - *Date & Time*
  - *Hourly data automated and 5-minute data ad hoc*
  - *MHRs to three decimal points*
  - *Data source and quality*
- ✓ Content based on type of MP
  - *LSE - view their loads at Load Bus level*
  - *TO - view Load Bus level across an entire subzone, and their associated Tie Line and Gen unit data*
  - *Generation Owners - view their associated Gen unit data*

### 4 Day Cycle for Load and Bill Calculation



**References:**  
Days are NYISO business days

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## Static Data CSV Feed

- ✓ Includes a breakdown of the subzonal definitions from the billing system:
  - Description of point (name & PTID)
  - From and To Subzone identification
  - Metering Authority identification
  - TO associations
  - Parties allowed to view
  - Start, end and last updated dates

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## Immediate Deliverables

✓ 29 May

- *Billing Enhancements*
  - Post-Billing - Enhanced Advisory Billing Statements
    - Provide additional billing information requested by BAWG & BAWG Sub-groups
    - Provide application to convert new format to old

## Daily Advisory Statement

✓ Additional Data Available for MPs

- *Power Suppliers Data*
  - OOM, LRR, PURPA, RPU flags and timestamps
- *Ancillary Services Data*
  - Emergency Curtailment info
  - Reserve Charge - Service Cost & LOC
- *TCC Data*
  - Losses \$ and Congestion \$
- *Transmission Provider Data*
  - Transaction size, source & sink

## Immediate Deliverables

✓ 29 May

- *Market Monitoring Reports*
  - SCUC scripts - Automation of archived Day-Ahead commitment studies
  - SCUC Reports - Numerous report to be used to analyze and compare Day-Ahead commitment studies
  - Financial Drill Down - Enable determination of root cause of financial aberrations

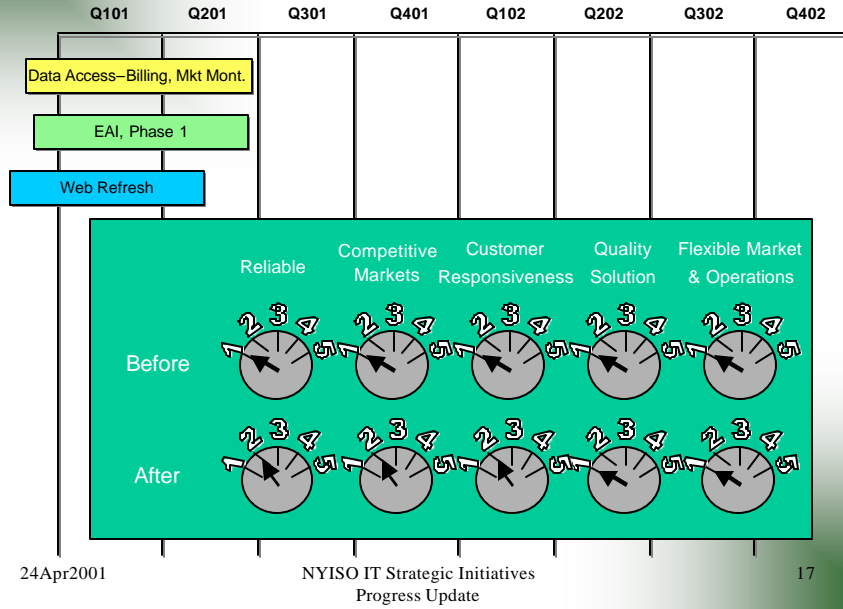
## Immediate Deliverables

✓ 29 May

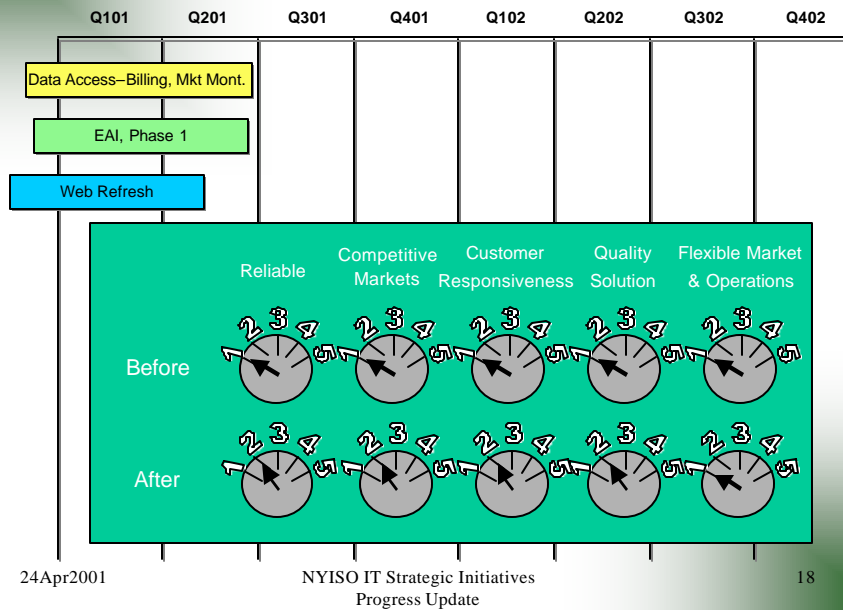
- *Enterprise Application Integration*
  - Real Time Active constraints
  - Real Time Events - Automated posting of confirmed System States, Thunder Storm Alerts, Reserve Pickup notices
  - PAR flows & External Interface Limits and Flows



## Business Metrics - Target for June 2001



## Business Metrics - Actual for June 2001



## Future Phases

- *Data Warehouse*
  - PI Pilot moved to production with additional data capturing as a DW feed
  - Development of Enterprise Data Warehouse
- *Replace Data Exchange between Mainframe Apps and Spider Apps with EAI*
- *Distribution of real-time power system model in CIM*
- *Real-time data for testing and simulation environments*
- *Inter-ISO messaging*
- *Pro-active messaging triggered by data trends*
- *Content Management System*

## Questions??