



# **A Global Perspective on Greening the Transport Sector**

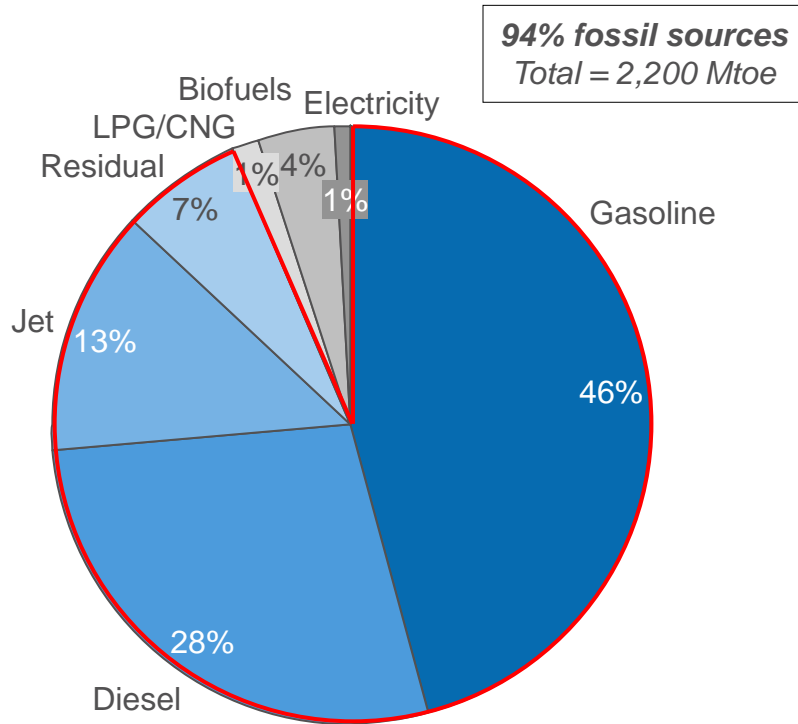
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**Sustainable Mobility and Integrated Planning in Urban Areas**

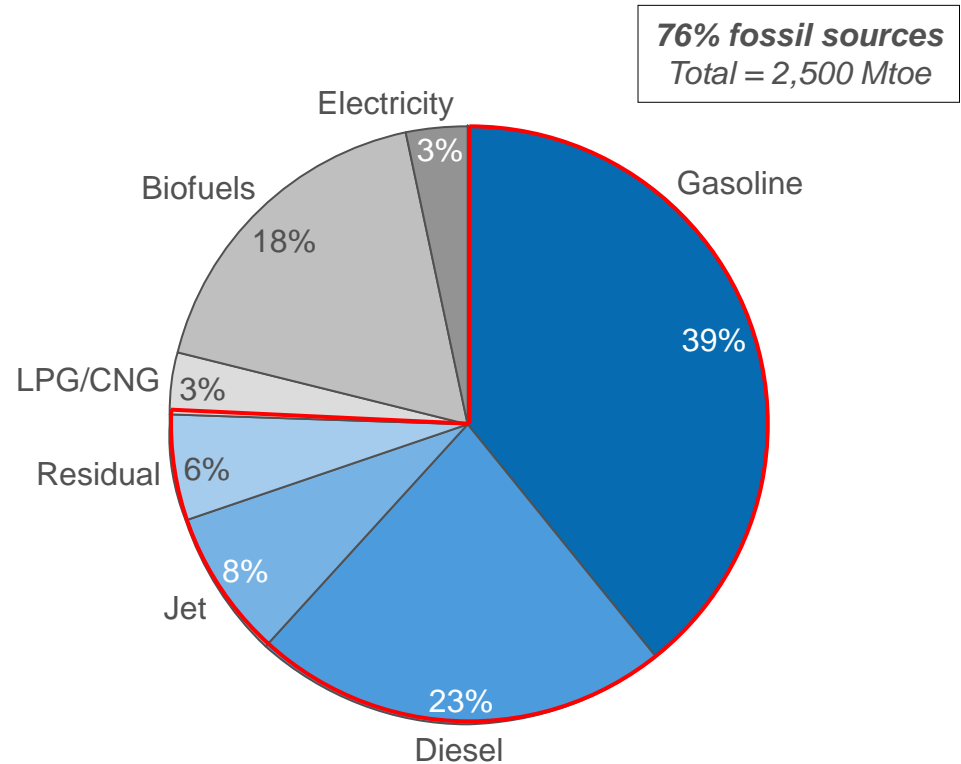
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# Even in the most optimistic scenarios, transportation is expected to be highly dependent on oil in the next two decades

2010 Transport Energy Consumption



2030 Transport Energy Consumption  
Repowering Transport – Rapid Deployment Scenario



Source: IEA / SMP, IMO, IATA, Carbon Neutral Skies team analysis, Repowering Transport team analysis

Opportunities & Challenges

- GHG emissions: transportation represented 23% of global emissions in 2005 and the share is growing
- Impact on land-use change and water consumption



Environmental impact

Transportation System



Road



Air



Marine



Rail

Increased demand for mobility

New technologies  
(electric vehicles, biofuels)

New types of players  
(IT, mobile, social)

Government policy  
(job creation, energy, transportation, agriculture)

Customer behavior  
(efficiency, integration, sustainability)

Other exogenous factors  
(economic shocks, resource scarcity, inertia)

Economic impact

- Economic development and growth
- Job creation in transportation and adjacent sectors
- Profitability of stakeholders along the value chain

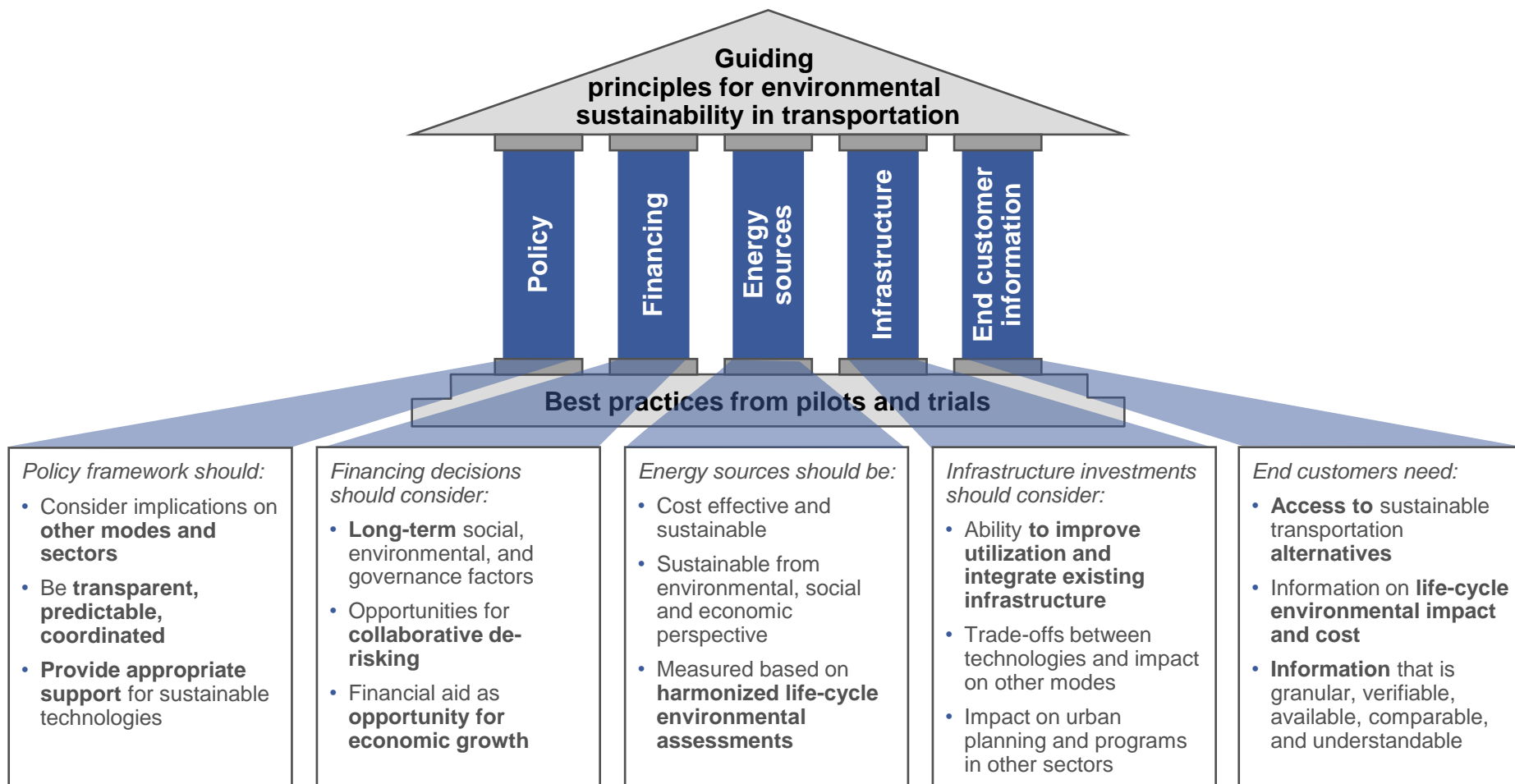


Social impact

- Job creation in transportation and adjacent sectors
- Impact on poverty reduction
- Impact on energy security

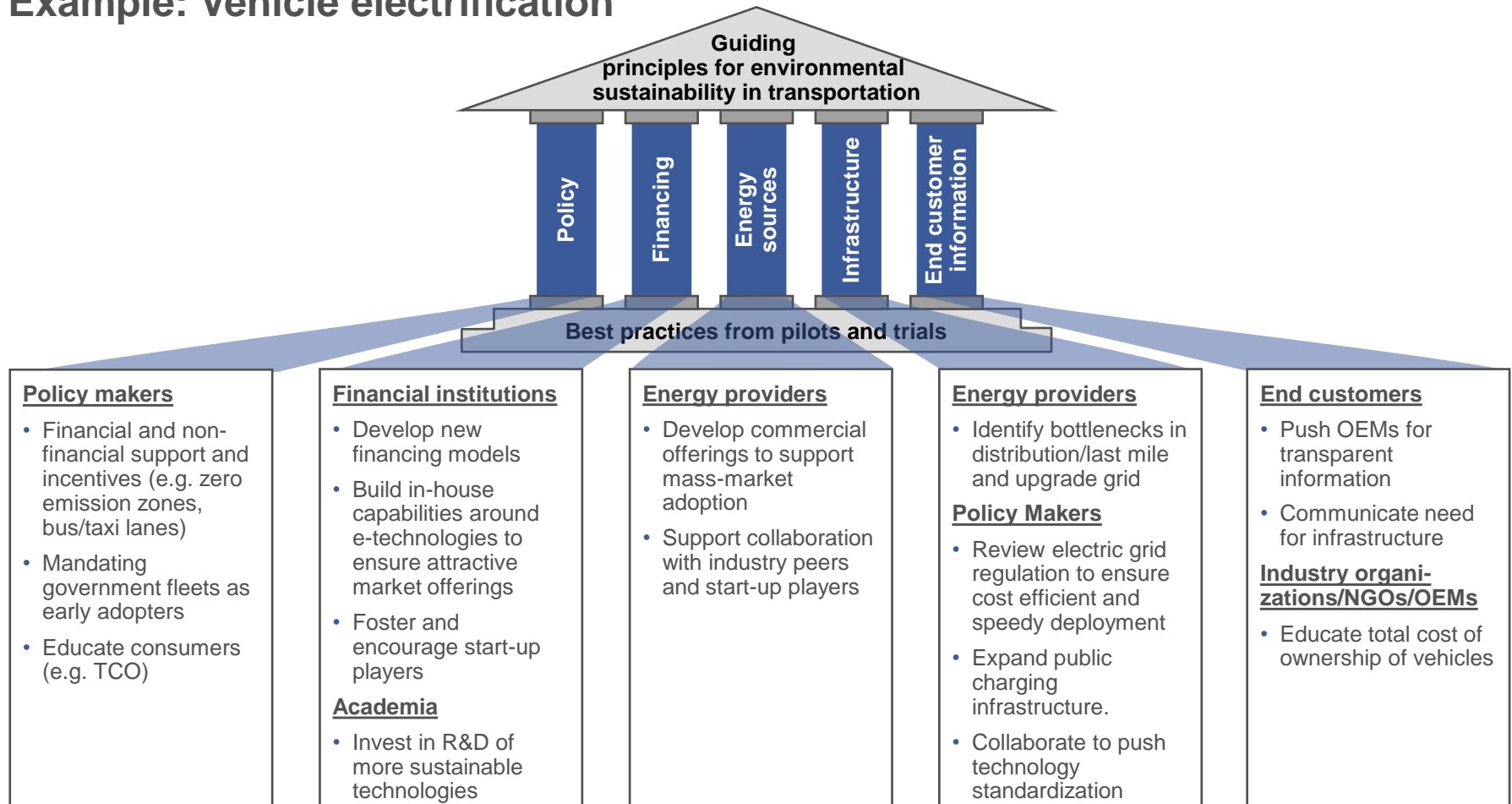


# Principles shared by all stakeholders support an integrated systems approach to sustainability in transportation



# The principles can be applied to develop action plans for specific sustainability levers in transportation

## Example: Vehicle electrification



# Potential beyond traditional transport technologies is mainly expected from new ICT and consumer trends

## Megatrends

## Solutions for connected mobility

<p><u>Cloud Solutions/Big Data Analytics</u></p> 	<p><u>Mobile Connectivity 3.0</u></p> 
<p><u>Internet of Things/Smart Transport</u></p> 	<p><u>E-/M-Commerce &amp; Multichannel Retail</u></p> 
<p><u>Information &amp; Entertainment Everywhere</u></p> 	<p><u>Social Media/Web 2.0</u></p> 
<p><u>Emergence of Megacities</u></p> 	<p><u>Seamless User Experience</u></p> 

