

God's Creation – Man's Dominion

# Global Tracking Systems

# SuperCorridors!

Global Information Infrastructure for the  
Global Supply Chain



# Part I

- ◆ I – Background
- ◆ II – Definitions
- ◆ III – Military-Style
- ◆ IV – Supply Chain Management
- ◆ V – REAL ID
- ◆ VI - Summary

# International order

**1962**

- ◆ Creation of MPO – Metropolitan Planning Organizations

**1977**

- ◆ Willy Brandt: Independent Commission on International Developmental Issues,  
*“Brandt Report”* (Suggested by Robert McNamara, Pres. Of World Bank)

**1980**

- ◆ North-South: A Programme for Survival



# IVHS: “Intelligent” Transportation

1988

*Mobility 2000 -*

“formed to develop a national program of **automated** highway technology...”

Paradigm shift....*infrastructure + information*

# IVHS: “Intelligent” Task Force

## **AAMVA**

- ◆ American Association of Motor Vehicle Administrators

## **AASHTO**

- ◆ American Association of State Highway and Transportation Officials

## **AAMA**

- ◆ American Automobile Manufacturers Association

## **NGA**

- ◆ National Governors Association
- ◆ **US Chamber of Commerce**

# 1991 – BIG Changes



**The Cold War Ends**



# 1991 – BIG Changes

- ◆ **Sen. Al Gore** – High Performance Computing and Communications Act; *“Information Superhighway”*
- ◆ **World Wide Web** – internet for all and free use of the HTML screen formatting language
- ◆ **ISTEA** – Transportation goes high tech and *international.*

President Geo. H.W. speech – “a new world order”

# 1992/1993 - NAFTA



**Enough said...**

**1993 - Agenda 21, Sustainable Development**

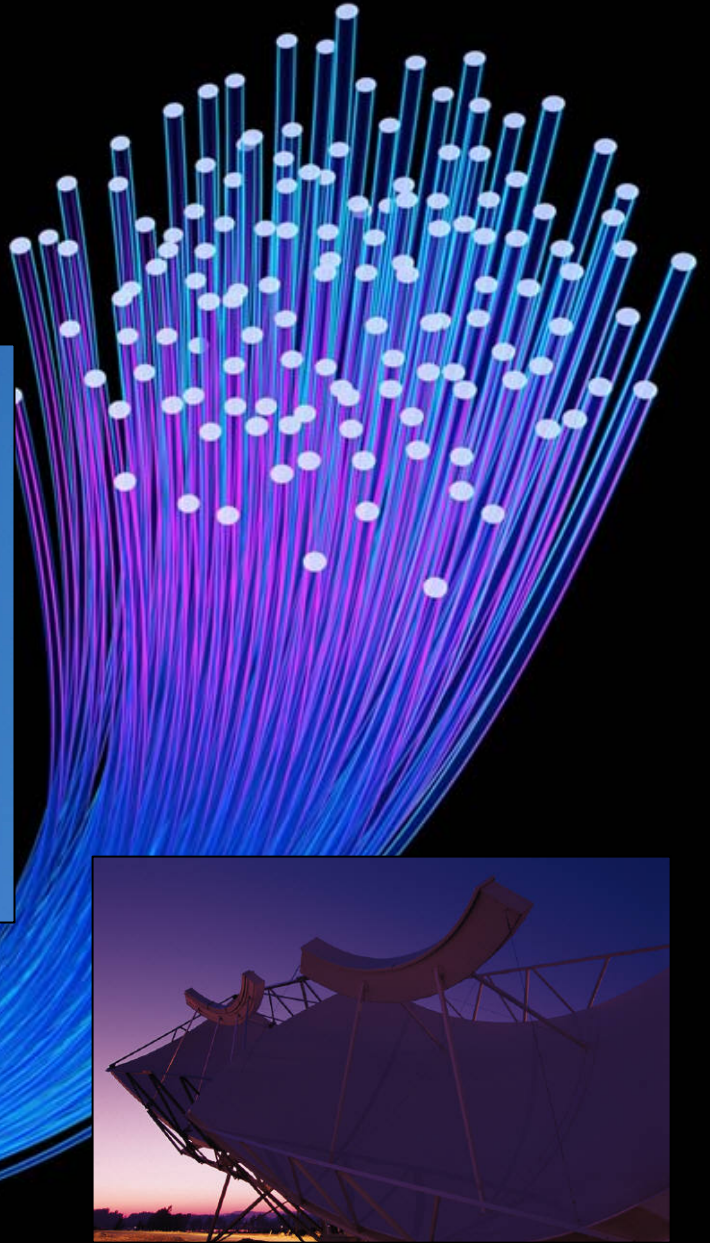
# Technology Systems



- ◆ Advanced Traffic Management *Systems* (ATMS)
- ◆ Advanced Traveler Information *Systems* (ATIS)
- ◆ Advanced Vehicle Control *Systems* (AVCS)
- ◆ Commercial Vehicle Operations (CVO)
- ◆ Advanced Public Transportation *Systems* (APTS)

# USDOT Strategic Goal: Global Connectivity

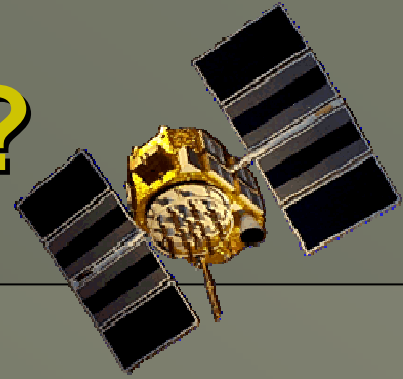
“Facilitate an *international transportation system* that promotes economic growth and development”



# Part II

- ◆ I – Background
- ◆ II – Definitions
- ◆ III – Military
- ◆ IV – Supply Chain Management
- ◆ V – REAL ID
- ◆ VI - Summary

# Are you SMART?



**Intelligent** — communications-based information and electronics technology

**Interoperable** - ability of one system to communicate with another

**System** - a network of related computer software, hardware, and data transmissions devices

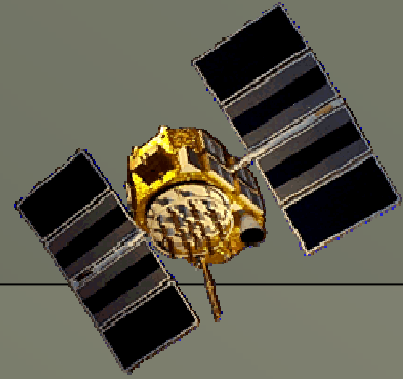


**Corridor** – transportation corridor that includes a combination of modes that move *people*, vehicles and goods; includes road, rail, water.

**SuperCorridor** – International, Interoperable, “Intelligent” Transportation Systems

**Infrastructure** – the structures and institutions that support transportation systems





**Resource** – raw material; an available supply that can be drawn on; mineral wealth, *labor force*, and armaments; assets  
(Human resources)

**Asset** – a thing or *person* that is useful

**Supply Chain** – or logistics network; system of organizations, *people*, technology, activities, information and resources involved in moving a product or service from supplier to customer; from raw materials to finished product

# Part III

- ◆ I – Background
- ◆ II – Definitions
- ◆ III – Military-Style
- ◆ IV – Supply Chain Management
- ◆ V – REAL ID
- ◆ VI - Summary

# Global Positioning System (GPS)



"The Global Positioning System (GPS) was designed as a dual-use system with the primary purpose of enhancing the effectiveness of U.S. and allied military forces.

GPS is rapidly becoming an integral component of the emerging

***Global Information Infrastructure...***"

# MOU For Joint Development



## 1994

- ◆ The Department of Defense and the Department of Justice enter into an agreement for the joint development of *technology*

(Date: 4/20/94, by A.G. Janet Reno, John Deutch, Deputy Secretary of State; later CIA Director)

## 1996

- ◆ Presidential Decision Directive (PDD/NSTC6) – GPS for civil and commercial use. (Jointly chaired by DOD and Dept. of Transportation)

# Government Math?



+



+



---

= **Police State, oops,  
Homeland Security**

# GPS Policy - Cooperate with...

## Dept. of Defense:

- ◆ With the Director of Central Intelligence, the Department of State and other departments and agencies

## Dept. of Transportation:

- ◆ With the Departments of Commerce, Defense, and State.

## Department of State:

- ◆ With foreign governments and other international organizations.



Communications Accord – US and Australia 7/08

Defense Dept photo by U.S. Air Force Tech Sgt  
Jerry Morrison. [www.defenselink.mil/](http://www.defenselink.mil/)

# Primary GPS Contractors

- ◆ Lockheed Martin



- ◆ Boeing North American



- ◆ Rockwell International



# Lockheed Martin, Feb. 2008

## Lockheed Gets \$1 Billion FBI Biometrics Contract

The FBI is expanding its biometric identification systems for criminal, civil, and national security reasons.



# Lockheed Martin, July 2008

**Lockheed Martin gets \$89 million to converge DoD distribution networks**

Will combine distribution systems for Defense Logistics Agency and U.S. Transportation Command

# Part IV

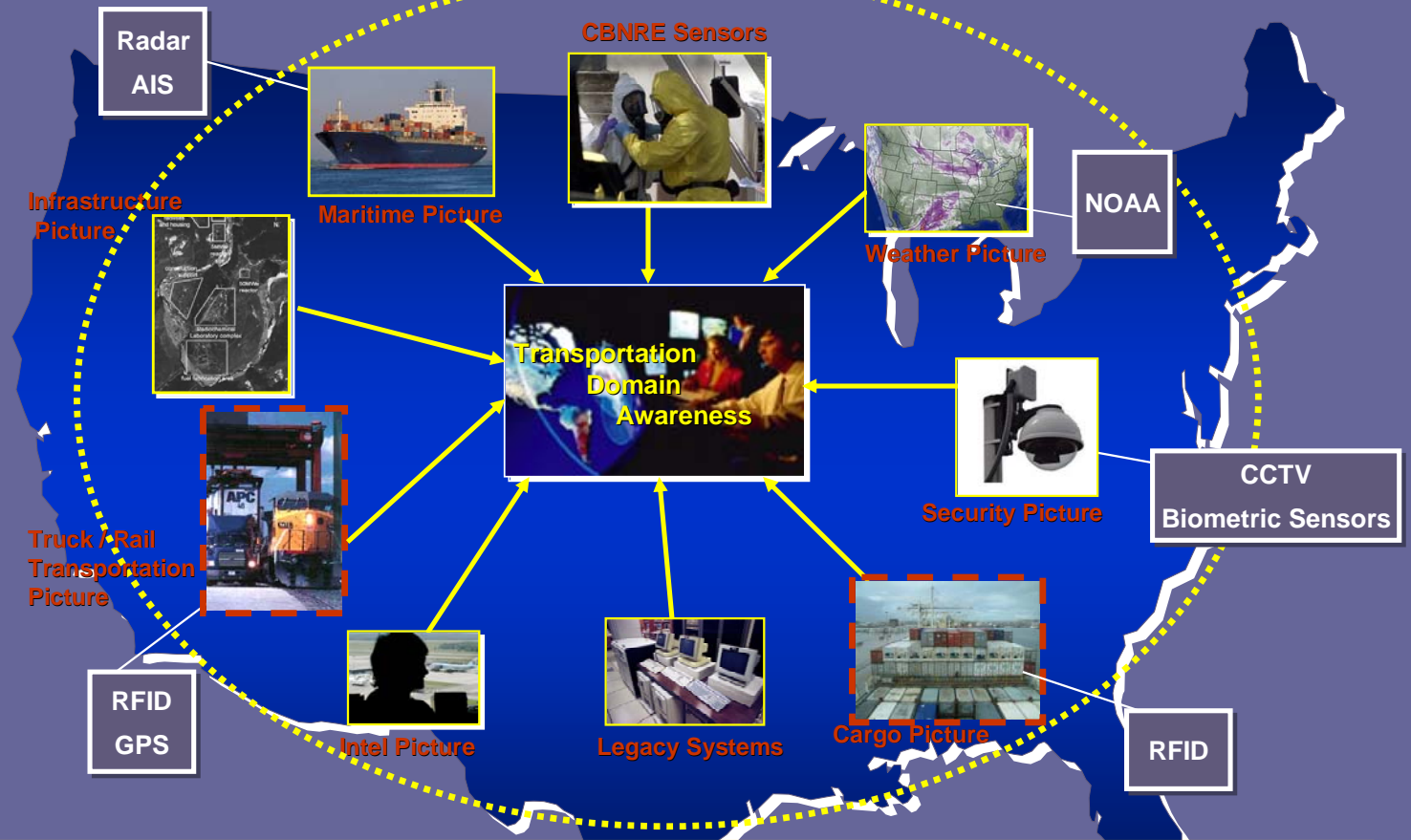
- ◆ I – Background
- ◆ II – Definitions
- ◆ III – Military
- ◆ IV – Supply Chain Management
- ◆ V – REAL ID
- ◆ VI - Summary

# Supply Chain Management

Spans all movement and storage of raw materials, work-in-progress inventory, and finished goods from point of origin to point of consumption



# Information Integration



Automatically gather, correlate, and interpret fragments of multi-source ( Radar, AIS, & GPS tracks, Open Source , Intelligence, Watch list & Law Enforcement Report, CCTV, Bioterrorism sensors) data together into one collaborative portal-based environment

# A Global Economy - “Global Revolution”

- ◆ Global Trade
- ◆ Global Regulations
- ◆ Global Production
- ◆ Global Distribution



# Michael Gallis & Associates...



"There is only one transportation system and it is global.

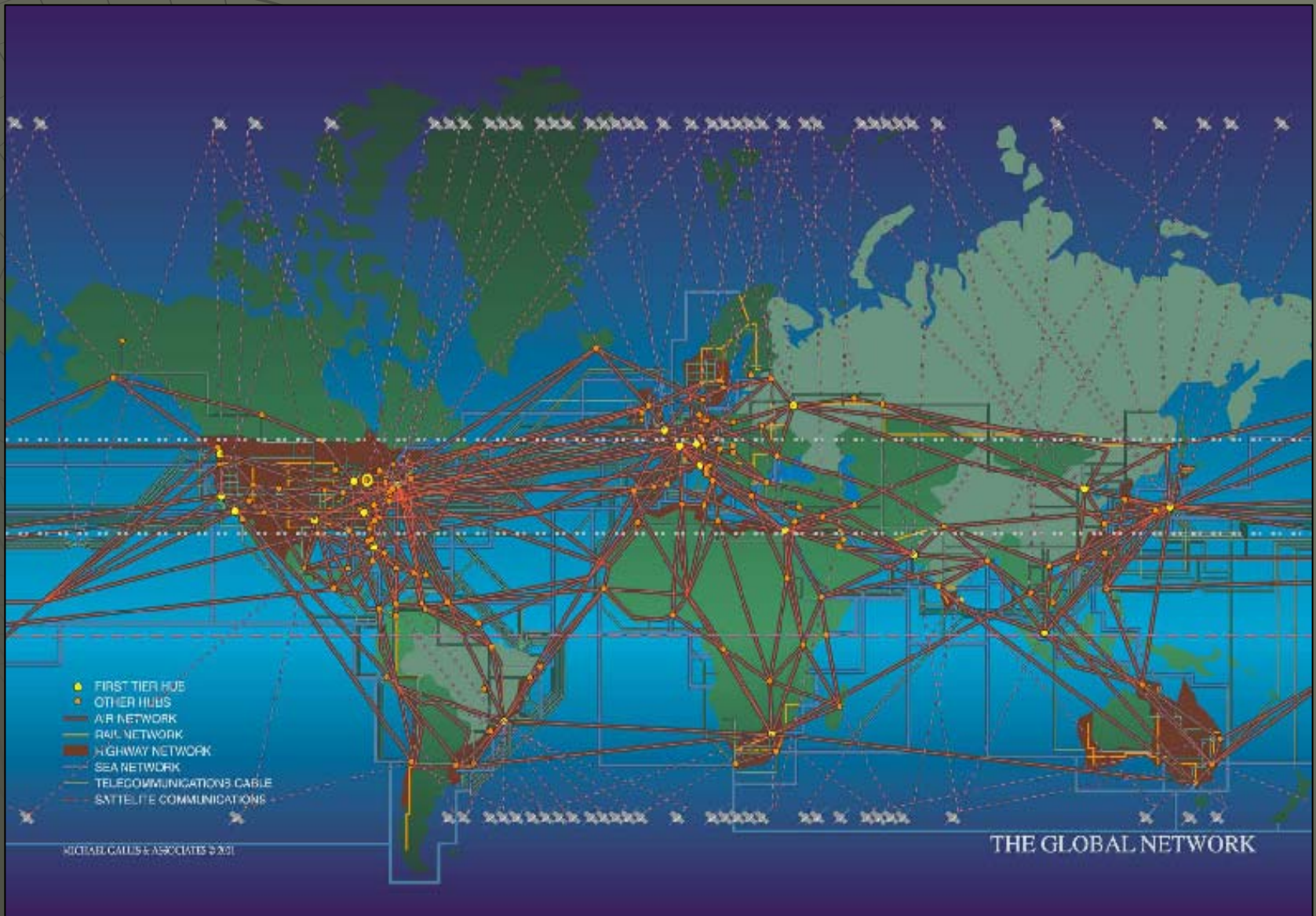
The U.S. is only one subset and the Interstate is only a *component.*"

# The Big Picture – According to Michael Gallis & Assoc.



Source: Michael Gallis & Associates, "BRICs in the 21<sup>st</sup> Century", April 2007

# The Big Picture – According to Michael Gallis & Assoc.



Source: Michael Gallis & Associates, "BRICs in the 21<sup>st</sup> Century", April 2007



# NASCO's NAFTRACS



*North American Facilitation of  
Transportation, Trade, Reduced  
Congestion and Security*

**(Formerly the STRAP 3 Program)**

Funded via University earmarks in transportation bills

# NASCO

North America's SuperCorridor Coalition, Inc.

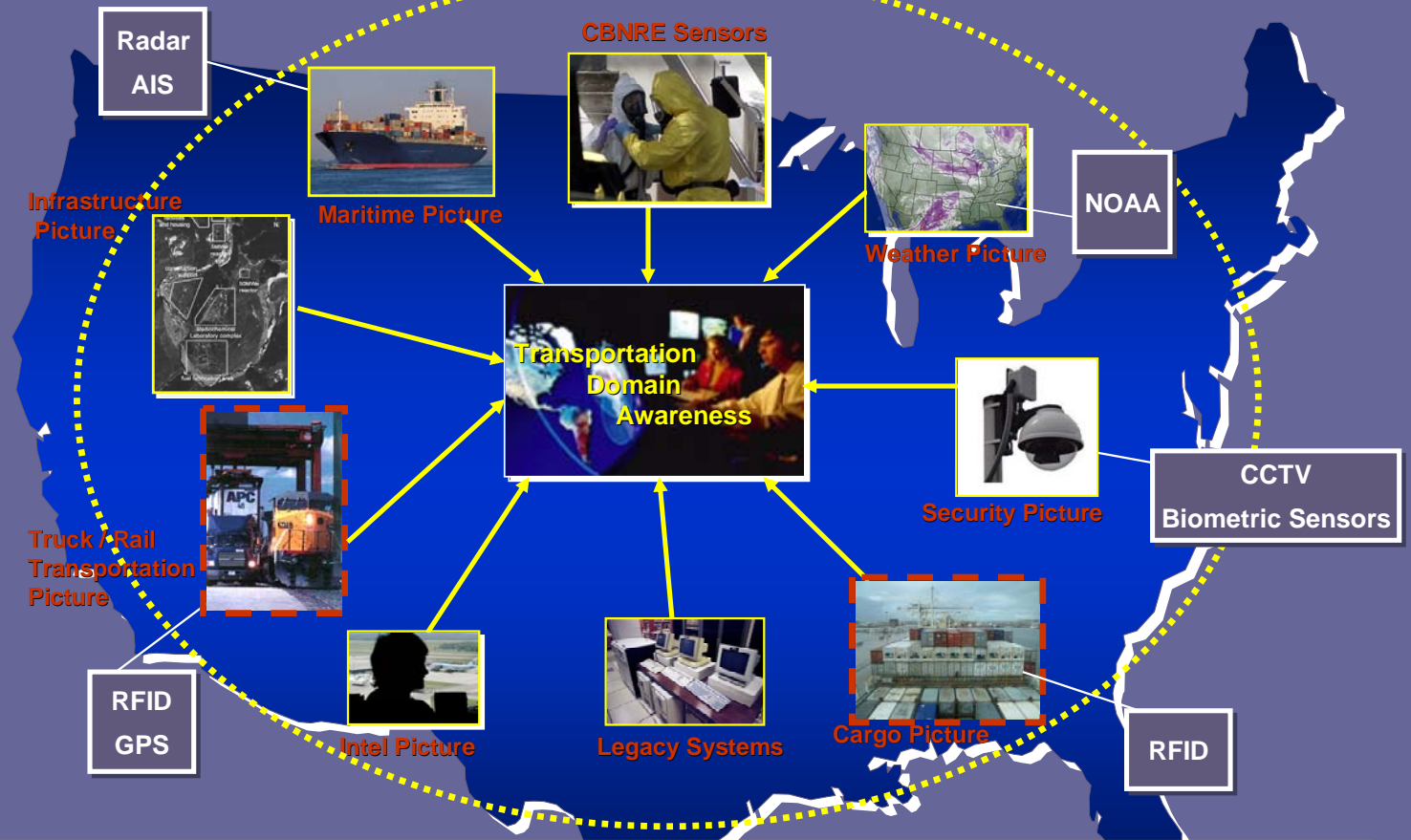


**NASCO 2005**



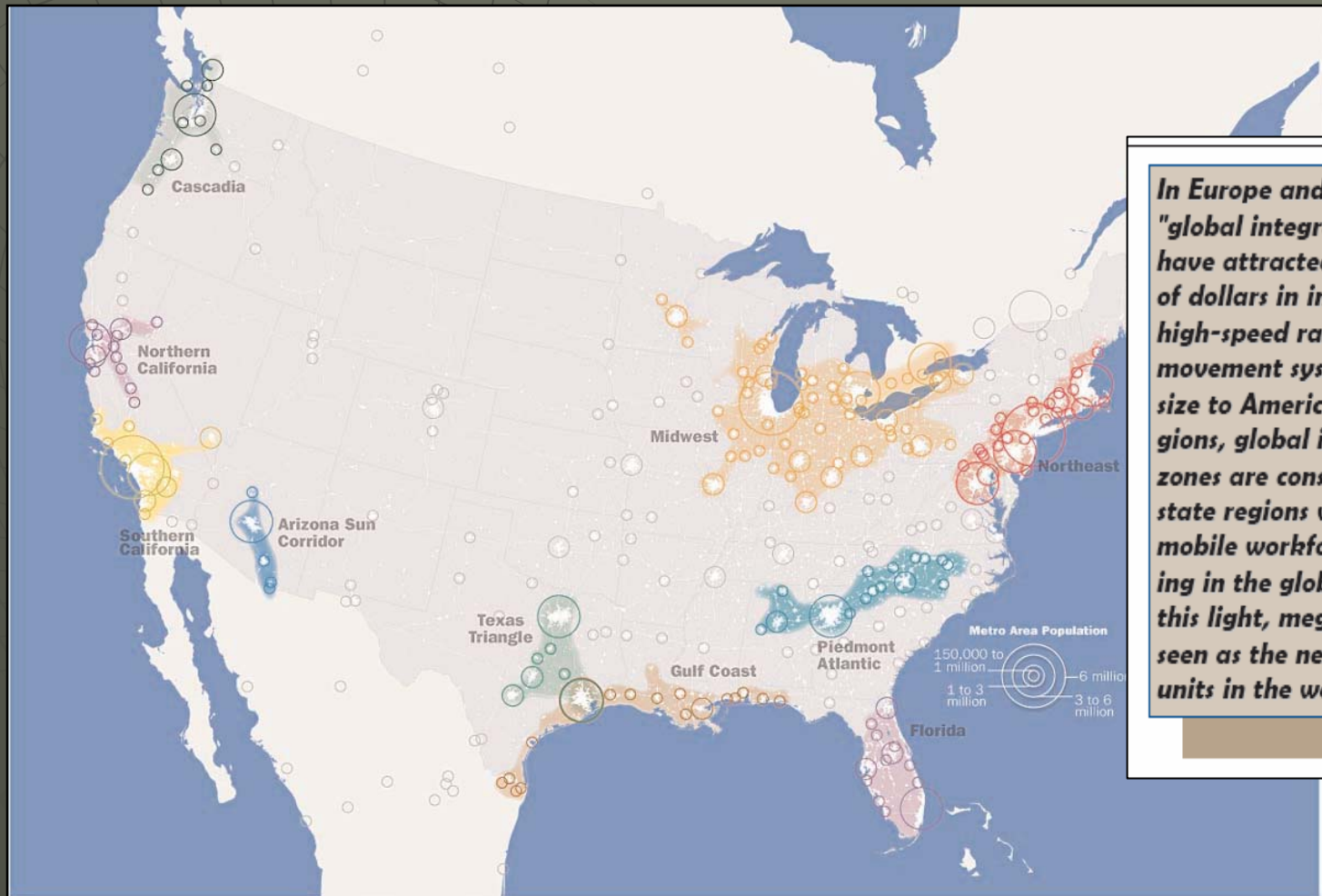
**Today**

# Information Integration



Automatically gather, correlate, and interpret fragments of multi-source ( Radar, AIS, & GPS tracks, Open Source , Intelligence, Watch list & Law Enforcement Report, CCTV, Bioterrorism sensors) data together into one collaborative portal-based environment

# Corridors of the Future – Linking Megaregions (Bruce Babbitt is back)



*In Europe and Southeast Asia, "global integration zones" have attracted tens of billions of dollars in investments in high-speed rail and goods movement systems. Similar in size to American's megaregions, global integration zones are considered multi-state regions with highly mobile workforces participating in the global economy. In this light, megaregions can be seen as the new competitive units in the world's economy.*

Central Planning – linking transportation and human settlements

# Trans-Texas *SuperCorridors*



## HB3588

...and based on the Texas ITS/CVO Business Plan...  
the authority shall provide for implementation by  
the appropriate agencies of the use of  
***Intelligent Transportation Systems***  
for Commercial Vehicle Operations (ITS/CVO)

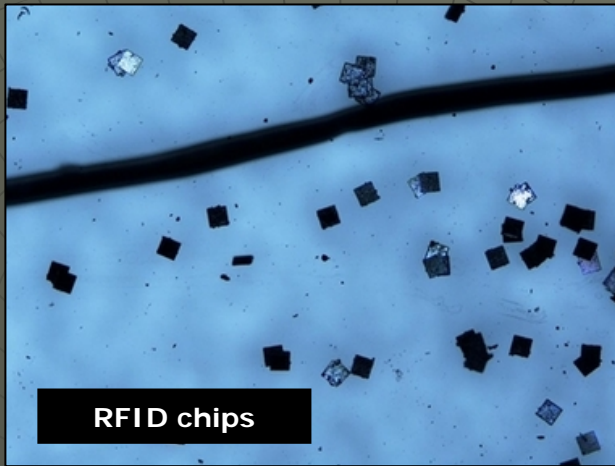
# Part V

- ◆ I – Background
- ◆ II – Definitions
- ◆ III – Military
- ◆ IV – Supply Chain Management
- ◆ V – REAL ID
- ◆ VI - Summary

# Legislation for Identity Technologies

- ◆ **REAL ID Act of 2005** - Driver's licenses
- ◆ **Intelligence Reform and Terrorism Prevention Act of 2004**
- ◆ **Enhanced Border Security and Visa Entry Reform Act of 2002**
- ◆ **Maritime Transportation Security Act of 2002**
- ◆ **Aviation and Transportation Security Act of 2001**
- ◆ **USA PATRIOT Act of 2001** – Expands government surveillance powers.
- ◆ **Gramm Leach Bliley Financial Modernization Act of 1999**
- ◆ **Health Insurance Portability and Accountability Act of 1996**

# Tracking citizens





# Increased RFID Range...

900Mhz to 700Mhz

"As devices are designed as active devices (sic) as Cell Phone On A Chip (CPOC), the range for RFID active devices will increase from a 100 yard max range to 100 mile max range.

# Connections



SaviTechnology

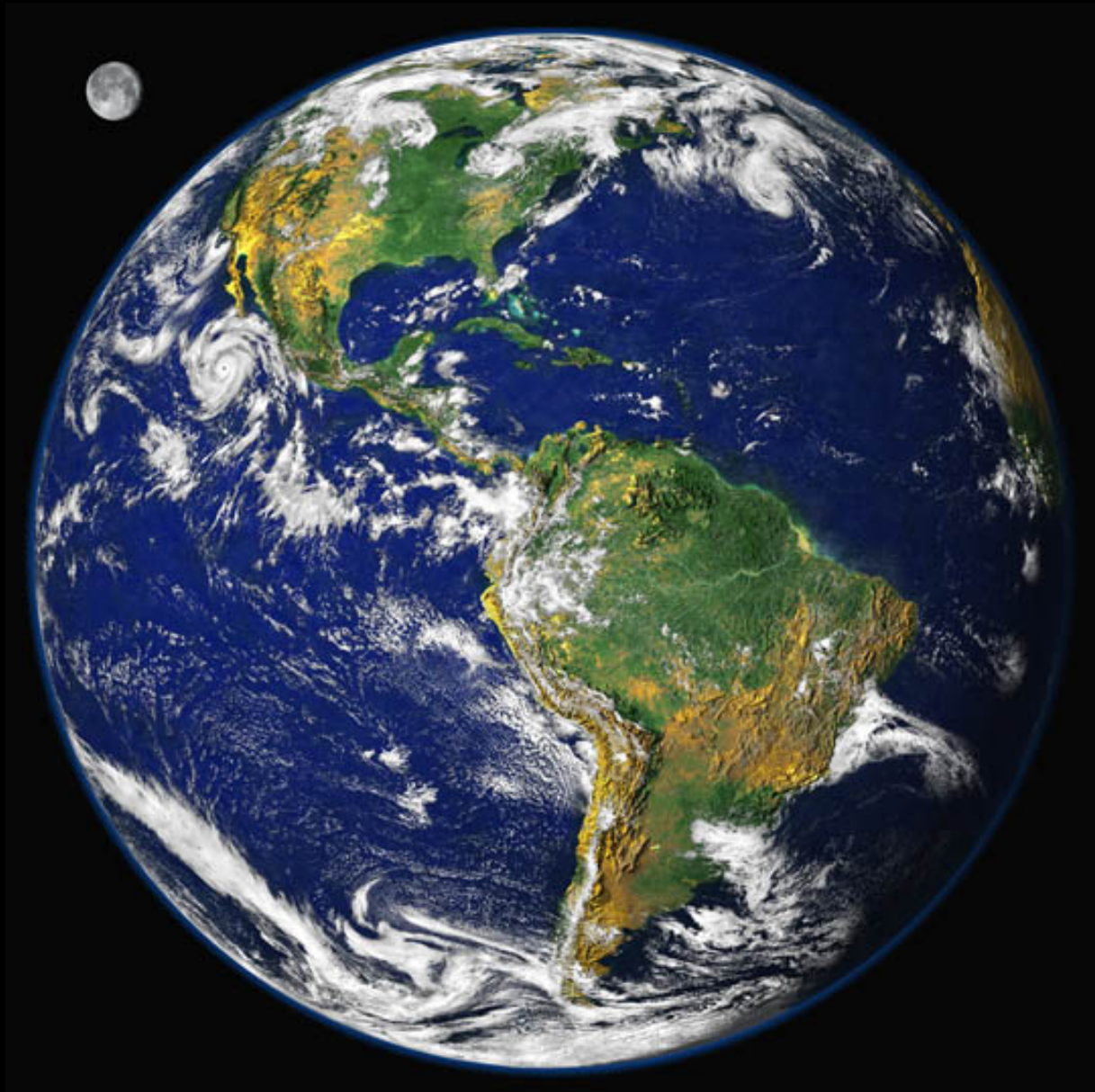
- ◆ **Tom Ridge** (DHS) – Board of Savi Technology (Global Tracking System)
- ◆ **George Tenet** (CIA) – Board of Viisage Technology (Driver's Licenses)
- ◆ **Louis Freeh** (FBI) – Board of Viisage Technology (Driver's Licenses)
- ◆ **Admiral James Loy** (USCG) – Board of Viisage Technology (Driver's Licenses)

# Part VI

- ◆ I – Background
- ◆ II – Definitions
- ◆ III – Military
- ◆ IV – Supply Chain Management
- ◆ V – REAL ID
- ◆ VI - Summary

# Sustainable Development

- ◆ **Global Control of Resources**  
Sustainable Development
- ◆ **Global Control of Assets**  
Including the *people*
- ◆ **Global Transportation System**  
Moves goods, people and information
- ◆ **Global Supply Chain Management**  
Tracking and *control of production and distribution*



**In the beginning God created the heavens and the earth. Gen 1:1**

**Where the Spirit of the Lord is, THERE is liberty. 2Cor 3:17**

# Sources:

- ♦ Association of Metropolitan Planning Organizations - <http://www.ampo.org/content/index.php?pid=15>.
- ♦ Willy Brandt, The Brandt Report - [http://www.willy-brandt.org/bwbs\\_biografie/Index.html?l=en&year=1977](http://www.willy-brandt.org/bwbs_biografie/Index.html?l=en&year=1977)
- ♦ Share the World's Resources - <http://www.stwr.org/special-features/the-brandt-report.html>
- ♦ US/Mexico Binational Commission - <http://www.state.gov/p/wha/ci/mx/c10787.htm>
- ♦ The LaPaz Agreement - <http://www.laprensa-sandiego.org/archieve/december13-02/paz.htm>
- ♦ Canada/US Free Trade Agreement - <http://www.canadianeconomy.gc.ca/English/economy/1989economic.html>
- ♦ Mobility 2000 - <http://ieeexplore.ieee.org/Xplore/login.jsp?url=/iel2/494/3120/00098814.pdf?temp=x>
- ♦ Strategic Plan for Intelligent Vehicle Highway Systems in the United States - [http://www.itsdocs.fhwa.dot.gov/JPODOCS/REPTS\\_PR/1823.pdf](http://www.itsdocs.fhwa.dot.gov/JPODOCS/REPTS_PR/1823.pdf)
- ♦ Cold War Ends photo - [http://www.coldwar.org/museum/berlin/wall\\_exhibit.html](http://www.coldwar.org/museum/berlin/wall_exhibit.html)
- ♦ High Performance Computing Act of 1991, Public Law 102-194 - <http://thomas.loc.gov/cgi-bin/query/D?c102:3:./temp/~c102zKaQTB:>
- ♦ Tim Berners-Lee, HTML - <http://inventors.about.com/od/istartinventions/a/Internet.htm>
- ♦ Intermodal Surface Transportation Efficiency Act of 1991, Public Law 102-240 - <http://thomas.loc.gov/cgi-bin/bdquery/z?d102:HR02950:>
- ♦ NAFTA, Public Law 103-182 - [http://www.nafta-sec-alena.org/DefaultSite/Index\\_e.aspx?DetailID=78](http://www.nafta-sec-alena.org/DefaultSite/Index_e.aspx?DetailID=78)
- ♦ US DOT, RITA Global Connectivity - [http://www.rita.dot.gov/publications/transportation\\_rdt\\_strategic\\_plan/html/chapter\\_05.html](http://www.rita.dot.gov/publications/transportation_rdt_strategic_plan/html/chapter_05.html)
- ♦ GPS Air Force Fact sheet - <http://www.af.mil/factsheets/factsheet.asp?fsID=119>
- ♦ US Coast Guard - <http://www.navcen.uscg.gov/gps/default.html>
- ♦ U.S. Department of Defense - <http://www.defenselink.mil/>
- ♦ OK-SAFE website for MOU between DOD and DOJ - <http://www.ok-safe.com>
- ♦ GPS Policy, Presidential Decision Directive NSTC-6 - <http://www.fas.org/spp/military/docops/national/gps.htm>
- ♦ Lockheed Martin - <http://www.lockheedmartin.com>; K.C. Jones, Information Week, February 13, 2008; <http://www.networkworld.com/news/2008/070308-lockheed-martin-defense-distribution-network.html>
- ♦ Intermodal Association of North America - [www.intermodal.org](http://www.intermodal.org)
- ♦ Michael Gallis & Associates Presentation to the 25<sup>th</sup> International Association of Ports and Harbors Worlds Ports Conference, April 2007, "BRICs in the 21<sup>st</sup> Century Global Marketplace" ppt - <http://www.iaphworldports.org/HoustonPresentations/IAPH2007-Gallis.pdf>
- ♦ OK-SAFE, Inc., NASCO Open Records - <http://www.ok-safe.com>
- ♦ NASCO - <http://nascocorridor.org/>
- ♦ Megaregions Information, America 2050 - <http://www.america2050.org>
- ♦ Texas HB 3588, pages 84-85 - <http://www.legis.state.tx.us/billlookup/Text.aspx?LegSess=78R&Bill=HB3588>
- ♦ L-1 Identity Solutions, Board, legislation - <http://www.l1id.com>, <http://www.l1id.com/pages/206-board-of-directors> ; <http://www.l1id.com/pages/206-legislation>
- ♦ U.S. Department of State - [http://www.travel.state.gov/passport/ppt\\_card/ppt\\_card\\_3926.html](http://www.travel.state.gov/passport/ppt_card/ppt_card_3926.html)
- ♦ Agenda 21 Sustainable Development - <http://www.un.org/esa/sustdev/documents/agenda21/index.htm>
- ♦ More Washington-Insider Clout... - <http://nerdtwillight.wordpress.com/2006/07/24/more-washington-insider-clout-added-to-viisages-board/>
- ♦ The Blue Marble photo - [http://visibleearth.nasa.gov/view\\_rec.php?id=174](http://visibleearth.nasa.gov/view_rec.php?id=174)
- ♦ Vicky Davis, Researcher, Background/Analysis - <http://www.channellingreality.com>
- ♦ D. Niwa, Researcher, AZ