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The Three Pillars of ITS Development

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Why Intelligent Transportation Systems?

- ITS is the 21st century, digital equivalent of the highway system.
- Brings real-time, actionable intelligence to individuals and to assets in the transportation network.
- ITS drives economic growth by boosting productivity and serving as a platform for commerce.
ITS Deliver 5 Key Classes of Benefits By:

1. Increasing driver and pedestrian safety;

2. Delivering environmental benefits;

3. Enhancing personal mobility and convenience;

4. Improving the operational performance of the transportation network;

5. Spurring broader economic and employment growth.
ITS Drive Productivity, Economic, Employment Growth

Critical factor in national and regional economic competitiveness:

- Enables just-in time delivery business models; serves as a platform for innovations in other industries.

- Enables efficient delivery of public services (police, ambulance, mass transit, etc.).

- Mitigates economic losses from traffic congestion and accidents/fatalities.

- Source of jobs: 1M in Japan by 2015; 600,000 in North America.
Principles of ITS Success

1. Demonstrate national-level commitment and vision;

2. Make substantial investments in ITS;

3. Feature strong government leadership.
Principles of ITS Success

1. Demonstrate national-level commitment and vision.
   - Recognize that ITS empowers all sectors of the economy.
   - Comprehensively envision economic competitiveness, safety, and environmental benefits of ITS.
   - Set ambitious goals.
2. Make substantial investments in ITS.
   - 4-5% of transportation budget should go to ITS.
   - Recognize that ITS delivers superior RoI over conventional transportation investments.
   - ITS enables move toward performance-based transportation financing systems.
3. Feature strong government leadership.

- Plan from the beginning to anticipate standards, system compatibility, interoperability, and expandability issues.
- Align relevant government agencies at municipal, state, and federal levels (in ITS working groups).
- Ensure ITS data is kept open and available.
3. Feature strong government leadership (ctd.)
   - Plot yourself on a transportation maturity model.
Lessons for ITS Success

1. Build from the ground-up; start with ITS model cities.

2. Don’t reinvent the wheel; leverage what others have learned.

3. Doesn’t always take massive deployments to realize tremendous value.
   - 10,000 taxis enough to generate real-time traffic data for Shanghai.

4. Leverage the infrastructure you already have in place.

5. Collect performance data from the beginning.
Thank You

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