

Greening India's National Accounts

South Asian Network for Development and Environmental Economics



Economic Development in India

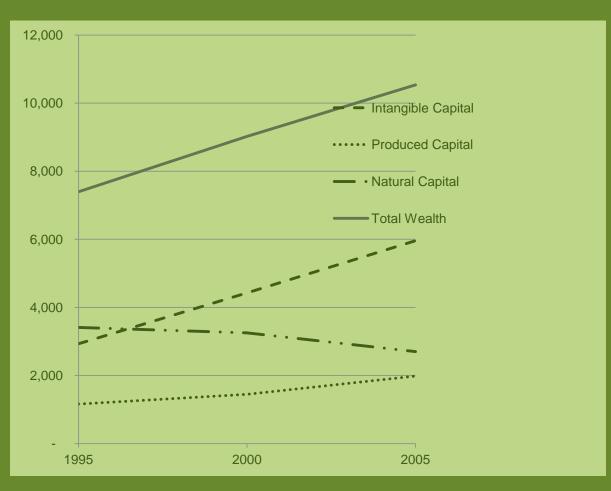
ECONOMICS & THE ENVIRONMENT

 GDP: \$3.92 trillion – 4th largest economy (2010 in PPP terms)

 2000–01 to 2007–08: Real GDP growth averaged 7.3 per cent per annum

Is India's growth sustainable?

Wealth per capita (USD 2005), India (World Bank)



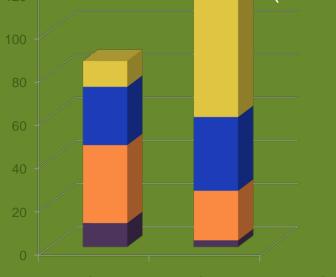
- Limited data -only 3 data points
- Wealth per capita is growing in India

 this is good
- Growth in physical and intangible wealth per capita is at the cost of a decline in natural capital – this is not so good







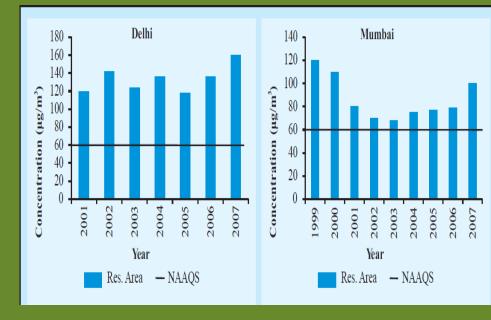












Urbanization trends



Congestion (Journey Speed) in Indian cities

- 28% of the population is urban (2001 census)
- 87 big cities expected to grow by 66% by 2031
- Between 1995-2005 – B'lore and Chennai increased vehicles by 50%

Air Pollution has Welfare Impacts

Study	Year	Morbidity	Annual	Annual
		(M) or Pre-	costs per	aggregate
		mature	Capita	savings from
		Mortality	(USD)	reductions to
		(PM)		safe
				standards
				(USD)
Murty et al.	2002	M +PM	89	1,142 mill
(Delhi)				
Murty et al.		M + PM	54	772 mil
(Kolkata)				
Gupta	2008	M	3	5 million
(Kanpur)				
Chowdhury	2010	M	4	34 mill
and Imran				
(Dhaka)				

- Contributes
 to pre-mature
 mortality and
 morbidity
- Aggregate costs across cities can be substantial

Greening National Accounts India



- Championed by the Minister of Environment
- Operationalized under the Ministry of Planning and Implementation (Central Statistical Org)
- Expert Committee Terms of Reference
 - To develop a framework for 'Green National Accounts' for India
 - To identify data requirements and gaps
 - To develop a roadmap for implementation

Expert Group for Green National Accounting, India



- Partha Dasgupta, Prof Emer, Cambridge University
- T.C. Ananth, Chief Statistician,
- Pronob Sen, Principal Advisor, Planning Comm
- Kaushik Basu, Chief Econ Advisor, MoF
- Nitin Desai, formerly USG, United nations
- Vijay Kelkar, Chair, National Stock Exchange
- Kirit Parikh, former member, Plng Comm
- Kanchan Chopra, Ex-Director, IEG
- Sunderam, Prof, DSE
- Somanathan, Prof, ISI
- Gundimenda, Assoc Prof, IIT Mumbai
- Ramesh Kolli, Add DG, Central Statistical Org
- Shyamsundar, SANDEE

- Co-Chairs: Strong international expertise combined with Government support
- Senior Gol officials
- Civil Society/Private sector
- Academics

SANDEE

Expert Group for Green National Accounting, India

- Changes in wealth as main measure of sustainability (Conceptual phase/Interim report completed)
- Focus on
 - Forests
 - Land degradation
 - Ground water
 - Mineral resources
- Data available for estimation of physical changes in stocks
 - Comparative data limited
 - Identification and Aggregation issues
 - Valuation second phase
- Reconciliation with income and capital accounts satellite accounts