

ANTWERPEN, 16 - 19 JUNE

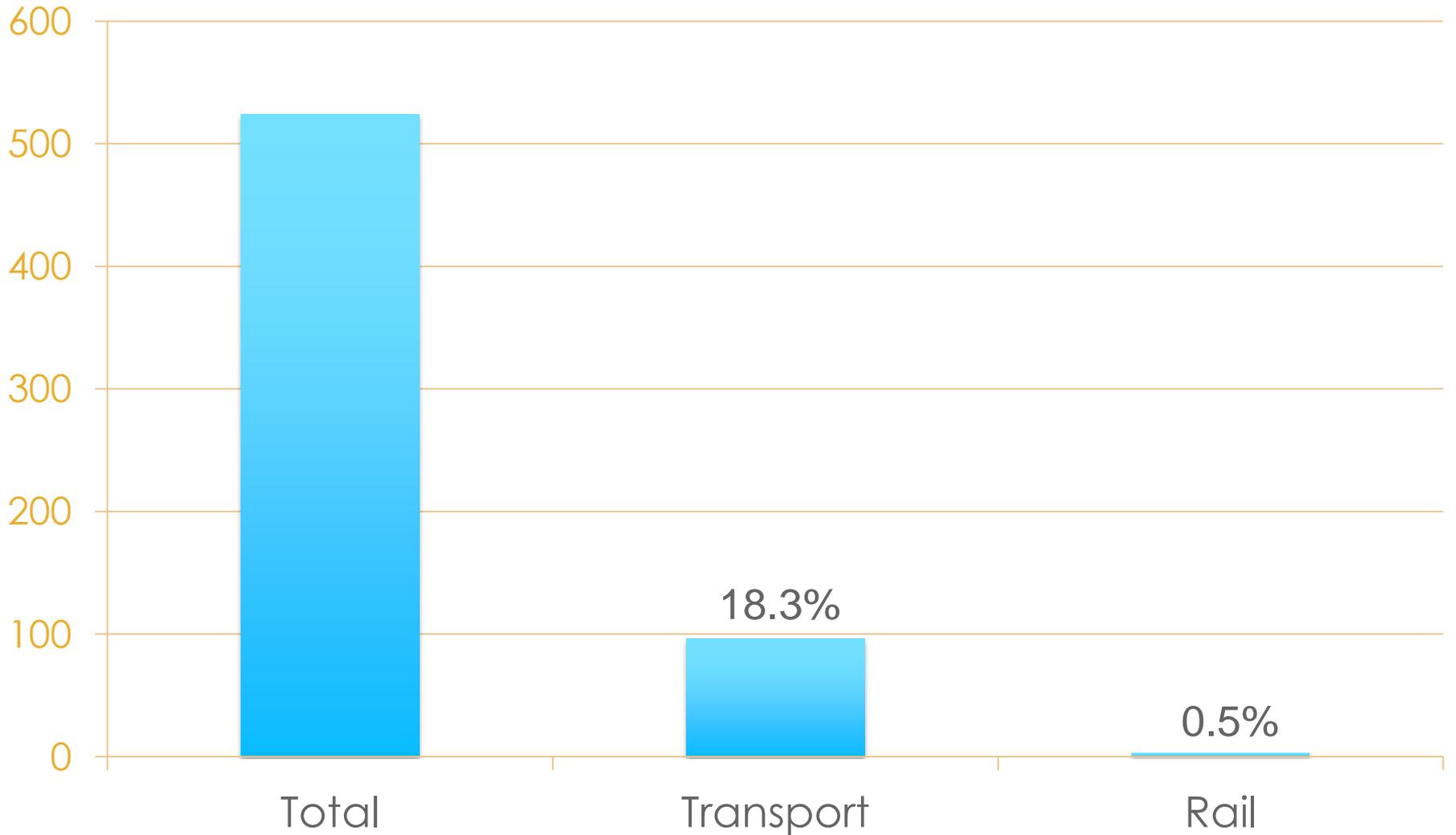


## FUTURE OF SUSTAINABLE TRANSPORT – LOCAL AND GLOBAL OPPORTUNITIES

*HOLGER DALKMANN, GLOBAL DIRECTOR CITIES  
AND TRANSPORT – WORLD RESOURCES INSTITUTE*

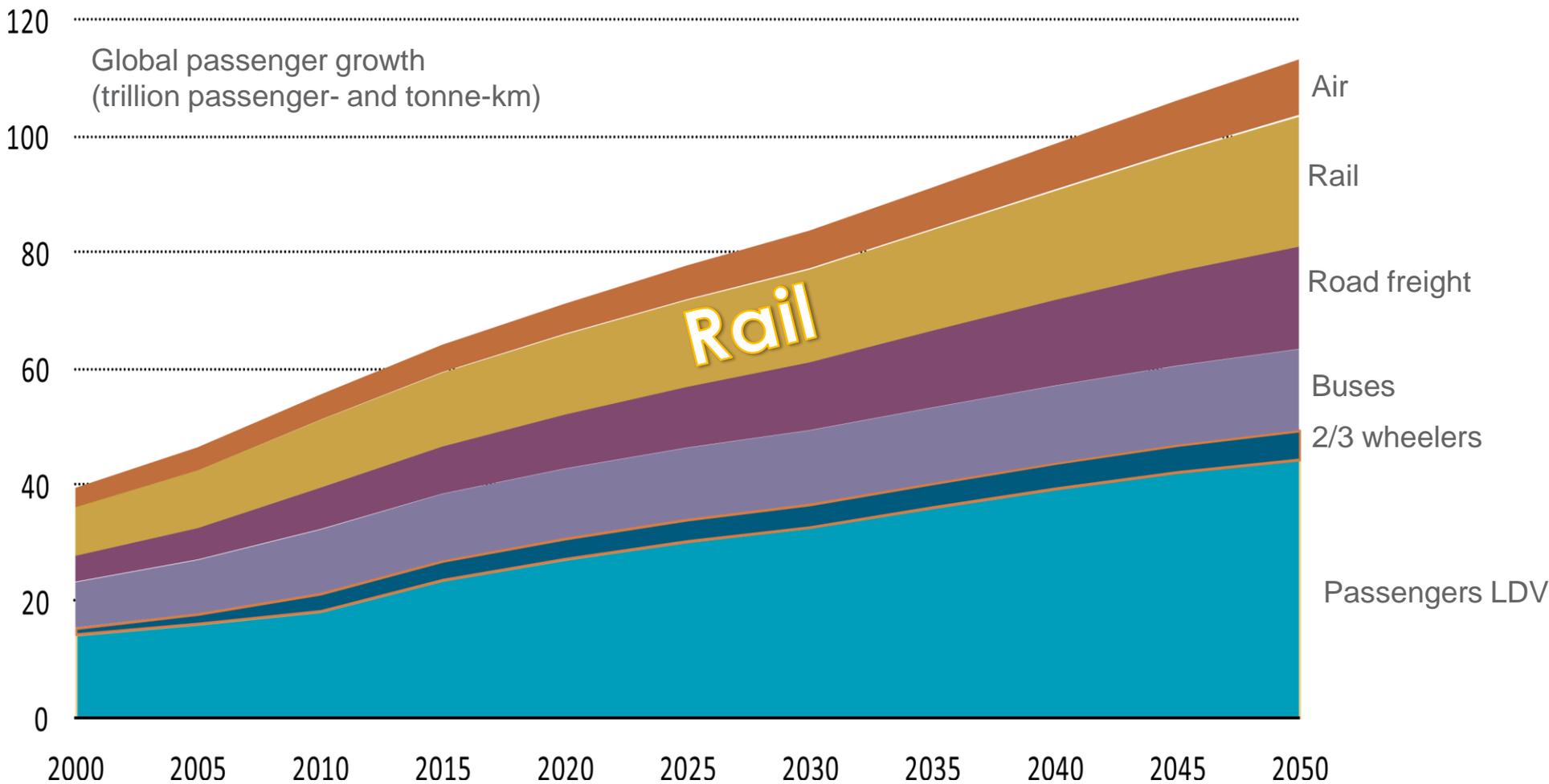
*Energy Efficiency, the best fuel to move our trains!*

# Rail, only a fraction of the world's energy use



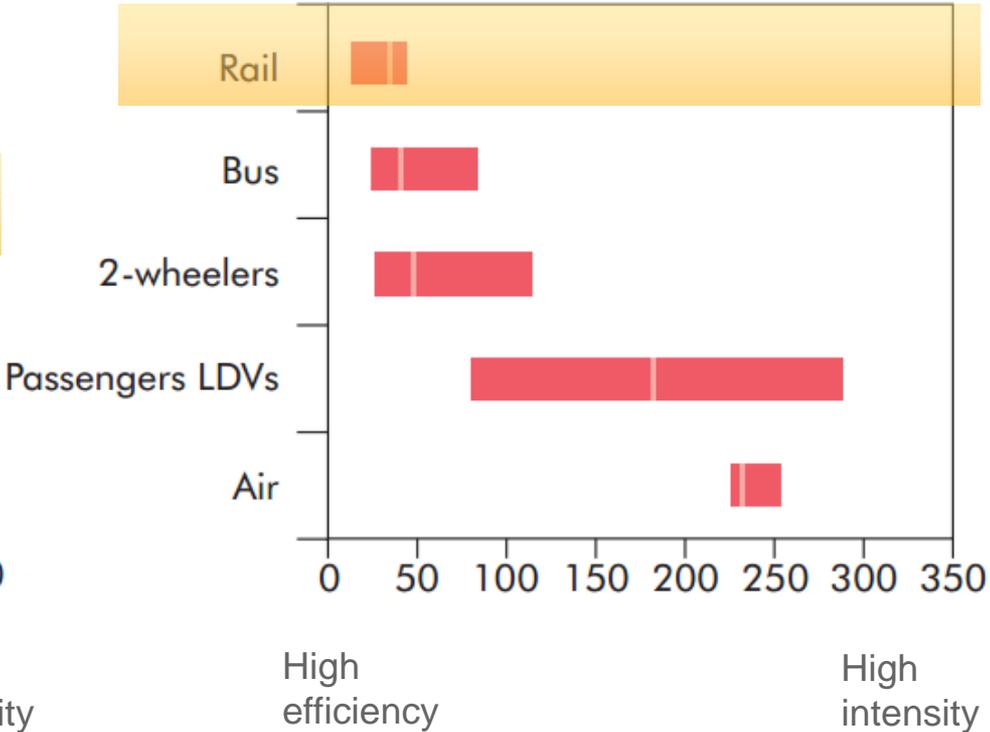
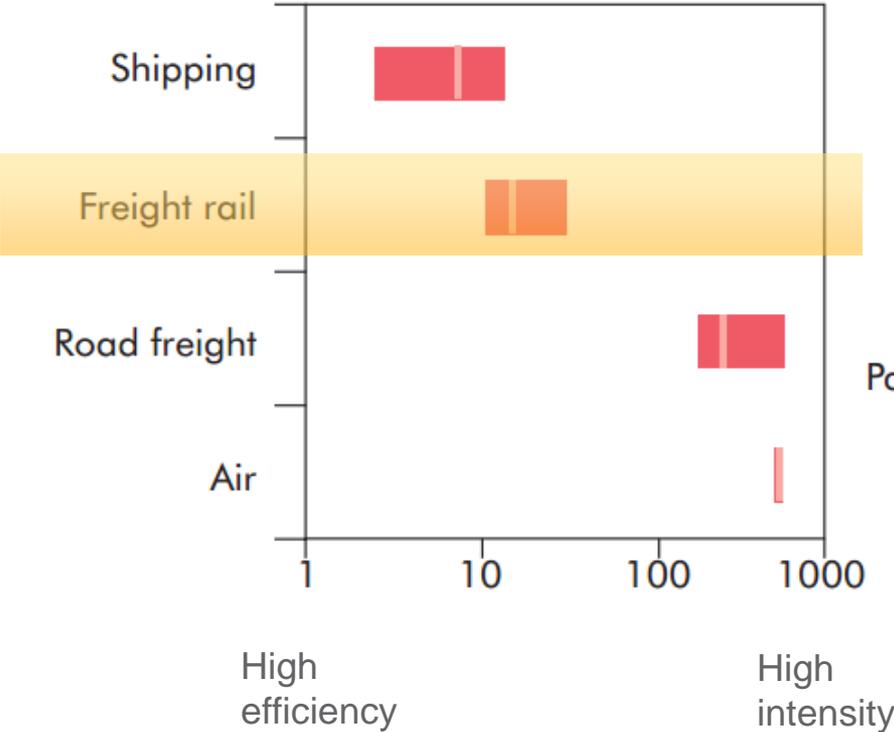
Source: IEA, World Energy Council

# But a high share in the world's travel

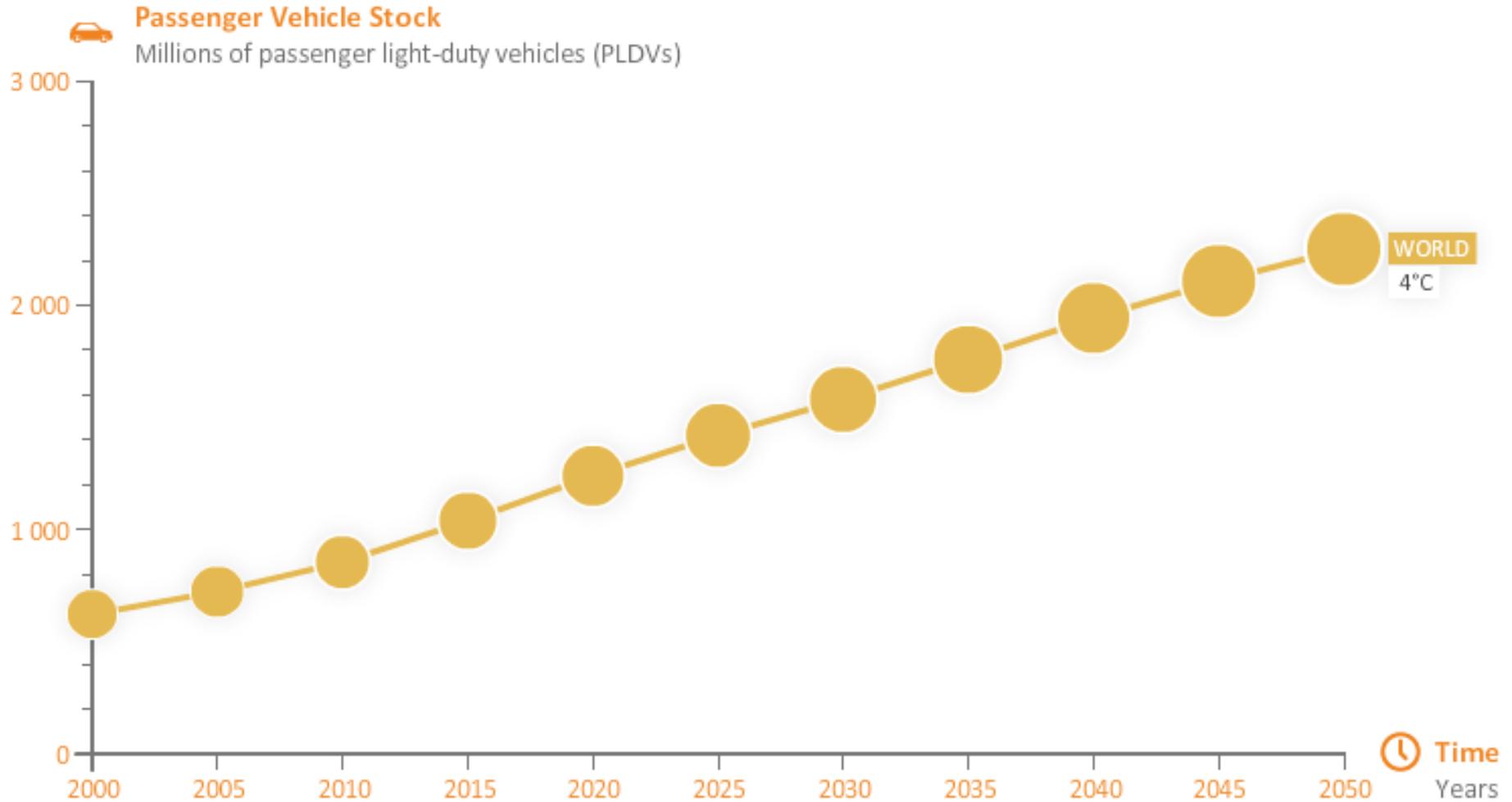


# As rail is very efficient

GHG intensity

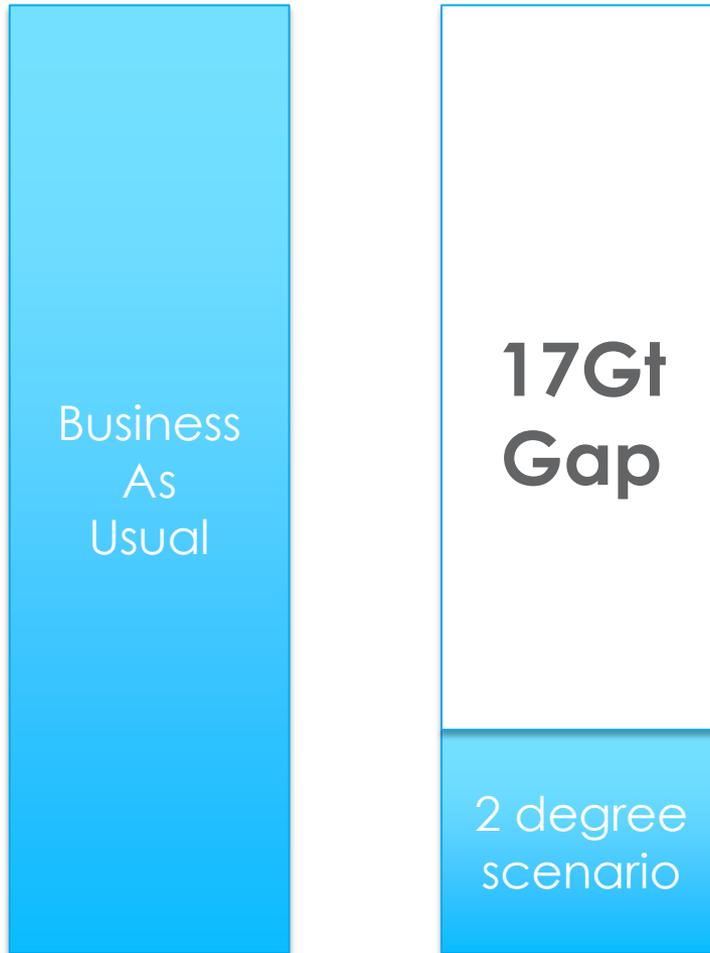


# Risk of a 2+ billion cars world

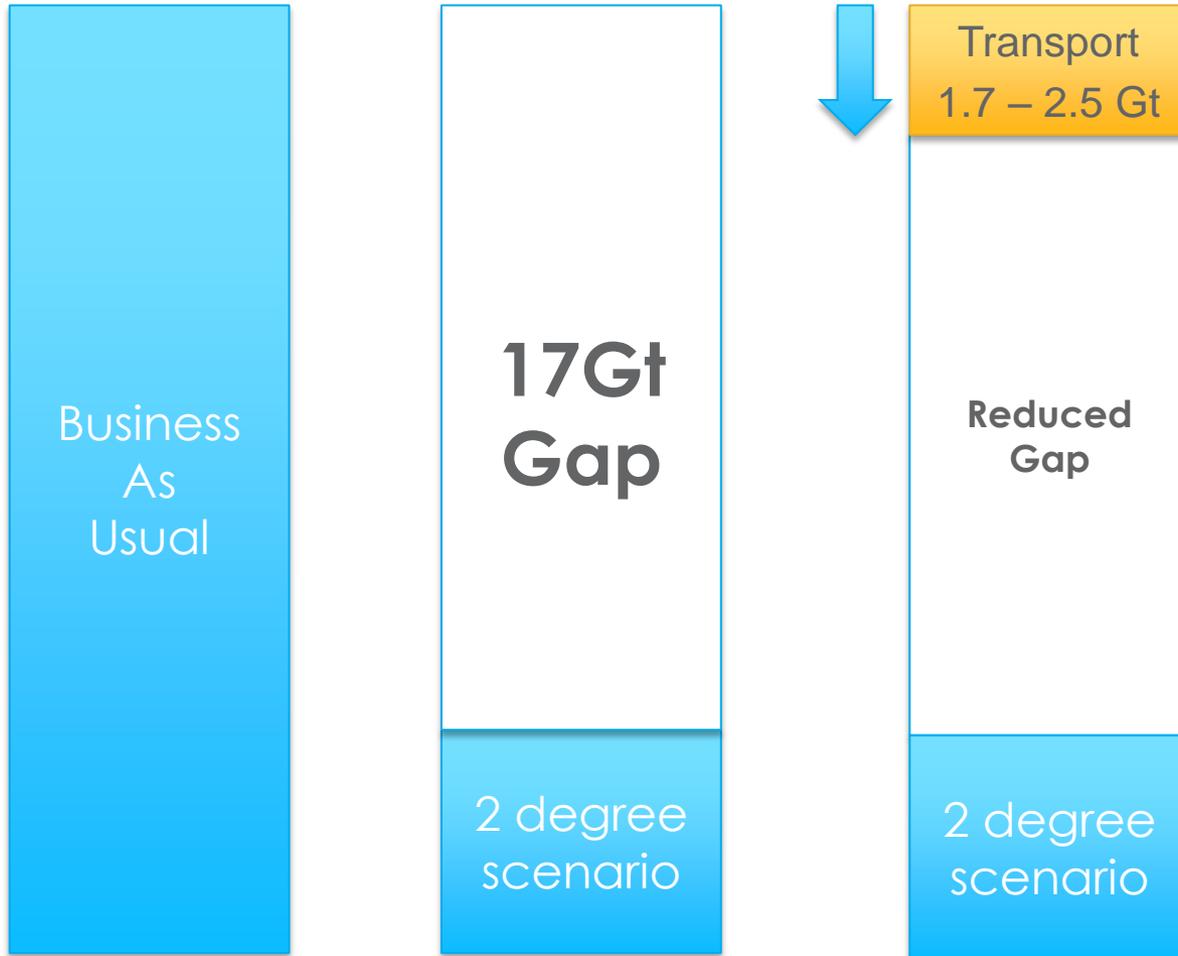


# Bridging the gap to a 2 degree scenario

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# Bridging the gap to a 2 degree scenario



# Cost of externalities



# Need for a Paradigm Shift

## Current transport



**Strategy: Avoid-Shift-  
Improve**

**Actions / Investments**

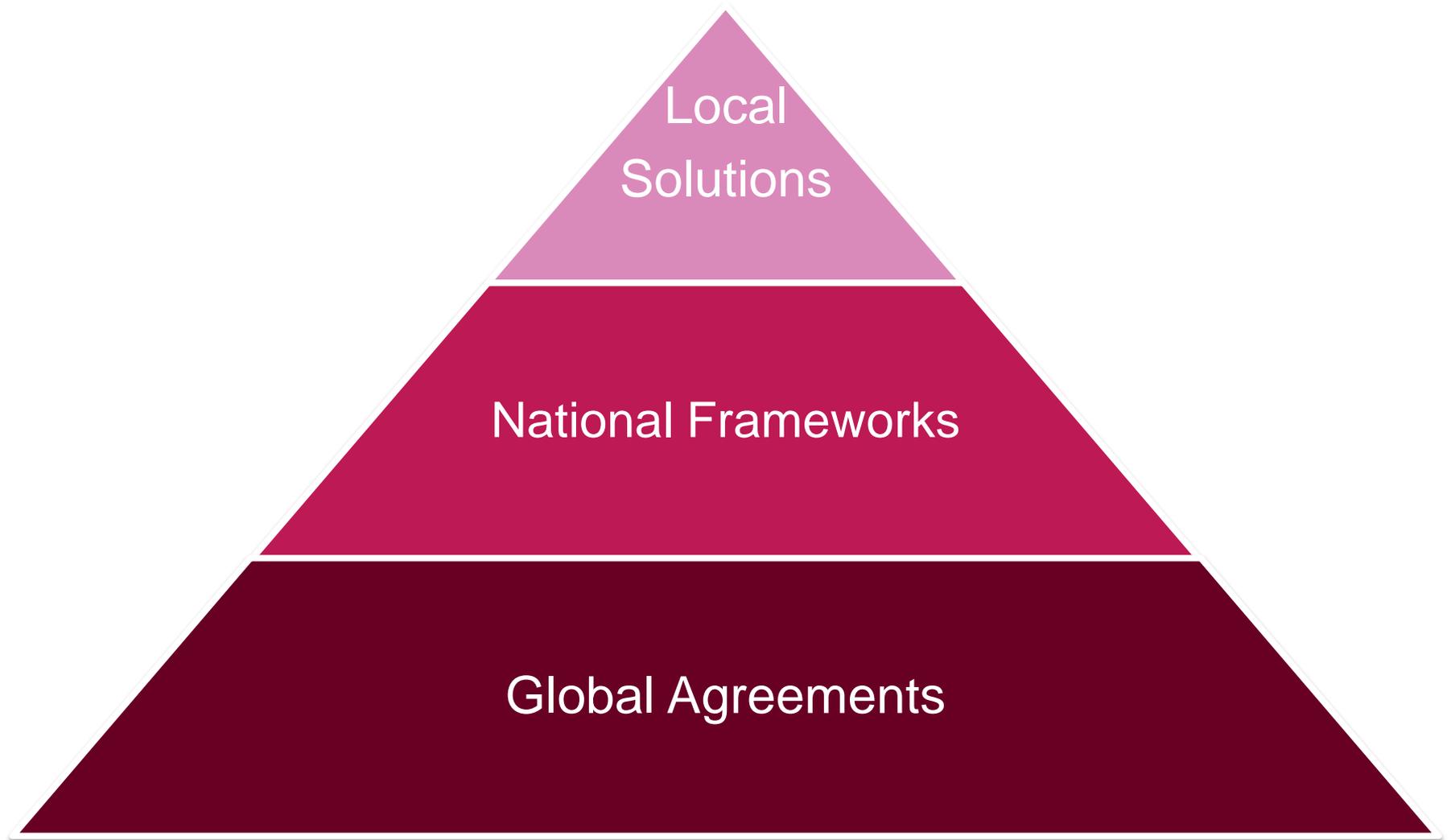
**Enabling Conditions**

## Sustainable transport



# 3 keys to “unlock”

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# 3 keys to “unlock”: key 1 “Local Solutions”

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Local  
Solutions

# Local solutions: New York City

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- Urban Development
- Sustainable and Healthy Transport



New York is pedestrianizing symbolic streets, improving public transport and making its transport fleet more efficient



# Local solutions: integrated transport and land use



# National solutions: Freight Corridor India



- Eastern Corridor- 1805 km Ludhiana – Kolkata
- Western Corridor- 1515 km from Mumbai(J.N. port) to Dadri
- Liberal Moving Dimensions  
Higher payload/axle
- Higher capacity freight cars
- Speed: 100 -120 kmph+

# 3 keys to “unlock”: key 2 “National Frameworks”

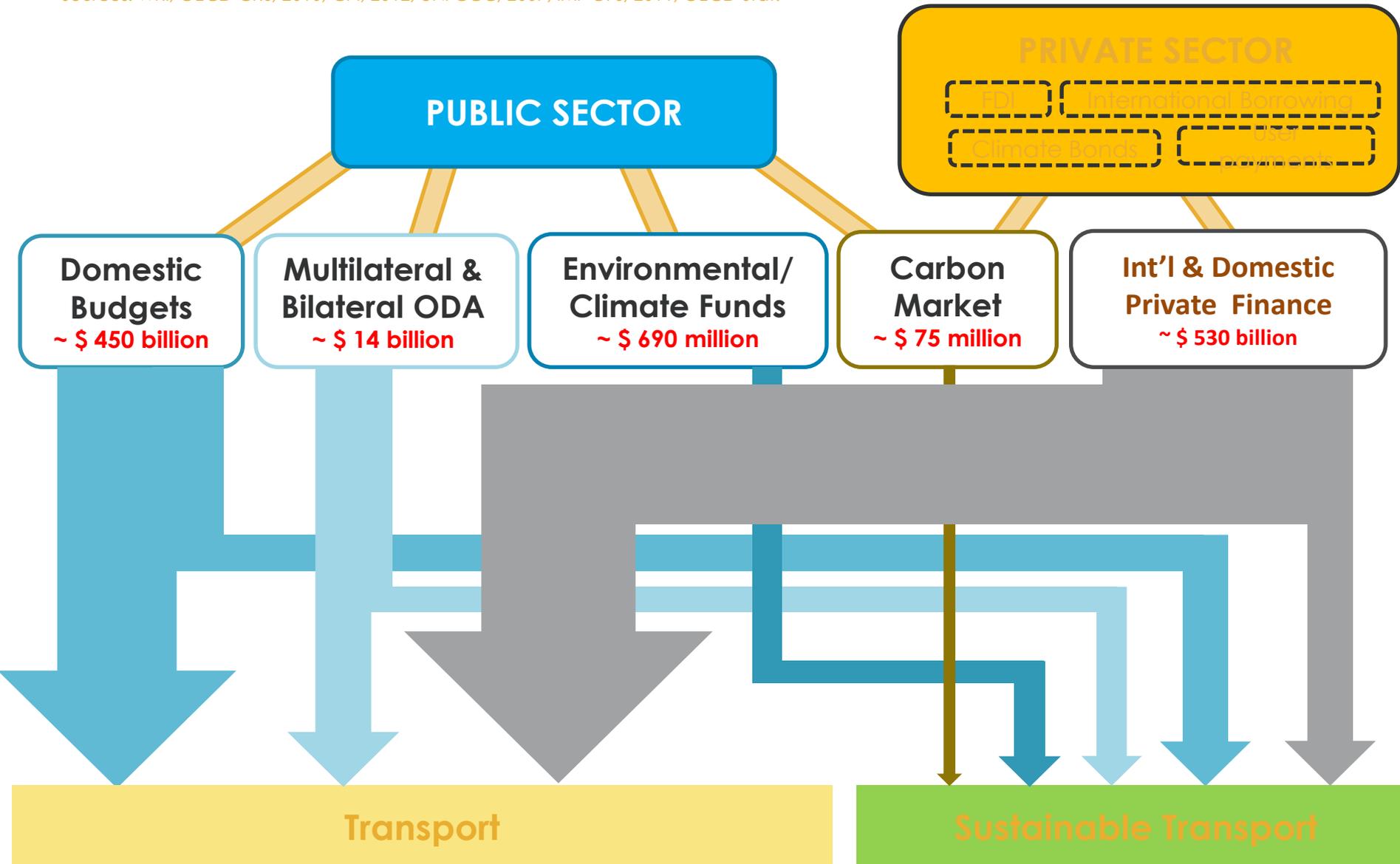
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National Frameworks

# National frameworks: importance of domestic budgets

Sources: WRI; OECD CRS, 2010; CPI, 2012; UNFCCC, 2007; IMF GFS, 2011; OECD Stat.



# National frameworks: PROTRAM Mexico

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- Mass transit program (PROTRAM) USD 2.4 billion
- 50% of project capital cost for Rail and BRT
- 5 Cities in operation/final construction; 34 cities identified
- Requires private participation



Fig. 13: Suburban Train Mexico City financed by PROTRAM.  
©EMBARQ, Mexico

# National frameworks: National Gov. are central



# 3 keys to “unlock”: key 3 “Global Agreements”

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Global Agreements

# Global agreements: \$175bn from MDBs



# Global agreements: inclusion in Climate agenda

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**Transport Day**  
2013 • Warsaw



# Global agreements: inclusion in Climate agenda

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The logo for the Climate Summit 2014 features a central white circle containing the text. The background is a light yellow gradient with a pattern of overlapping, semi-transparent geometric shapes in shades of orange, green, and yellow, resembling a stylized sun or a gear.

**CLIMATE  
SUMMIT 2014**  

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**CATALYZING ACTION**

# Global agreements: 2015 Paris Climate Summit

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# Sustainable Development Goals Post 2015

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Universal access to safe, affordable, accessible, and *low-carbon* sustainable transport for all, expand public transport, *walking, and biking*, and improve road safety

Draft Zero Goal 11.3 (*italics are proposed wording*)



# Global agreements: Vision for Climate Outcome

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- **Compact of Mayors**

  - Report and action

- **Multi-laterals**

  - Continue commitment and add to other urban infrastructure

- **National governments**

  - Financial commitment

# 3 Closing messages

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- **Rail** is key part of the picture, as a **very efficient** component of integrated public transport systems and the future of intercity travel
- **Local, national and international action** in support of sustainable, affordable, low carbon transport is needed to make a change in paradigms
- Opportunity for the rail sector to play a role in the **national and international agenda** promoting its benefits

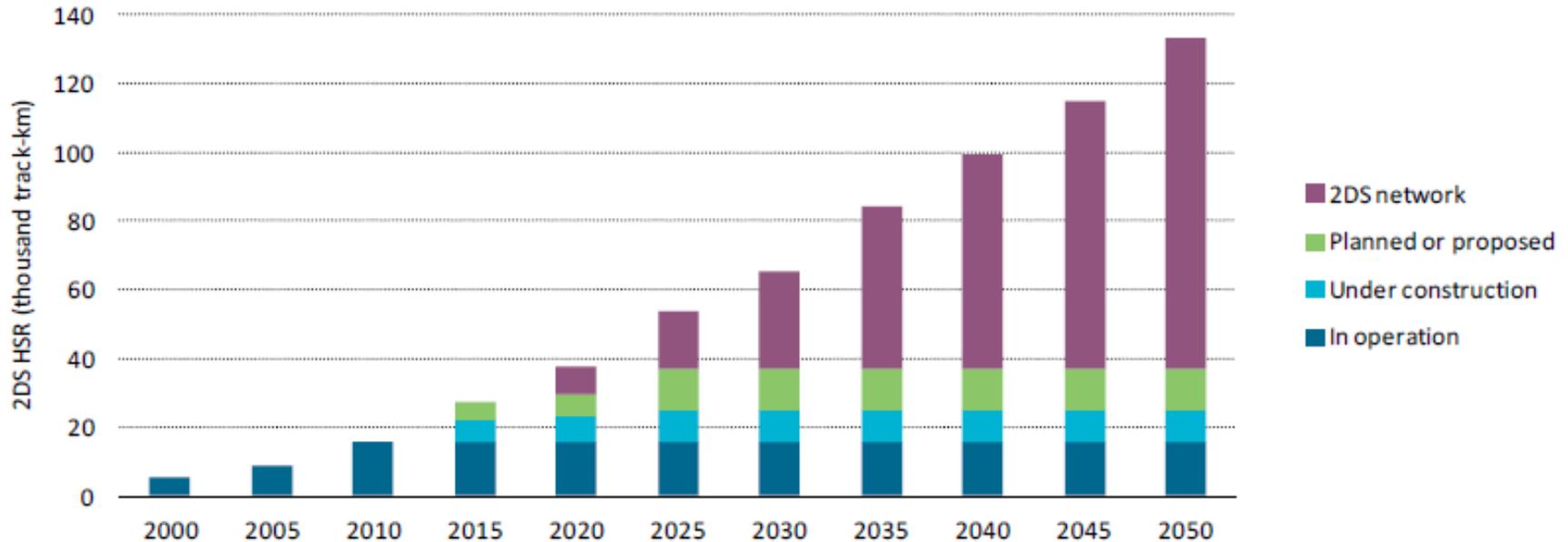
# Thank you!

- Holger Dalkmann, [hdalkmann@wri.org](mailto:hdalkmann@wri.org)
- [EMBARQ.org](http://EMBARQ.org), [WRI.org](http://WRI.org)
- Questions? Comments? Contact us at [embarq@wri.org](mailto:embarq@wri.org)
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An initiative of the WRI Ross Center for Sustainable Cities

# Support slide for High Speed Rail

Figure 17 • 4DS HSR network and 2DS HSR network potential



**Key message** • HSR network length under the 2DS could increase nearly 8.5-fold over 2010 levels, which equates to an additional USD 4 trillion in projected infrastructure spending.

<http://www.iea.org/publications/freepublications/publication/name-34742-en.html>