ADB-ESCAP Workshop on Transport and Climate Change Bangkok, 25 September 2009



Sustainable Transport for low-carbon, Green Growth in Asia-Pacific



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Asia-Pacific socio-economic challenges

1. Poverty

People under poverty line in Asia and the Pacific

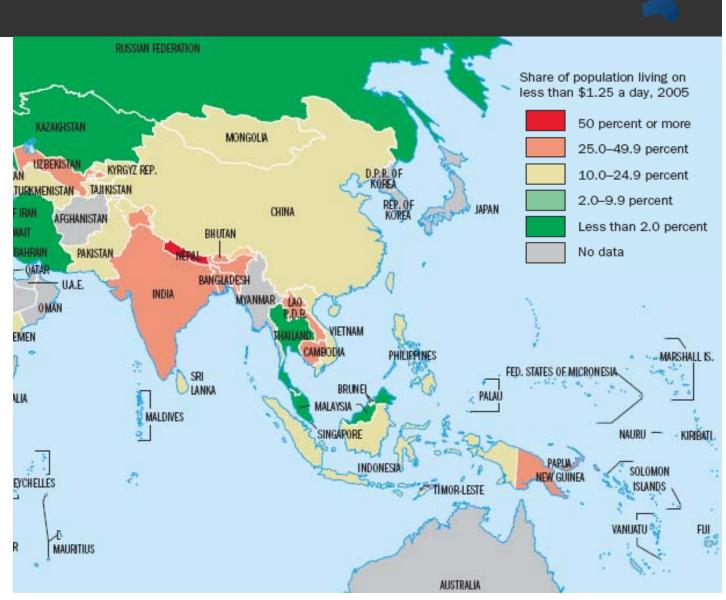
Under \$1(PPP) a day → 641 million

Under \$1.25 (PPP) a day

912 million, 66.4 % of the world poor (1,374 million)

Under \$2 (PPP) a day

1,821 million, 71% of the world poor (2,564 million)







2. Health

- 4 million children die before age of 5
- Maternal mortality: 300 deaths per 100,000 live births

3. Access to services

- 400 million urban residents without access to sanitation
- 566 million rural residents without access to clean water
- 800 million without electricity
- 40% of urban residents in slums

Source: ESCAP, ADB, UNDP (2008) "A future within reach"

Asia-Pacific Development Challenge

Asia-Pacific is already living above its 'environmental means': Despite its relatively low-impact consumption patterns, its carrying capacity is already being exceeded

(ESCAP State of the Environment Report 2005)

LIMITED CARRYING CAPACITY

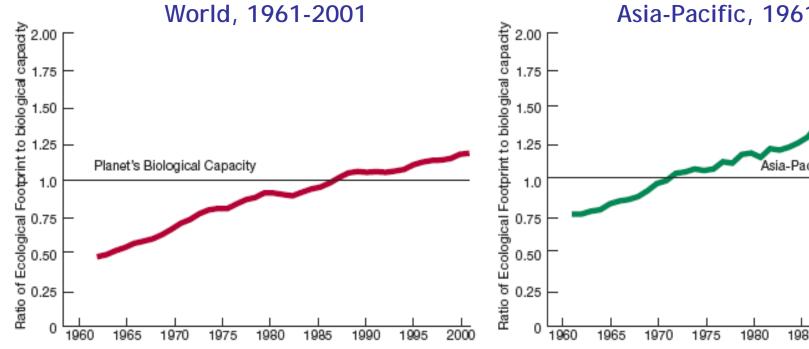
- Population density 1 ½ times the global average
- Freshwater available: 3,920m3/cap/yr vs.
 South America 38,300m3.cap/yr.
- Productive area available per capita: 60 % of the global average
- Arable land per capita: 80 % of the global average







	GDP/capita	Bio-capacity	Eco-footprint	Eco-deficit
	(US\$)	(GH/capita)	(GH/capita)	
Asia-Pacific	5,800	0.7	1.3	-0.6

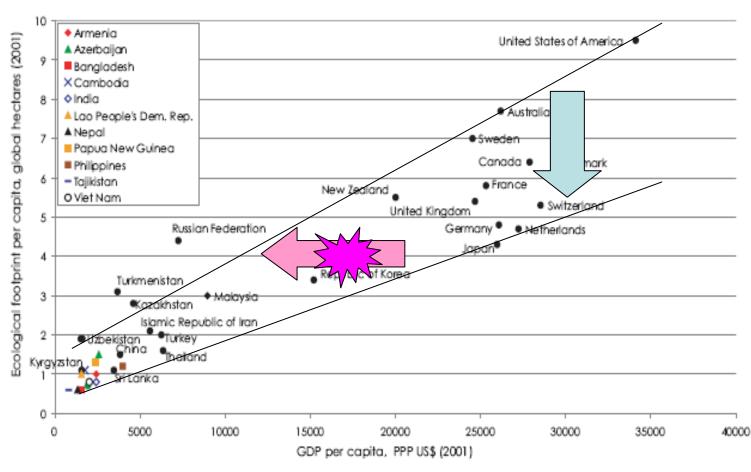


Asia-Pacific, 1961-2001 Asia-Pacific's Biological Capacity

Source: WWF Living Planet Report Asia-Pacific 2005

Different Patterns of Growth



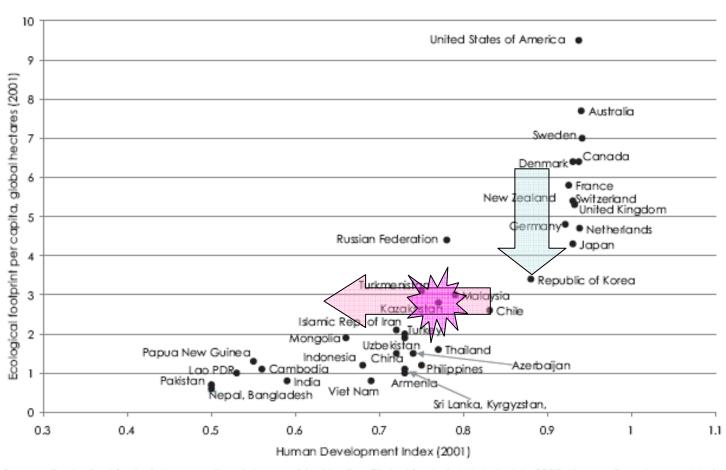


Source: Ecological footprint per capita: data provided by the Global Footprint network, July 2005;

GDP per capita: World Bank, World Development Indicators database,
downloaded on 5 July 2004 from http://devdata.worldbank.org/dataonline/>.

Different Patterns of Growth





Source: Ecological footprint per capita; data provided by the Global footprint Netork, July 2005; Human Development Index: UNDP, Human Development Report website, online database, accessed on 2 February 2006 from http://hdr.undp.arg/statistics/>.

Green Growth: Strategy for Asia-Pacific

- Adopted as the strategy for Asia-Pacific at the 5th Ministerial Conference on Environment and Development (MCED 5, March 2005, Seoul)
- Achieving rapid growth without compromising environmental sustainability
- Attaining MDG 1 (poverty reduction) & MDG 7 (environmental sustainability) at the same time
- Achieving "low-carbon" development
- Focusing on Environmental Sustainability
 & Ecological Efficiency (Eco-efficiency)





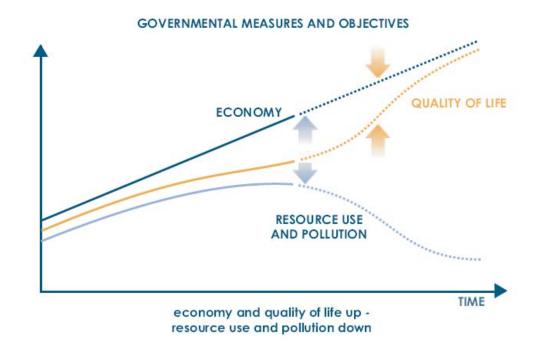
Green Growth

Green Growth is an approach which harmonizes economic growth with environmental sustainability.

Win-Win situations



- Green Growth is about pursuing economic growth and improving quality of life while at the same time preserving the ecological integrity
- Green Growth is about decoupling economic "goods" from environmental "bads"
- Green Growth is about regarding environmental protection as a growth engine



Source: WBCSD (2000: 23).

Threats to development



- Recent crises, such as the food, fuel and financial crises, have highlighted the ecological and social imbalances of current economic growth patterns and reiterated the case for shifting to environmentally sustainable economic growth
- Equating these imbalances will prove critical for Asia-Pacific if the region is to meet key persistent and emerging challenges, such as poverty reduction, water, energy and food security, and climate change
- These challenges are not isolated, but closely inter-linked

Energy Security

- Despite the recent relatively stable energy prices, the region will continue to be subjected to volatile prices of oil and other energy resources
- By 2030, the region's energy demand is expected to increase by 50 per cent, while the share of fossil fuel consumption is expected to remain as high as 82 per cent
- Economic vulnerability to volatile energy prices will compromise the efforts of countries to sustain their economic growth
- The least developed countries, landlocked developing countries, small island developing States and other fossil fuel-importing countries are most vulnerable



Climate Change



- Rising temperatures are causing sea levels to rise; increased frequency
 of extreme weather events such are storms and cyclones are resulting in
 frequent floods and land erosion
- Other visible effects include water shortages, reduced agricultural productivity, forest fires and increased prevalence of diseases
- All are likely to have devastating effects, particularly on the poor
- For many of our Pacific Island States, it is a question of their survival or extinction
- The proportion of Asia-Pacific's energy-related CO2 emissions to the total world emissions is expected to increase to 55 per cent in 2030 from 45 per cent in 2005.
- The region is home to 7 out of the 15 major global greenhouse gas emitting countries
- This region also suffers from the largest number of human casualties from natural disasters in the world. In fact, it accounted for 80 per cent of disaster related global casualties in the last decade

Green Growth and Low-carbon development



Needs for Climate Action by all countries

- Challenge to Humanity in Increasingly Globalizing Society
- More Threats to Poor and Marginalised
- Immediate Action for Mitigating Impacts/ Adaptation Necessary
- Long-term GHG Emission Reduction to avoid Further Intensifying Impacts

Challenges

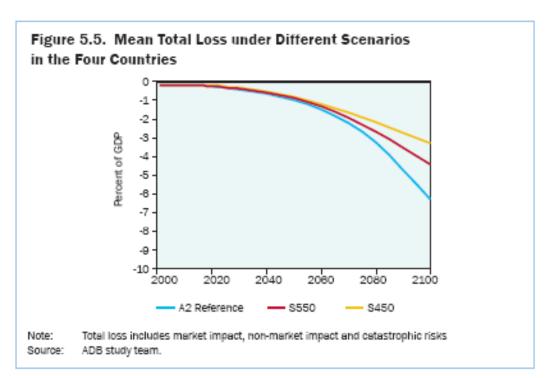
- Needs Sustaining Economic Growth
 - → Making Climate Actions compatible with Sustained Economic Growth
- Competition with a number of other Socio-economic priorities
 - → Needs a Holistic win-win Approach ("Co-Benefits")
- Limited Financial /Human / Technological Resources
 - → Needs a Resource Efficient Approach

The Answer is Green Growth - Low Carbon Development

... or Low Carbon - Green Growth

Low Carbon Development to Prevent Economic Loss





- By anticipated impacts of climate change in SE Asia, economic loss up to 6.7% of GDP each year by 2100
- Undermine the progress in achieving MDGs and beyond
- GDP loss will lessen to 3.4 % if action taken to follow 450ppm scenario (2 degree increase).
- Global study shows less than 1%of GDP Mitigation cost required to limit to 2 degree increase.
- Adaptation will bring benefit
 1.9% of GDP by cost 0.2% of GDP

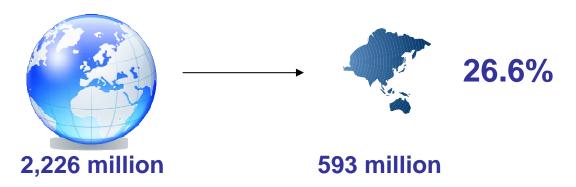
Importance of transport sector

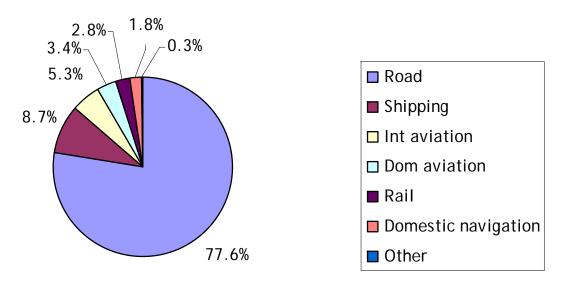


ENERGY CONSUMTION of Transport Sector

(Tons of oil equivalent)

CO ₂ EMISSIONS (million tons, 2005)		
Europe	1,038.4	
North America	1,973.6	
ESCAP	1,505.4	
- Road	1223.9	
- Rail	64.3	





Source: ESCAP - Statistical Yearbooks 2008

ESCAP initiatives: Trans-Asian Railway Network



- 81,000 km, 28 countries
- Missing links
- Intergovernmental Agreement on the Trans-Asian Railway Network
 - Adopted by the 62nd UNESCAP Commission (April 2006, Jakarta)
 - Signing ceremony during the Ministerial Conference on Transport (6-11 November 2006, Busan)

Entered into force in June 2009

POTENTIAL TAR LINK TO BE CONSIDERED

FERRY CROSSING





ESCAP Initiatives: Sustainable infrastructure

- Kitakyushu Initiative for a Clean
 Environment (ESCAP-IGES-Kitakyushu) (2000 2010)
- Eco-efficient and Sustainable Urban
 Infrastructure Development in Asia and Latin
 America (ESCAP-ECLAC-UNHABITAT) (2008 2010)
- Asia-Pacific Mayors; Forum on Environmentally Sustainable Urban Infrastructure (ESCAP-Ulsan City) (2008 -) 2nd Forum: 27-29 Oct 2009











Regional Implementation Meeting for CSD 18-19	Bangkok, Thailand
(transport included as focus theme)	29 Nov - 1 Dec 2009
1 st Committee on Environment and	Bangkok, Thailand
Development	2-4 Dec 2009
Forum of Asian Ministers of Transport	Bangkok, Thailand
	14-18 Dec 2009
66 th Commission Session	Incheon, ROK
(Focus on Green Growth and MDGs)	May 2010
6 th Ministerial Conference on Environment and	Astana, Kazakhstan
Development in Asia and the Pacific	Sep 2010



Thank you for your attention

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SINGG	http://www.singg.org
Kitakyushu Initiative	http://kitakyushu.iges.or.jp/
Sustainable Infrastructure	Coming soon http://www.unescap.org/esd/environment/infra/index.asp