



Partnership on Sustainable  
Low Carbon Transport

# Transport and Renewable Energy



**Heather Allen, SLoCaT Partnership**  
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# SLoCaT Partnership

**90+ Members: International Organizations – Government – Development Banks – NGOs – Private Sector – Academe**

**Mission: Integrate Sustainable Transport in Global Policies on Sustainable Development and Climate Change**

**SLoCaT Foundation: Established in 2014 with sole objective to support the functioning of the SLoCaT Partnership**

Diamond  
Supporters



Platinum  
Supporters



Gold  
Supporters



# Present trends in Transport



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# But the reality is more like this

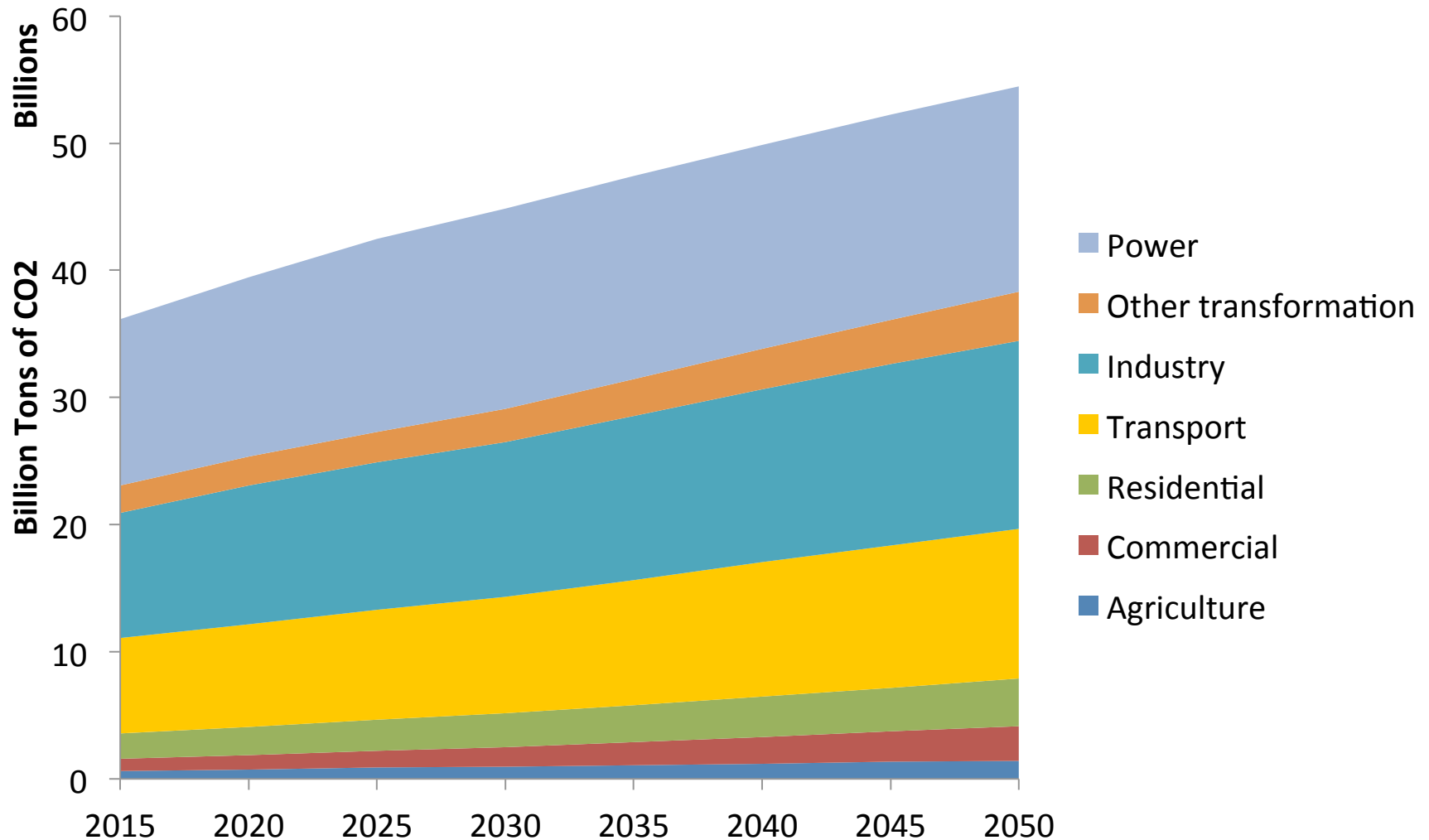


(C) Santhosh Kodukula - 2008



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# Transport Emissions Trends (6DS Scenario)



**Transport sector CO2 emissions projected to increase  
by about 60% from 2015 to 2050**

Source: International Energy Agency (2014), Tracking Clean Energy Progress 2014, OECD/IEA, Paris



# Impact of recent & upcoming events



2015

- Sustainable Development Goals
- COP 21
- UN General Resolution on multimodal transit corridors

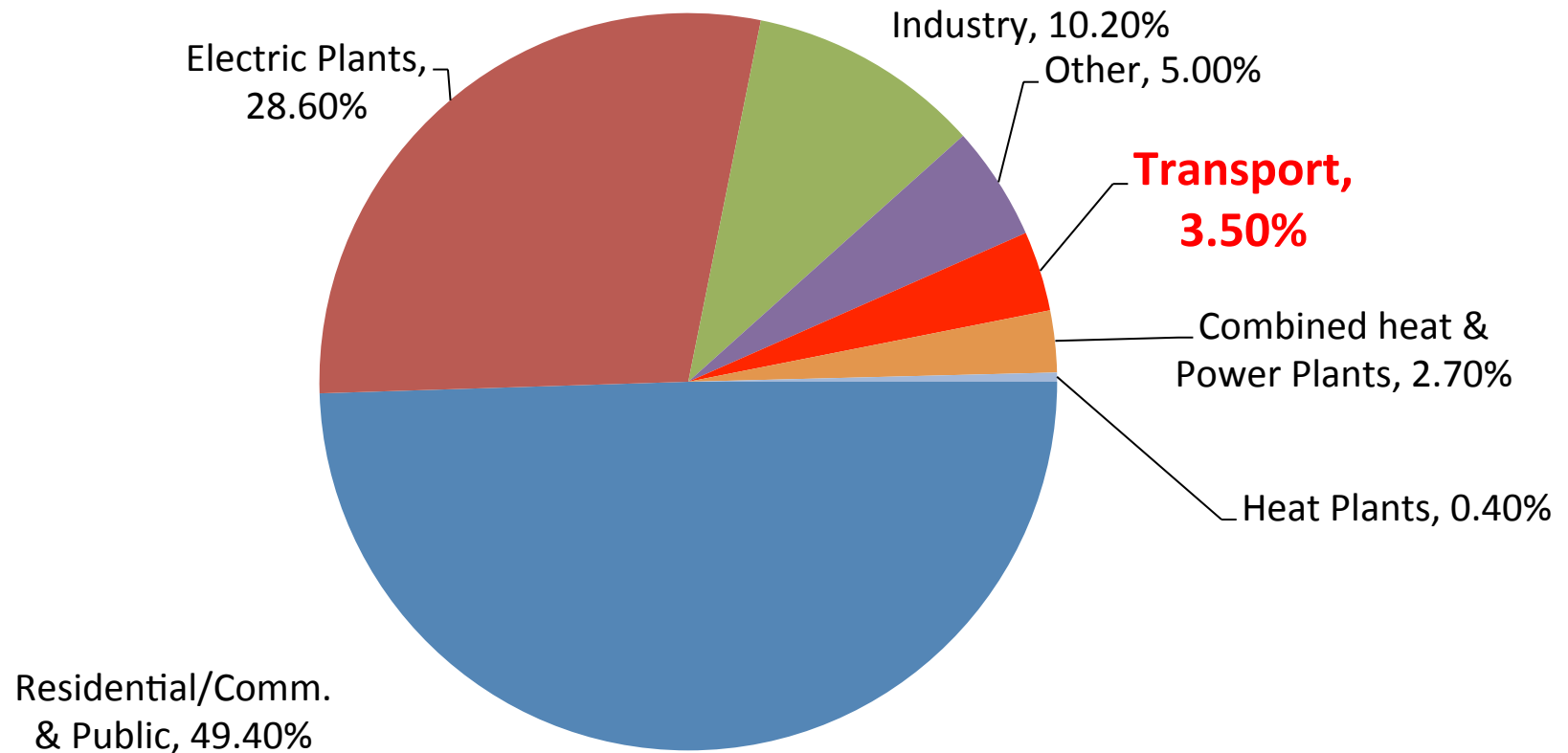


2016

- Washington Climate Summit
- HABITAT III (New Urban Agenda)
- G 20
- COP 22



# Current Transport Share of Renewable Energy Use



Globally about 93% of the transport sector is (still) driven by oil, with biofuels accounting for 2% and natural gas 1% of transport fuel

# Key strategies for the short and medium term



**Electric mobility and new vehicles**



**Better bio fuels**



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# Opportunities to increase the use of Renewable Energy for Transport

## Transport Climate Initiatives: e.g.

- **Action Platform on Urban Electric Mobility (UEMI):** Increase market share of EVs in cities to 30% of all new vehicles by 2030
- **International Zero-Emission Vehicle Alliance:** Accelerate adoption of EVs, plug-in hybrids and fuel-cell vehicles

## National Policies

- Fuel economy standards, Bio/alternative fuels use, NAMAs, (i)NDCs

## Climate Action Plans

- Ambitious plans at national (e.g Costa Rica) or city level (Copenhagen, Stockholm ... )
- Paris

## Technology-based Partnerships (Public / Private & Private/Private)

- -Freight and passenger partnerships (modes)



# Fuel Decarbonization Measures in (I)NDCs

Country INDC	Planned Measures to Decarbonize Transport Fuel
Barbados	Encourage adoption of hybrid and electric vehicles through tax incentives
Burkina Faso	Biodiesel to account for 5% of diesel consumption by 2030
Canada	Gasoline to contain 5% renewable content and diesel fuel to contain 2% renewable content
Jordan	Facilitate purchase of low emission vehicles and scrap high polluting vehicles through standards, incentives and legal means
Kiribati	Replace more than one-third of fossil fuels for electricity and transport by 2025; trial use of coconut oil-based biofuel
Mongolia	Increase share of private hybrid road vehicles from 6.5% in 2014 to 13% by 2030
Marshall Islands	Replace more than one-third of fossil fuels with renewables for electricity and transport by 2030
New Zealand	Increase renewable electricity usage in transport
Republic of Korea	Implement tax reductions for electric and hybrid vehicles

**A broad set of decarbonizing measures  
from diverse regions**

Source: SLoCaT Partnership analysis



# Spreading the news!



## Welcome to the 365 campaign

A searchable database where you can find international examples of actions that have been implemented on transport and climate change. These examples can be used to inspire further action and for you to design your

**80**  
-DAY  
CAMPAIGN



**CLIMATE  
ACTIONS IN  
TRANSPORT**



## Wind Powered Railway System in The Netherlands

**Too many to mention – no limit to creativity !  
Biofuels from municipal waste, capturing carbon rich  
gases from steel production, casebook more than 50  
examples of e-mobility, Hytruck, electric urban freight  
deliveries, cities e.g. Rotterdam 50% municipal fleet 2018,  
biofuel use & testing in marine and aviation**





# Conclusions and Recommendations

- **Technology and Innovation**
  - Scale up technology transfer (e.g via the UNFCCC process)
  - Accelerate research in efficient batteries/energy storage
  - Expand developments in biofuels/reduce externalities
  - Scale up use of renewable electricity generation
- **Policy instruments**
  - Increase understanding and knowledge sharing
  - Increase focus on policies to link EVs and renewable energy
  - Consider expansion of biofuel blend mandates
  - Increase support for phase-out of fossil fuel subsidies
- **Financing**
  - Create dedicated funding, policy/tax neutral or positive mechanisms to incentivize market development
  - Implement local, national and global carbon pricing policies
  - Monetize/capture co-benefits of decarbonizing fuel, stimulate switching to renewables



# Thank you

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