### Welcome to Indy



**Driving Indiana's Economic Growth** 

### Freight movement is the economy in motion



**FREIGHT** 



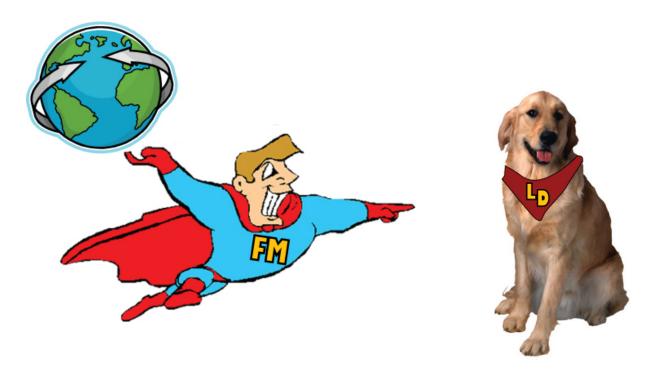


MOBILITY





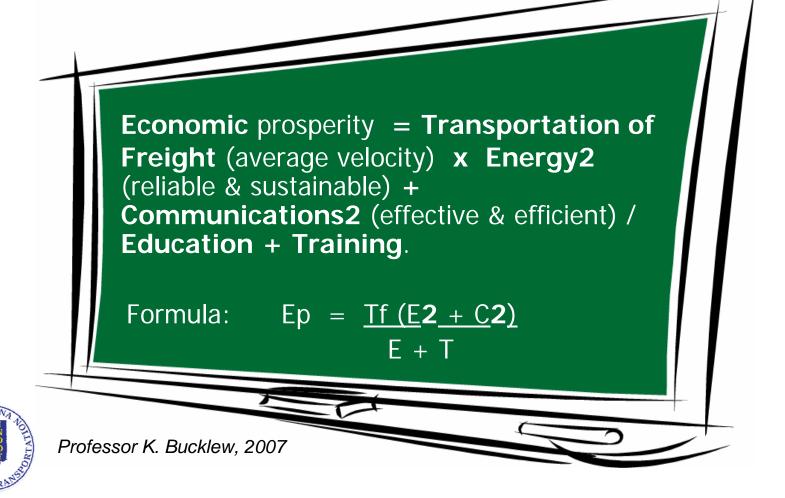
### Indiana is a key link in the global supply chain



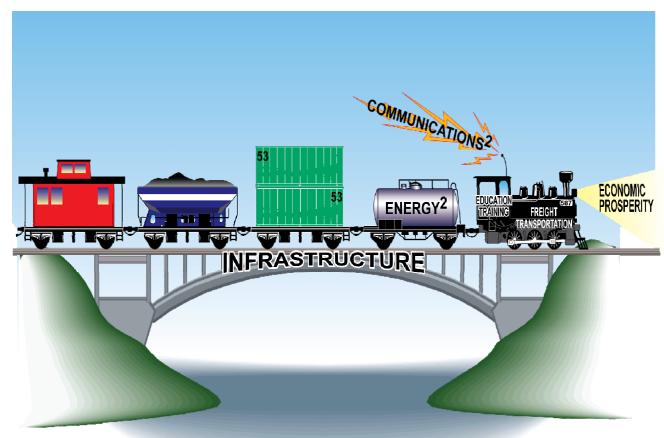


Freight Man and Log Dog say: "Freight" is the Economy's Best Friend."

## Principle: The Economy moves at the average velocity of Freight.



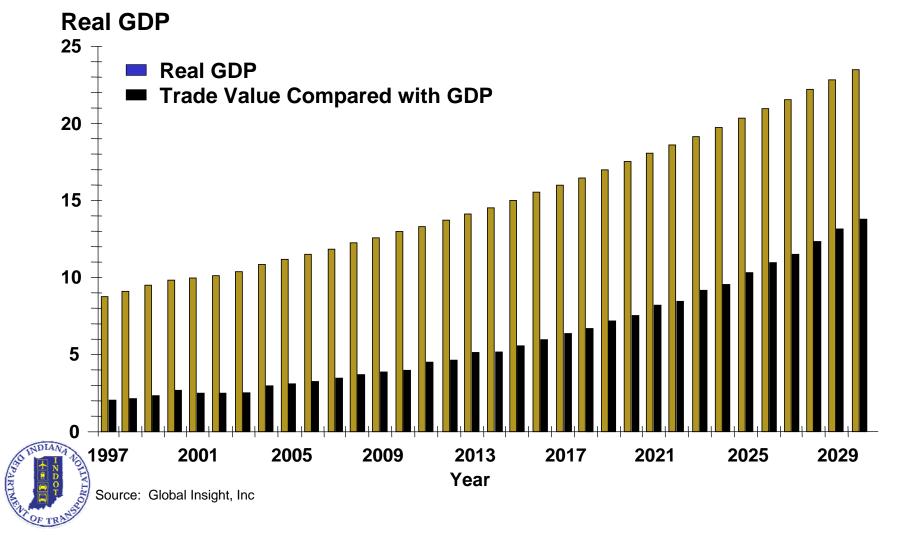
# Principle: The Economy moves at the average velocity of Freight.





#### Trade Growth, 1997 to 2030

The forecast is for continued trade growth; the value of U.S. imports and exports is expected to be equivalent to 60 percent of GDP by 2030; this trade will concentrate at our major international freight gateways



### **Freight Demand**

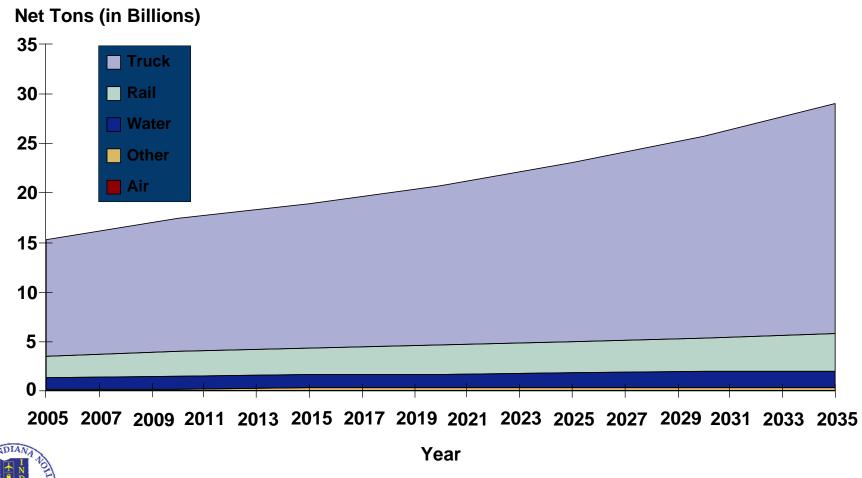
The four major drivers behind the increasing freight demand are -

- Consumption
  - Population growth
- Production
  - Expanding durable and non-durable goods manufacturing
- Trade
  - Import and export growth
- Supply Chain practices
  - Changing logistics strategies



#### Freight Tonnage by Mode, 2004-2035

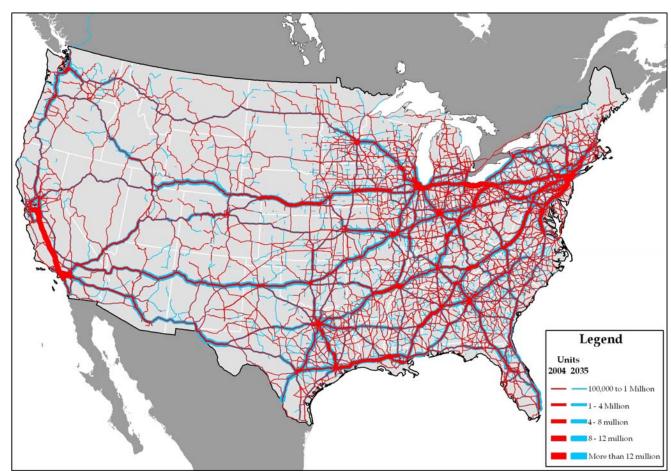
With moderate economic growth at about 2.8 percent CAGR, freight tonnage will nearly double by 2035



Source: Global Insight, Inc., 2004 TRANSEARCH data and economic forecasts.

#### Freight-Truck Highway Flows in 2005 and 2035 Trucks per Year

By 2035, every freight truck on the road today will have one more truck behind it; 2,500 miles of Interstate will be carrying >50,000 trucks per day compared to 30 miles today

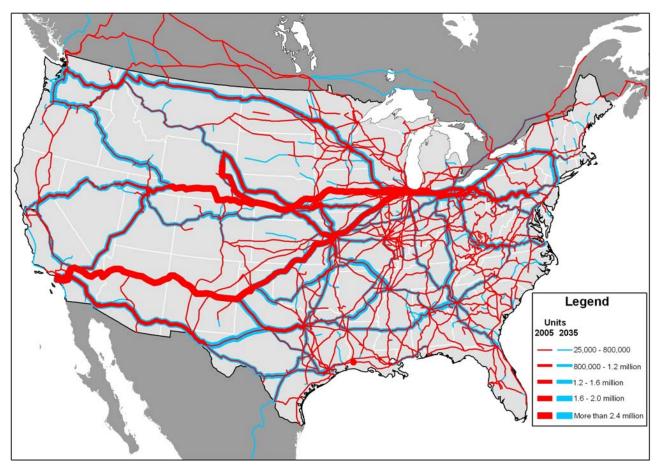




Source: Cambridge Systematics based on Global Insight, Inc TRANSEARCH 2004 data and economic forecasts

#### Rail Flows in 2005 and 2035 - Railcars and Containers per Year

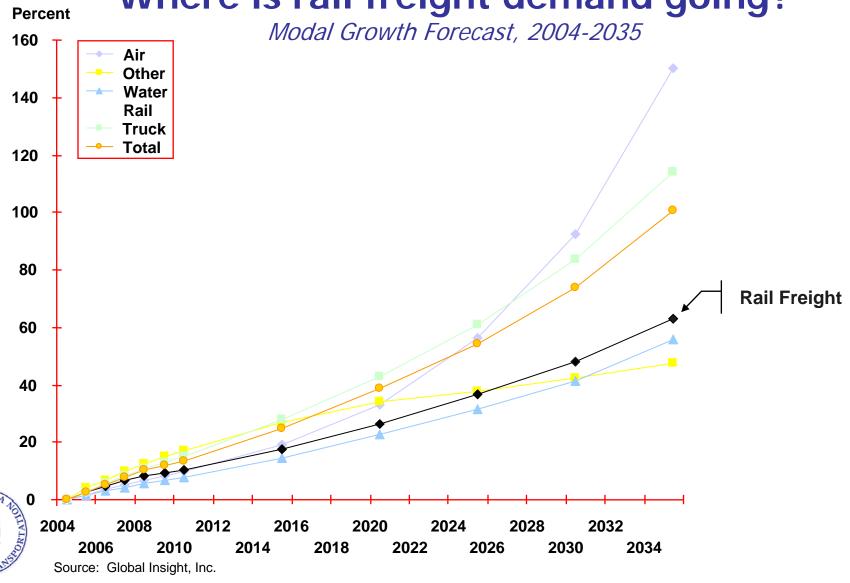
By 2035, every second railcar on the network today will have one more railcar behind it; the rail industry must add capacity to handle 60 percent more tonnage and 73 percent more ton-miles





Source: Cambridge Systematics based on Global Insight, Inc TRANSEARCH 2004 data and economic forecasts

#### Where is rail freight demand going?



### Multi Modal Perspective - 2002



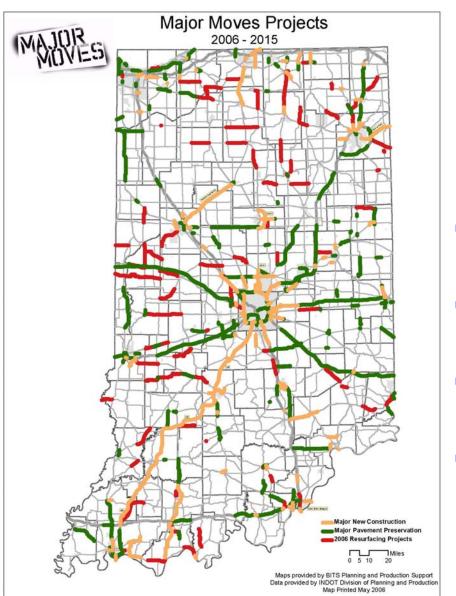


### **Solutions**

- Do nothing. Let it come to grid lock.
- Reduce consumption
- Use IT solutions
  - Advanced traffic management systems
  - Traveler information
  - WIM
  - VII
  - Electronic tolling
- Policy development
  - New transportation network
  - Congestion pricing
  - Mileage based tax vs. tax/gallon
- Managed lanes
- Mass transit
  - If we build it, will they come?
- Add infrastructure
  - Expand: more roadway lanes, more railway lines
  - New roadway/railway





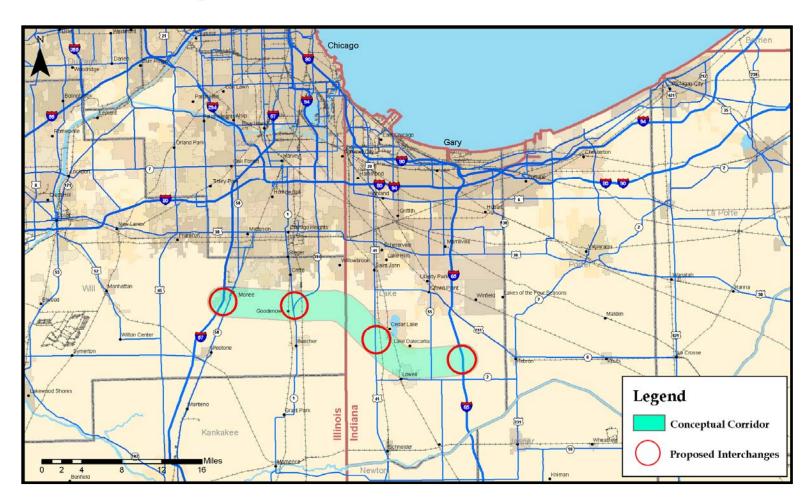




- •10 Year plan (2006 – 2015)
- 200+ new construction projects
- 200+ major preservation projects
- Includes I-69Evansville to Crane(1 3 sections)

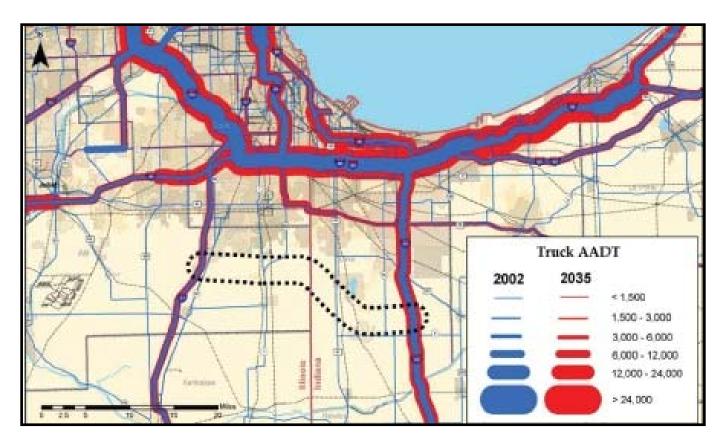


## **Conceptual Illiana Corridor**





# Growth in Truck Traffic in the Chicago / NW Indiana Region

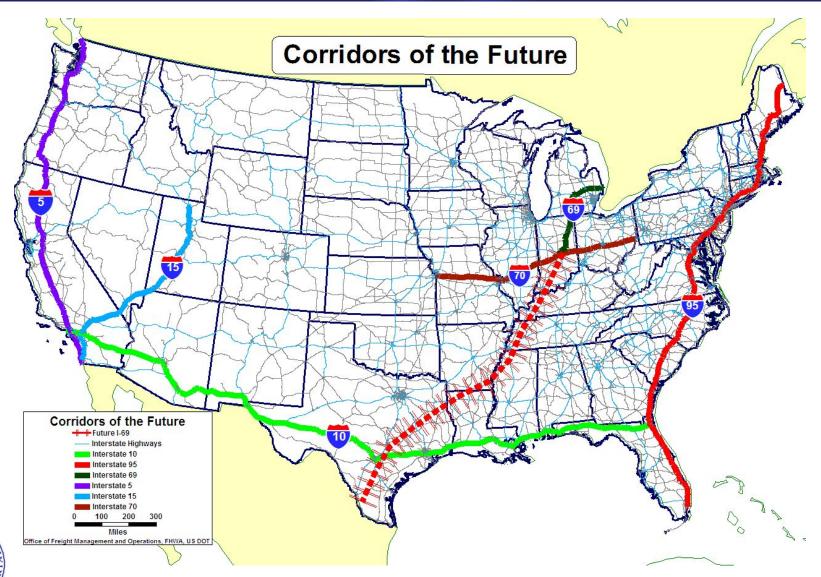




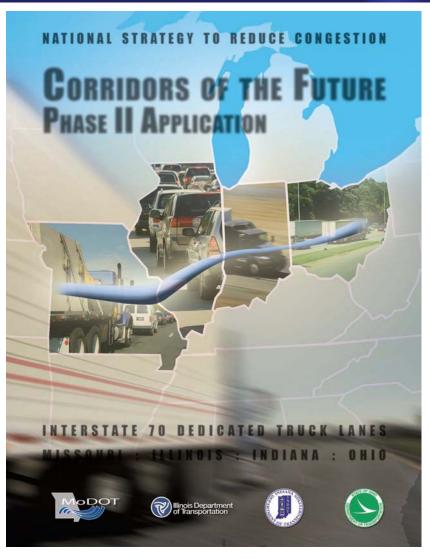
# I-69 – A North American Commerce Corridor











800 miles - 4 states

Dedicated Truck
Lanes

A New and Innovative Way Ahead



# Goal: An Efficient, Reliable, Sustainable World Class Transportation System

#### Primary Objectives:

- Reduce Congestion
  - Improve Quality of Life
  - Incorporate existing and future Intelligent Tech Solutions (ITS)
- Enhance Mobility and Improve Reliability
  - Strengthen and Sustain national and global supply chains that support the economy
  - Incorporate information management solutions timely, accurate and relevant traveler information such as crashes, construction, weather

#### Improve Safety

- Minimize crashes
- Reduce fatalities and injuries

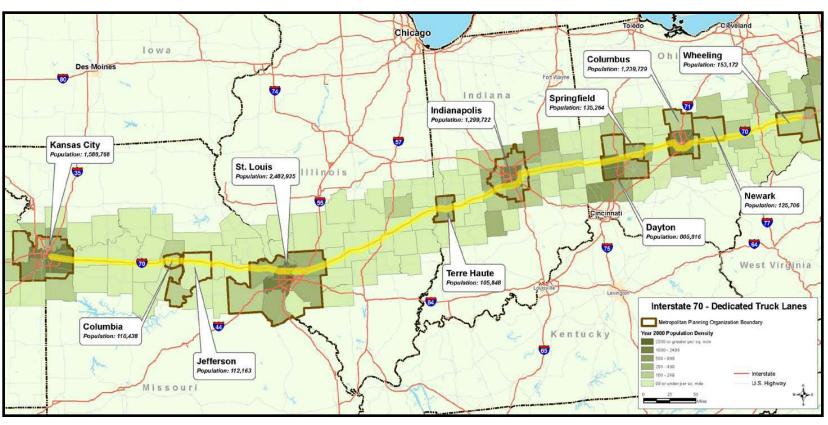


# Goal: An Efficient, Reliable, Sustainable World Class Transportation System

- Secondary Objectives:
  - Enhance Economic Development in certain geographic areas
    - Improve Quality of Life Societal, Job creation
    - Improvements in carrier productivity: size and weight of LPVs
  - Reduce impacts to environment, communities and public health
  - Improve Security
    - Freight/Cargo security
    - National Security: Economics and Military reliable mobility
  - Facilitate Multimodal Integration all modes
    - Improve access and interchangeability all modes
    - Provide seamless connectivity now it's less than efficient

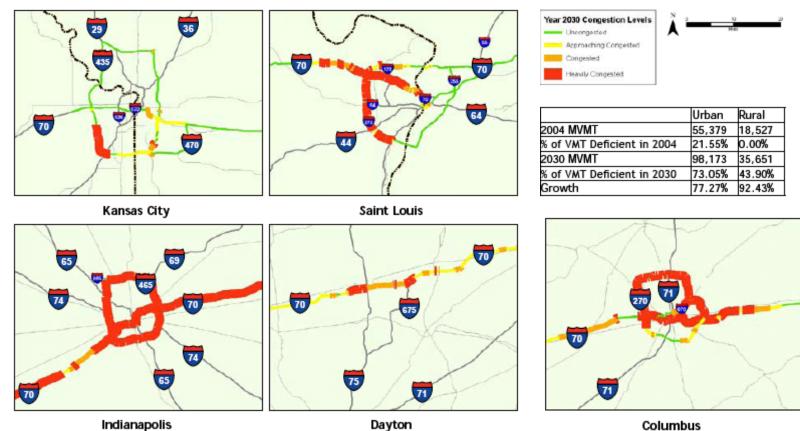


## **Project Area**





### **Corridor Conditions – 2030 Urban Area Congestion**



Source: Wilbur Smith Associates, 2007



### Separation as a Solution

### Separating trucks from passenger cars

- Improves safety
  - -For example, conflicts and fatalities will be reduced
- Reduces congestion and enhances mobility
  - -For example, vehicles accelerate and decelerate at different speeds



## **Design and Technology - Concepts**



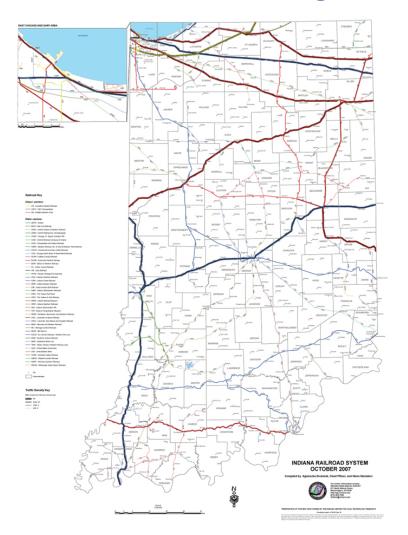


# Design and Technology – Concepts Technology Integration

- ITS
- Advanced Traffic Management Systems
- Traveler Information
- Emergency Management
- Weigh-in-Motion / Virtual Weigh-in-Motion
- Vehicle Infrastructure Integration (VII)
- Electronic Tolling
- Roadside Parking
- Virtual wireless vehicle and operator inspections



## **Indiana Rail Systems**





## **Transportation Realities**

- Congestion is not going away it's getting WORSE
- Freight volumes and demand are increasing
- The economy moves at the average speed of freight
- In today's markets there are three constants: Change, Growth and...Trouble (opportunities)
- There is NO Road Fairy, roads do not happen by magic
- If we build it, they will come; If we do not build it, they will come anyway. Then what?
- Every transportation project is a freight project



## Freight Man stands for <u>Efficient</u>, <u>Reliable and</u> <u>Safe Commerce Routes</u> – it's the American way!





Log Dog says: In Indiana, we get the GIST in Logistics

### Questions or comments?

Keith Bucklew, Director Freight Mobility INDOT



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