SPATIAL

April 2010

Oracle Spatial User Conference

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April 29, 2010

Hyatt Regency Phoenix

Phoenix, Arizona USA

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Integrating MapViewer with Primavera Project Management and Business Intelligence Applications

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Introduction to Oracle Primavera P6

- Primavera P6 Enterprise Project Portfolio Management is an integrated project portfolio management (PPM) solution comprising role-specific functionality to satisfy each team member's needs, responsibilities, and skills.
- Provides a single solution for managing projects of any size, adapts to various levels of complexities within a project, and intelligently scales to meet the needs of various roles.

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Oracle Primavera P6 Benefits

- Plan, schedule, and control large-scale programs and individual projects
- Select the right strategic mix of projects
- Balance resource capacity
- Allocate best resources and track progress
- Monitor and visualize project performance versus plan
- Foster team collaboration
- Integrate with financial management and human capital management systems

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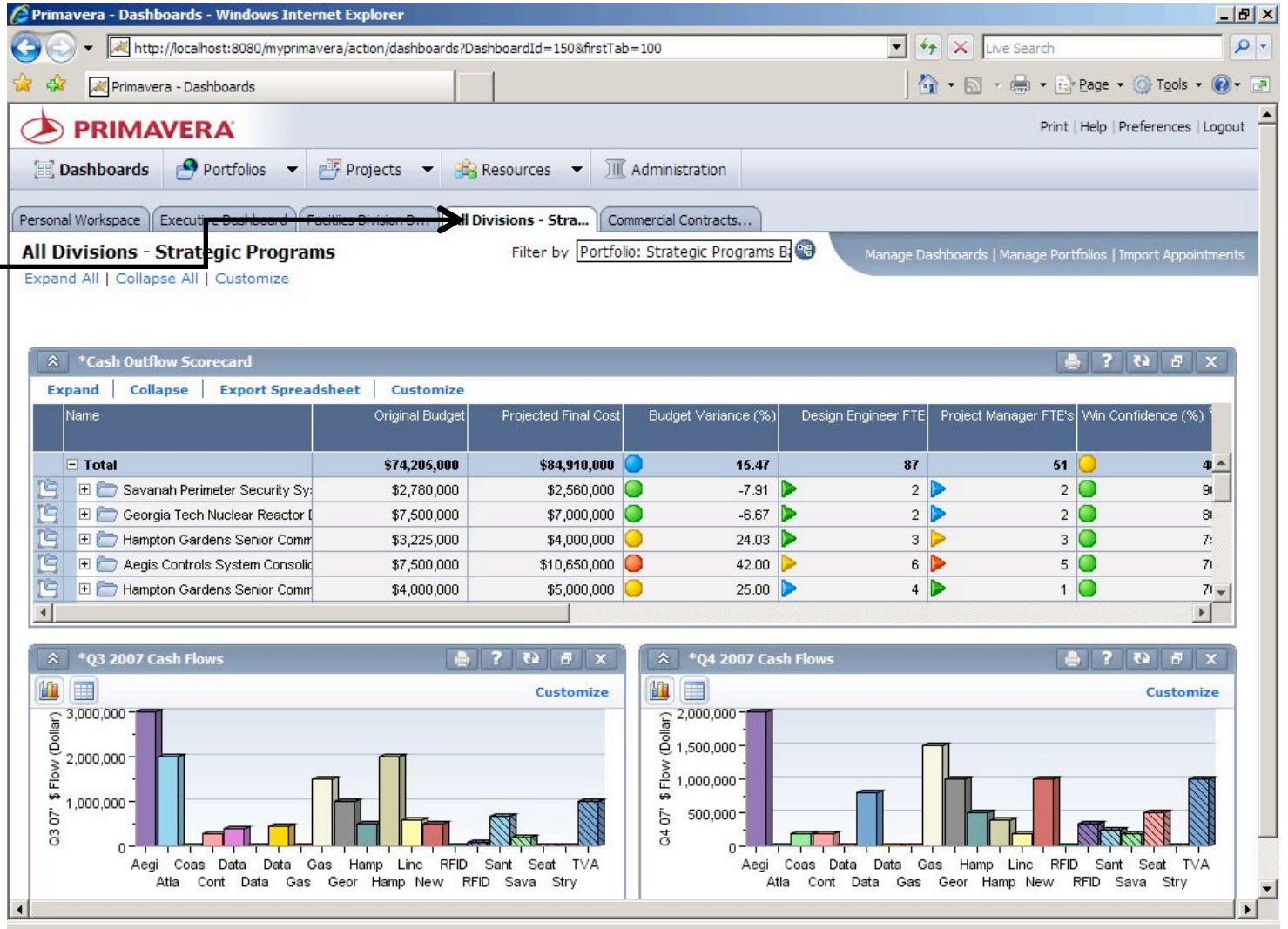
Compare and contrast project performance across division or enterprise



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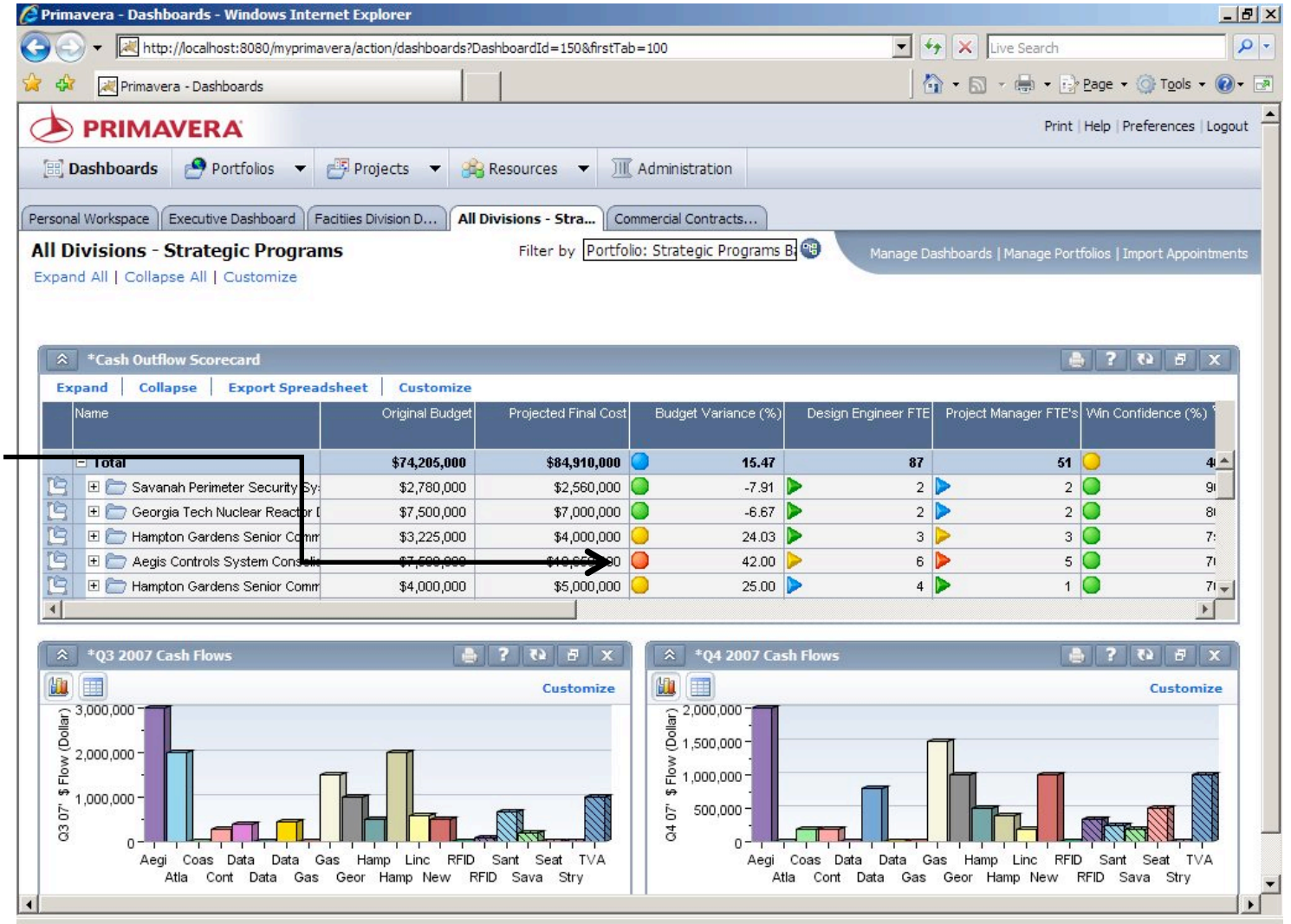
Anticipate issues, cost or schedule exceedance across your business



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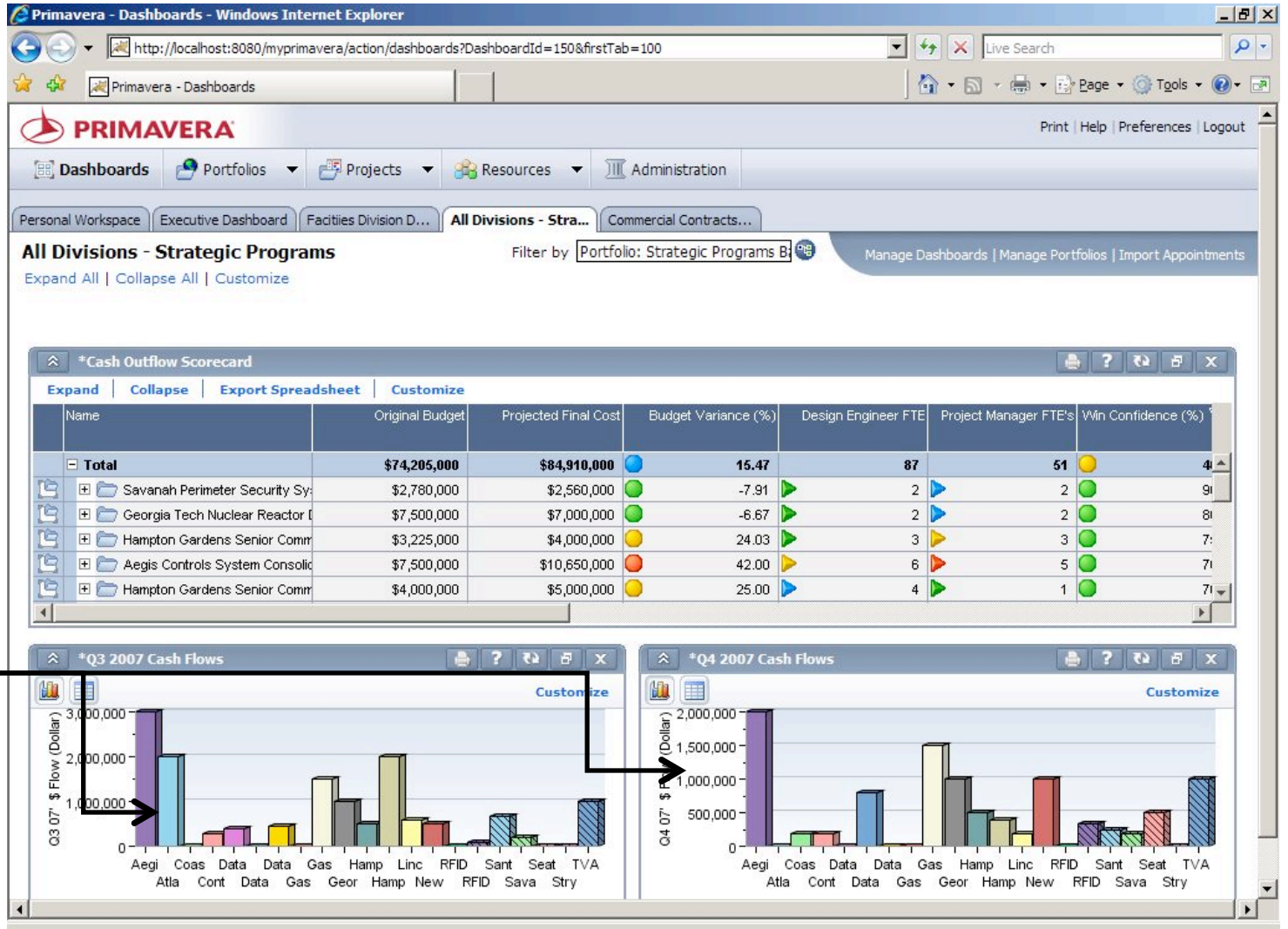
Track Project-, Division-, or Enterprise-cash flow



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Using Primavera P6 and Oracle Spatial Together

- Oracle Spatial — option for Oracle Database 11*g*, Enterprise Edition
  - MapViewer, is the visualization component
- P6 activity codes and user defined fields can be used for out of the box integration with Spatial
- Easily create real time geographically oriented mash-ups showing project progress

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Using Primavera P6 and Oracle Spatial Together

- Out of the box prototype linking of P6 activity codes and geographic indicators via Web Services APIs
  - City, State
  - Latitude/Longitude
  - Mile markers
- Built using custom portlets feature in P6 and Oracle Locator pack for Oracle database

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ORACLE PRIMAVERA

DEMONSTRATION

MapViewer and P6 Integrated

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Implementing P6-Spatial Integration

- Key components:
  - Oracle Spatial
  - MapViewer and MapBuilder
  - P6 version 7.0 or greater EPPM
  - P6 Web Services

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Implementing P6-Spatial Integration

- Key assumptions:
  - P6 project has been tagged with project and or activity codes
    - Codes are a method by which projects or activities within projects can tagged with a certain attribute.
    - In this case we are tagging projects or activities with a geospatial attribute.
  - Codes in P6 are associated with some geospatial datatype (city/state, latitude/longitude, etc.)

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Implementing P6-Spatial Integration

- Step 1: Create a Base Map
  - mapView.display();

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Implementing P6-Spatial Integration

- Step 2: Define Dynamic Styling
  - Create 2 markers, a green highway marker and a red highway marker.
  - Create a numeric range bucket series, values below .5 will be rendered using the red marker, otherwise use the green marker.

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Implementing P6-Spatial Integration

- Step 3: Create a Theme Based Feature of Interest
  - Create theme based on a query that loads geometries and mile points from a table called route_mile_markers
  - Add the styles created to this theme (highway markers and buckets)

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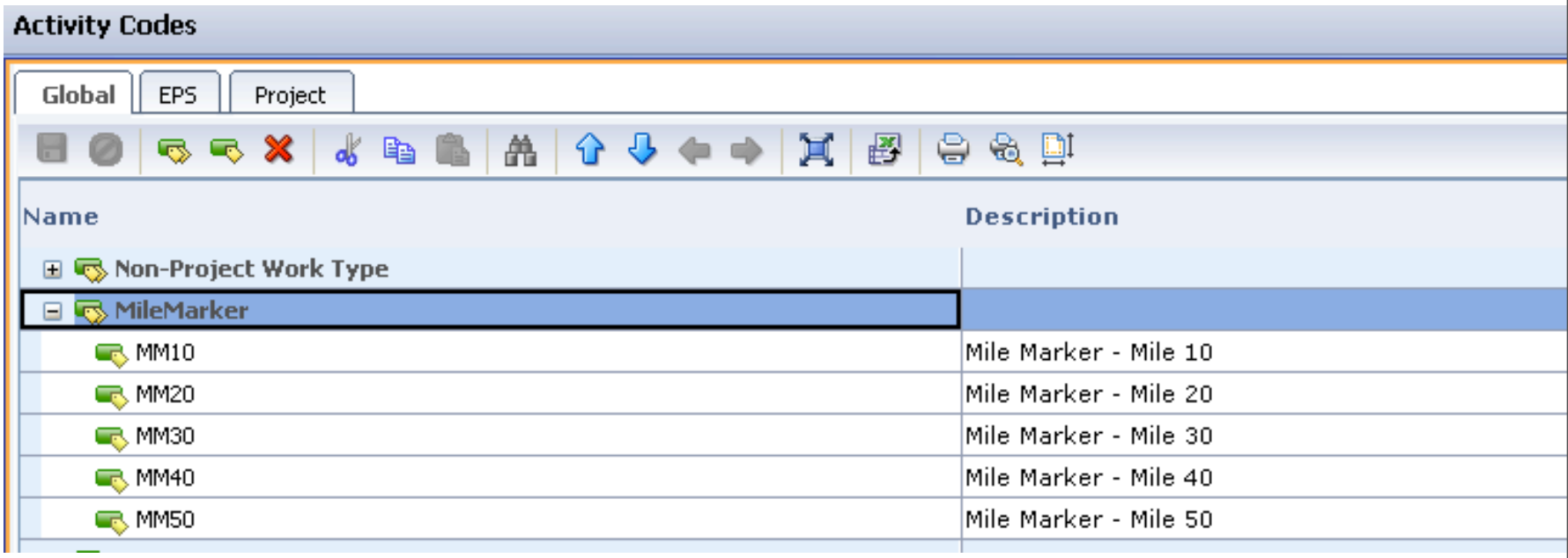
Implementing P6-Spatial Integration

- Step 4: Setup P6 Data
  - Query P6 Web Services to extract data associated with certain project codes that have a geometric datatype



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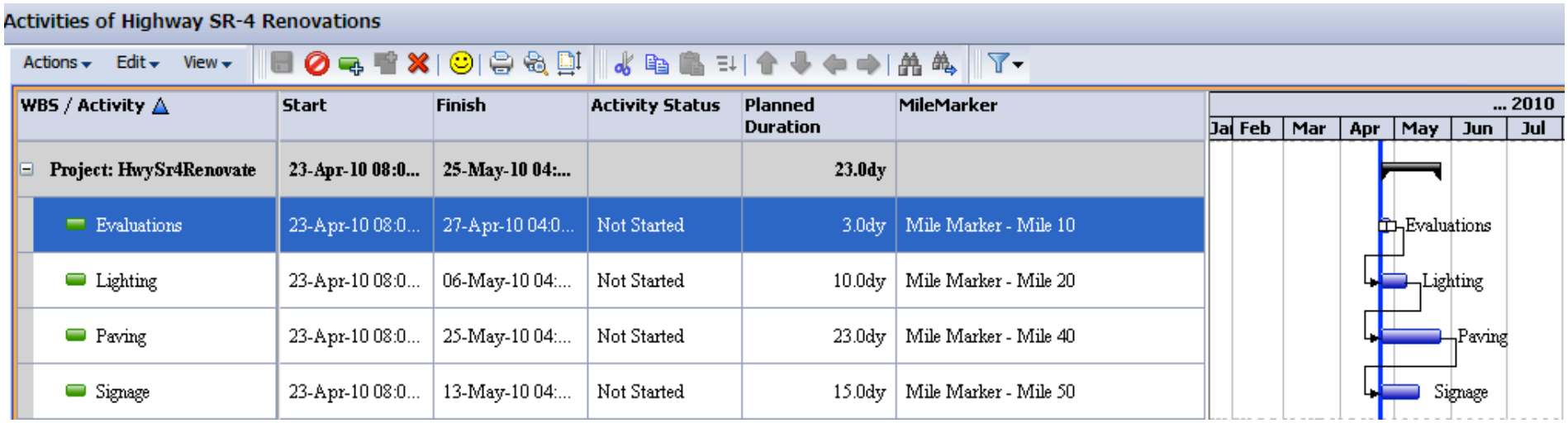
Implementing P6-Spatial Integration

- Step 4 continued: Setup P6 Data
  - Query P6 Web Services to extract data associated with certain project codes that have a geometric datatype
  - Query P6 using web services and return the content in NSDP XML format



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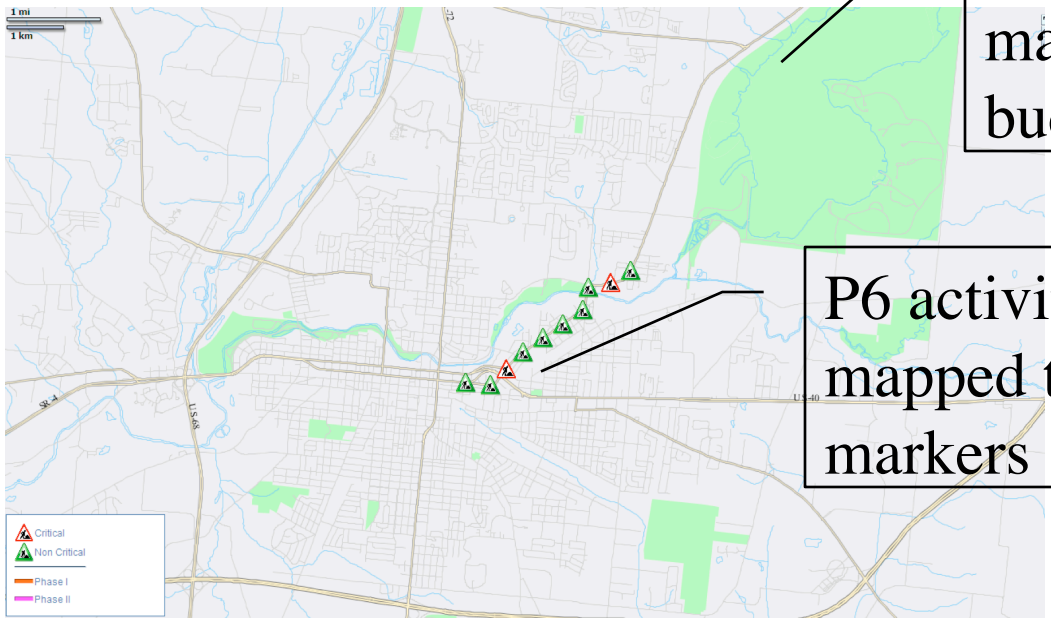
Implementing P6-Spatial Integration

- Step 5: Add NSDP Join to P6 Data for Thematic Mapping
  - // map the P6 data to points or buckets on the MapViewer component



P6 activities mapped to buckets

P6 activities mapped to mile markers

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Q&A