



# CONNECTIONS 2040

PLAN FOR GREATER PHILADELPHIA

*fostering sustainability, equity and innovation*

## THE FUTURE OF SCENARIO PLANNING

Environmental Justice Working Group | May 8, 2014

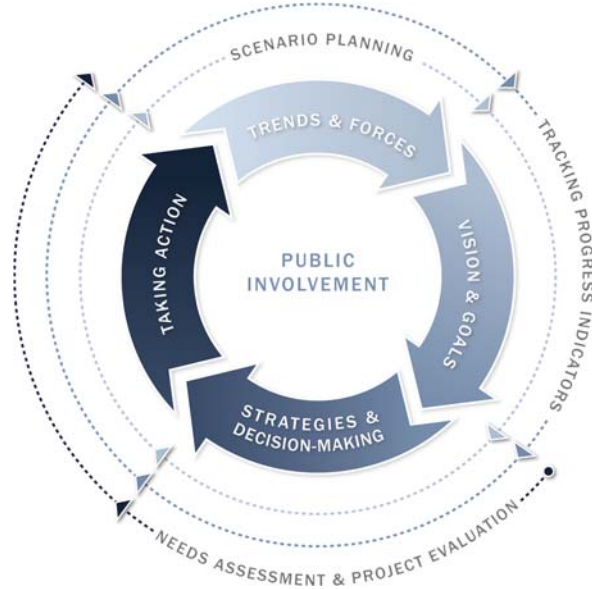


## AGENDA

- DVRPC's scenario planning
- Model for scenario development
- Potential global drivers of change
- Group discussion:
  - Global drivers
  - Regional gamechangers
  - The scenario working group
  - Involving EJ communities



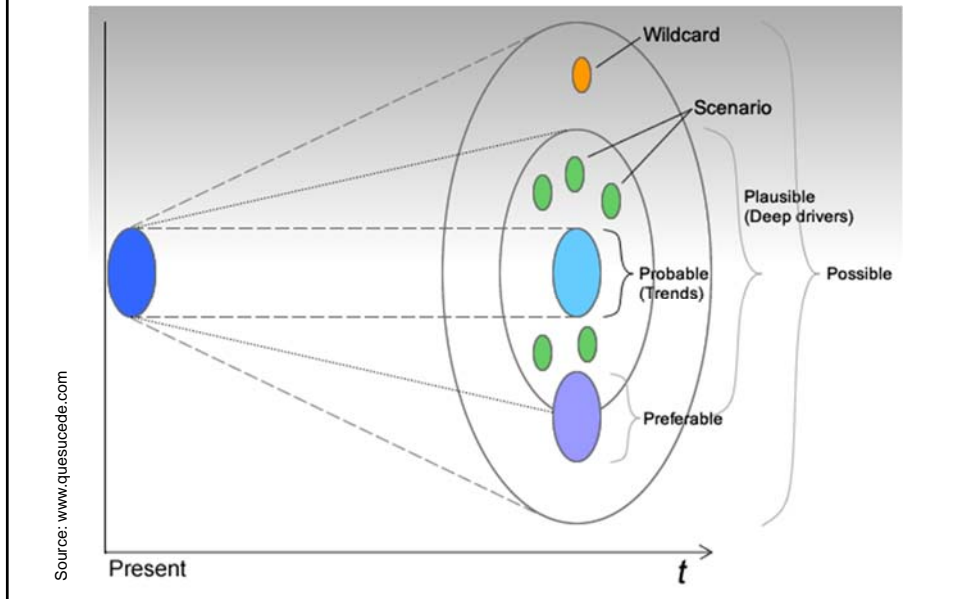
## LONG-RANGE PLANNING



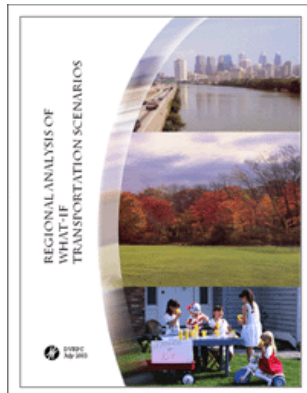
## ENVIRONMENTAL JUSTICE

Identify residential, employment, and transportation patterns of low income and minority populations so that their needs may be identified and addressed, and the impacts of transportation can be fairly distributed.

# SCENARIO PLANNING



## “WHAT-IF” TRANSPORTATION SCENARIOS

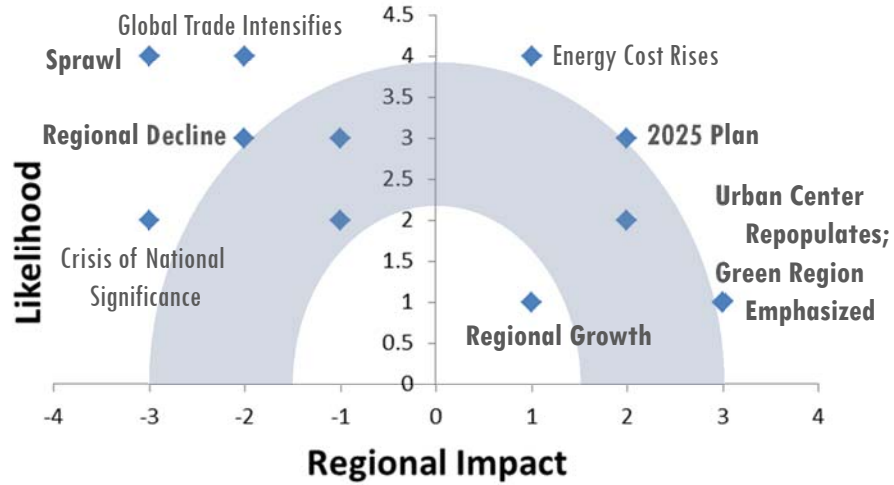


2003, Publication  
#03020

- 2025 Plan
- Urban Center Repopulates
- Sprawl Accelerates
- IT amenities grow
- Regional economy strengthens
- Global trade intensifies
- Energy cost rises
- Infrastructure Investment Expands
- In-migration increases
- Out-migration increases
- Green region emphasized
- Crisis of national significance occurs



## “WHAT-IF” TRANSPORTATION SCENARIOS

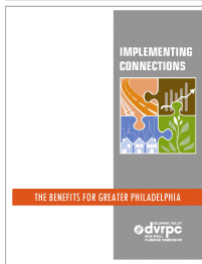


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## DVRPC LAND USE SCENARIOS



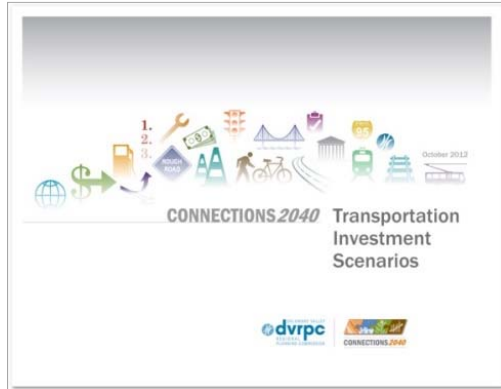
**Making the Land Use Connection:  
Regional What-if Scenario Analysis**  
(2008, Pub #08059)



**Implementing Connections:  
The Benefits For Greater Philadelphia**  
(2011, Pub #11045)

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# CONNECTIONS 2040

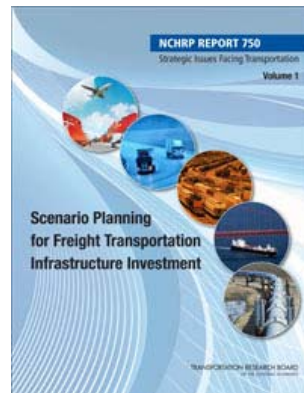


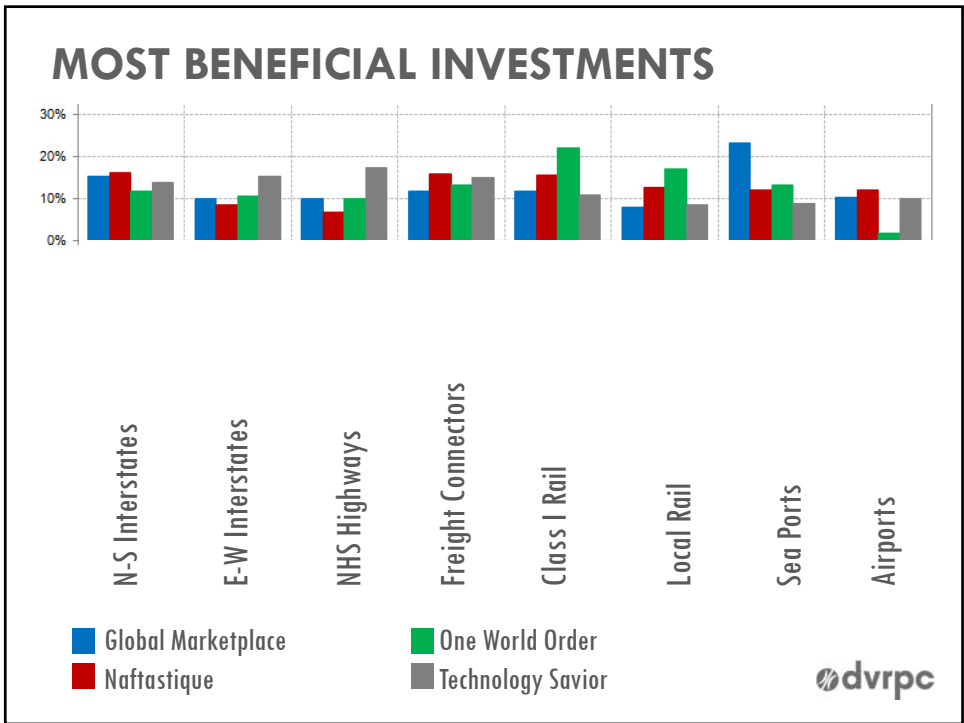
2012, Pub. #13004

[www.dvrpc.org/choicesandvoices](http://www.dvrpc.org/choicesandvoices)

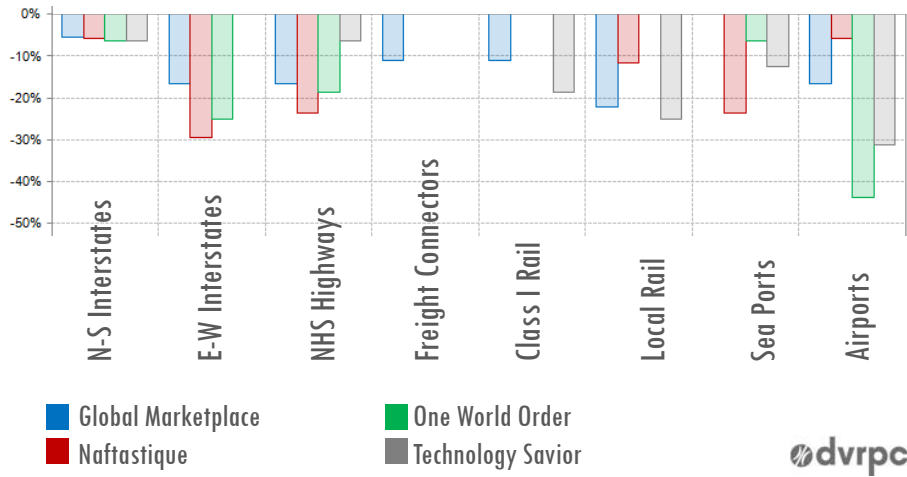


# FUTURE FREIGHT FLOWS

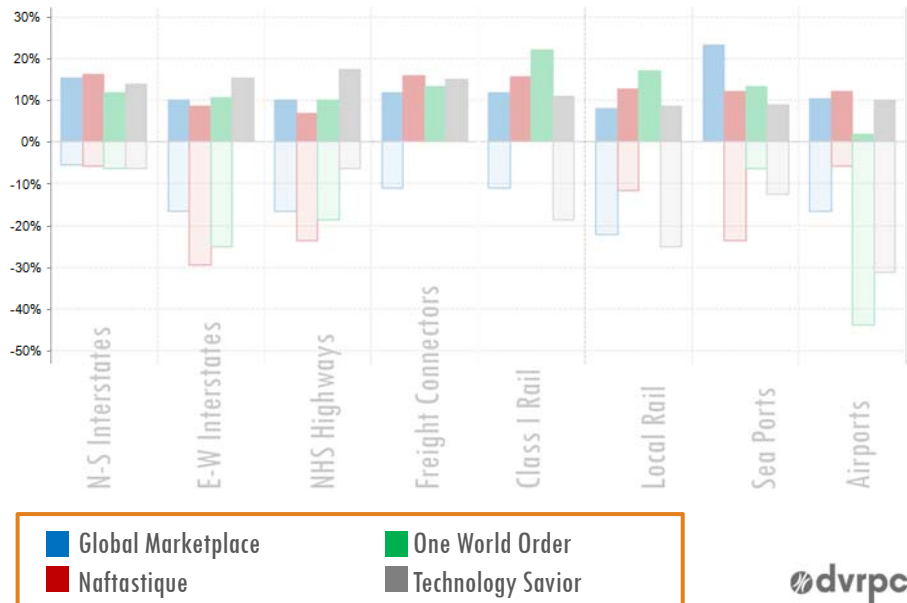




## LEAST BENEFICIAL INVESTMENTS



## ROBUST INVESTMENTS



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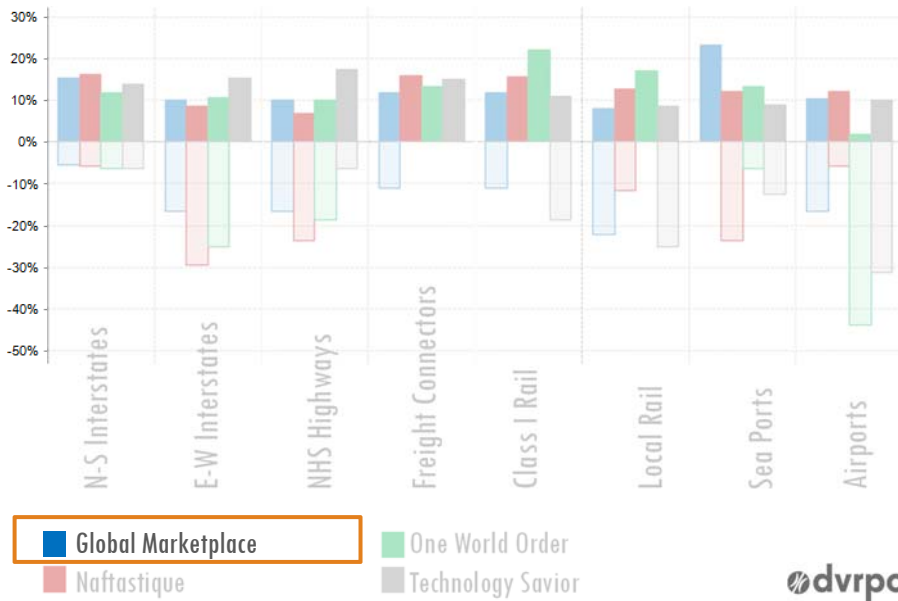




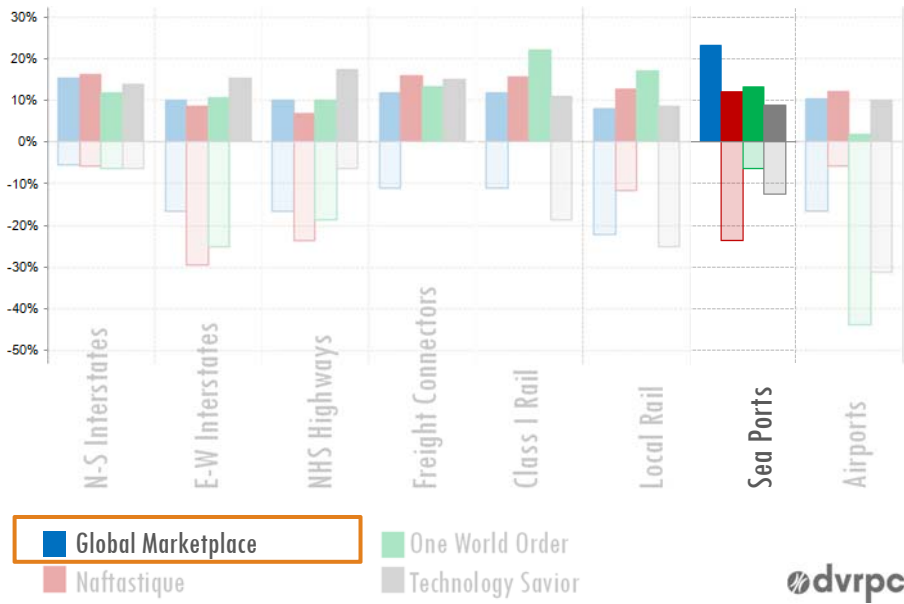
## ROBUST INVESTMENTS



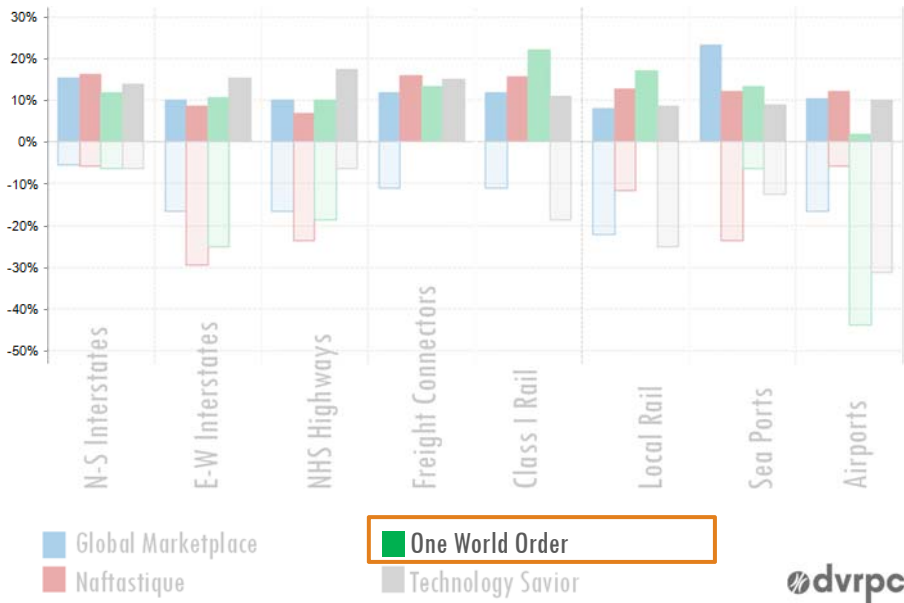
## CONTINGENT INVESTMENTS



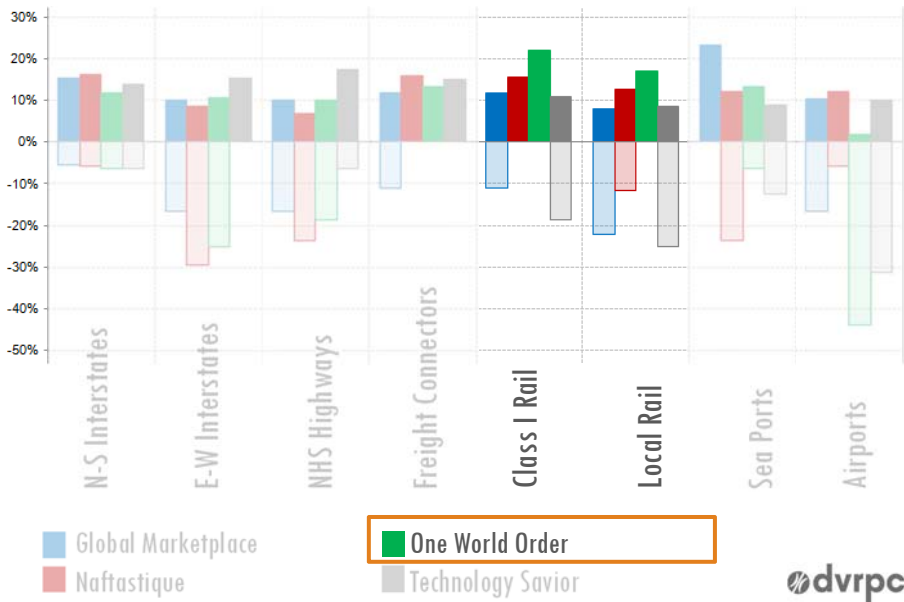
## CONTINGENT INVESTMENTS



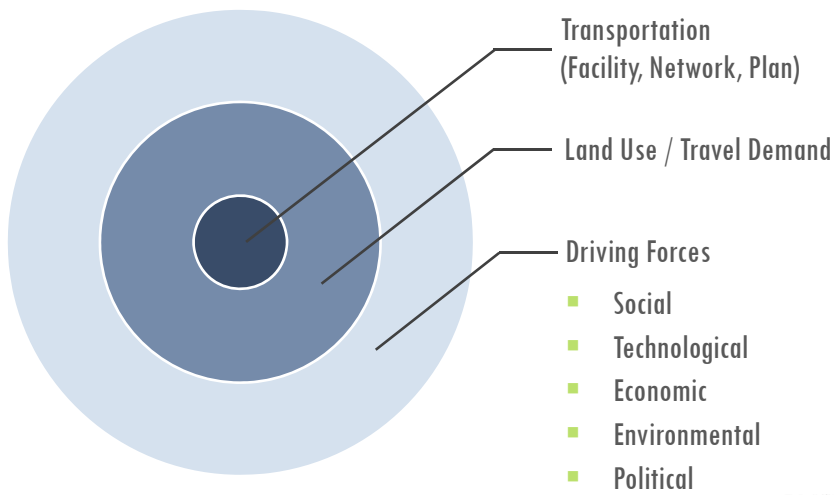
## CONTINGENT INVESTMENTS



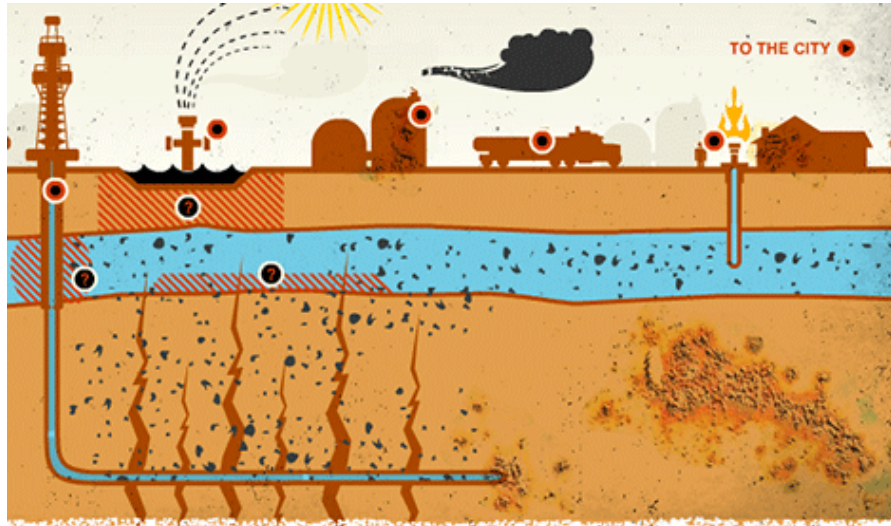
## CONTINGENT INVESTMENTS



## SCENARIO PLANNING



## CHEAP ENERGY



Source: Treehugger.com

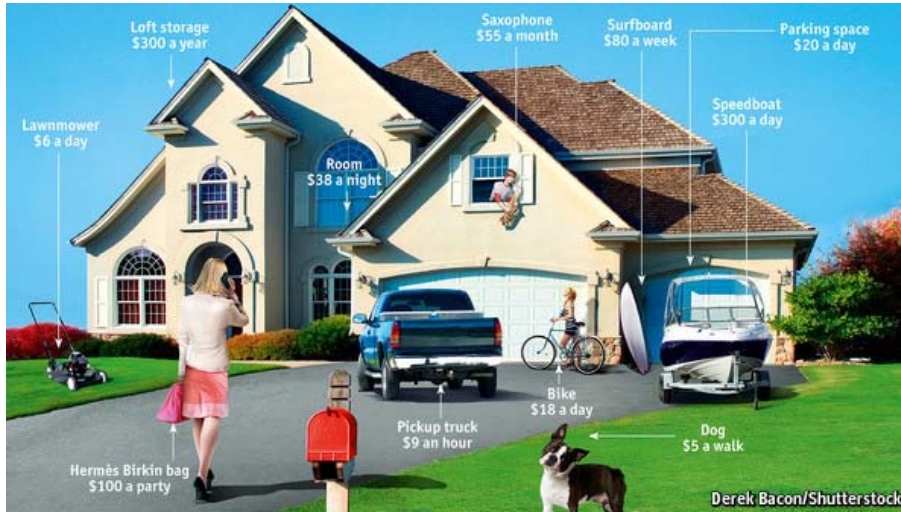
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## THE MILLENNIALS



Source: Time

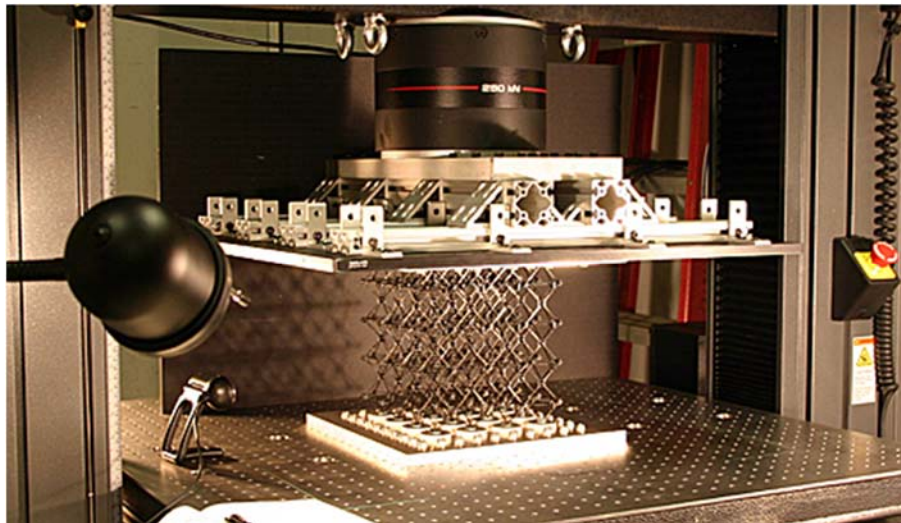
## THE SHARED ECONOMY



Source: The Economist



## 3-D PRINTED INFRASTRUCTURE



Source: Massachusetts Institute of Technology



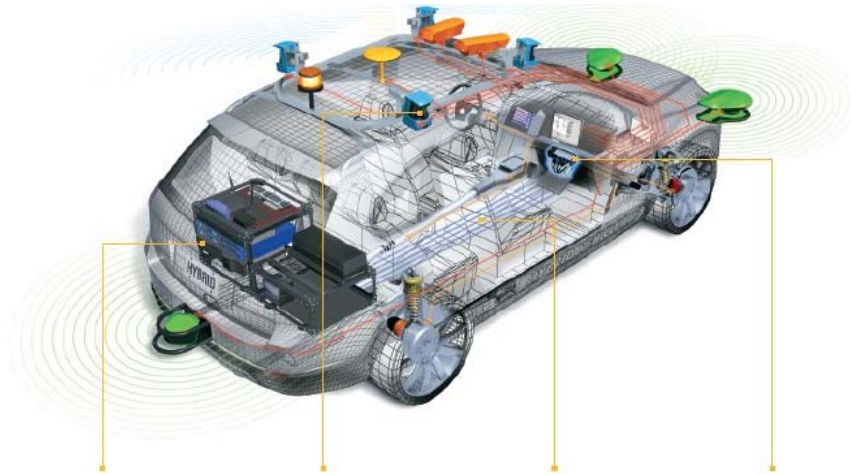


## CONFRONTING CLIMATE CHANGE



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## AUTONOMOUS VEHICLES



Multicore, Heterogeneous Computing  
Source: National Instruments

Sensor Data Acquisition and Processing

JAS Interoperable Communications

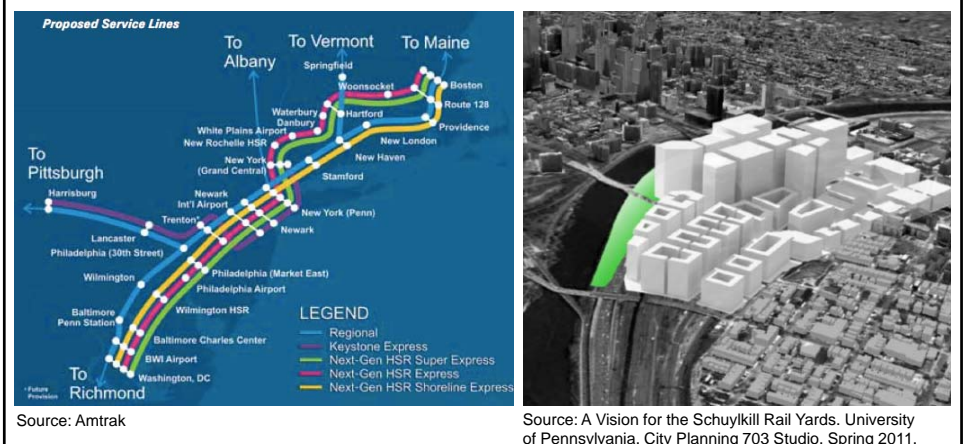
Drive-by-Wire System

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# WHAT ARE YOUR DRIVERS OF CHANGE?



# REGIONAL GAMECHANGERS



Source: Amtrak

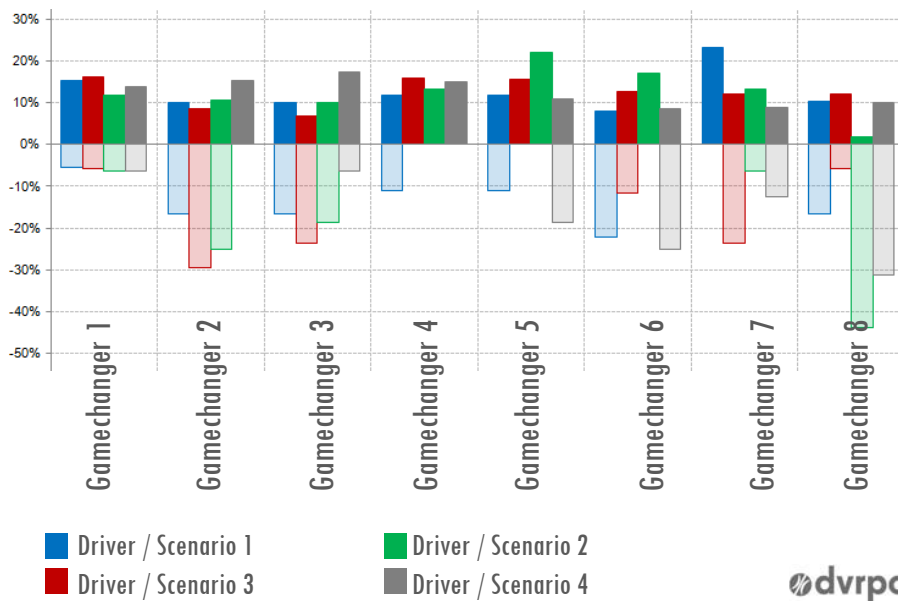
Source: A Vision for the Schuylkill Rail Yards. University of Pennsylvania. City Planning 703 Studio. Spring 2011.



## WHAT ARE YOUR REGIONAL GAMECHANGERS?



## DRIVER – GAMECHANGER RELATIONSHIP





## SCENARIO WORKING GROUP

- Collaborative
- Blend Perspectives:
  - Transportation, Land Use, Economic, Environmental, and Health
- Public Outreach
- Challenge conventional wisdom and convene outside experts
- Brainstorm Global Drivers of Change and Regional Gamechangers
- Analyze 4-5 Differentiated Drivers/Scenarios
- Identify Action Steps
- Short, narrative report & incorporate into Choices & Voices

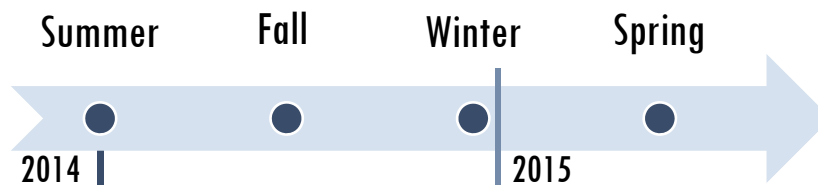


## DO YOU HAVE SUGGESTIONS FOR THE WORKING GROUP?



Source: A Vision for the Schuylkill Rail Yards. University of Pennsylvania. City Planning 703 Studio. Spring 2011.

## PUBLIC OUTREACH

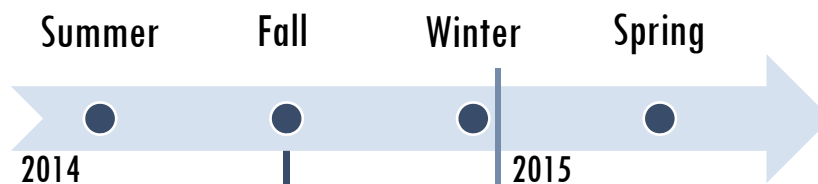


Twitter/Facebook/E-mail campaign “#DVRPC Futures Tell us how social, technological, environmental, economic, or political transformations are going to change how you get around or need to get around Greater Philadelphia in the future”

- Reinforce with in person outreach set up at malls/parks/transit stations + media blast



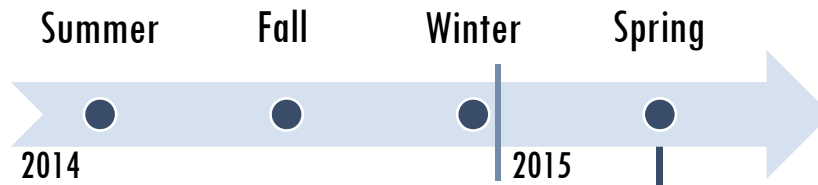
## PUBLIC OUTREACH



Twitter/Facebook/E-mail campaign “#DVRPC Futures Tell us what transportation or development projects would be gamechangers for Greater Philadelphia”



## PUBLIC OUTREACH



Present scenarios/drivers to Environmental Justice Working Group; break out group discussions on potential EJ impacts and strategies to improve outcomes for each scenario/driver

- Similar discussions with Goods Movement and Healthy Communities Task Forces



## HOW CAN WE BETTER INVOLVE EJ COMMUNITIES?



Source: A Vision for the Schuylkill Rail Yards. University of Pennsylvania. City Planning 703 Studio. Spring 2011.



## **CONNECTIONS**2040

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*fostering sustainability, equity and innovation*

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**[www.dvrpc.org/connections2040](http://www.dvrpc.org/connections2040)**  
**[www.dvrpc.org/choicesandvoices](http://www.dvrpc.org/choicesandvoices)**

**THANK YOU!!**

