



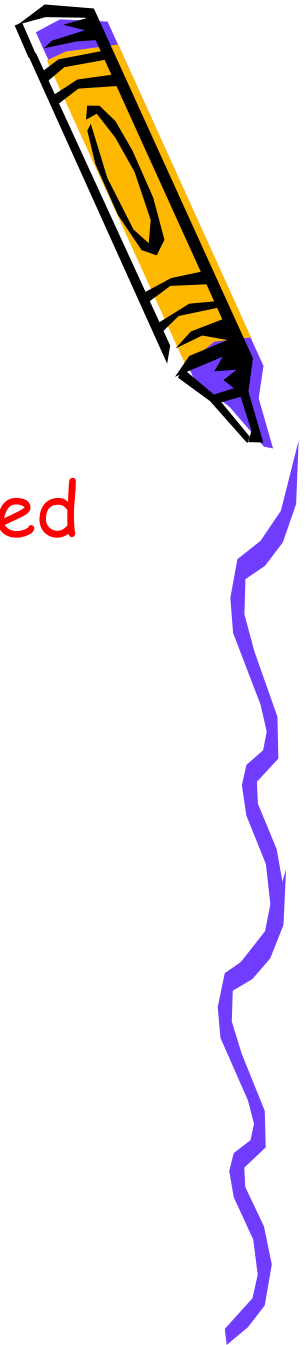
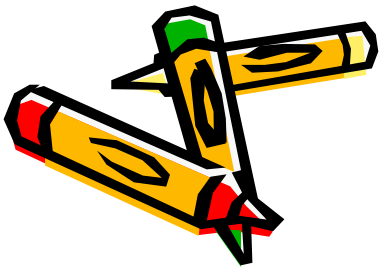
Reflections and Directions

INFOstructure Wrap Up Session
Friday, August 23, 2002



Working Toward Consensus On...

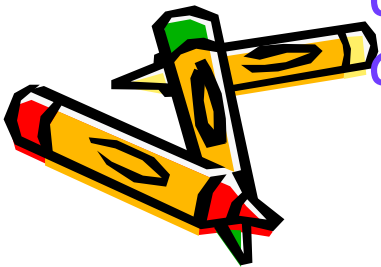
- What is the INFOstructure?
- Is it worth doing? A problem to be solved or an opportunity to be capitalized on?
- What comes first...
 - To focus on? Is there a first piece?
 - To marshal support?
- What is the leadership model?
- Where does Homeland Security fit?
- What is the Clarion Call?



What is the INFOstructure?

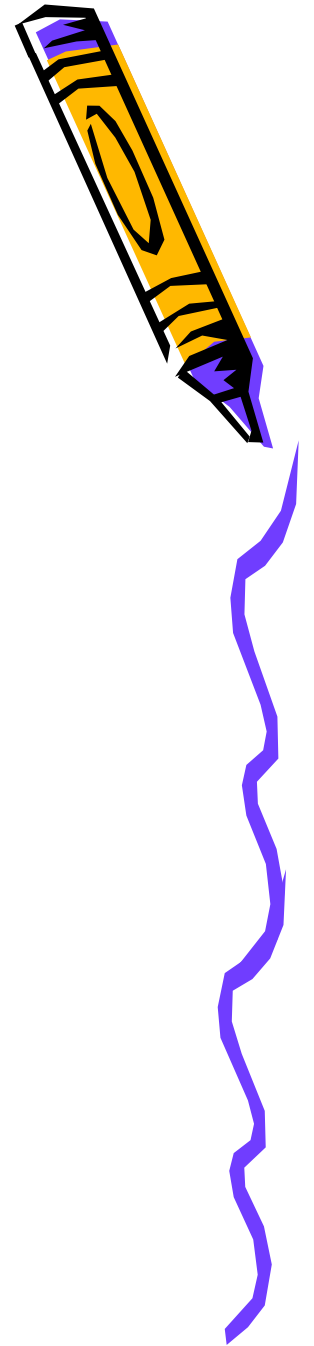
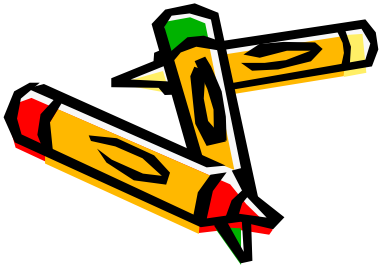
- **Proposal:**

- A coordinated collection of systems...
- On a national scale...
- That consistently collect integrate, and store...
- Historical and real-time information about...
- The structure, state, usage, and performance of the surface transportation system and its related facilities...
- And enables making this information readily available to applications that serve operators and users of the surface transportation system



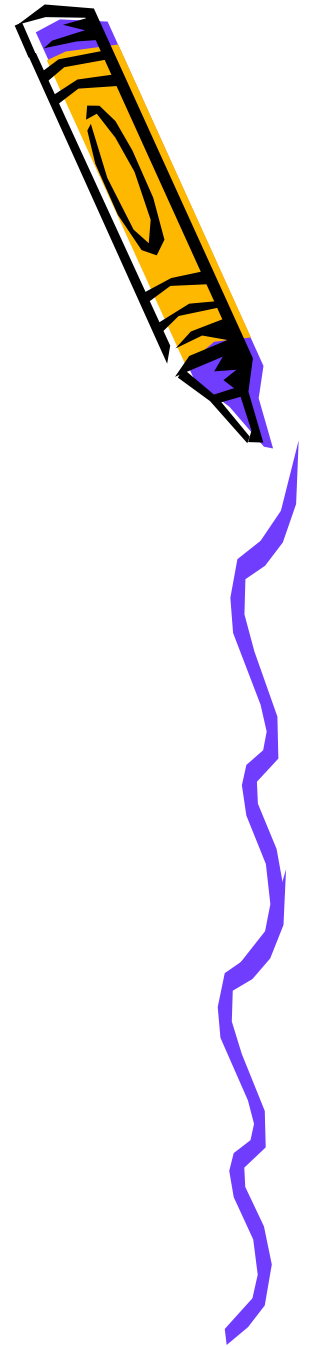
Why are we doing this?

- Safety
- Security
- Efficiency
- Mobility
- Environment
- Economic competitiveness
- Quality of life



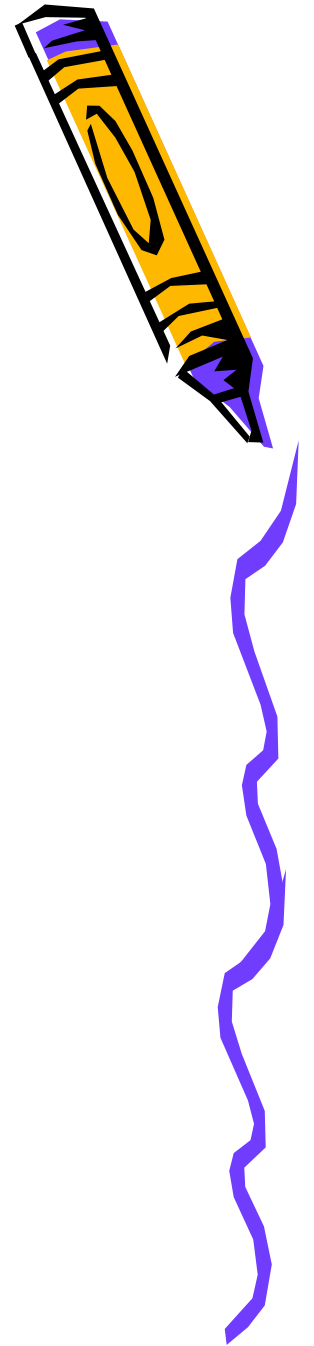
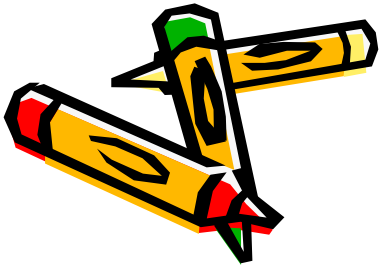
Is It Worth Doing?

- In favor:
 - Enables a variety of applications in public agencies and in vehicles (including fleets)
 - Operated locally, regionally, and nationally, and nationally consistent
 - Made economic by national market
 - Fewer reinvented wheels
 - Faster deployment at lower cost
 - Better, faster, broader, deeper information



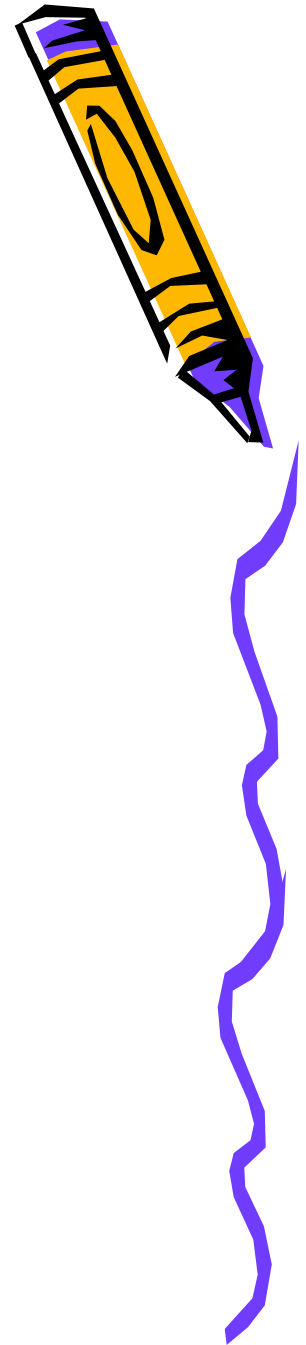
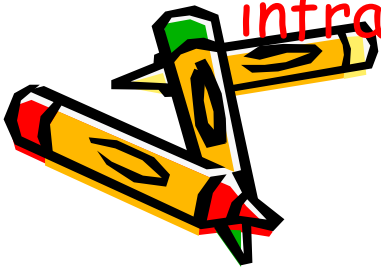
Is It Worth Doing?

- **Against:**
 - Not business as usual
 - Costs precede benefits
 - Hard
 - Control issues



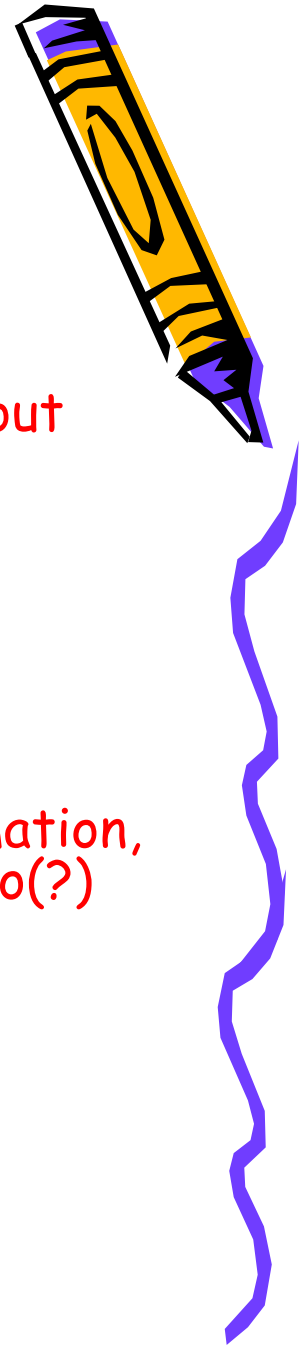
What Is Initial Focus?

- **Proposal 1: Traffic Information**
(possible disadvantage: mainly urban issue)
 - Plan for broad coverage
 - Roadway instrumentation + probe data
 - Critical for traffic management
 - Critical for dynamic route guidance
- **Proposal 2: Surveillance**
 - Of roads and facilities for problems
 - Of CVO ("flight plan" deviation; hazmat tracking)
 - Of transit (security and schedule conformance)
- **Proposal 3: Focus on Homeland Security**
- **Proposal 4: Focus on NHS plus major transit facilities**
- **Proposal 5: Integrating vehicles and the infrastructure**



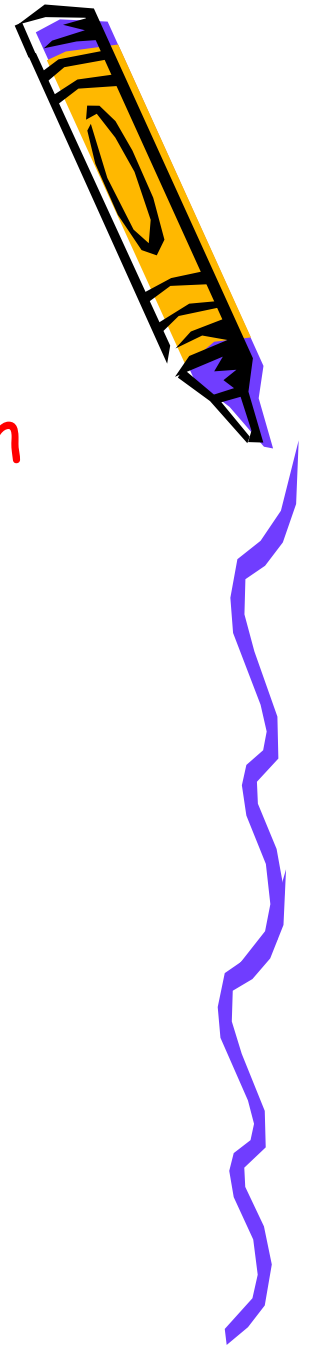
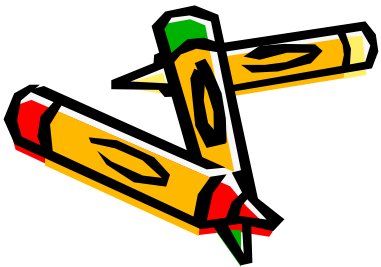
Alternate View

- Look at the future state where we know everything about road segments
- What does this do for important applications?
 - Homeland Security
 - Traffic Forecasting
 - Etc.
- Need a breakthrough for political support
- Goal: National conditions map (NHS?) with flow information, event (incident) information, weather information, video(?)
← *The Clarion Call?*
 - Where do we put our investments to get our map
- Similar thing on transit side, rail



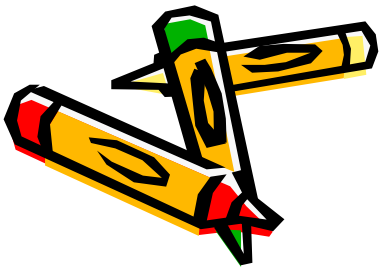
Making the INFOstructure Happen

- Success depends most fundamentally on marshalling a national commitment, to:
 - Cooperate
 - Participate
 - Contribute
 - Share in benefits
- Congressional mandate may be needed



Groundwork

- Document INFO-structure scope and characteristics at a "thorough outline" level
- Conduct preliminary cost/benefit analysis
 - With particular attention to alignment of costs and benefits for particular stakeholders
- Secure buy-in from principal stakeholders
 - Infrastructure oriented organizations
 - Driver advocates
 - State regulatory agencies
 - Commercial carriers
 - Vehicle manufacturers and their suppliers
 - *[Railroads and their suppliers]*
 - Telematics, electronics, and communications interests
 - Privacy and environmental advocates



Recommendation

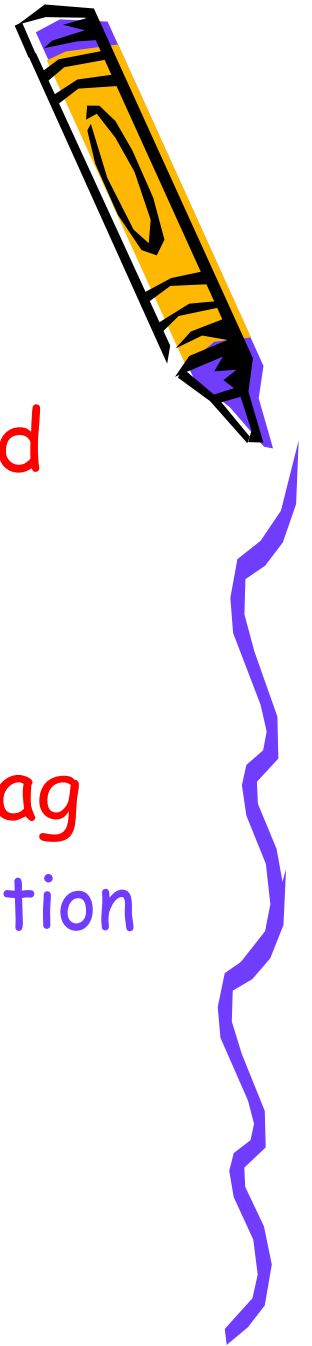
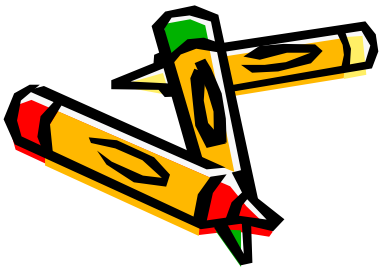
From National ITS Program Plan

- **Convene National Summit under ITS America auspices**
 - Begin engineering of needs analysis and buy-in
 - Create National INFOstructure Steering Committee
 - ITS America as secretariat and working arm
 - Purpose: Generate Congressional support and mandate to proceed
- **Given the mandate:**
 - Operate under Congressional Charter or as Presidential Commission
 - ITS America continues as secretariat and working arm
 - Guide and oversee research, planning, staged development/deployment, ongoing evolution and operation



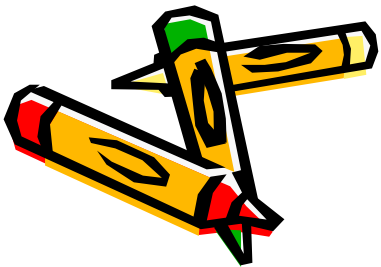
Where Does Homeland Security Fit?

- INFOstructure has clear Homeland Security implications
- This is where the money is
- But *everybody* is waving the HS Flag
 - How do we get the appropriate attention and response?



Needed: A Clarion Call

- "I believe that this nation should commit itself to achieving the goal, before this decade is out, of landing a man on the moon and returning him safely to the earth."
- "Coast-to-coast without a traffic light!"



Discussion

