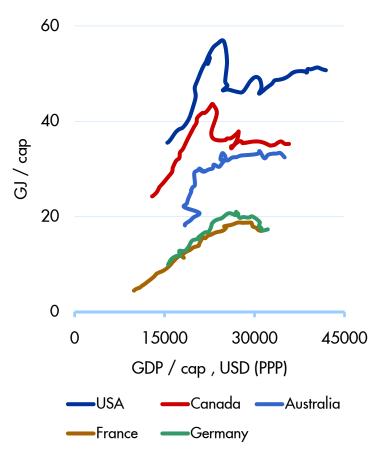


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#### **Historic Energy Ladder for Passenger Road Transport**

- 20% of global energy consumption
- 50% of global oil consumption
- Energy consumption varies strongly between countries

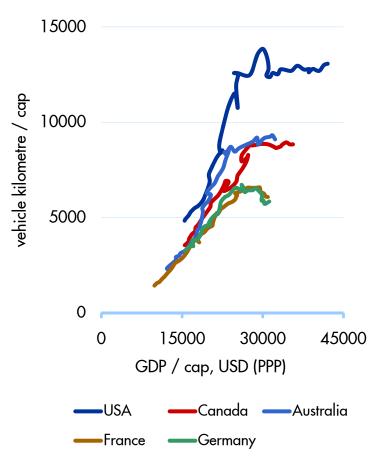
#### Energy Consumed for Passenger Road Transport



## Historic Travel Ladder for Passenger Road Transport

 Correcting for fuel economy differences reduces the country variation

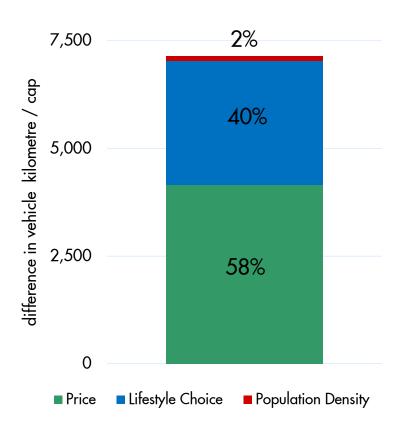
#### Distance Travelled in Passenger Road Transport



## **Travel Demand Depends on Infrastructure**

The price at the time of the infrastructure development has a large influence on future demand patterns.

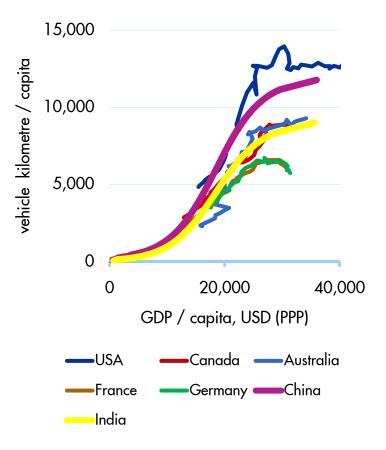
#### Contributions to Difference in Driving Distance between the USA and EU15 -2



## China and India Developing in Current Subsidy Environment

- China could consume 30 EJ at \$30,000 GDP per capita
- India could consume 35 EJ at \$30,000 GDP per capita
- World consumption for passenger road transport in 2050: 120 EJ (tripling from today)

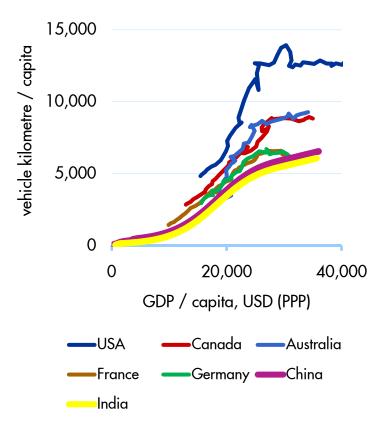
# Development of China and India in Current Subsidy Environment



## China and India Developing in Current European Tax Environment

- China could consume 20 EJ at \$30,000 GDP per capita
- India could consume 25 EJ at \$30,000 GDP per capita
- World consumption for passenger road transport in 2050: 80 EJ (doubling from today)

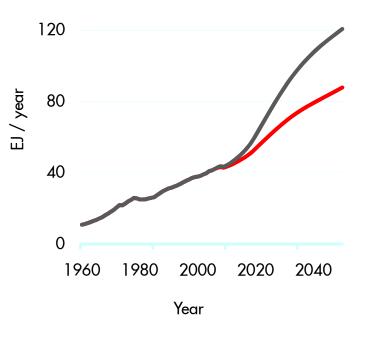
#### Development of China and India in European Tax Environment



## World Energy Demand in Passenger Road Transport under Two Policy Scenarios

- China's upcoming energy surge will impact the global level
- Prices today determine the energy path of the future for developing

#### World Energy Consumption for Passenger Road Transport



Current European Tax Environment Scenario
Current Subsidy Environment Scenario

