



A Decade of Action in Transport

An Evaluation of World Bank Assistance to the Transport Sector, 1995-2005

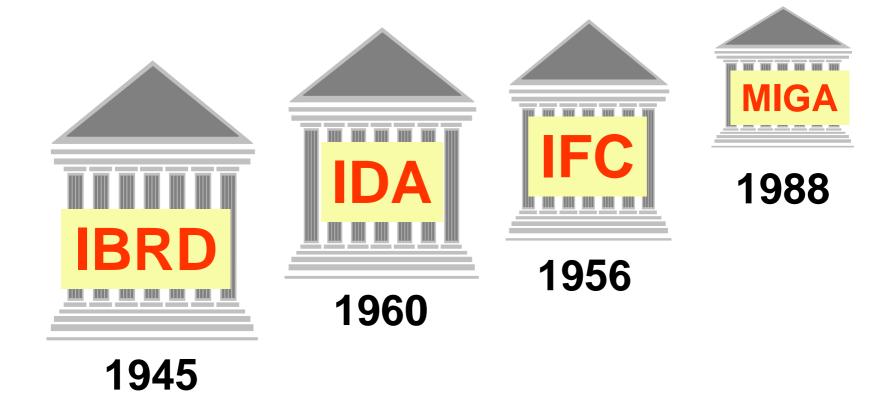
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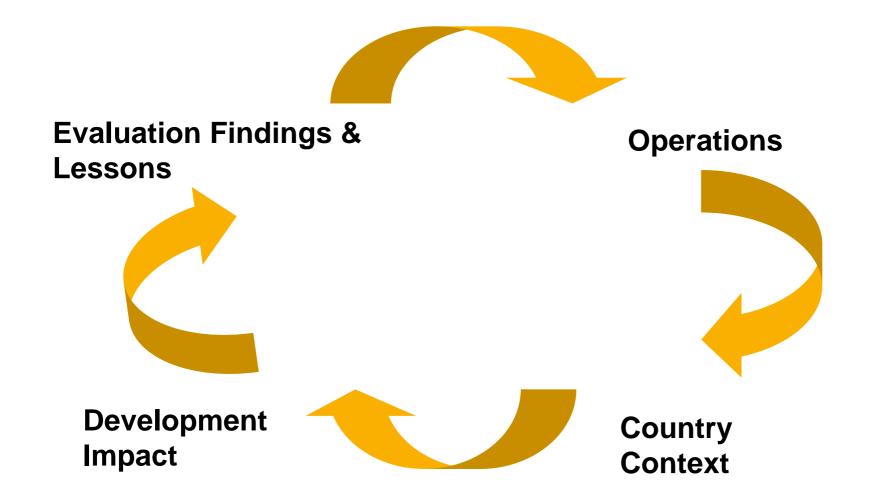
The World Bank Group....



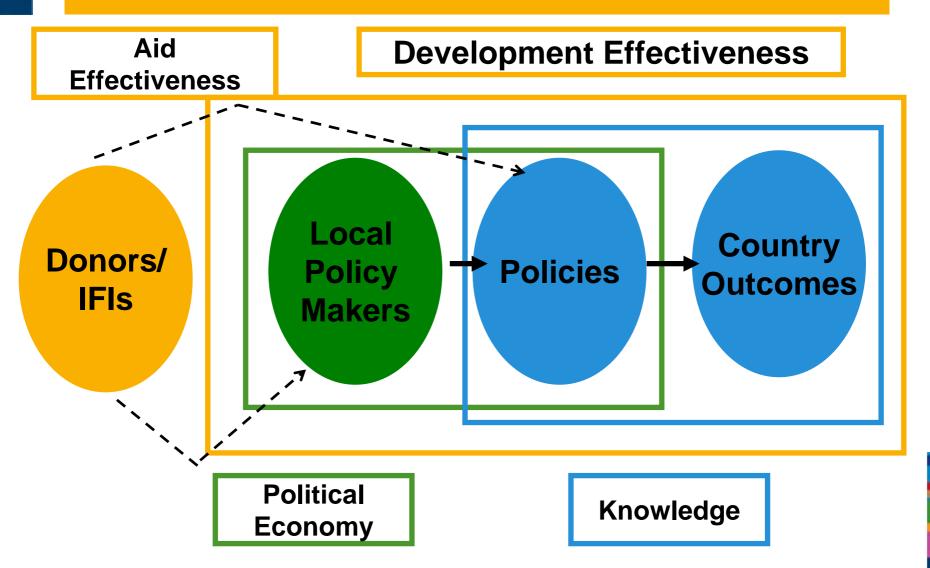
IEG Mandate

- > Seeks to influence development directions through independent evaluative findings
- Provides topical and strategic evaluations to the Board in support of its role in ensuring the WBG's effectiveness and accountability
- Uniquely placed to capitalize on the synergies across WB, IFC, MIGA

Evaluation for Better Results

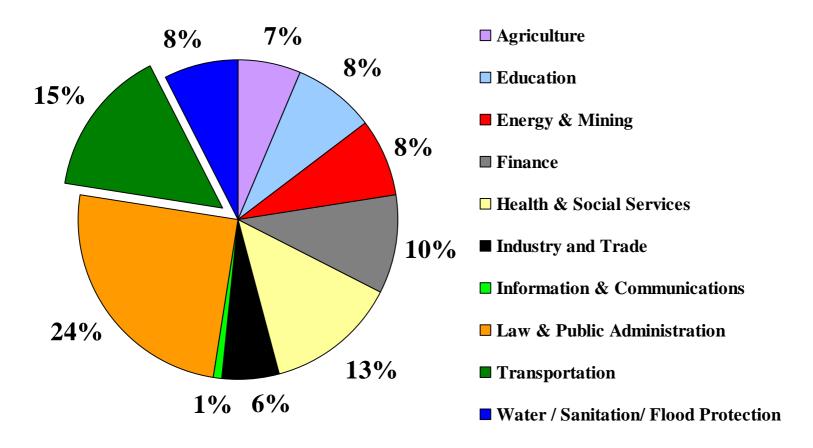


...that Depend on Country Policies



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Annual Average Bank Lending by Major Sector FY00 to FY05



Total Bank Commitment = US\$ 112,532 million Total Number of Bank Projects = 1,436

Bank Group Support for Transport

- Bank's Commitment for transport:
 - → IBRD/IDA commitments over US\$30 billion (10 years)
 - → IFC commitments US\$2 billion and capital value US\$15 billion (15 years)
 - → MIGA Guarantees US\$0.3 billion (5years)
- Bank's past performance has in general been well managed and effective with outcome ratings above average
- It has focused on road rehabilitation and construction (nearly 80% of its business)
- Recent trend to more trade-related, aviation and urban projects

Study Objectives

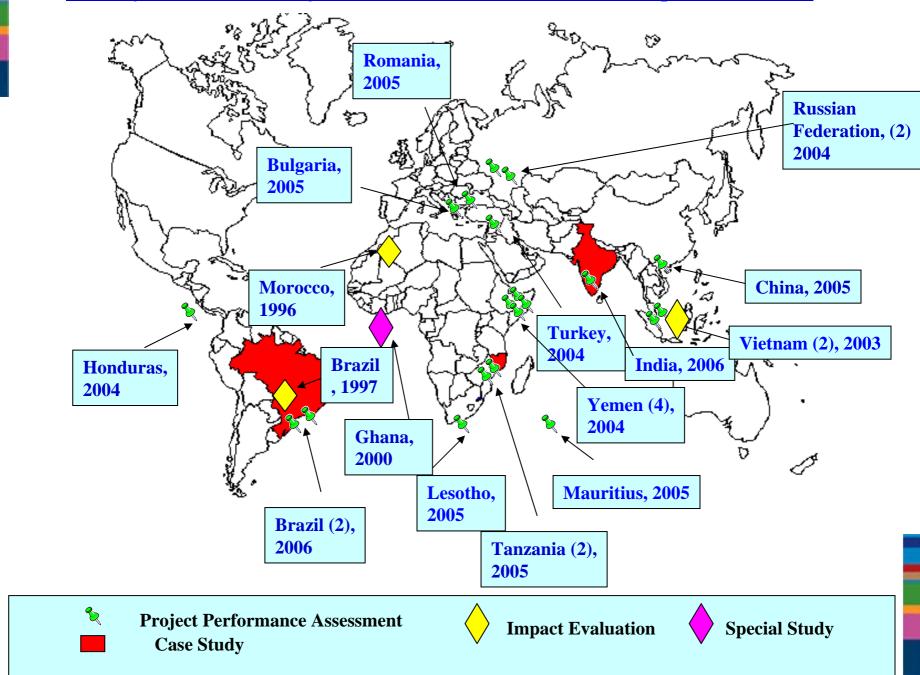
To evaluate:

- First, the extent to which the Bank has encouraged the private sector in transport in developing countries.
- Second, the degree of <u>sustainability</u> of transport investments supported. How well have they been maintained?
- Third, the extent to which transport assistance has supported poverty alleviation.
- Fourth, an assessment of the Bank's readiness to respond to emerging global transport challenges.

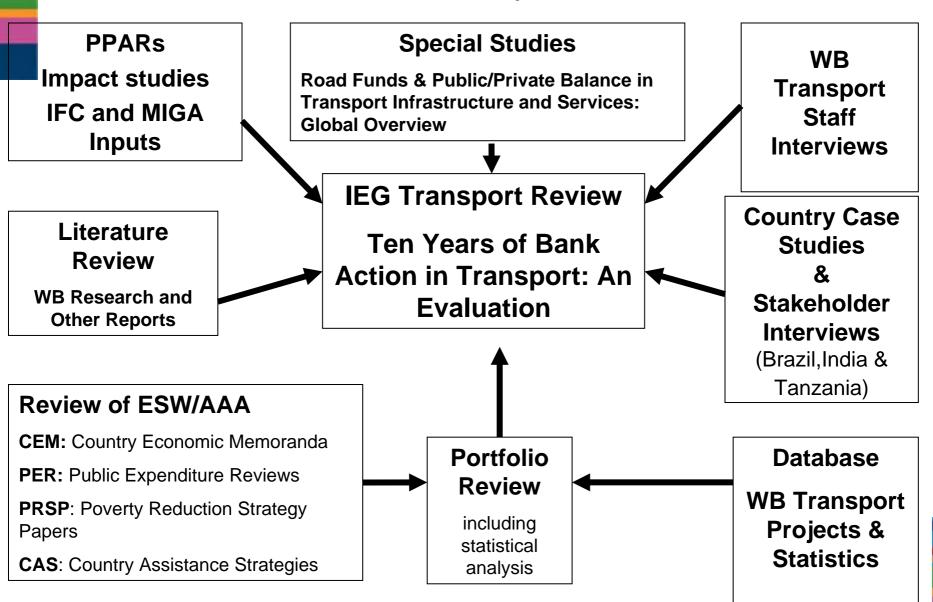
The Evaluation

- Customized database:
 - 642 projects
 - 74 detailed project performance assessments
 - 59 country assistance evaluations
- Hundreds of other documents (project appraisal and completion reports, Country Assistance Strategies, sector reports, etc.)
- Three case studies/stakeholder surveys were undertaken and a staff survey was conducted
- Evaluation uses the IEG objectives-based methodology.
 Performance is measured by progress towards defined objectives

Country Case Studies, Project Performance Assessments, and Impact Evaluations



IEG TRANSPORT REVIEW: Inputs to the Evaluation



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IBRD/IDA: Commitments for Transport (US\$ billion): Share of Top 5 and 10 Countries FY95-00 and Y01-06

Country	Commitments for FY1995-2000	Share of Total (%)	Country	Commitments for FY2001-2006	Share of Total (%)
China	4.2	24	India	4.2	25
Brazil	1.7	9	China	2.3	14
India	1.3	7	Brazil	1.1	7
Russian Federation	1.2	6	Indonesia	0.6	5
Argentina	1.1	6	Argentina	0.5	3
Indonesia	0.6	3	Vietnam	0.5	3
Mexico	0.6	3	Mexico	0.4	3
Bangladesh	0.5	3	Colombia	0.4	2
Vietnam	0.4	2	Congo, Democrat	0.3	2
Poland	0.4	2	Egypt, Arab Rep	0.3	2
Total (All other Countries)	5.9	33	Total (All other Countries)	6.2	34
TOTAL	17.9	100	TOTAL	16.8	100
Share of Top 5 countries		54			54
Share of Top 10 Countries		67			66

Source: World Bank Data

IEG Ratings of Overall Project Outcome, Institutional Development and Sustainability by Exit Year FY92-06 (Transport Sector Board projects versus all other Sector Boards)

IEG Rating	Board		FY 92-94	FY 95-97	FY 98-00	FY 01-03	FY 04-06
Outcome: Moderately Satisfactory or better (%)	Transport	All projects	69	78	84	86	89
		Excluding large borrowers*	71	70	82	74	88
	All other		64	67	68	72	79
Institutional Development: Substantial or better (%)	Transport	All projects	25	37	63	68	57
		Excluding large borrowers*	27	33	57	66	50
	All other		30	32	37	45	57
Sustainability**: Likely or better (%)	Transport	All projects	46	55	70	74	78
		Excluding large borrowers*	47	43	66	71	71
	All other		44	47	54	64	71

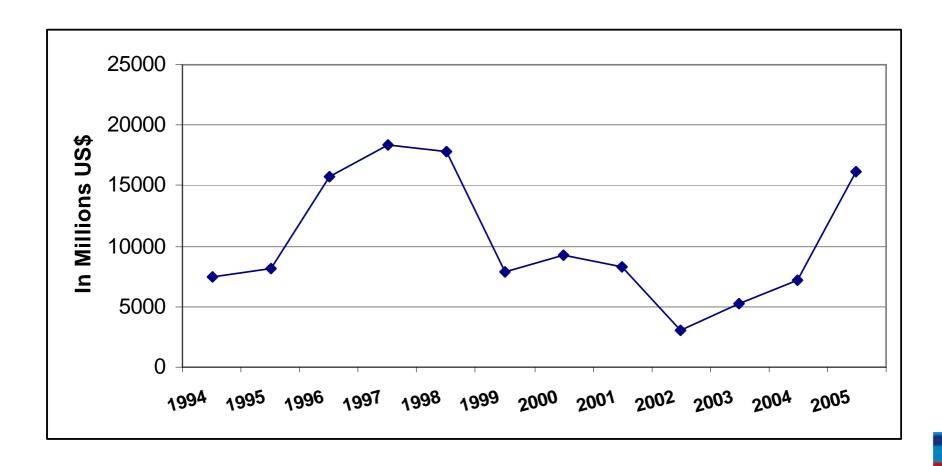
Source: World Bank data. See also figures in Appendix A2.

Notes: *Argentina, Brazil, China, and India. **Resilience to risks of future net benefit flows.

Findings: Private Sector Development

- 1. Greater involvement of the private sector usually leads to <u>improved performance</u> and <u>better service</u>.
- 2. This includes <u>public private partnerships</u> (toll roads, ports, railways and airports) mostly in middle income countries. But the impact of just one PPP project in a low income country can be very significant (e.g. Mozambique).
- 3. Public sector restructuring (corporatization) can also be successful, provided it is accompanied by a package of business-related reforms.
- 4. There must be <u>sufficient local capacity</u> to engage with the private sector and a <u>supportive regulatory framework</u>.
- 5. The Bank's major contribution during the decade has been to encourage the private sector in road construction and maintenance management and especially <u>performance-based</u> contract maintenance.

Private Sector Investment in the Transport Sector in Developing Countries Declined in the Late 1990s, but is Now Recovering Strongly



Source: World Bank Data

Findings: Road Maintenance and Institutional Development

- The Bank has generally supported maintenance funding through user charges, but funds are often insufficient.
- Maintenance of roads is improving especially where road funds, agencies, and boards are functioning properly, but in many countries problems still persist.
- Institutional development performance is mixed better in middle income countries, worst in fragile states.
- Performance-based road works are successful in countries with a mature contracting industry and a supporting legal framework.
- Maintenance activities can provide work for small enterprises and are often labor intensive.

Routine Maintenance by Female Workers - Vietnam



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Analysis of Performance by Institutional Development Objectives, Transport Sector Board Projects, FY 95-06

Subobjective	No. of objectives rated by IEG	No. of objectives rated moderately satisfactory or better	Rated moderately satisfactory or better (%)
Management capacity building	64	39	61
Environmental management	22	14	64
Monitoring and evaluation	8	3	38
Maintenance	47	25	53
Training	21	11	52
Planning	18	14	78
Technical issues	20	17	85
Studies & safety	19	13	68
Restructuring, decentralization & regulation	32	20	63
All institutional development	251	156	62

Source: World Bank Data

Findings: Transport and Rural Poverty

- Rural poverty can be alleviated when transport improves accessibility.
- For every \$22,000 invested in rural roads, 163 people escape poverty (Indian Study).
- Over 50% of rural inhabitants live more than 8km from a clinic. One-third are more than a 2 km walk from an allseason road.
- But the distributive impact of transport projects is underresearched; more impact studies are necessary. Most evidence is still anecdotal.
- Where there is low institutional capacity, staff often underestimate the time needed to make reforms, build capacity, and build institutions.

Transport and Urban Poverty

- Urban growth predictions are spectacular:
 - > 358 cities with over a million people by 2015
 - Already more than half of the world population is urbanized
 - ➤ 600 million people will move from rural areas to cities in the next 10 years

Transport and Poverty (Urban)

- Urban growth predictions are spectacular
 - ➤ 2.9 billion by 2015 and 358 cities with over a million people
- The Bank's emphasis in urban transport has focused on the integration of services, appropriate subsidies, improving accessibility and supporting decentralization. Affordability remains a problem.
- Considering the rate of urban growth, the Bank invests too little in urban transport.
- Urban projects need more preparation and are more complex.

Traffic Congestion, Delhi



Distribution of Urban Projects and Components Closed and Active Projects (1995-2005)

	1995-2000	2001-2006	1995-2006
Total Number of Urban Projects	41	37	78
Components	78	77	155
Urban Roads	27	24	51
Traffic Management & Safety	10	9	19
Institutional, Regulatory & Planning	12	19	31
Nonmotorized Transport, Urban Poor	7	7	14
Urban Environment, Air Quality	3	3	6
Public Transport	19	15	34

Source: World Bank Data

Vehicle Emissions

- Road transport is responsible for nearly a quarter of man-made gases
- 650,000 people in developing countries die prematurely from urban air pollution
- Indian and Chinese car growth is spectacular
- Tata Motors will shortly release a US\$2,500 car
- More air quality improvement projects needed
- More use of new global programs

Road Accidents

- Fatalities 1.2 million annually (over 3,000/day)
- Injuries 50 million annually
- 85% deaths and 90% injuries are in developing countries (up to 2% of their GDP)
- By 2020 road accidents will be the third biggest cause of death
- In Kenya 75% of road traffic casualties are young adults
- In Asian and African cities 60% of travelers are pedestrians and cyclists
- The Bank can play a much bigger role in helping resolve these challenges.

Identifying Sites With Safety Problems



The Way Forward

- Ensure the focus of the Bank's transport operations goes beyond highways and gives more attention to:
 - 1. environmental damages
 - 2. energy efficiency and climate change
 - 3. traffic congestion
 - 4. safety
 - 5. affordability
 - 6. Trade
- An update of the transport sector strategy will be released shortly

Thank you for your attention.

Check out our website at http://www.worldbank.org/ieg/transport

