

Executive Briefing

Information Technology and
Intelligent Transportation
Systems

2003-2008 Strategic Plan



Presented to Miami-Dade Transit
by:

Center for Urban Transportation Research
and Palisades Group USA

February 24, 2004

Why Are We Here Today?

- To brief MDT management and staff on the highlights of the Strategic Plan for Information Technology and Intelligent Transportation Systems (IT and ITS)
 - Year-long effort
 - Involved staff throughout MDT, not just IT
 - Based on solid business planning practices

Who We Are

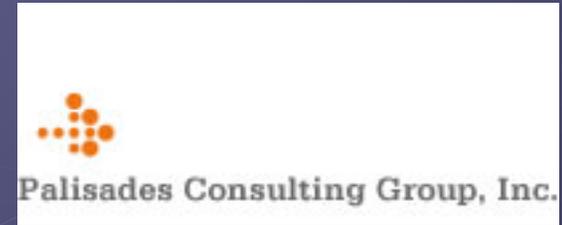
● Center for Urban Transportation and Research



- Nationally-recognized research center founded in 1988
- Provides high quality, objective transportation expertise in the form of technical support, policy analysis, and research support that translates directly into benefits for its project sponsors.

Who We Are

● Palisades Consulting Group, Inc.



- Nationally-recognized firm founded in 1988
- Provides transit agencies with “subject matter expertise” in transit planning, operations, advanced transit technologies, IT and transit security
- FTA contractor for ITS Oversight of transit properties

Related MDT Accomplishments

- Agency-wide Strategic Business Planning in 2000 and 2003
- People's Transportation Plan Referendum, November 2002
- Federal ITS Oversight and Triennial Review
- Gartner IT Benchmarking Study



And now, IT/ITS Strategic Plan

MDT is Leading the Nation

● Two ways:

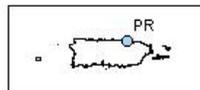
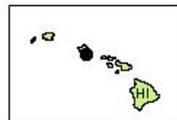
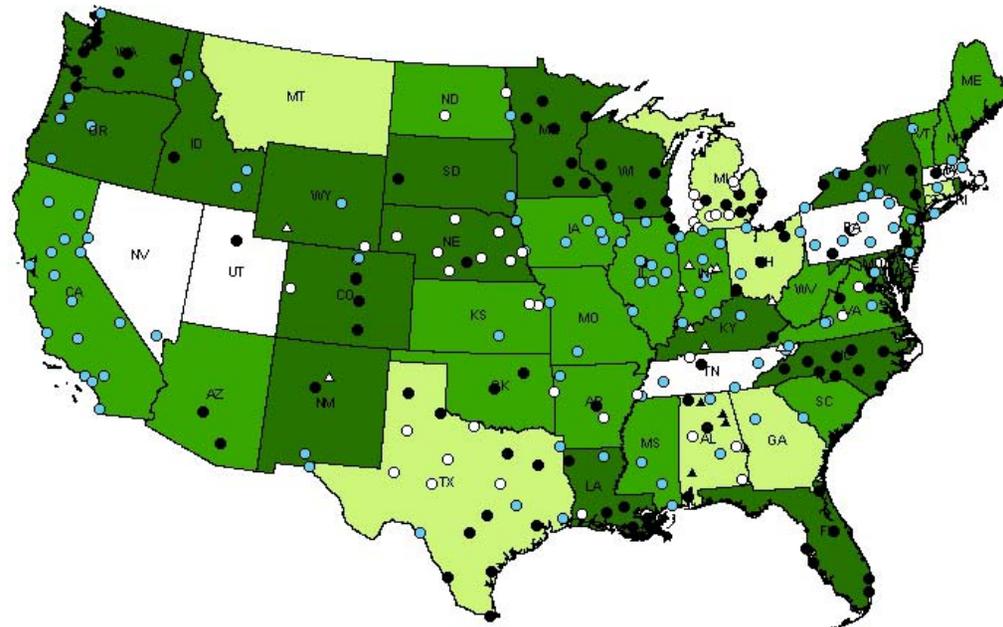
- MDT's initiative to undertake an IT/ITS Strategic Plan puts the agency in the nation's forefront in terms of having a *compliance strategy* for the FTA Policy
- No other agency has so closely aligned its ITS deployments against its Business Vision, Mission and Goals

Why MDT's IT/ITS Strategic Plan is So Important

1. Major step toward compliance with Federal Transit Administration's Policy on Conformance with the National ITS Architecture
 - **April 8, 2005 deadline** for regional ITS architectures
 - ***All transit agencies must comply or risk losing FTA operating and capital grant funding***

FTA Policy on Transit ITS

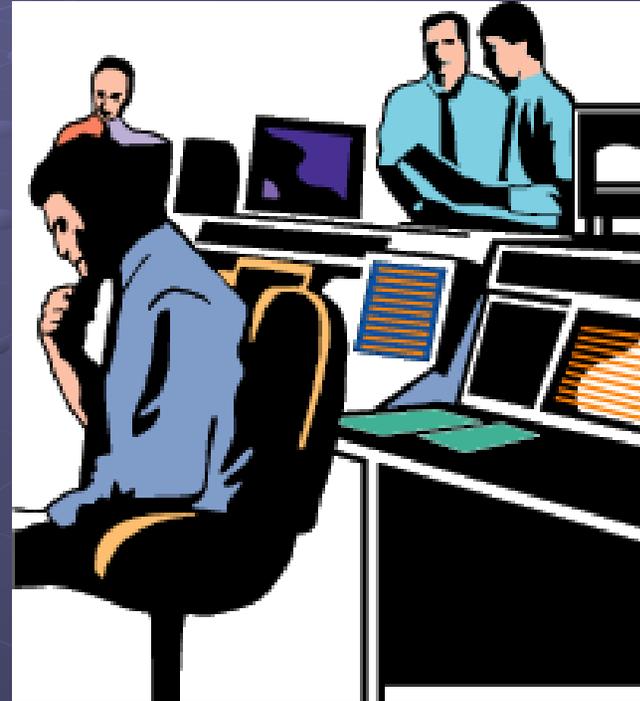
Statewide and Regional Architecture Development (as of 10/01/2003)



Regional Architecture		Statewide Architecture	
▲	Not Known	▨	Not Known
△	Not Needed	□	Not Needed
○	Have Not Started	■	Have Not Started
●	Under Development	■	Under Development
●	Ready for Use	■	Ready for Use

IT/ITS Plan Demonstrates Good Management Practice

2. Demonstrates prudent management of People's Transportation Plan resources



Provides Foundation for Business-Driven Technology Applications

- A business-driven foundation for information flows and technology deployments



Definition of “Architecture”

- “Architecture” defines the pieces and how they relate
- It’s like a “wiring diagram” for stereo system

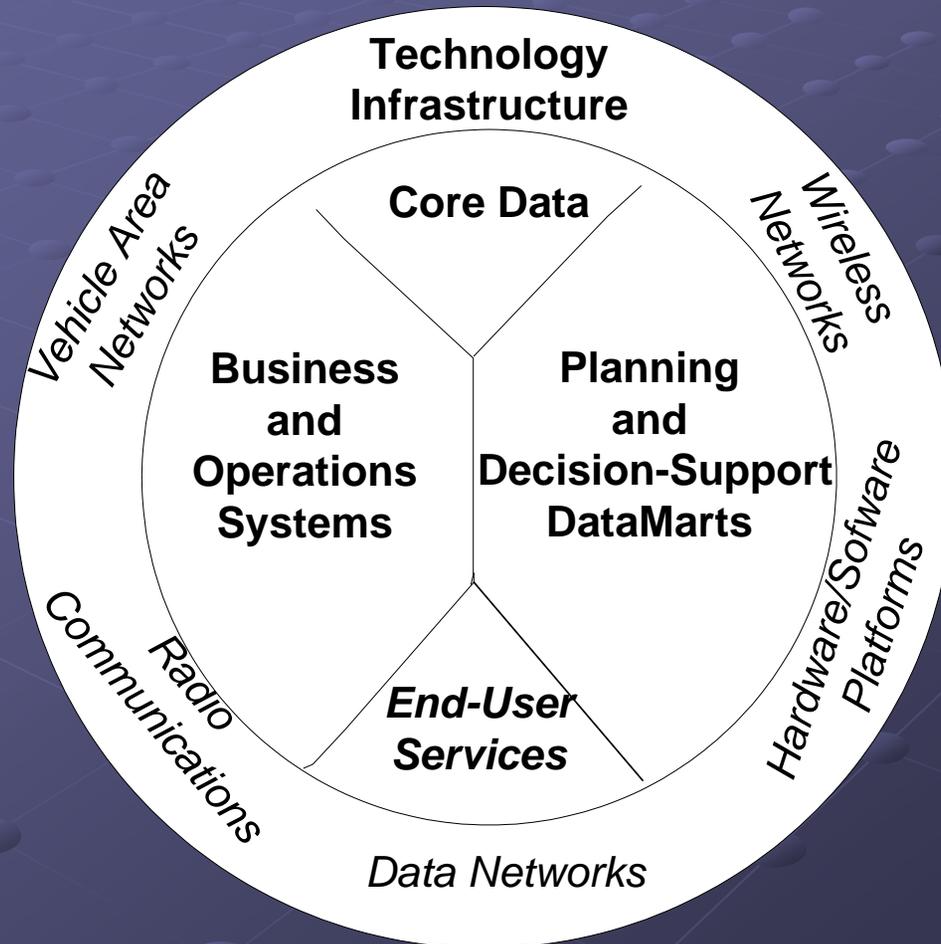


Without an architecture, technology is expensive and probably won't work

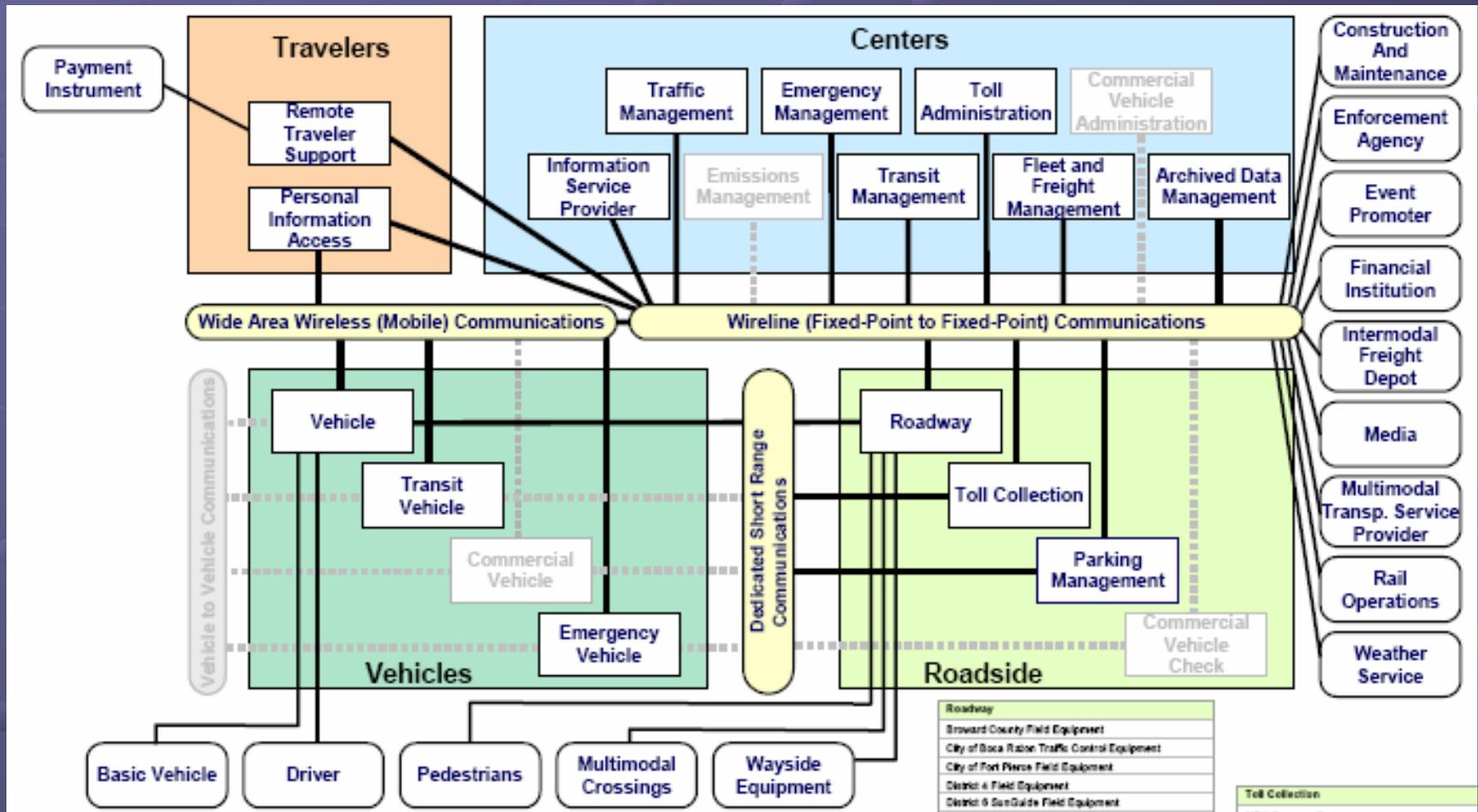
MDT's New IT/ITS Architecture...



...Will Support MDT's Core Functions and...

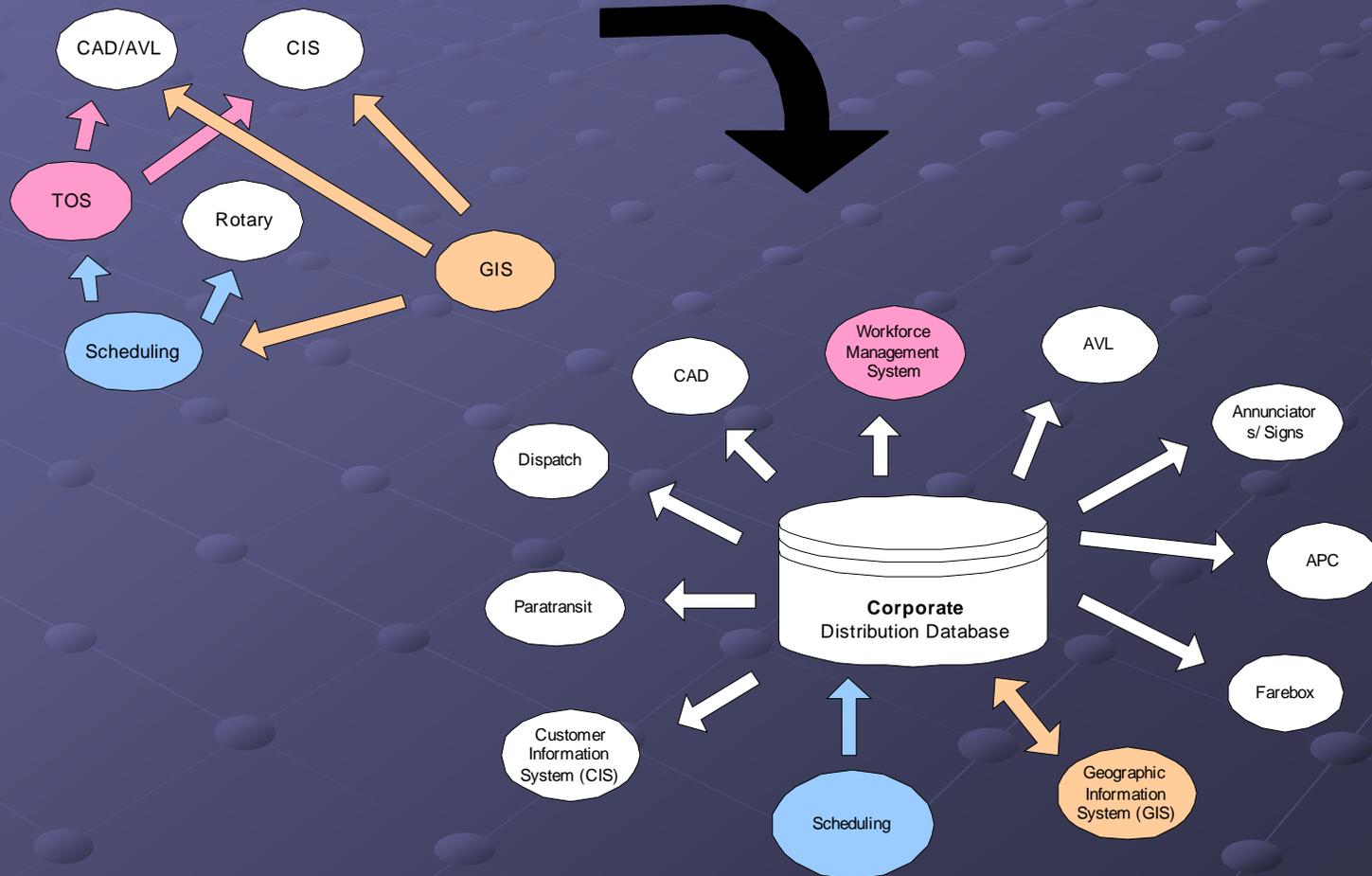


...Connect to The SE Florida Regional ITS Architecture



How Will MDT Get There?

Evolution from application-centric to data-centric architecture



Critical, Strategic Thinking

1. “It’s the Data, not just the Applications”
2. Deliberate, Step-by-Step Migration Path to Achieving MDT Goals and Implementing the PTP
3. Enterprise-wide perspective
4. Require vendors to provide standardized data and connections (FTA Policy conformance!)

Critical, Strategic Thinking

4. Invest in Staff Development
5. Strategic Budgeting
6. Consistency with County Standards and Direction
7. Use of Systems Engineering Approach for All New Projects

MDT's Next Steps

1. Formally adopt the IT/ITS 2003–2008 Strategic Plan
2. Assign responsibilities for migration
3. Expand the current MDT IT/ITS architecture toward the target architecture direction
4. Annually define and develop priority initiatives/projects

MDT's Next Steps

5. Use “model demonstrations” and “proof of concept” deployments
6. Invest and institute formal training programs
7. Develop a process to ensure continuous measurements to track performance and service level requirements
8. Review progress and fine-tune the Strategic Plan

In Summary

- MDT has worked hard and is now front and center in the Nation with an “Internal Transit Architecture”
- MDT took an “Enterprise Architecture Planning” approach that is based on solid business planning practices that will stand up under public scrutiny

In Summary

- MDT is now poised to demonstrate compliance with the new federal policy that will take effect April 8, 2005
- More important, MDT divisions and staff can now work with each other and with their vendors in a strategic, not haphazard way

