Integrated Corridor Management

Multi-Modal Perspective
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NE Illinois Region

- 6 counties, 270 municipalities
- 3,700 square miles
- 24,000 miles of highways, tollways, & arterials
- 7 heavy rail routes
- 152 city bus routes
- 12 commuter rail lines
- 233 suburban bus routes
- 2 million rides/weekday
Institutional Guidance

Gary-Chicago-Milwaukee ITS Priority Corridor

NE Illinois Regional Architecture

NE Illinois ITS Deployment Plan Update

Regional Transit ITS Plan
Integrated Corridor Management

- Alternate Route
- Transit Management
- Incident Ahead
- Traffic Management
- Emergency Services
Illinois Transit Hub

**DATA INPUT SOURCES**

- Bus Locations
  - Data Generation
  - Route Prediction
  - Field Demonstration
  - Full Scale Deployment
  - BusInfo Project

- Train Locations
  - Field Demonstration
  - Infrastructure Improvement
  - Full Scale Deployment
  - Active Train Station Signs Project (ATSS)

- Parking Spaces
  - Design
  - Field Demonstration
  - Full Scale Deployment
  - Parking Management Guidance System (PMGS)

**STAGE OF DEVELOPMENT**

- **Bus Locations**
  - Illinois Hub/Gateway TIS
  - RTA Travel Information Center
  - Illinois Hub Transit Hub

- **Train Locations**
  - Illinois Hub Transit Hub
  - RTA Travel Information Center

- **Parking Spaces**
  - Illinois Hub Transit Hub
  - RTA Travel Information Center

**INPUT OF DATA TO THE HUB**

- Output through many channels
  - Kiosks
  - Internet
  - Wireless Devices
  - Signs
RTA TripsWeb

1. WHERE ARE YOU STARTING?
   Enter an address or intersection: 123 N Main St
   Choose a starting point: [Select a benchmark]
   Enter a City (optional)

2. WHERE ARE YOU GOING?
   Enter an address or intersection: 123 N Main St
   Choose a destination: [Select a benchmark]
   Enter a City (optional)

3. WHEN ARE YOU TRAVELING?
   Date: Aug 19 2004
   My starting time will be: 1:55 PM

4. OTHER TRIP OPTIONS...
   Do you require a lift, ramp, elevator or accessible station? No
   I would like to walk no more than: 1/2 Mile
   I would prefer a trip that: is quickest

[Next]

YOUR ITINERARIES

- **Walk 0.4 mile E from REGIONAL TRANSPORTATION AUTHORITY to ADAMS & STATE**
  Depart: ADAMS & STATE
  Arrive: NAVY PIER BUS TERMINAL
  Regular Fare: $1.75
  Senior/Disabled Fare: $0.85

- **Take CTA BUS # 29 STATE NORTHBOUND**
  Depart: NAVY PIER BUS TERMINAL
  Arrive: NAVY PIER
  Regular Fare: $0.85
  Senior/Disabled Fare: $0.85

NEXT ITINERARY

- **Walk 0.4 mile N from REGIONAL TRANSPORTATION AUTHORITY to WASHINGTON & LASALLE**
  Depart: WASHINGTON & LASALLE
  Arrive: NAVY PIER BUS TERMINAL
  Regular Fare: $1.75
  Senior/Disabled Fare: $0.85
En-Route Traveler Information

Metra Parking

Available Spaces

→ FULL Mokena/ Hickory Ck

↑ 1234 80th Ave
Operational Efficiencies

- Field Communications
- Transit Signal Priority
Multi-Modal Trip Planner

- FTA Demonstration
- User Centered Design
- Decision Factors
  - Travel Times
  - Shortest distance
  - Fewest transfers
  - Delays/incidents
  - Parking availability
Multi-Modal Trip Planner System
Participating Entities

- FTA | U.S. DEPARTMENT OF TRANSPORTATION
- Illinois Department of Transportation
- GCM | Gary-Chicago-Milwaukee Travel Maps
- Regional Transportation Authority
- VOLPE Center
- MTS | Mitretek Systems
- Federal Highway Administration
- Cats | Chicago Area Transportation Study
- UIC
- CENTER FOR NEIGHBORHOOD TECHNOLOGY
MMTPS Technical Approach

Phase 1:
Core System Development

- Transit Trip Planning
- Driving Directions
- Real-Time Expressway & Tollway Conditions

Phase II:
Enhanced Content & Functionality

- Real-Time Transit
- Arterial Performance
- Parking Data
- Emissions Avoided Data