

# Scheduling / Project Management System (SPMS)



Indiana Department of Transportation  
and  
Info Tech, Inc.



# SPMS Project Goals



- **Develop a *full lifecycle Project Management Information System* driven off a *centralized, enterprise-level database***
- **Improve the project scheduling and planning activities of a transportation agency from project concept (pre-proposal) to project closure (open to traffic), including support for historical analyses**
- **Complement the existing functionality of Trns•port CES, PES, LAS, CAS, DSS, and SiteManager using the same multi-tier, client/server technology and guidelines accepted by AASHTO**
- **Interface with other agency systems to create a fully integrated Enterprise System including Geographical Information, Right-of-Way, and off-the-shelf Project Tools**



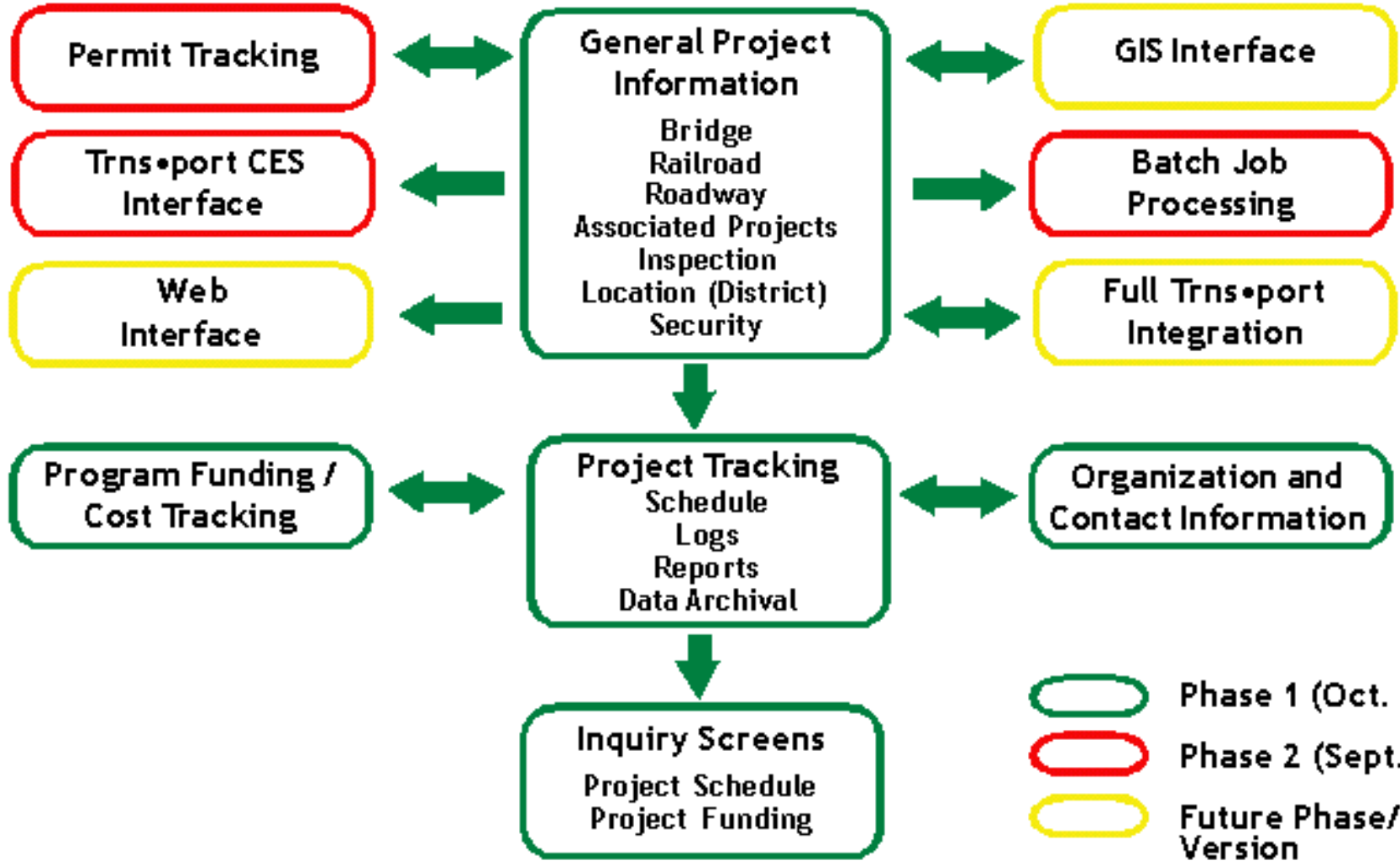
# Status of SPMS Development



- SPMS 1.0a in production at Indiana DOT since October 2000
- Proposal to integrate SPMS with Trns•port accepted by AASHTO and pending solicitation of funds
- SPMS 2.0a in production at Indiana DOT September 2002
- Interested agencies may implement and license SPMS prior to availability of 'genericized' Trns•port version
  - *Installation, training, and customization fees will vary according to each agency's specific requirements*



# SPMS Components



- Phase 1 (Oct. 2000)
- Phase 2 (Sept. 2002)
- Future Phase/Generic Version



# SPMS Core Functionality



- **Project Management**
- **Project Scheduling/Tracking**
- **Project Estimate/Cost Tracking**
- **Organization Management**
- **Program Information**



# Project Management



- **General information (location, key dates, federal, division and district data)**
- **Status information (from concept of a project through post construction)**
- **National Bridge Inventory (NBI)**
- **State route inventory data**
- **Coordination of Utility, Railroad, and Vendor activities**
- **Ability to group and associate projects**



# Project Scheduling/Tracking



- **Based on schedule templates for different types of projects**
- Tracks activity and sub-activity dates, durations, resources, logs, status
- **Allows activity level security**
- Predecessor and successor relationship adjustment
- **Critical path calculations**



# Project Estimate/Cost Tracking



- **Tracks Cost Estimates**
  - Throughout estimation stages (e.g., design, environmental assessment)
  - Throughout project phases (e.g., ROW, utility, construction)
- **Tracks Funding**
  - by funding program and amount
  - by fiscal year
  - by funding priority and associated appropriation codes
- **Tracks Actual Costs**
  - voucher/purchase orders
  - direct expenditures



# Organization Management



- **Resource Pool for Project and Activity assignments**
  - e.g., **Consultants, Utility Companies, Government Agencies**
- **Information on a position basis**
  - e.g., **name, title, primary address, contact numbers, and position**



# Program Information



- **Maintains Funding Programs by**
  - Federal
  - State
  - Local
  - Joint
  
- **Maintains Funding Amounts by**
  - Fiscal Year
  - Program
  - Appropriation Code



# SPMS 2.0a Enhancements



- **New Functionality**
  - Enhanced Scheduling and Management
  - Permit Tracking
  - One-Way Interface to Trns•port CES
  - Batch Job Processing
- **Trns•port Architectural Components**
  - Report Template Facility (RTF) and Customizable Reports
  - OLE/COM Interface Infrastructure for future Microsoft Project and GIS Interface
  - Distributed Processing Services (DPS) and Batch Processing



# Technical Specifications



- **Object-oriented, client/server application using a multi-tier architecture**
- **Currently installed at INDOT using:**
  - Windows 2000 Oracle 8i database server
  - Windows 2000 application server
  - Windows 98/NT/2000 client operating systems



# Future Development Goals



- **Complete the Trns•port Integration**
- **Fully genericize for Multi-State Use**
- **Interface with commercial project scheduling tools**
  - Microsoft Project
  - Primavera
  - Etc.
- **Add Geographic Information System (GIS) interface – ESRI Arc\***
- **Add Web-based functions**



# SPMS 2.0a Demonstration



## Software Demonstration



# SPMS Contacts



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