



- Recent Transport and Trade Developments and Challenges:
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- Regional Connectivity: Linking Cities along Supply Chains through Regional Programs
- Transport Realities in Asia and EASTS
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Recent Transport and Trade Developments and Challenges: An Overview

Global trade transformation and the emergence of a new landscape

- Substantial trade volume increase
 - Vast improvements in maritime and air shipping brought about by technological advances
 - Business model = The world making things together (examples: automobiles, cellphones, aircraft, etc)
- With the general decline in tariffs, increasing focus on costs of doing business including costs at the border
- Deepening trade complexity and increasing speed of services
 - Just-in-time delivery
 - Low inventory retention
 - Multimodal logistics services
 - Increasing complexity of global supply chain networks
 - Security threats after the 9/11 attacks
 - Illicit trade



Recent Transport and Trade Developments and Challenges: An Overview

Substantial trade increase in Asia (12%)





Recent Transport and Trade Developments and Challenges: An Overview

Regional transport infrastructure to meet the trade volume increases

989 regional transport infrastructure projects totaling about \$204 billion in Asia (2010-2020)

- *Asian Highway Network (121 projects, \$43 billion)
- *Trans-Asian Railway Network (45 projects, \$83 billion)
- *Asian Container Ports (765 projects, \$51 billion)
- *58 regional road transport projects (\$27 billion) envisaged under the Greater Mekong Subregion (GMS), Central Asia Regional Economic Cooperation (CAREC), and South Asia Subregional Economic Cooperation (SASEC) programs

(Source: ADB and ADBI, 2009)

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Recent Transport and Trade Developments and Challenges: An Overview

Human resource constraints in customs, transport, and trade-related authorities

The Jordanian Transport Minister said "capacity building is essential in our increasingly globalized world," during the First Session of the Capacity Building Committee of the World Customs Organization (WCO) held in Brussels on 27-29 September 2010.

He added, "[a]s the private sector increases its investment in logistics, inventory and information systems, government agencies must keep pace or lose out in goodwill and real trade."

Customs, transport, and trade-related authorities are experiencing knowledge- and skills-drain as many experienced officials are retiring, while new officials require time and training to gain the competency required for their services.

Customs, transport, and trade-related administrations need to build sustainable institutional capacity through active staff training.



Recent Transport and Trade Developments and Challenges: An Overview

CAREC and GMS regional transport projects

Over the years, with strong leadership and support from government agencies and ADB, the GMS and CAREC programs have yielded fruitful outcomes.

By the end of 2011, 172 regional projects totaling \$34 billion had been carried out under the framework of the two programs, of which regional transport projects constitute 81% (\$27 billion).

The two programs also provided numerous personnel training sessions for member countries.

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Recent Transport and Trade Developments and Challenges: An Overview

Challenges at borders in Asia

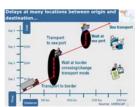
Efficiency gains in border operations in Asia have not kept pace with the increased trade volumes and complexities.

+

The level of accession to basic international conventions is lower than the international average (slow progress in policy and procedural modernization in Asia).

=

Trade flows are being constrained at the border in Asia.



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Asia's 6 MEGA Challenges

Massive Urbanization

- Urban poverty
- Environmental stress and climate change
- Strain on urban mobility
- Need for livable cities

Global Warming and Climate Change

- Climate change and resulting severe water shortages
 mega challenge
- New growth model and much more eco-friendly and sustainable lifestyles

Avoiding the Middle Income Trap

- Inclusive growth and creation of large middle class
- Sound and efficient financial systems
- · Technologically capable, skilled labor force
- Specialization to gain competitiveness
- Corruption under check

Global Competition for Finite Resources

- Increasing affluence could lead to unsustainable pressure on finite natural resources
- Growth patterns and lifestyle must change dramatically

Addressing Inequities and Disparities

- Inequities within countries (e.g., across geographical regions, rural vs. urban) major risks to social stability
- Disparities across countries increase risks: migration; tensions and even conflict
- Regional cooperation necessary to mitigate such risks

Disparities across Countries and Subregions

- Gap between region's advanced and leastdeveloped economies larger than in any other region – region must find ways to spread prosperity
- Disparities left unaddressed will create significant risks

2050

Massive urbanization

- Urban areas account for 84% of global GDP, while they cover about 3 % of the planet's surface
- Urbanization is expected to grow by 3% annually in Asia
- About 1.1 billion people will move to cities in the next 20 years
- 600 cities account for 60% of GDP (50% of these cities are in Asia)
- 23 megacities account for 14% of global GDP but will decline to 10% by 2025
- 577 second-tier cities to account for 50% of global GDP by 2025

Source: McKinsey Global Institute. 2011. Urban world: Mapping of the economic power of cities. March



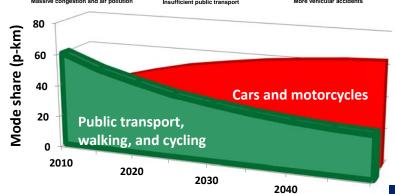


Source: UNDESA, 2014, World Urbanization Prospects.



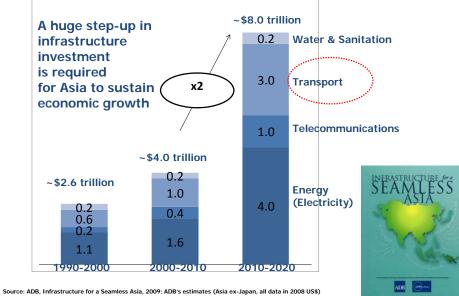
Transport trends for Asia and the Pacific



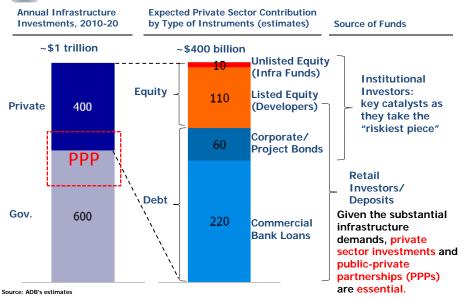


Source: ADB and IEA, 2011

Huge Need for Infrastructure Investment in Asia

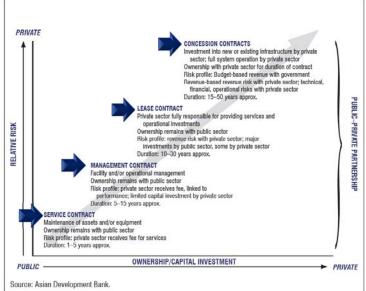


Private Sector is Expected to Contribute



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Public-Private Partnership Spectrum



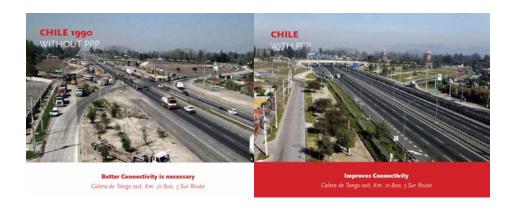


Philippines: Northern Luzon Expressway Rehabilitation and Expansion Project





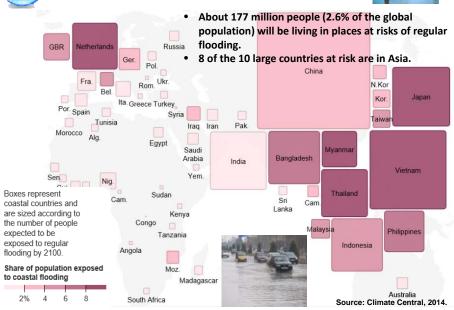
Chile: Connectivity Improvement with PPP



Source: Asian Development Bank Source: Marcela Allue, COPSA, Chile 2014

Flooding Risk from Climate Change







Disasters: Calls for better land use planning





ADB's Sustainable Transport Initiative: Priority Areas



ADB Strategy for Sustainable Transport







Avoid unnecessary vehicle kilometers

- Smart growth
- **Zoning regulations**
 - Information and communications technologies
- **Transit-oriented development**

Shift to the lowest-emitting modes

- Public transport
- Non-motorized transport Transportation demand management (TDM)
- Shift to rail freight

Improve vehicle/fuel technology towards cleaner and more efficient options

- Alternative fuels
- Fuel efficiency standards
- Vehicle maintenance
- Vehicle testing

ADB supports a wide range of investments





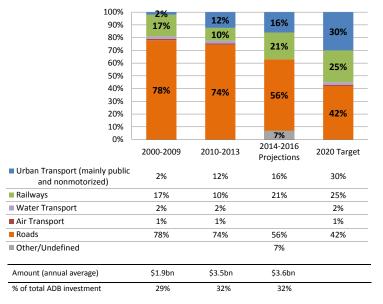
Nonmotorized transport

Inland waterways

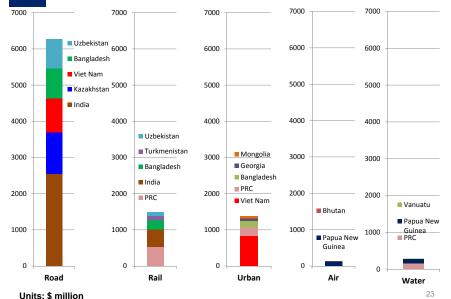




ADB ADB's transport transformation



ADB Transport Lending (2010-2013): Top 5 recipients by subsector

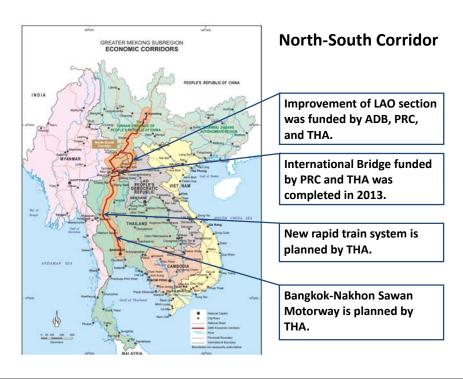




Regional connectivity: Linking cities along supply chains through regional programs

Greater Mekong Subregion (GMS) Program







GREATER MEKONG SUBREGION ECONOMIC CORRIDORS

Eastern Corridor Kunming-Hai Phong

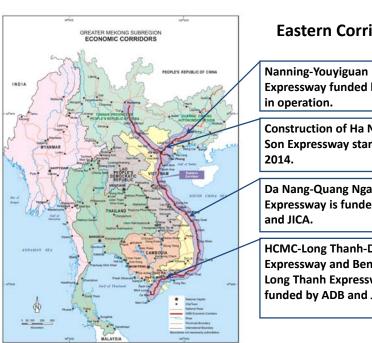
Kunming-Hekou Expressway is in operation.

Hekou-Lao Cai border has been modernized.

Capacity increase of Yen Vien-Lao Cai Railway is funded by ADB.

Noi Bai-Lao Cai Highway funded by ADB will be completed in 2014.

Ha Noi-Hai Phong **Expressway funded by Czech** and private sector is under construction.



Eastern Corridor

Expressway funded by ADB is

Construction of Ha Noi-Lang Son Expressway starts in

Da Nang-Quang Ngai Expressway is funded by WB

HCMC-Long Thanh-Dau Giay Expressway and Ben Luc-Long Thanh Expressway are funded by ADB and JICA.

East-West Corridor

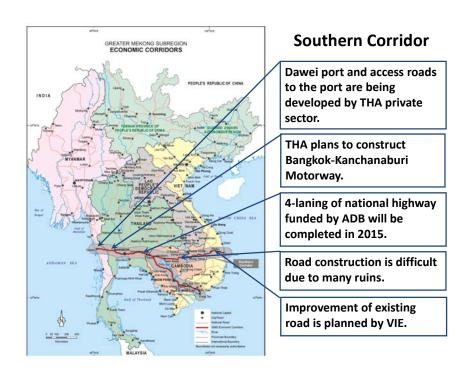
Road in MYA section will be developed by ADB and other development partners.

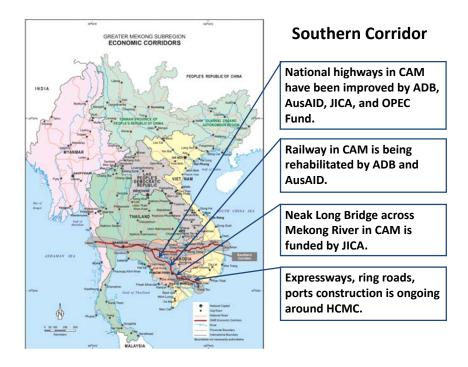
4-laning of national highways funded by ADB will be completed in 2015.

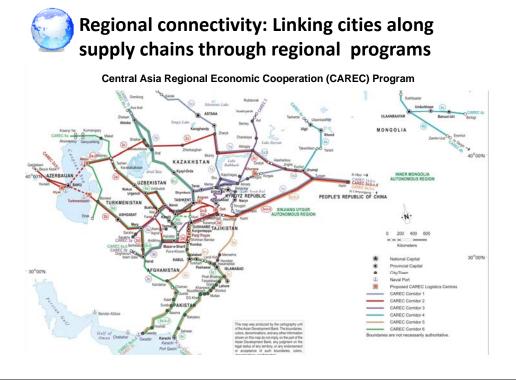
International bridge across Mekong River funded by JICA completed in 2007.

ADB and JICA financed improvement of LAO and VIE sections.

JICA financed Da Nang Port. **Expansion of Da Nang Port is** planned by VIE.



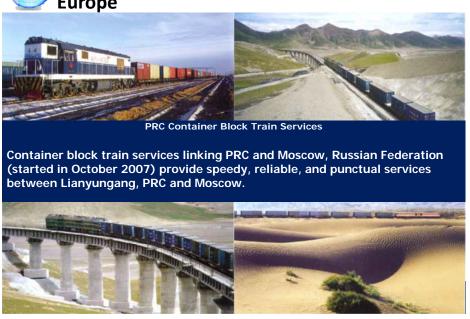








Container Block Trains: Linking East Asia to Europe





Logistics as an important strategic business factor



Kazakhstan: High Tech Logistics (Aktobe, Almaty, and Astana)





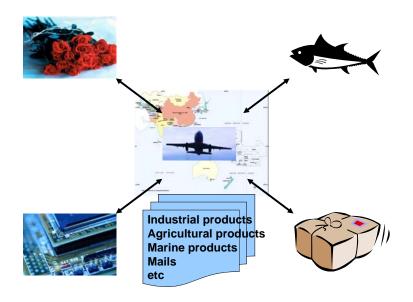
Kazakhstan



Warehouse



Air Services: Linking Asia to the Rest of the World





Multi-modal transport systems

One aspect of encouraging small-scale trade is the expanding use of roll-on/roll-off (Ro-Ro) vessels.

These hold the potential to transform inter-island shipping.

Ro-Ro uses specially designed ferries to ship cars, trucks, and buses, eliminating the need for shifting cargo between vessels and saving on handling and other expenses.

Ro-Ro ports are multi-modal hubs that allow land cargo to be smoothly shipped across sea-lanes.

Recently, the Philippines developed a true nautical highway that allows small businesses to move goods and people more efficiently and reliably from island to island.

In some instances, transport costs have fallen by as much as 40%.

(Asia Foundation, 2010)





Transport Realities in Asia and EASTS

Realities = With limited budgets and human resources, governments have to cope with the substantial challenges.

How?

Work smart (deliver more with less resources)

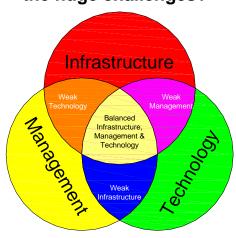
How?

Capacity building (human capital efficiency gains)
Practical studies (knowledge gains)
Innovative financing and management gains
Technology and ICT gains
Partnerships (additional expertise gains)



Transport Realities in Asia and EASTS

How can EASTS help governments overcome the huge challenges?





EASTS Studies, Training and Forums: Future Topics for Officials and Students

- Planning
 - Sustainable transport and urban development requires government's robust planning, using integrated and inclusive approaches.
- Good practices for sustainable transport and urban project development
- Project analysis, procurement and management
- Financing for sustainable transport development
- Sustainability and resilience
 - Sustainability and resilience are real challenges for countries (cities in particular), with increasing occurrence of natural disasters and the negative impact of climate change having design implications.







Transport in Asia: Challenges and Future



For More Information

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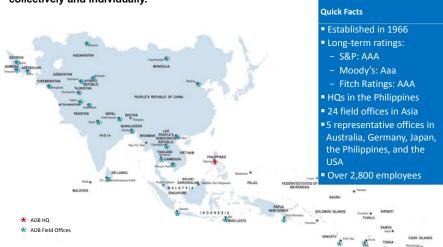
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The Asian Development Bank

ADB was established by agreement of its member countries to foster economic growth and co-operation in the Asia and Pacific region, and to contribute to economic development of its developing member countries in the region, collectively and individually.



ADB Operational Structure

Public sector funding and private sector funding operated under one corporate umbrella and strategy



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