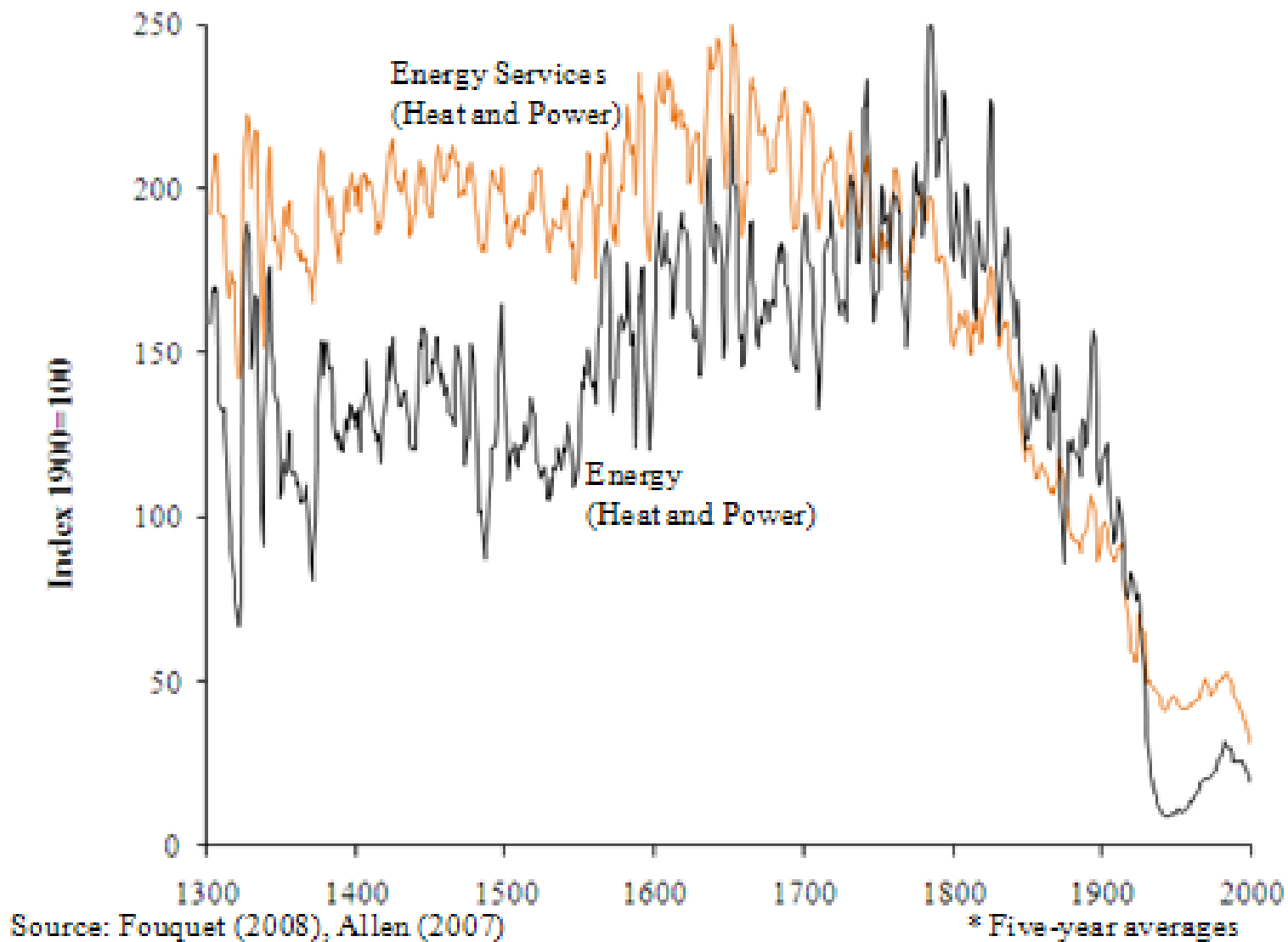


Impacts of the External Cost of Energy on Transportation, Land-use and the Environment

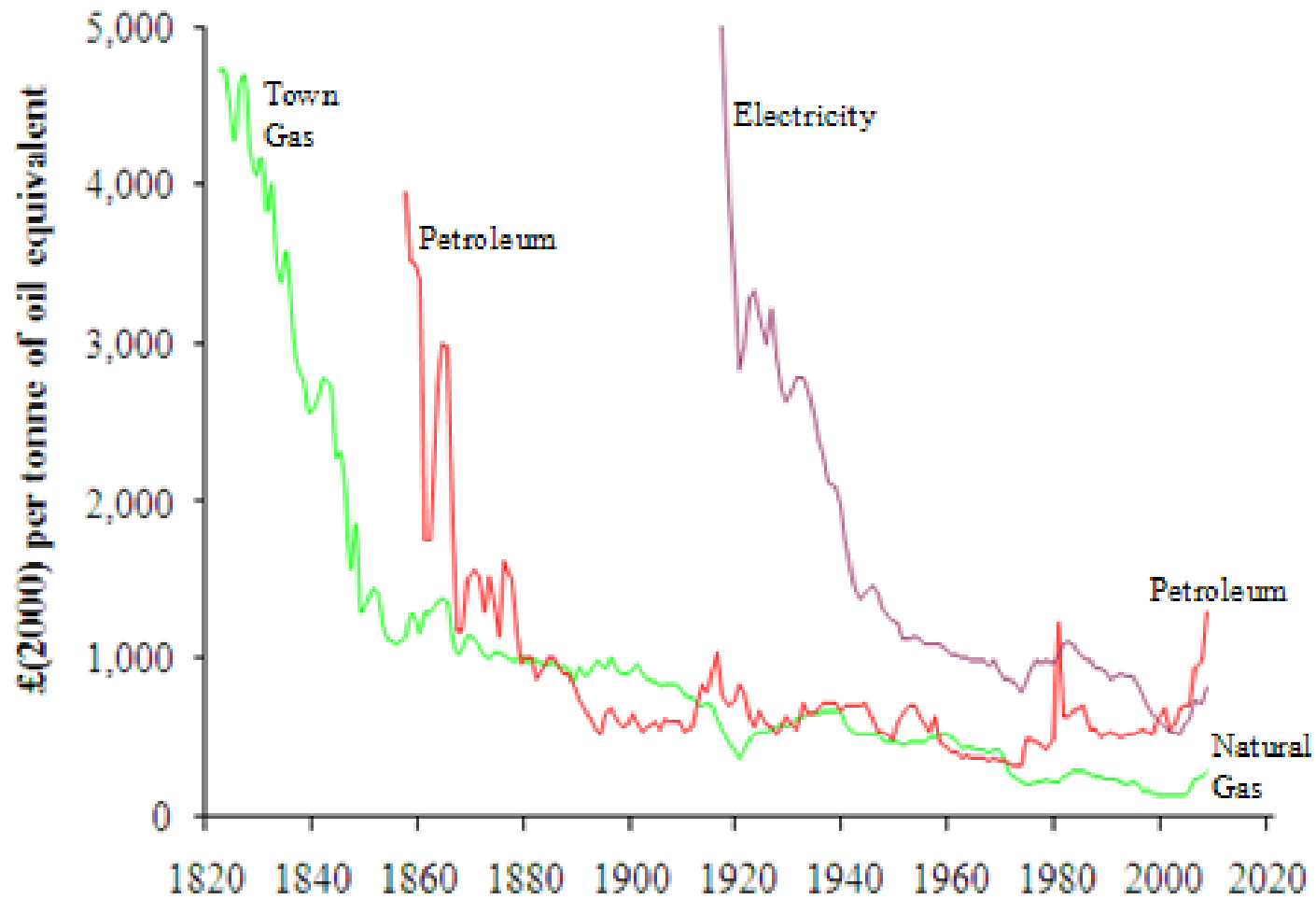
J.R. DeShazo, Director

UCLA Luskin School of Public Affairs
Luskin Center for Innovation

Trends in Energy Prices

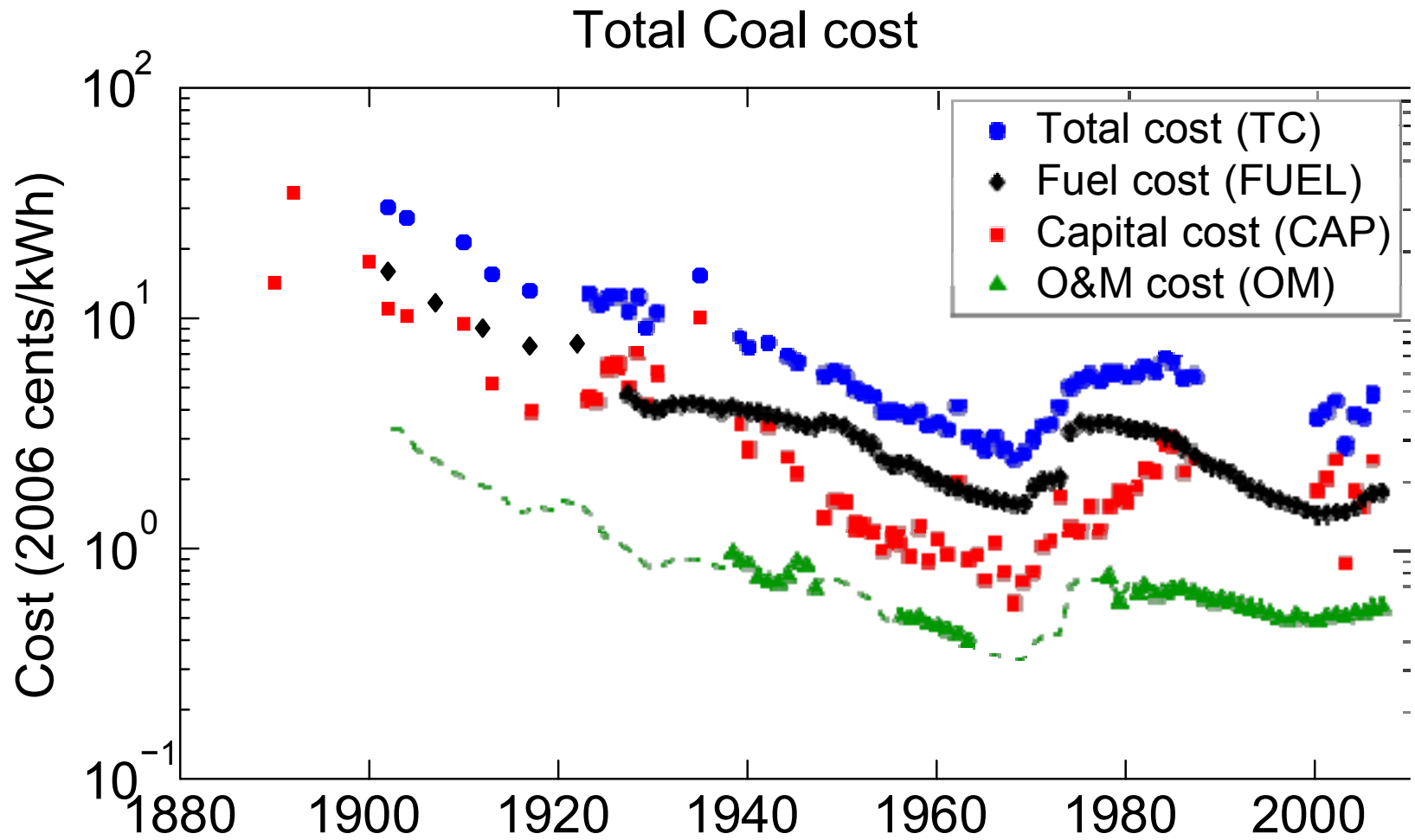


Trends / Costs by Fuel Type



Source: Fouquet (2008), Allen (2007)

Trends in Coal Costs



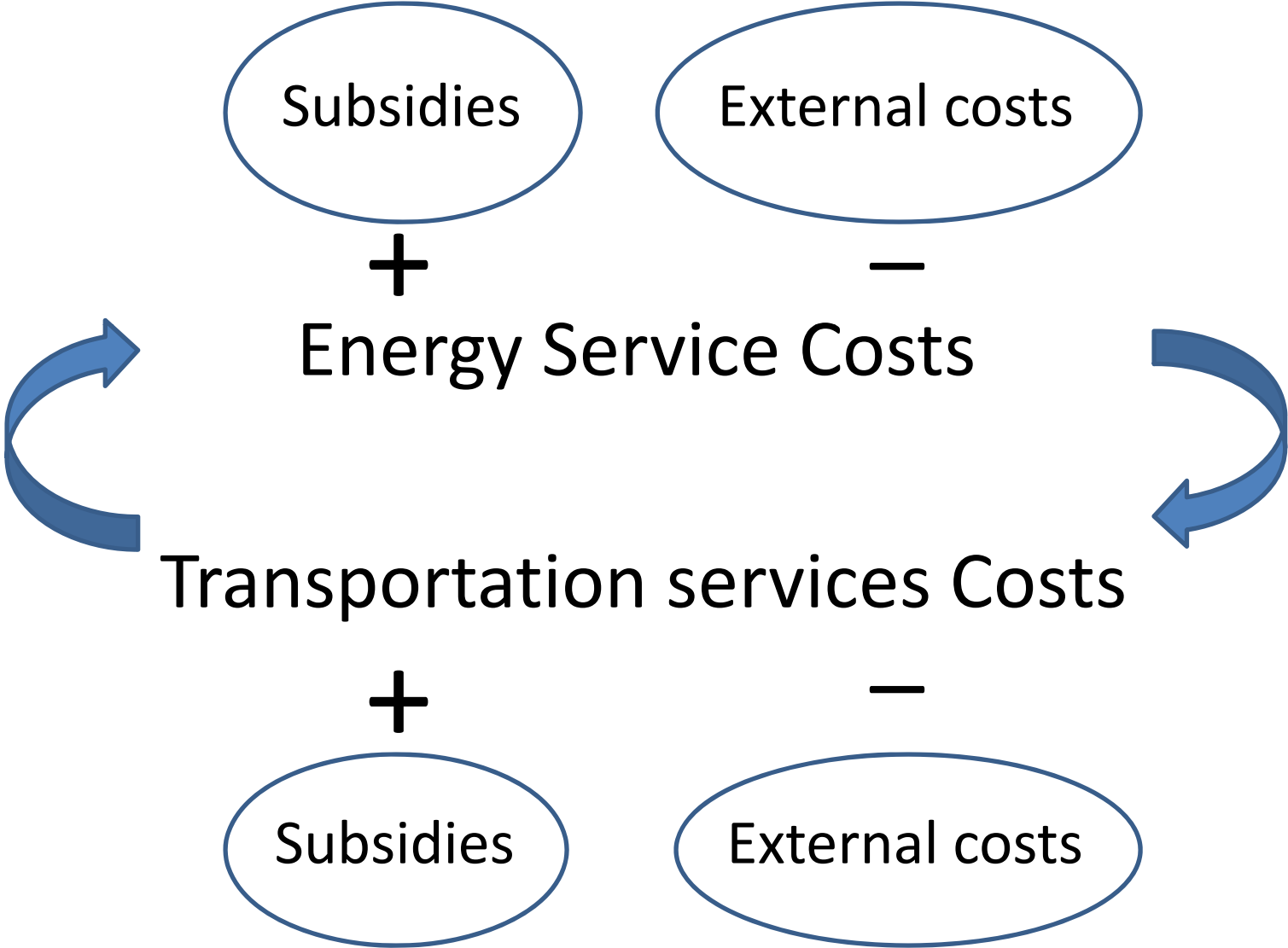
Composition of Energy Consumption US 2010

Petroleum	38%
Natural gas	25%
Coal	21%
Nuclear	9%
Renewables	7%

“Hidden Cost of Energy” Report

Electricity generation (coal)	70%
Electricity generation (natural gas)	19%
Transportation (petroleum)	25%
Heat production (natural gas)	42%

Source National Resource Council

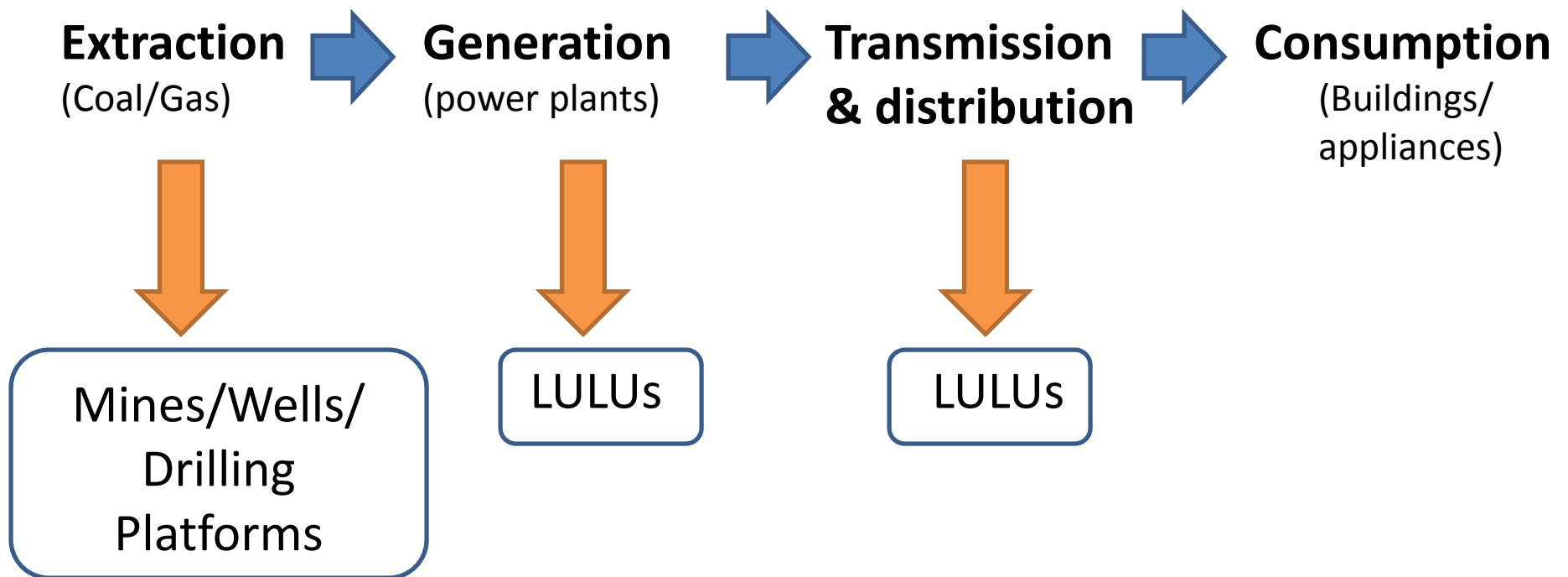


Supply Chain for Electricity

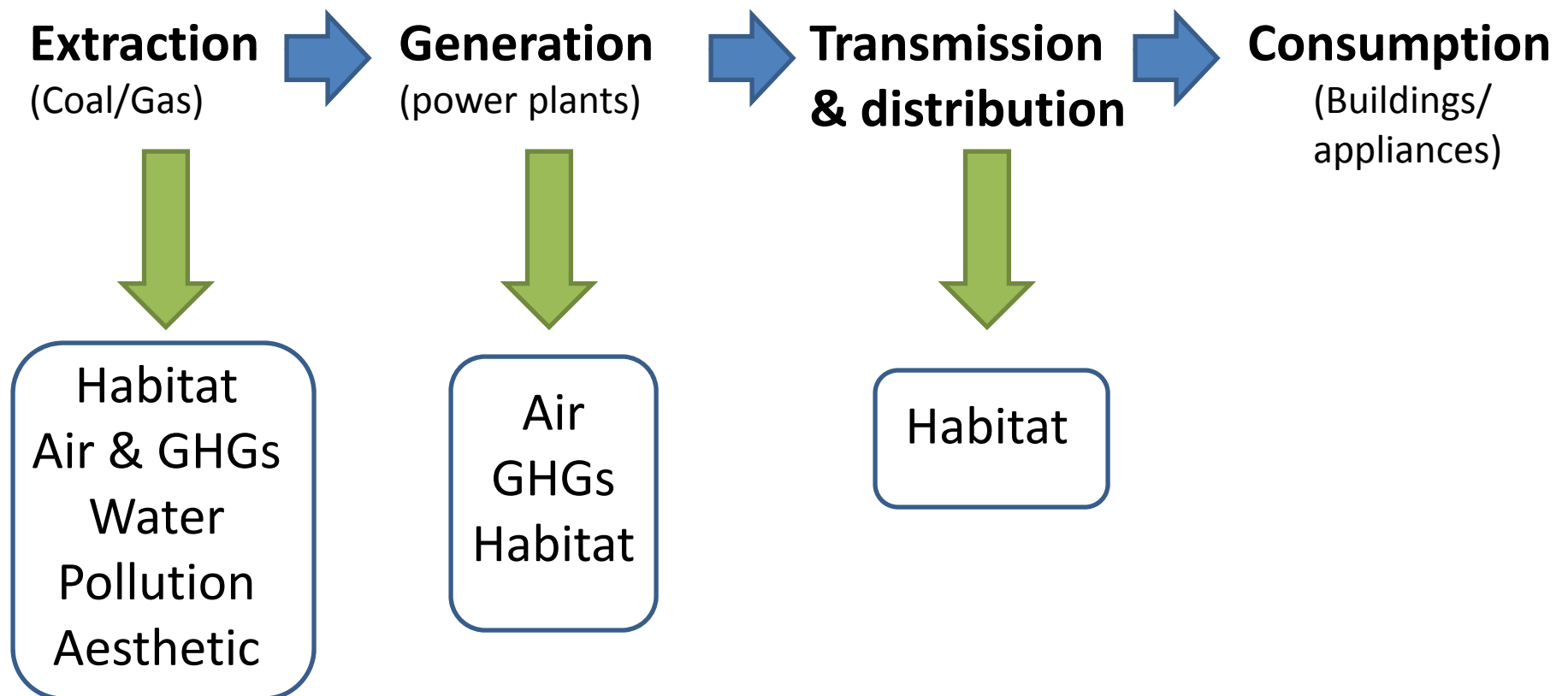


Production

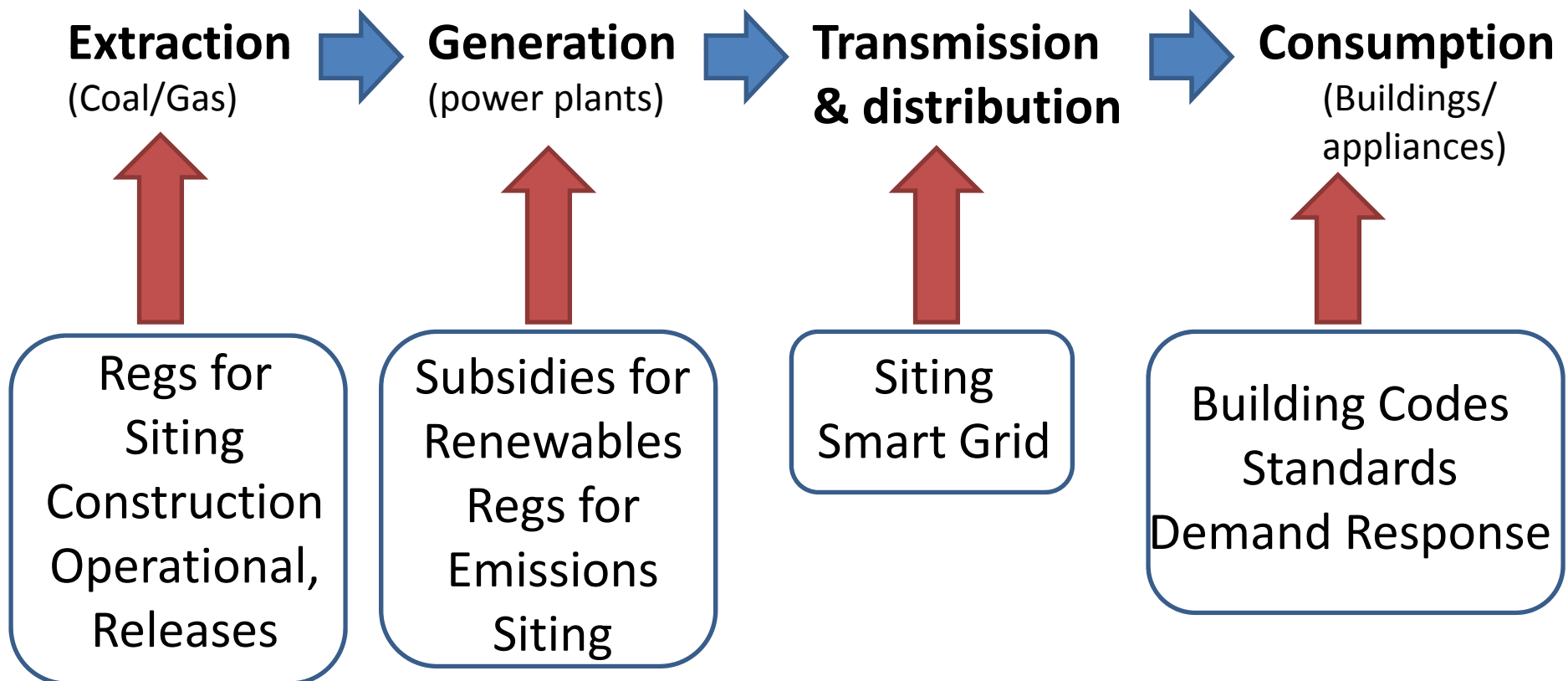
Land-use Connection for the Supply Chain for Electricity



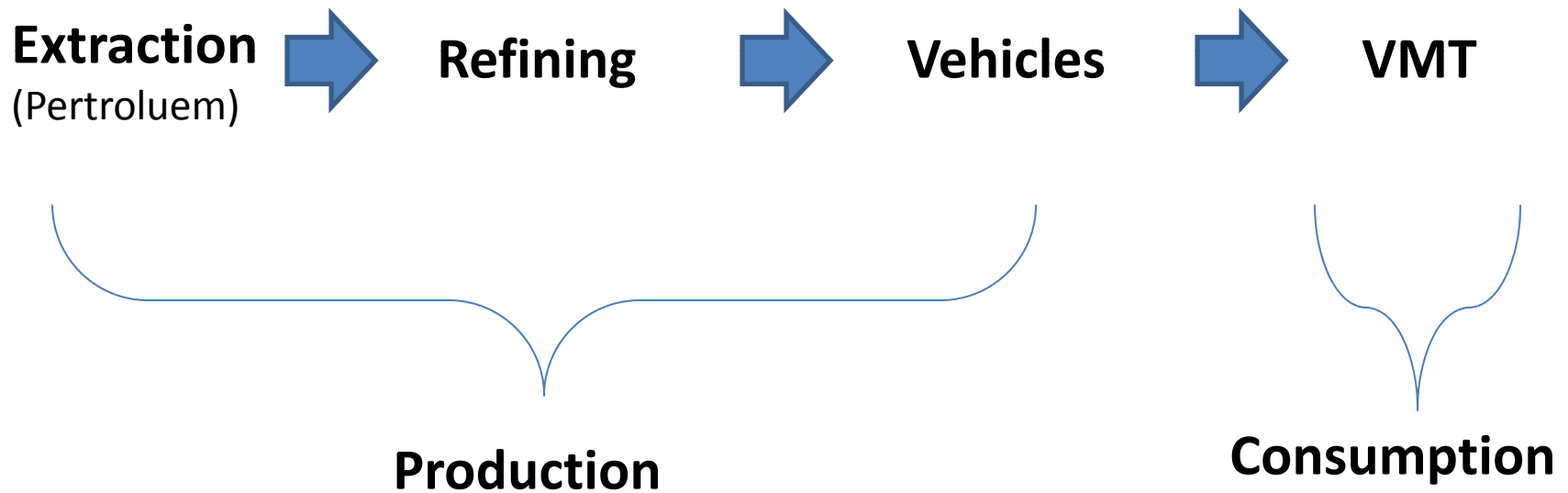
Environmental Connection for the Supply Chain for Electricity



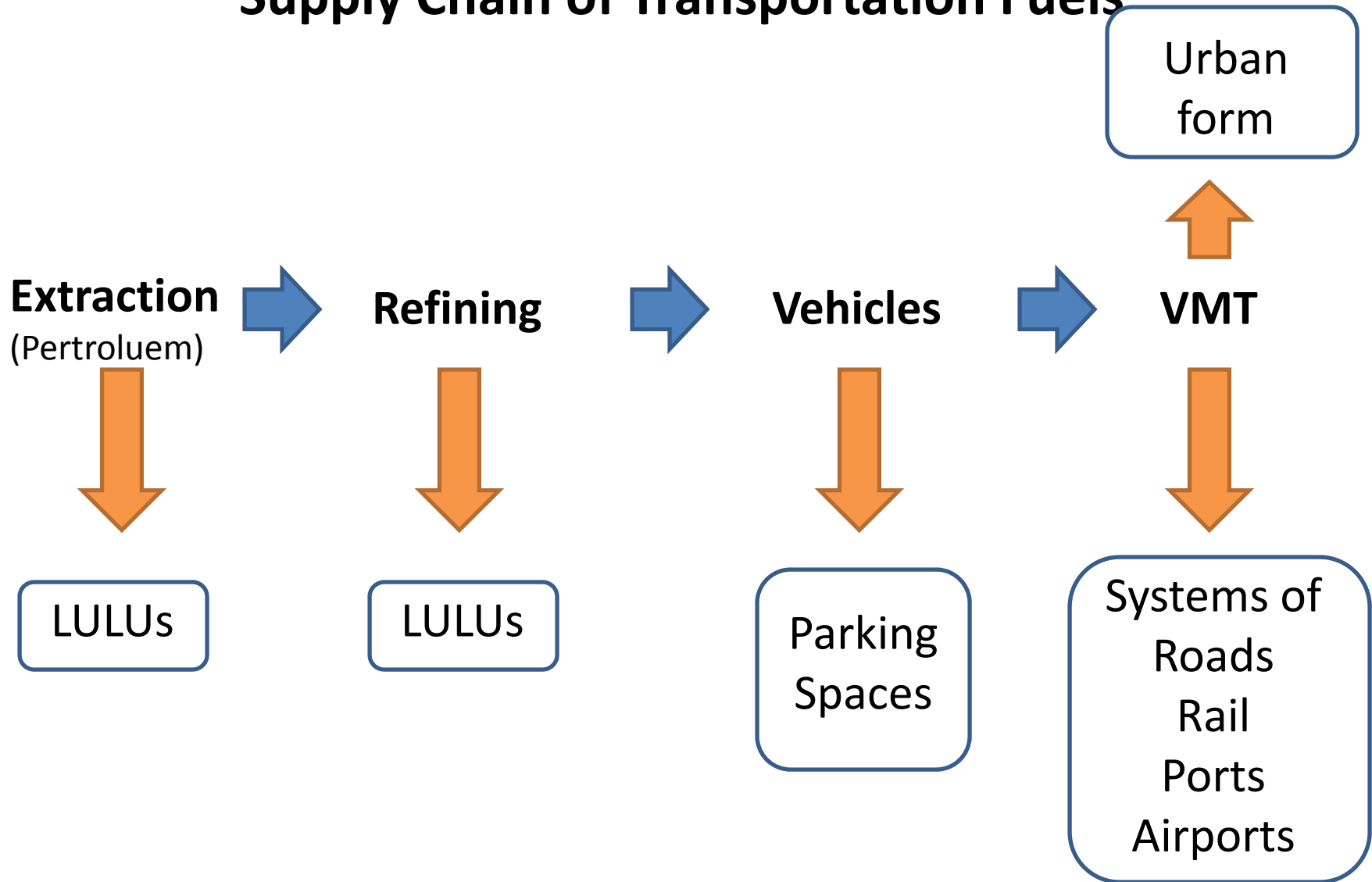
Policy Interventions for the Supply Chain for Electricity



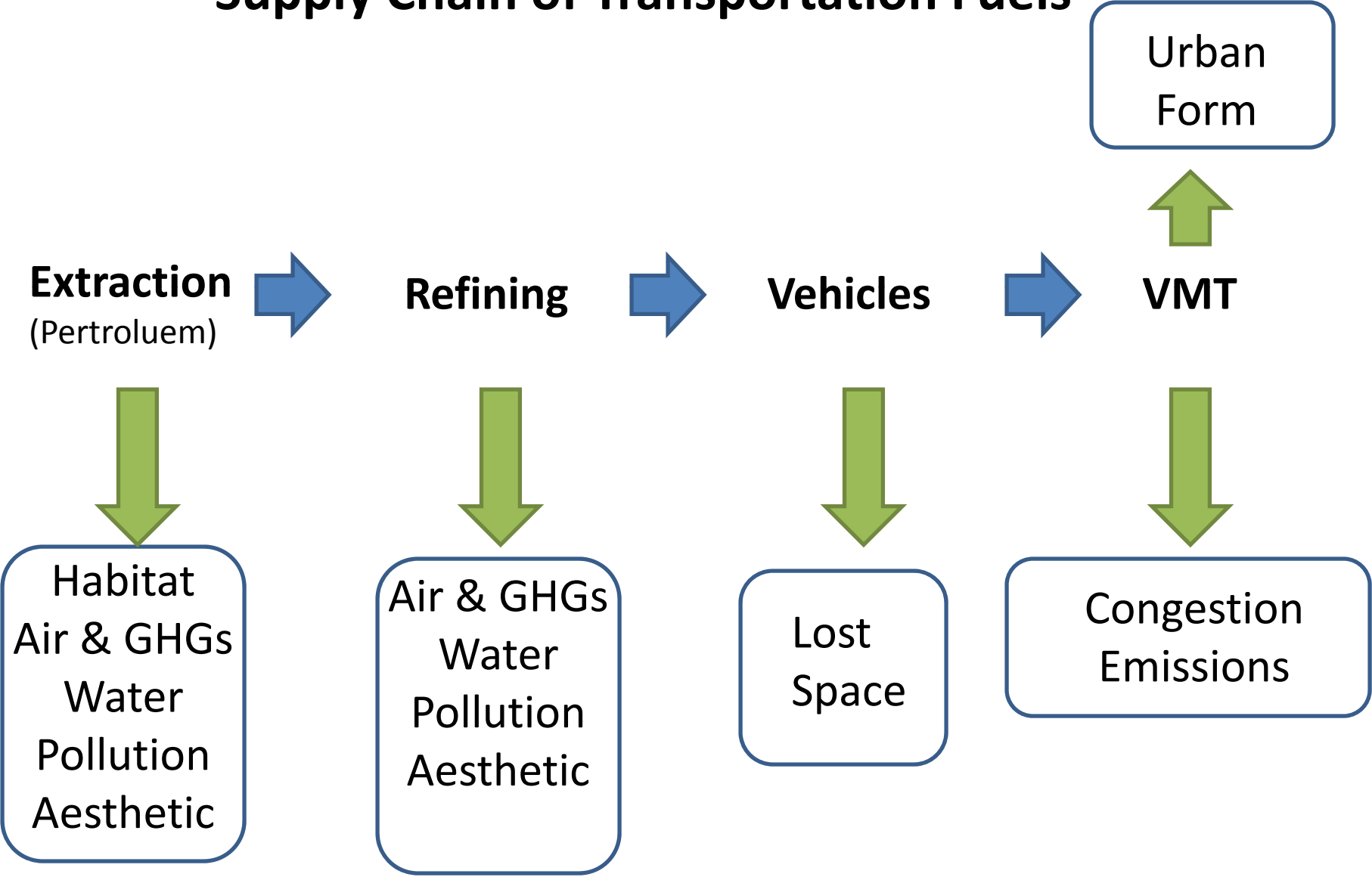
Supply Chain of Transportation Fuels



Land-use Connection for the Supply Chain of Transportation Fuels



Environmental Connection for the Supply Chain of Transportation Fuels



Policy Interventions for the Supply Chain of Transportation Fuels

