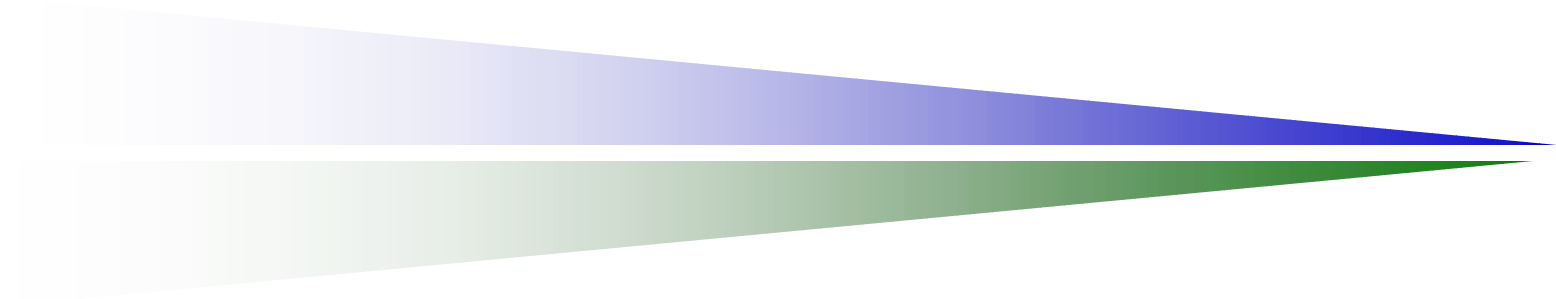


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**Presented by Mark Burton of the Center for Business and Economic Research, Marshall University at the West Virginia Hydrogen Workshop on November 19, 2003 at Stonewall Resort, Roanoke, WV. This meeting was a part of the Energy Roadmap Workshop Series commissioned by West Virginia Governor Bob Wise.**




# **Understanding Markets for Hydrogen and Related Opportunities For Economic Development**

Center for Business and Economic Research

**Marshall University**


# ***Discussion Overview***



- **Project Background**
  - **Principal Outlets**
  - **Industrial Consumption**
  - **Transportation Applications**
- 

# ***Project Background***

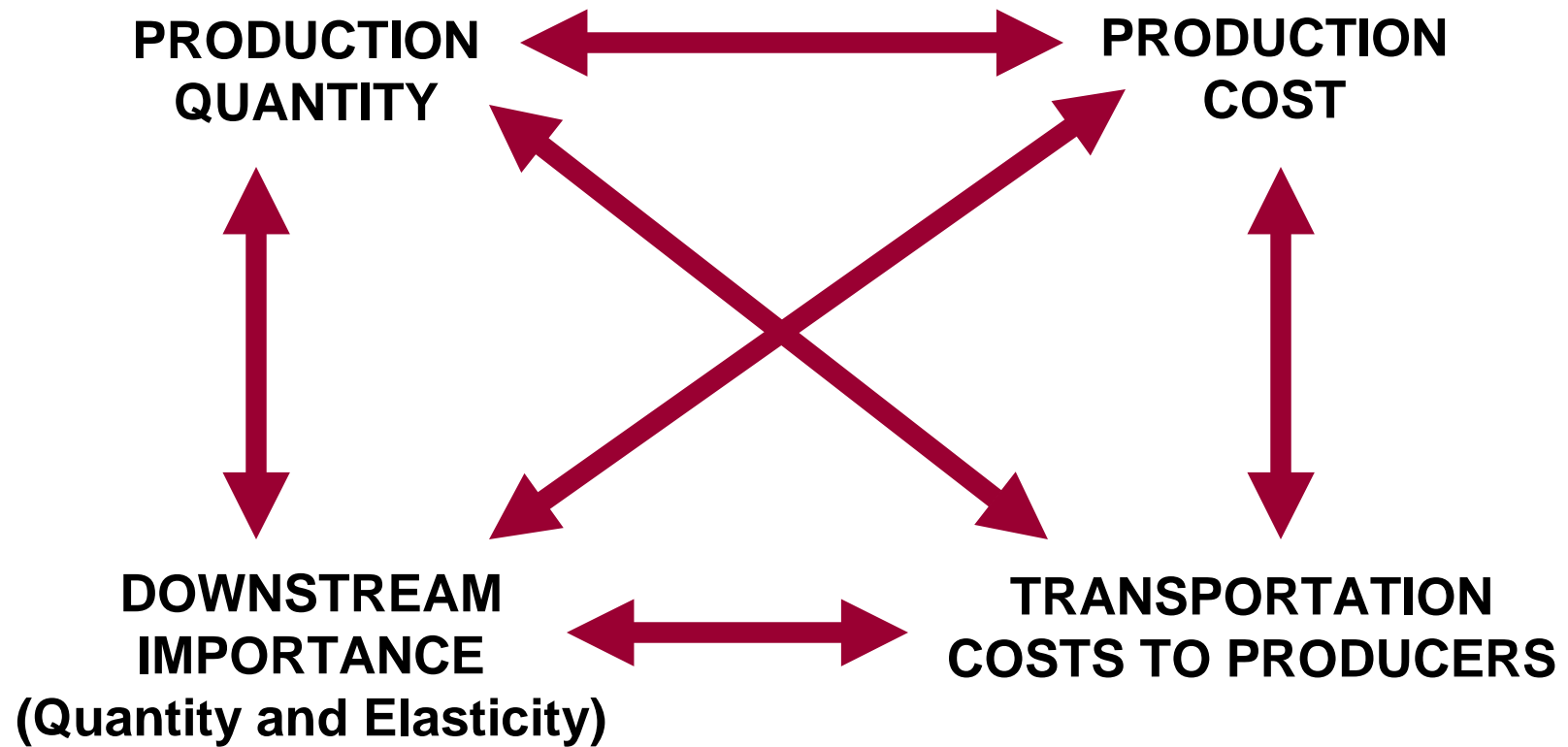


- **Initial Stages**
  - **Data Collection**
  - **Model Formulations**
  - **Still Very Formative**
- 

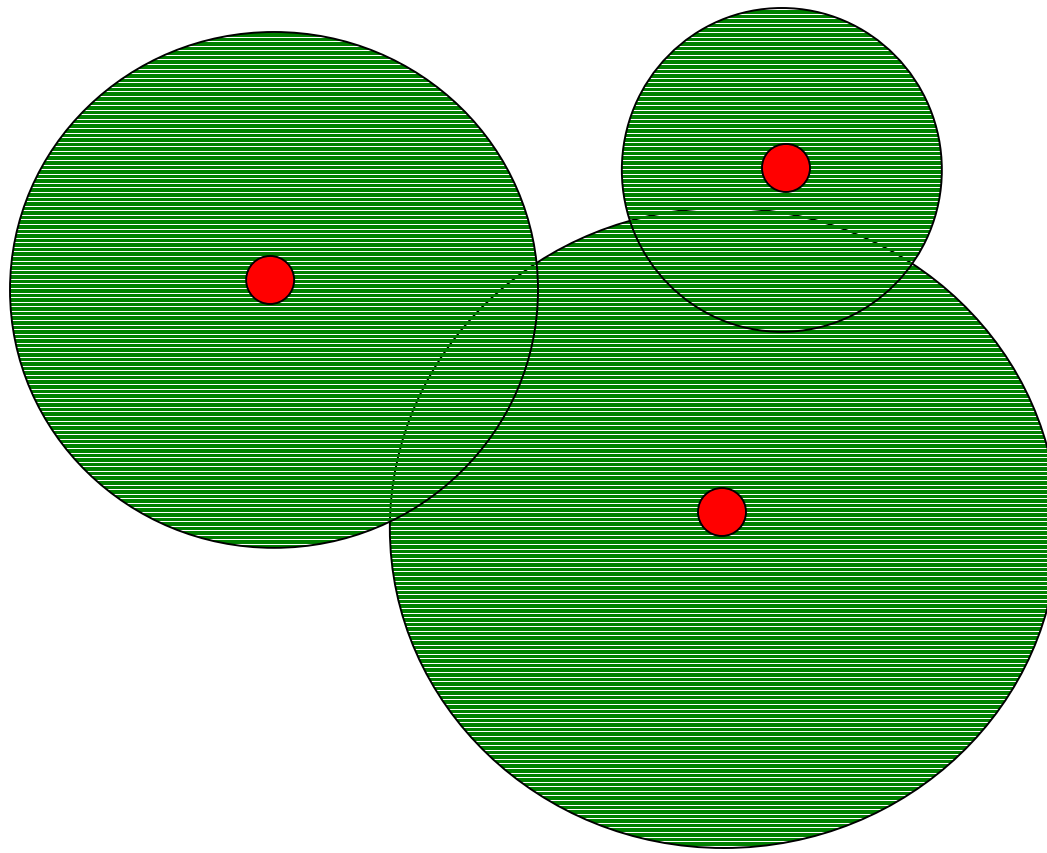
# ***Industrial Use***

- **Fertilizer Production**
- **Hydrogenation of Fats and Oils**
- **Welding**
- **Hydrochloric Acid Production**
- **Metallic Ore Reduction**
- **Cryogenics**

# *Industrial Use*

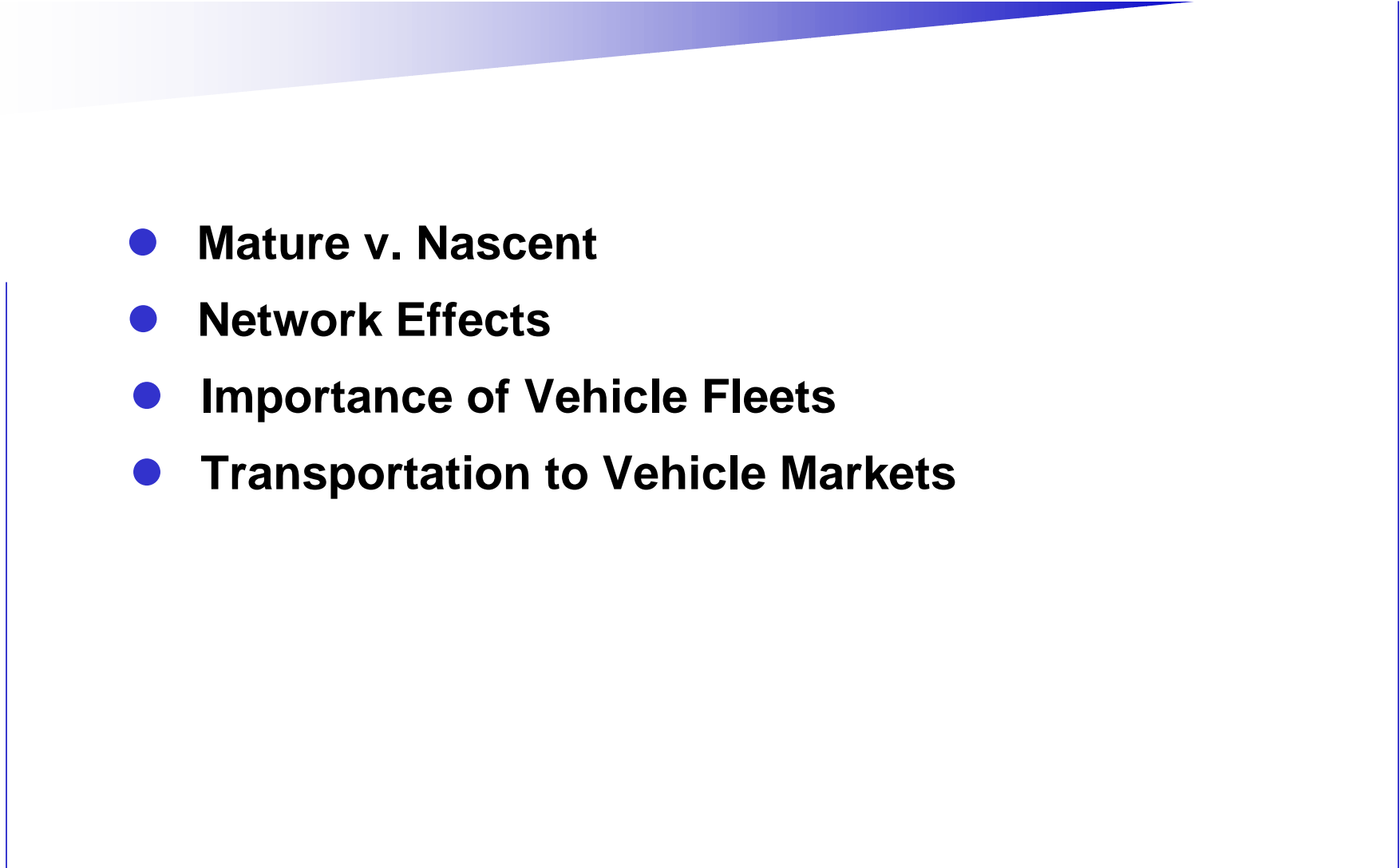


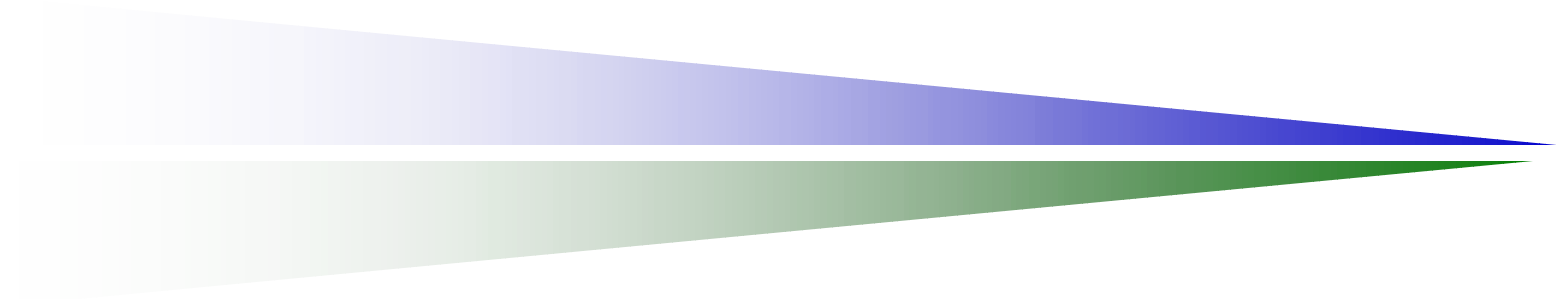
# ***Industrial Use***



# ***Transportation Applications***



- **Mature v. Nascent**
  - **Network Effects**
  - **Importance of Vehicle Fleets**
  - **Transportation to Vehicle Markets**
- 



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