

Presentation to: Minnesota High Speed Rail Commission and Empire Builder Coalition



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CANADIAN PACIFIC

Freight Traffic Flows



Canadian Pacific's Network



- 98.5% freight – 1.5% passenger
- 33,000 passenger trains per year
- 20 Amtrak trains per day



PUBLIC BENEFITS OF FREIGHT RAIL

One Intermodal Train takes 280 trucks off the Highway



Freight rail - **greenest**, most fuel-efficient form of ground transportation

- “A train can move the same load as 280 trucks” – *Association of American Railroads*
- One Ton is carried 456 miles on one gallon of fuel
- 12 times more effective than truck in greenhouse gas reduction –
US DOT Best Practices Guidebook for Greenhouse Gas Reductions in Freight Transportation, October 4, 2007

CP WORKS HARD TO INCREASE NETWORK FLUIDITY

- **Locomotive acquisitions**
- **More rail car acquisitions, including by shippers**
- **High tech maintenance**
- **Operations planning**

Within the last decade:

Average Train Weights	14% heavier
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Average Train Length	11% longer
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GTM's per Employee	48% higher
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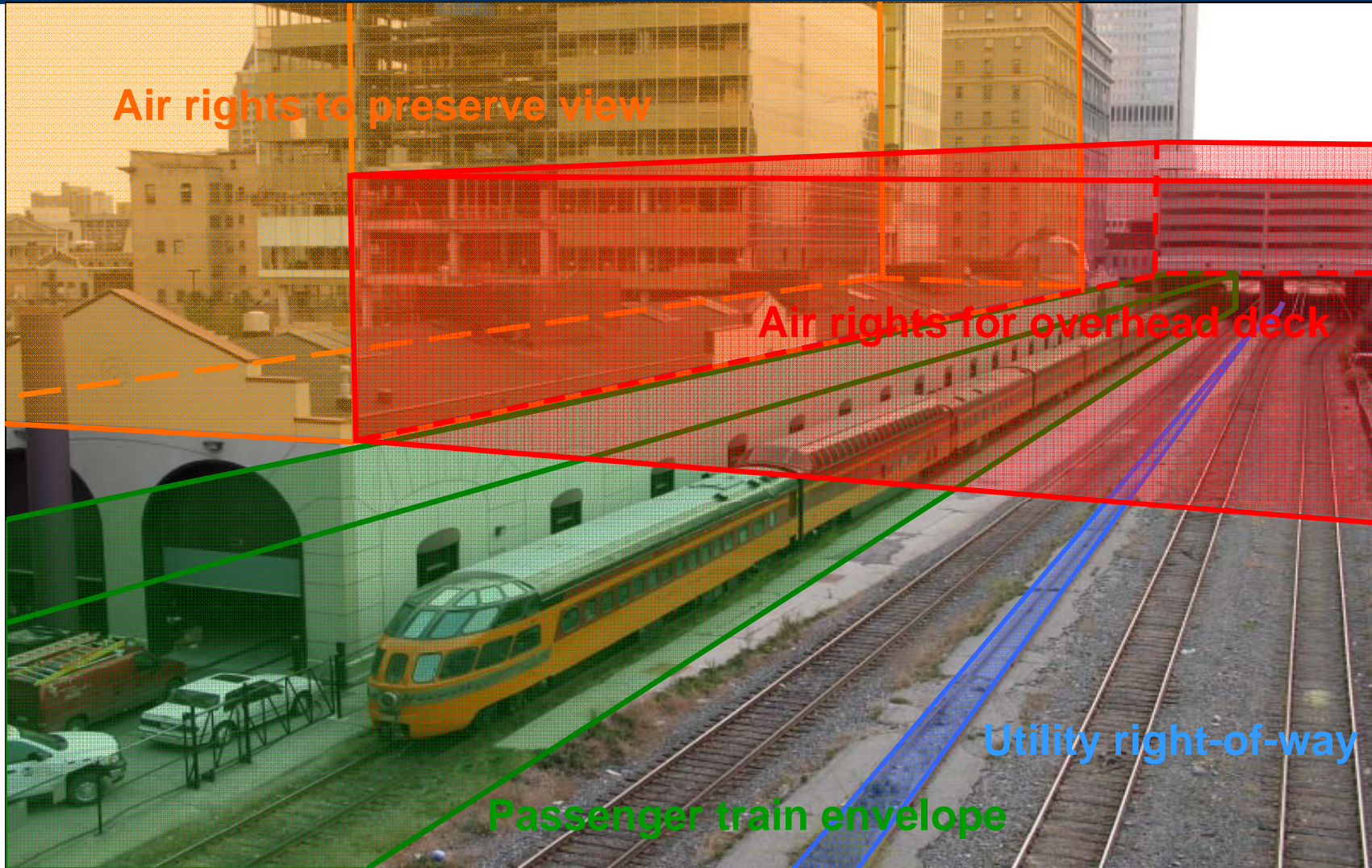


BASIC PRINCIPLE

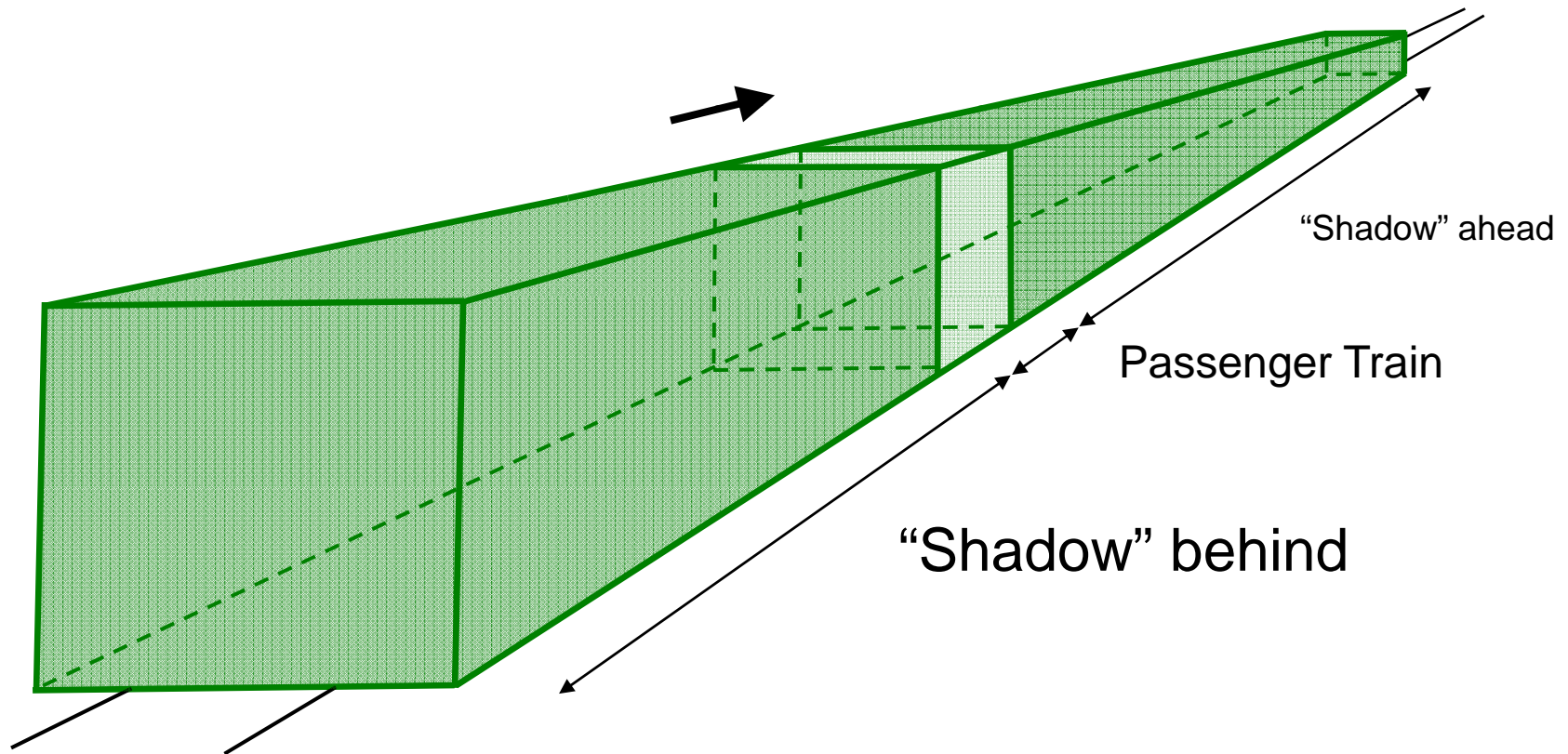
“America’s world-class freight rail system must be preserved and improved”

Joe Szabo, Administrator, Federal Railroad Administration (FRA)

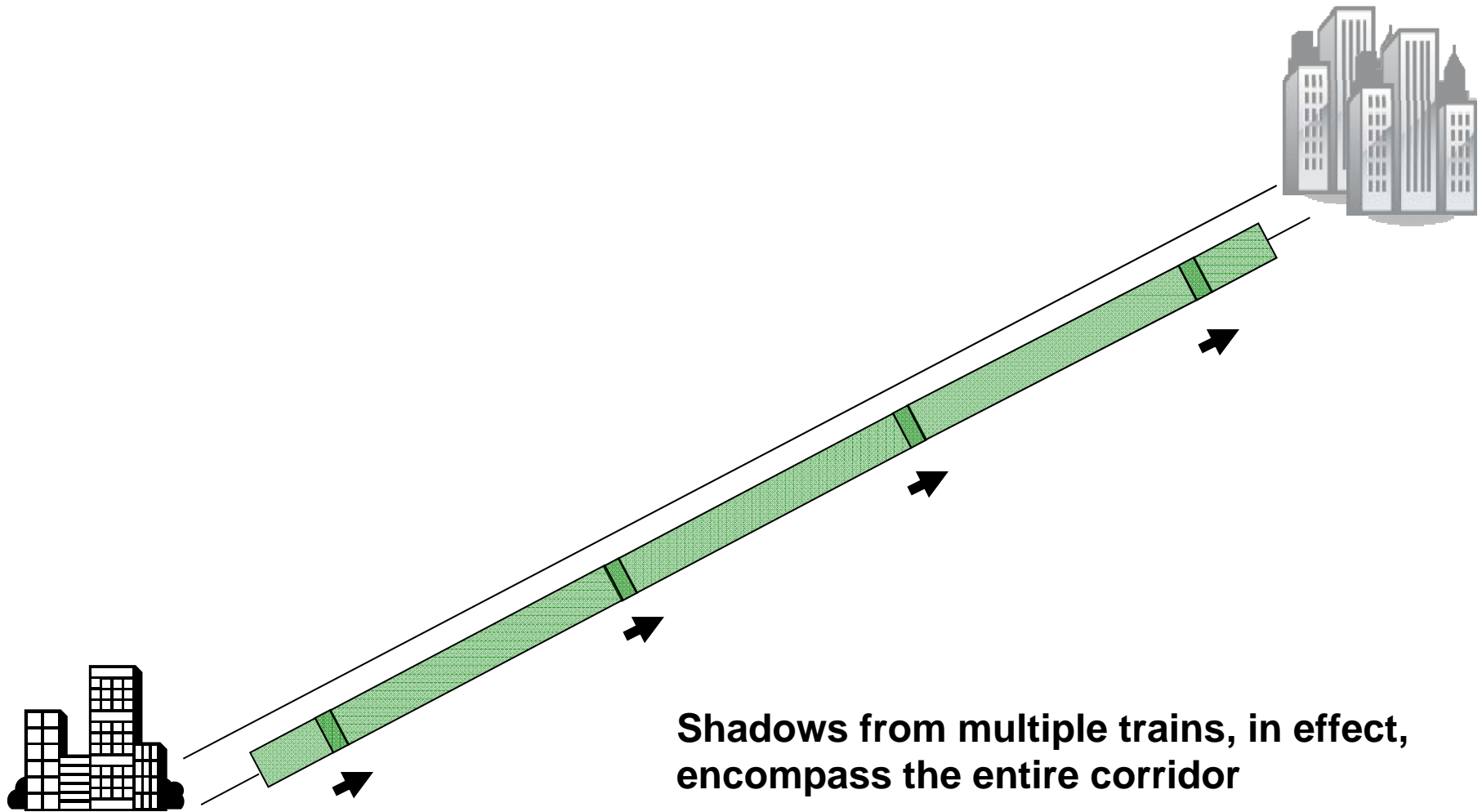
CAPACITY ANALOGY



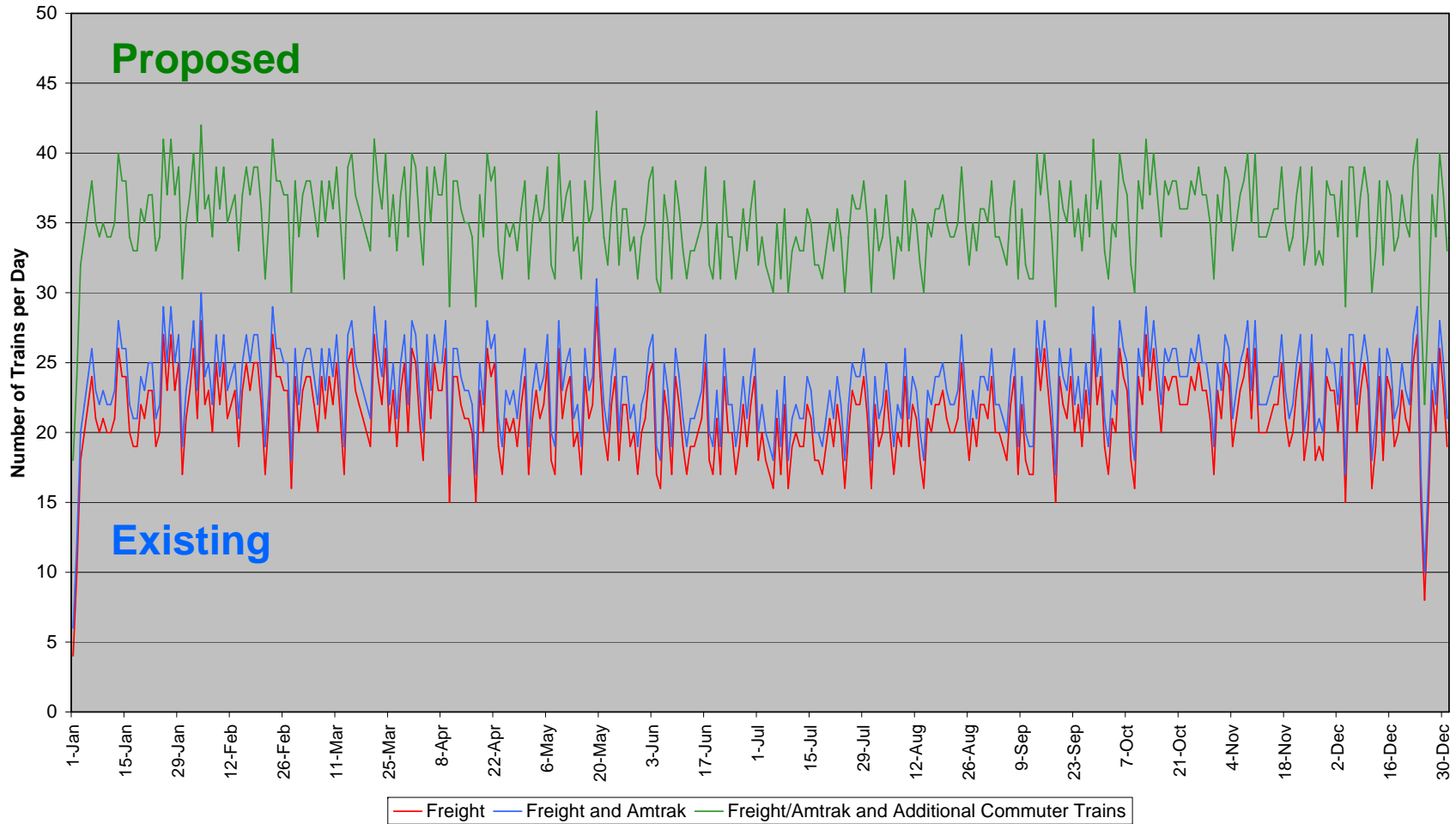
CORRIDOR CAPACITY- MOVING TRAIN



CORRIDOR CAPACITY- MOVING TRAINS



OPERATIONS PLANNING - PROJECTIONS



ADD CAPACITY FOR PASSENGER RAIL



Upgrade existing track



Install Crossovers



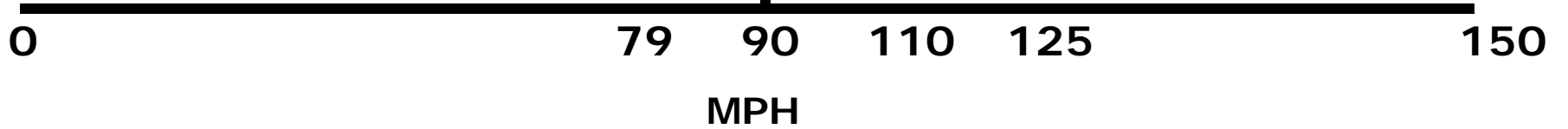
Shared Operations - Passenger and Freight

POLICY

90 MPH Policy of Many Class One Railways

Shared Track

Separate Track

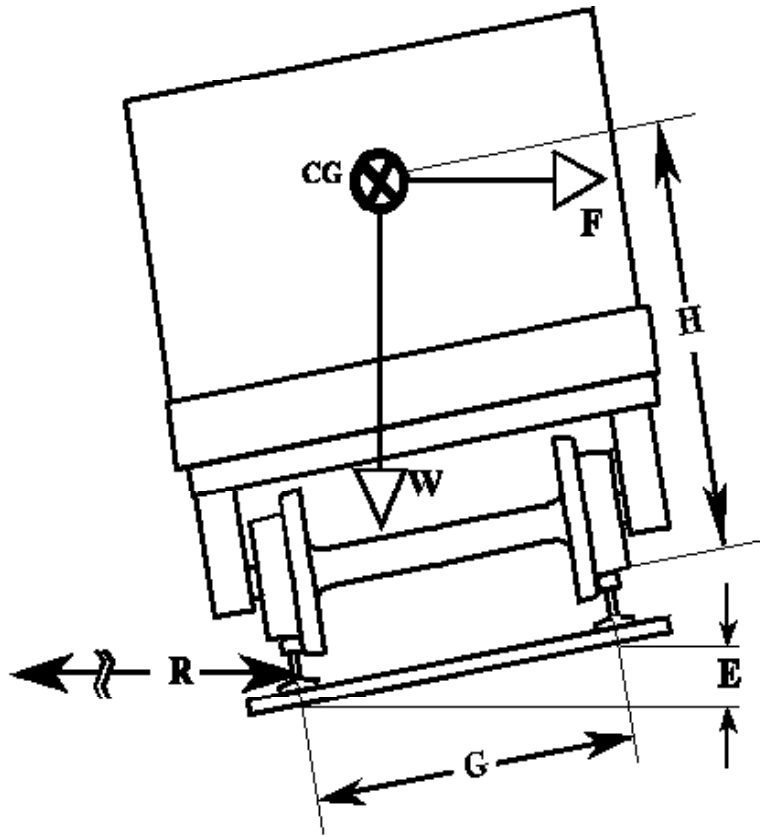


DESIGNING FOR VELOCITY



- Freight - 9,000 feet, 17,000 tons – *continuous velocity*
- Talgo - 700 feet, 700 tons – *"jackrabbit" velocity*

DESIGNING SUPERELEVATION



Optimize for Tonnage to Avoid
Premature Wear of Rails

Accommodate Passenger
Technology

One of the Busiest Rail Junctions in North America



Conclusions

- **Freight Rail is your Friend – Public Benefits**
- **Fund Capacity for Passenger that Preserves and Improves Freight**