

Finding Value in the Triple Bottom Line

Profit and Cost Savings with Societal Benefits

Andrew Mangan, Executive Director

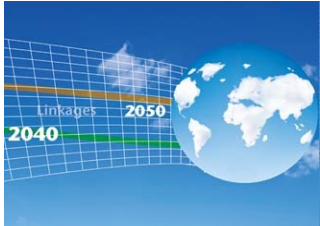
United States Business Council for Sustainable Development

Portland, Oregon

February 1, 2011



**United States Business Council
For Sustainable Development**



WBCSD Global Network

The US BCSD is one of 60 country business councils working on implementing sustainable development at the local, operational level.



Society benefits when businesses think about sustainability, innovation, and community interaction.

US Businesses need clear line of sight to revenue, product growth, cost savings and reduced risks.



United States Business Council
For Sustainable Development

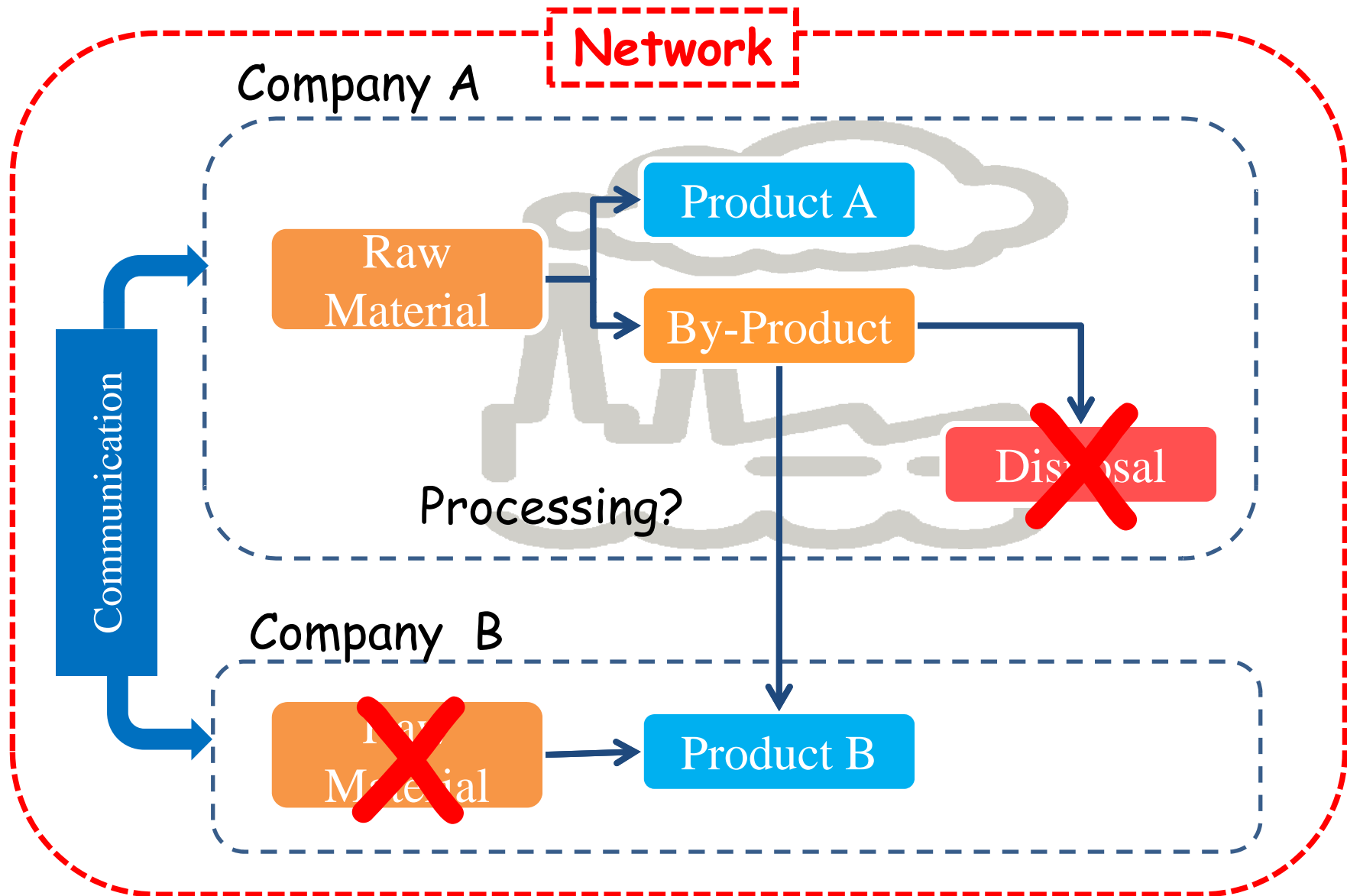


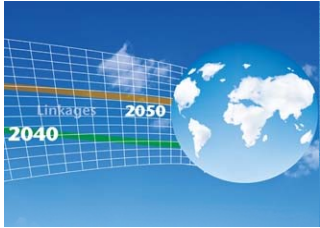
Expanding BPS through Licensing

By-Product Synergy is the matching of under-valued waste, transportation, energy and other streams from one facility with potential users at another facility to create new revenues or savings, environmental and societal benefits.



By-Product Synergy Process





US BCSD By-Product Synergy Projects

● Active/Complete

- Kansas City
- Chicago
- Seattle
- Gulf Coast
- Mobile
- Houston
- Ohio

● In Development

- Boston
- Central Michigan
- Central Texas
- Mid-Atlantic
- East Bay
- Milwaukee
- US Military TBD



United States Business Council
For Sustainable Development

Welcome admin.
You are logged in as a member of : USBCSD

Home

Admin

Setup

Projects

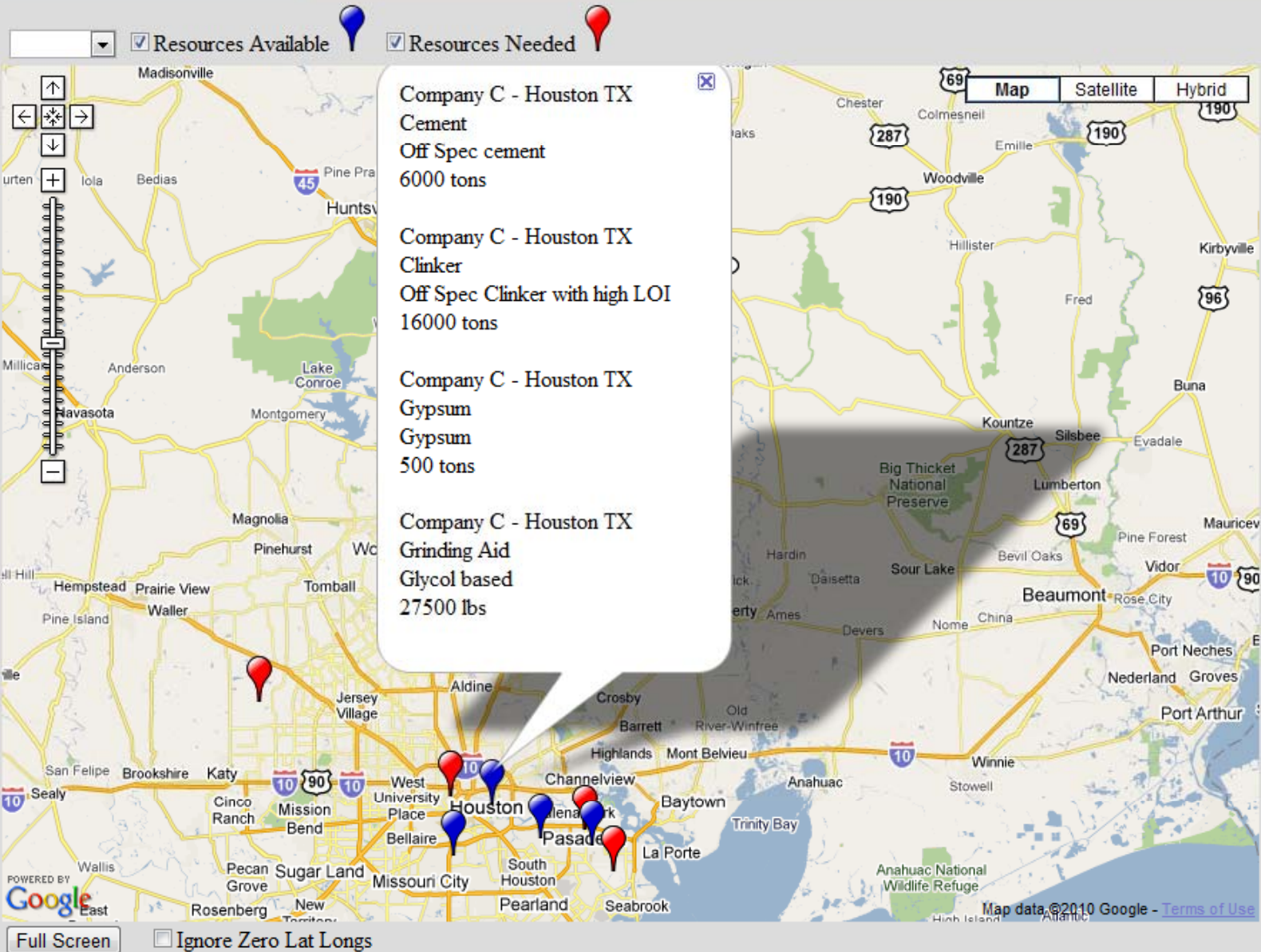
Reports

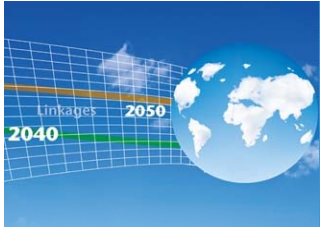
My Account

Logout

Materials

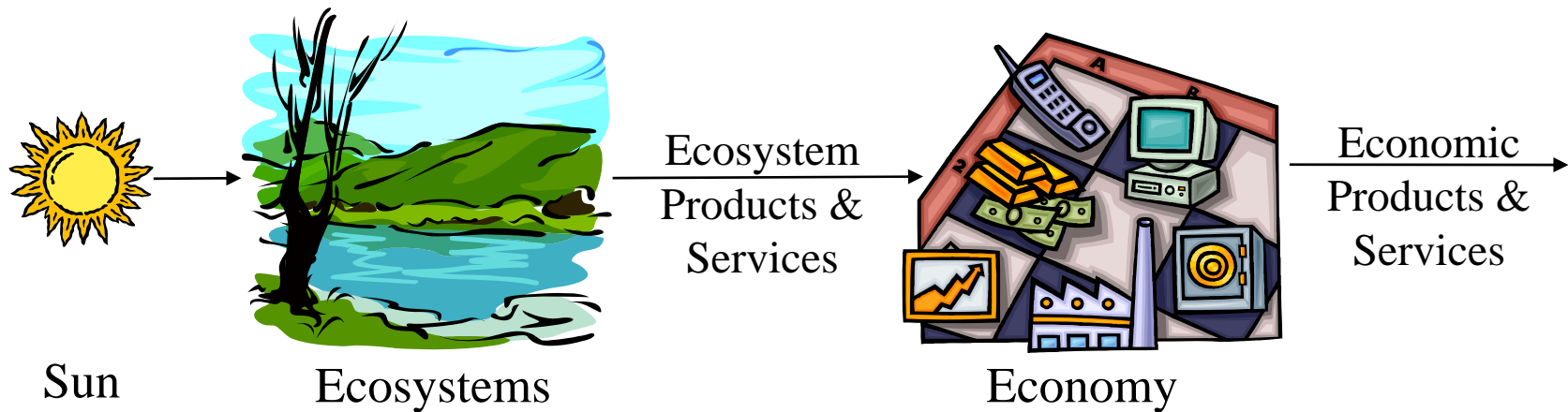
Synergies





Ecological Life Cycle Assessment

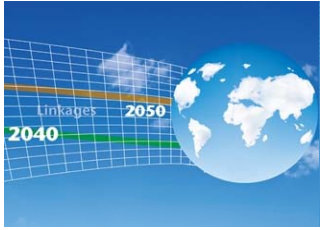
Eco-LCA is a framework to account for the role of ecosystems in supporting human activities



Considers ecosystem services in physical units
Provides many footprints – Carbon, Water, Nitrogen



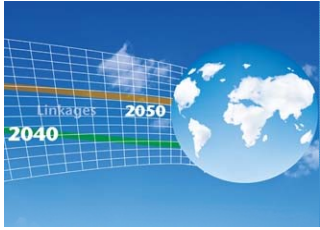
United States Business Council
For Sustainable Development



Based on Year-One Results Estimated Resource Savings

- \$4.2 million in waste disposal costs and virgin material savings
- 250 million gallons of water
- 6 million barrels of oil-equivalent energy
- 3,000 acres of land
- 13,000 metric tons of carbon dioxide equivalent
- 29,000 metric tons of non-renewable resources





Advanced Synergies

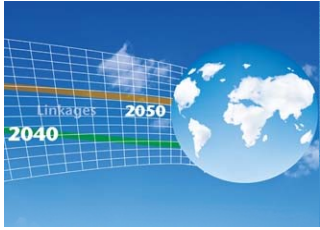
**By-Product
Synergy**

**Advanced
Synergies**

**Increase
Results**

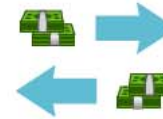
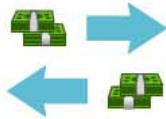


United States Business Council
For Sustainable Development



Commercial and Industrial Property Assessed Clean Energy Financing

HOW IT WORKS



BARCLAYS
CAPITAL

Companies identify cost effective retrofits and request funding from City or County

City or County creates special tax district allowing property owners to receive financing for Energy Efficiency and Renewable Energy

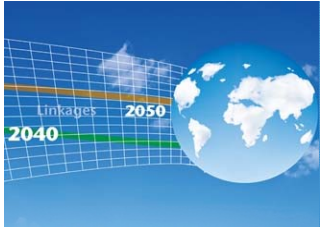
Barclays funds all projects through city or county special tax district with 100% private capital

PACE BENEFITS

- Jobs creation -- 5 million jobs nationally
- Economic Stimulus -- \$500 billion through the construction trades, with strong local multiplier
- Infrastructure development -- large scale upgrade to the nation's power grid - privately financed
- GHG reduction -- large carbon footprint reduction done profitably



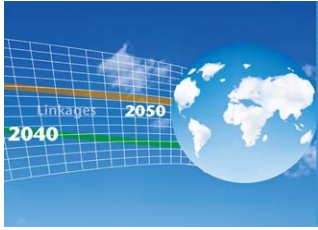
United States Business Council
For Sustainable Development



Projects

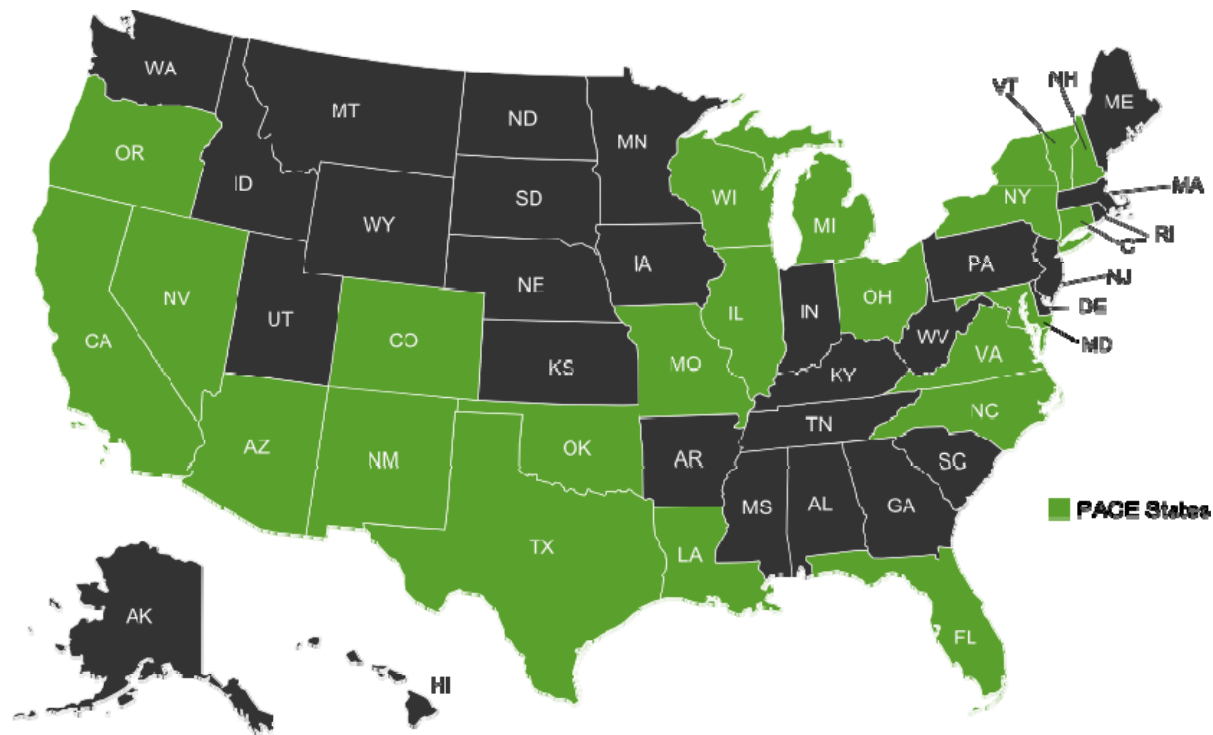
- Air compressors
- Pumps
- Drives and Motors
- Water recirculation project
- Lighting
- Power factor correction
- Alternative energy induction
- Heat recapturing (HVAC, water, etc.)





Nationwide Legislation

- Since 2008 22 States have Passed PACE Legislation
- Typical Goals: Jobs and Economic Stimulus
- Energy Independence and GHG Reduction





www.usbcsd.org



United States Business Council
For Sustainable Development



World Business Council for
Sustainable Development