

Low Carbon High Volume Transport: Implications the Towards Paris Agreement

West Java, Indonesia
Photo credits: Wikiwand



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Low Carbon, High Volume Transport Project Overview



4 research themes

- Long distance strategic road and rail transport
- Urban transport
- Low carbon transport
- Gender, vulnerable groups, and inclusion

Objectives

- Explore **current state of knowledge and capacity** of low carbon, high volume transport in selected project countries in Africa and South Asia
- Strengthen link between **research and implementation** to increase provision of low carbon passenger and freight transport measures

Capacity Building Strategy for Low Carbon, High Volume Transport

- Capacity building one of major planned deliverables of Theme 3
- Develop capacity building strategy for institutions responsible for uptake and implementation of research findings on low carbon HVT
- Selected project countries for Theme 3 low carbon transport research:

Asia: Bangladesh, India, Indonesia

Africa: Ghana, Kenya, Nigeria, Rwanda, South Africa, Uganda



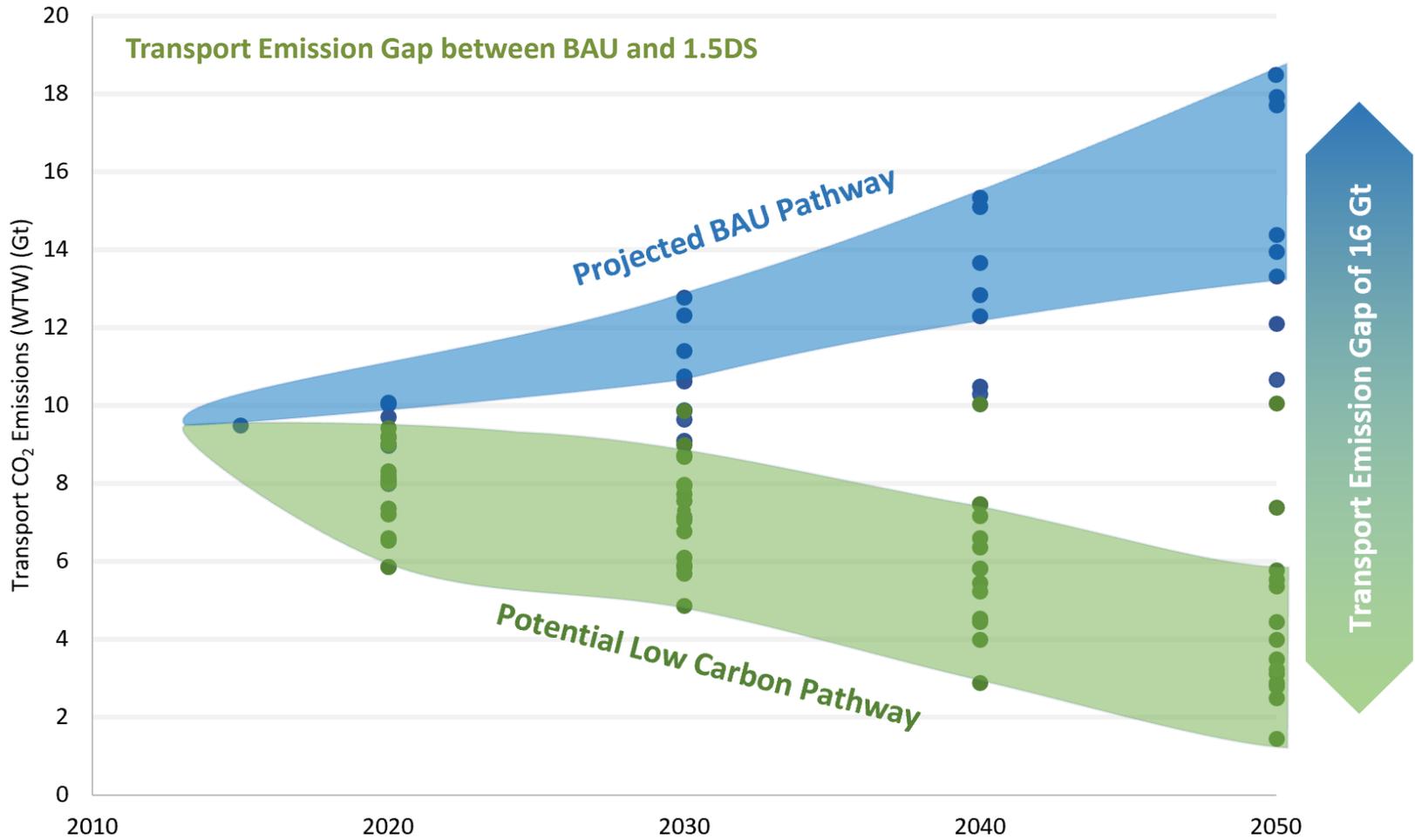
West Java, Indonesia
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Who we support

Transport decision-makers and development policy-makers, central and local government transport practitioners, private sector, and civil society

Role of Transport in Achieving the Paris Agreement



Source: Various

Transport Emissions Trends in Asia

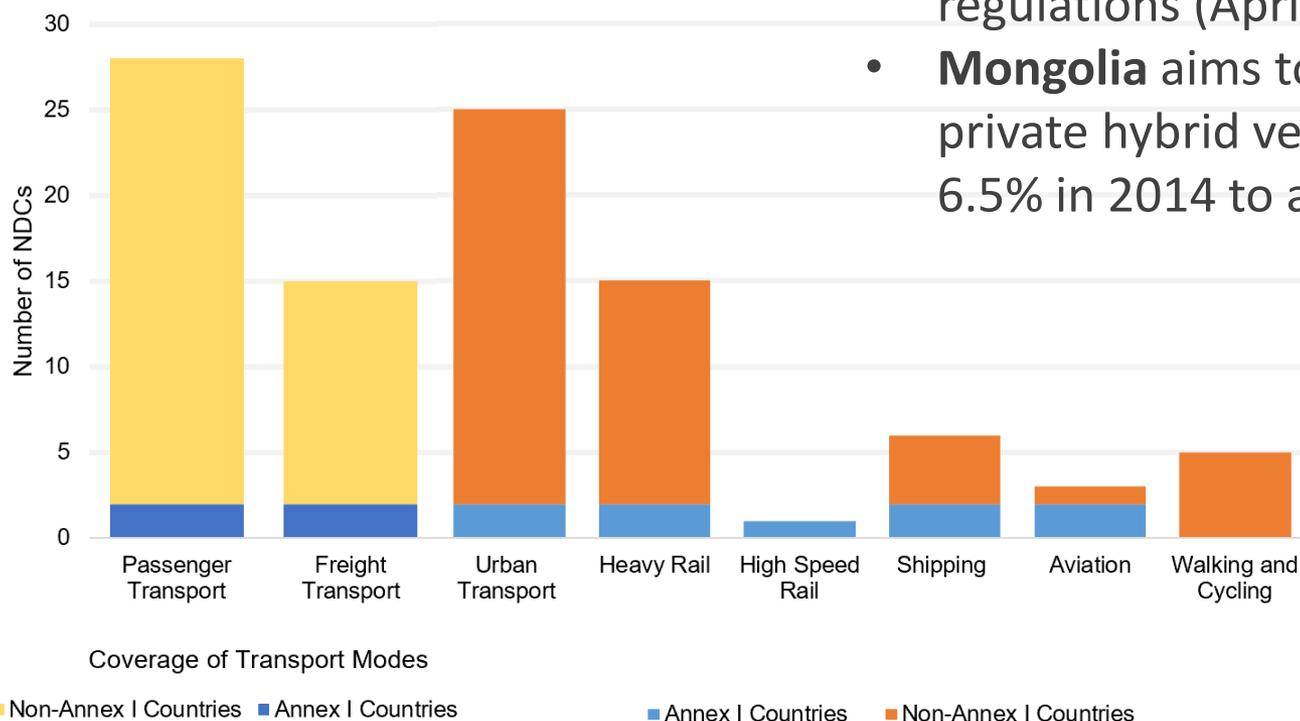
- Most global transport demand between 2005 and 2015 has been added in Asia
- 92% growth in transport CO₂ emissions in Asia (2000 – 2016):
- Reaching a 1.5DS target requires implementation of low carbon HVT solutions in Asia



Source: IEA

Implementing Low Carbon High Volume Transport in Asia

- Transport is highlighted in **78% of Nationally Determined Contributions (NDCs)** in Asia, but only 9% have transport GHG mitigation target, e.g.
- **Bangladesh:** transport sector reduction target of 24% below 2030 BAU
- **India** became the second country in Asia and the fifth in the world with heavy-duty vehicle fuel economy regulations (April 2018)
- **Mongolia** aims to increase share of private hybrid vehicles from about 6.5% in 2014 to about 13% in 2030

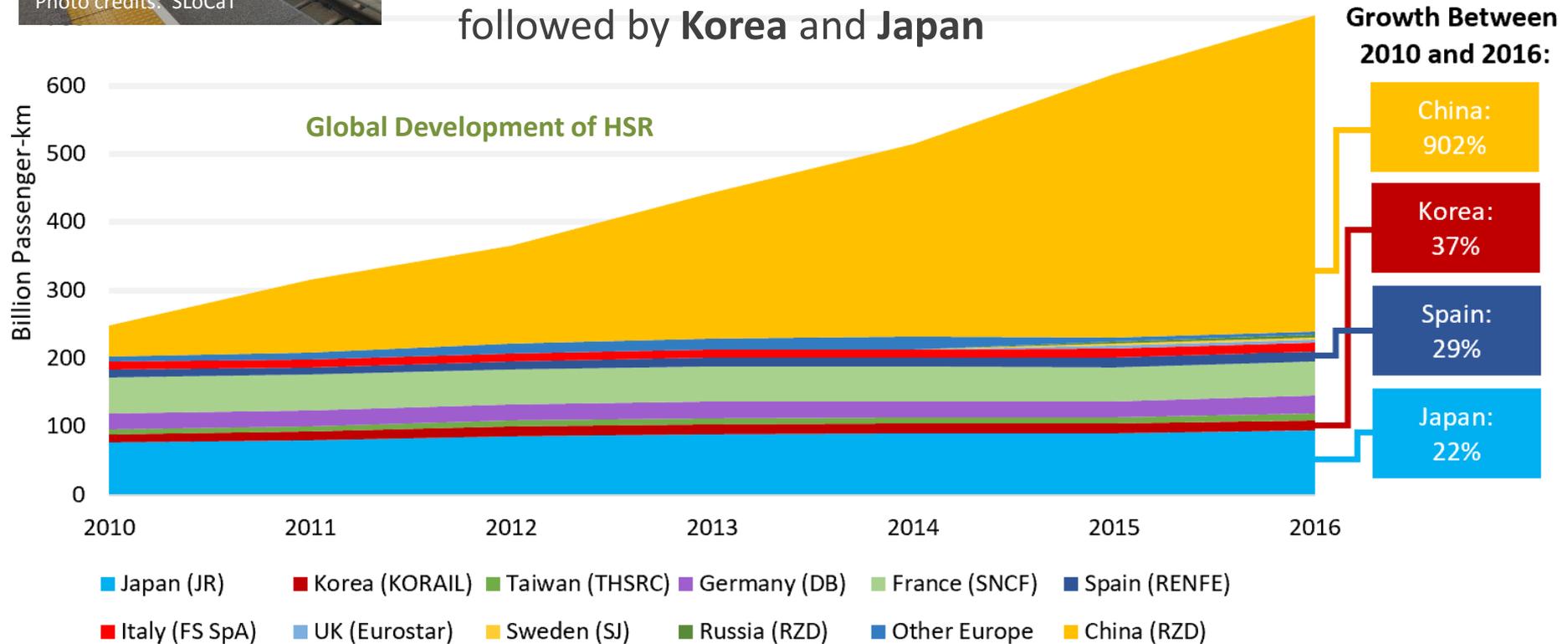


Source: SLoCaT TraKB

Railway Trends: High Speed Rail

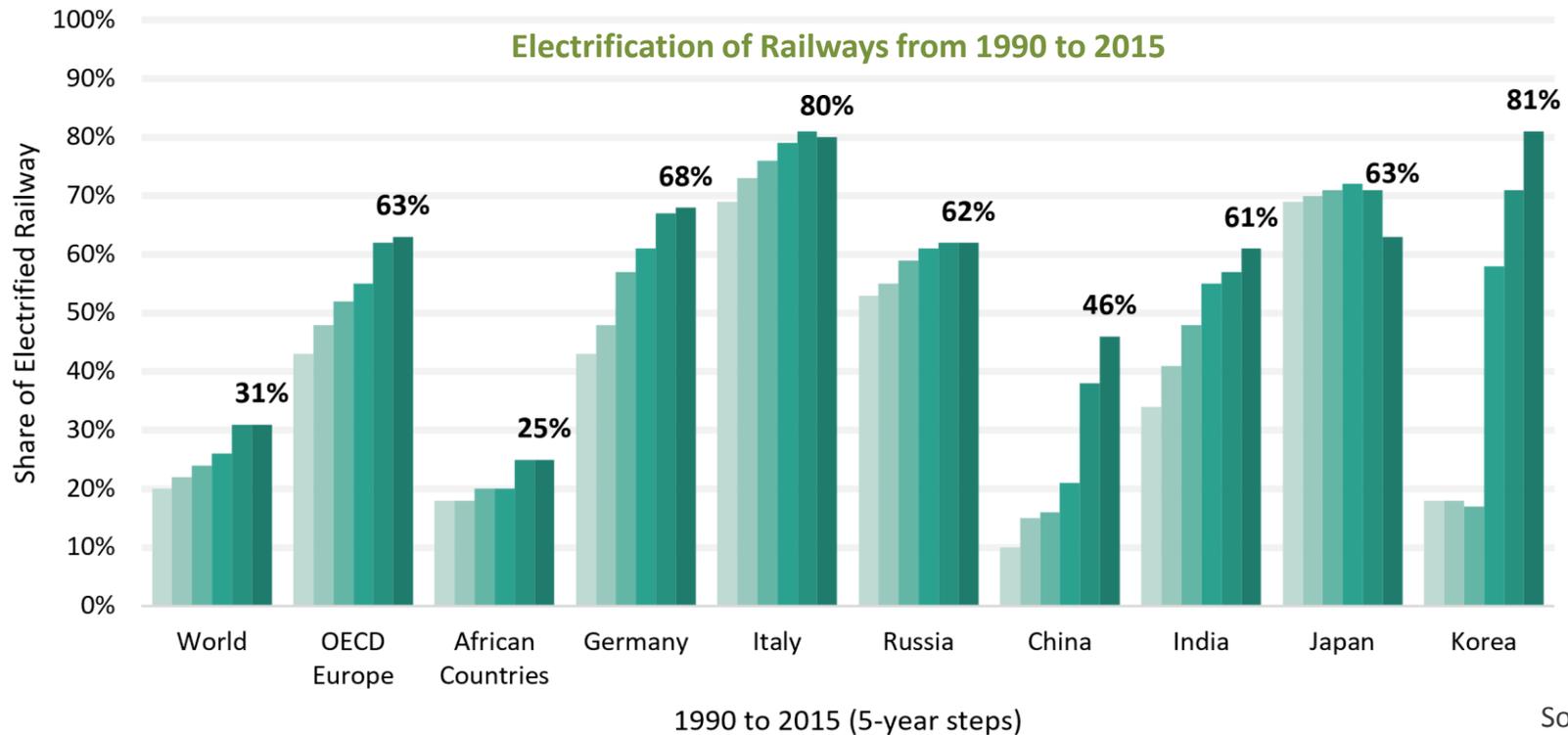


- Total High-Speed Rail (HSR) network spans over 32,000 km
- Japan's Shinkansen Network has high passenger capacity and was biggest system in Asia until 2010
- In recent years **China** leads growth of high-speed rail, followed by **Korea** and **Japan**



Railway Trends: Rail Electrification

- Rail electrification has reached 81% in **Korea**, 63% in **Japan**, 61% in **India** and 46% in **China**
- In September 2018, **Indian Railways** announced plans for 100% electrification by 2021-22



Achieving Paris Climate Agreement through Low Carbon Transport

- **Railway improvements** and complementary **quick wins** can spur needed national/local transport emissions reductions
- Transport sector can make a proportional contribution to **Paris Agreement goals** through bold **national LCT plans and targets**
- HVT stakeholder survey to identify **strengths and gaps** in knowledge/capacity to **implement, monitor and evaluate** LCT



Thank you for your attention

For more information on the HVT project, visit our website:

<http://slocat.net/lowcarbonhvt>

SLoCaT HVT stakeholder survey:

<https://bit.ly/2OVVHnI>

DFID transport research website survey:

<http://bit.ly/2NUWXuS>



Partnership on Sustainable
Low Carbon Transport



**HIGH VOLUME
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