

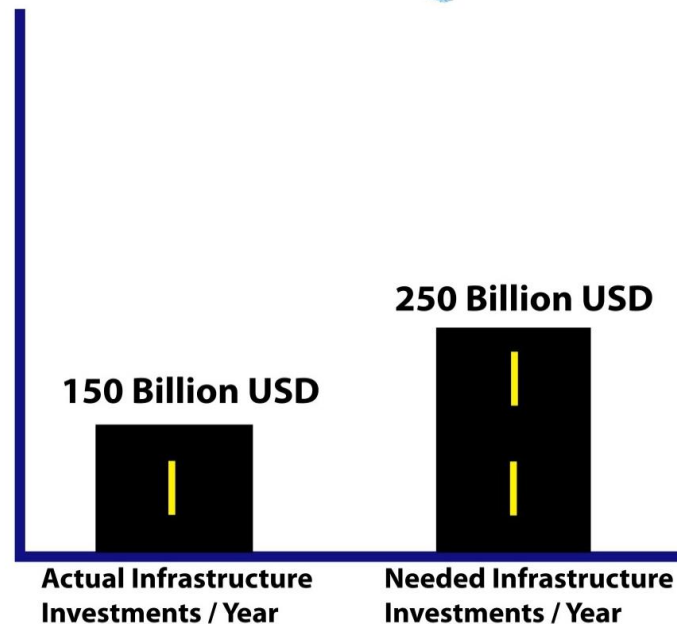
Integrating ecosystem services in IDB financed projects

Graham Watkins

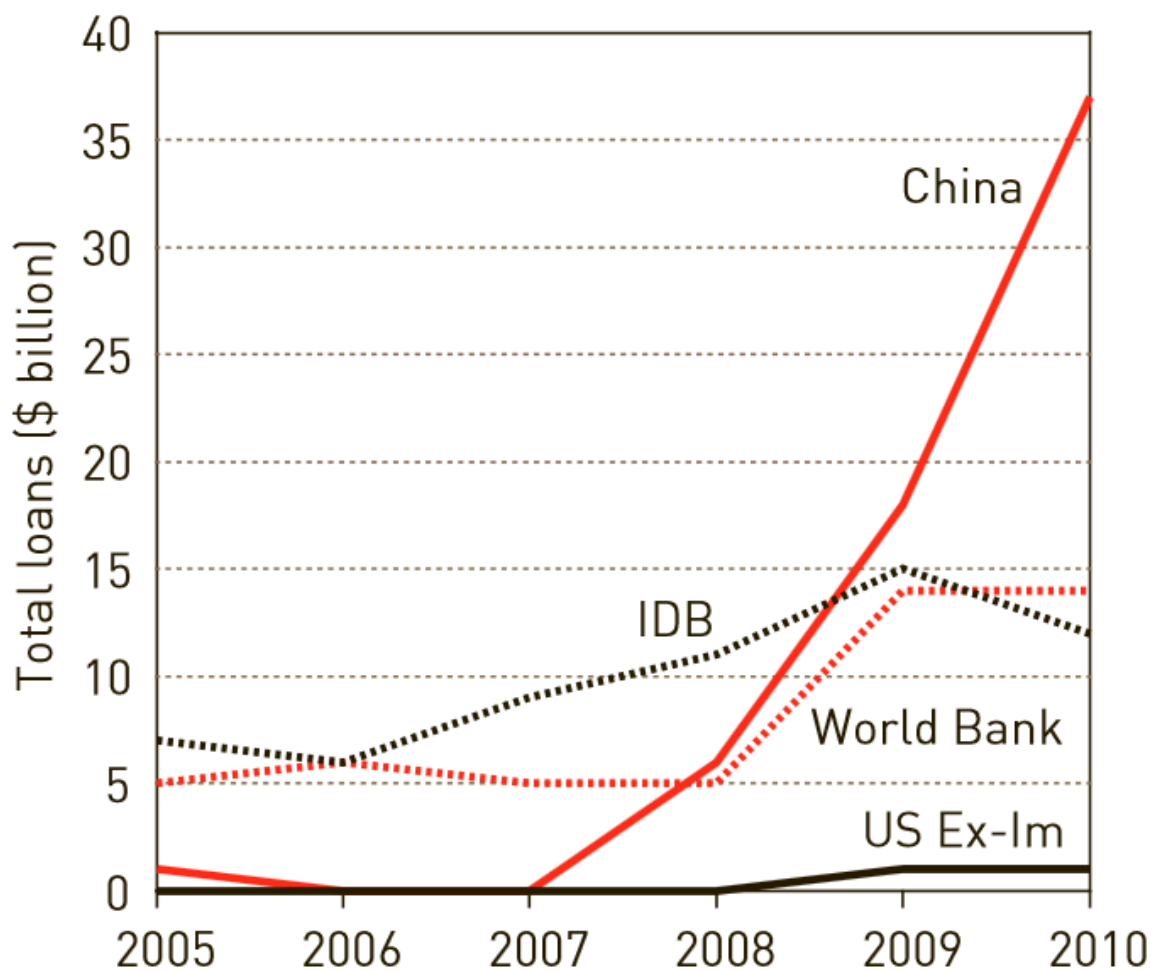
Lead Environmental Specialist

Inter-American Development Bank

Investment gap for infrastructure in Latin America and the Caribbean

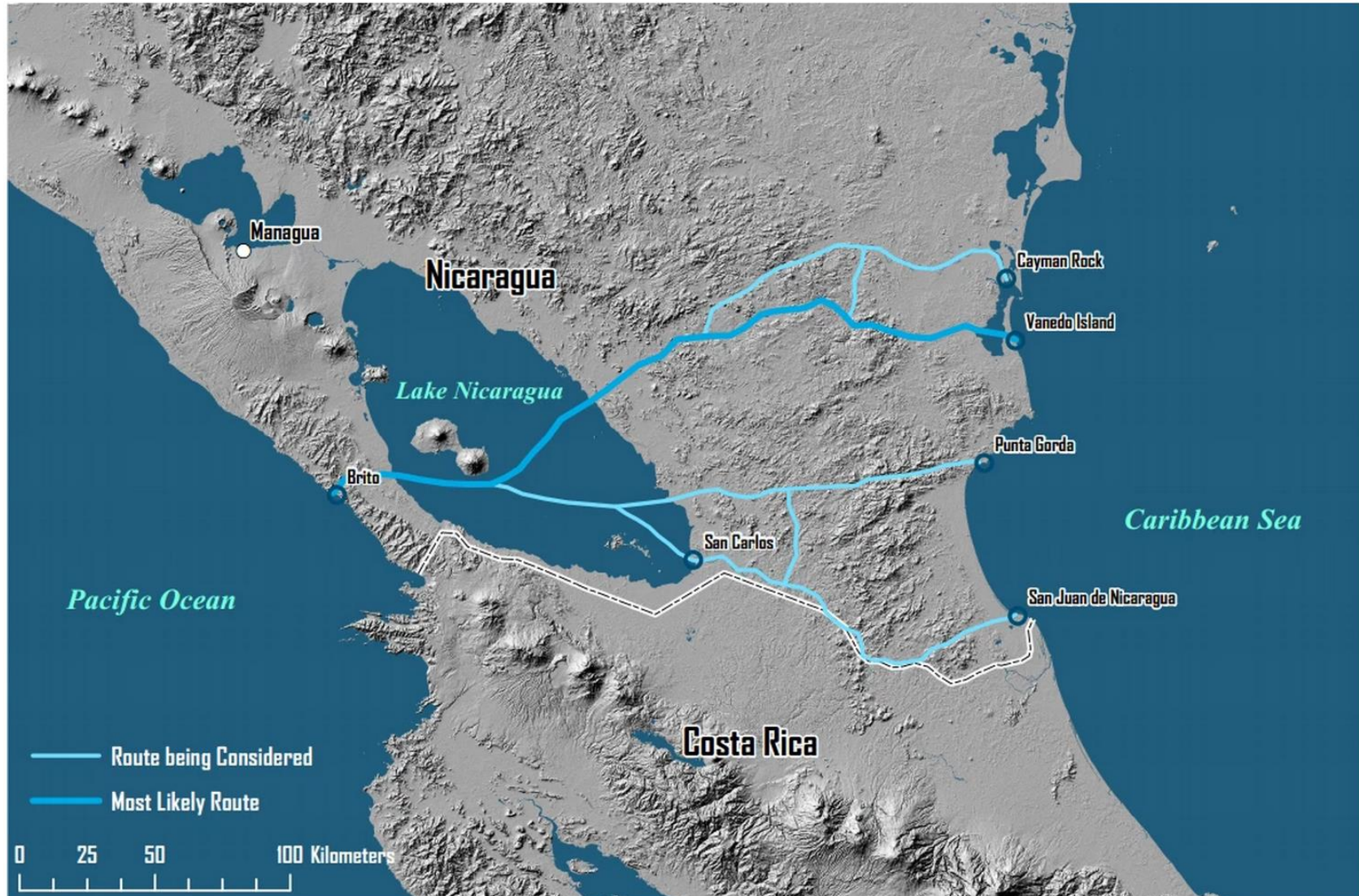


Comparison of Chinese and Western Bank Loans to Latin America



World Bank, IDB, US Ex-Im Sources: respective Annual Reports

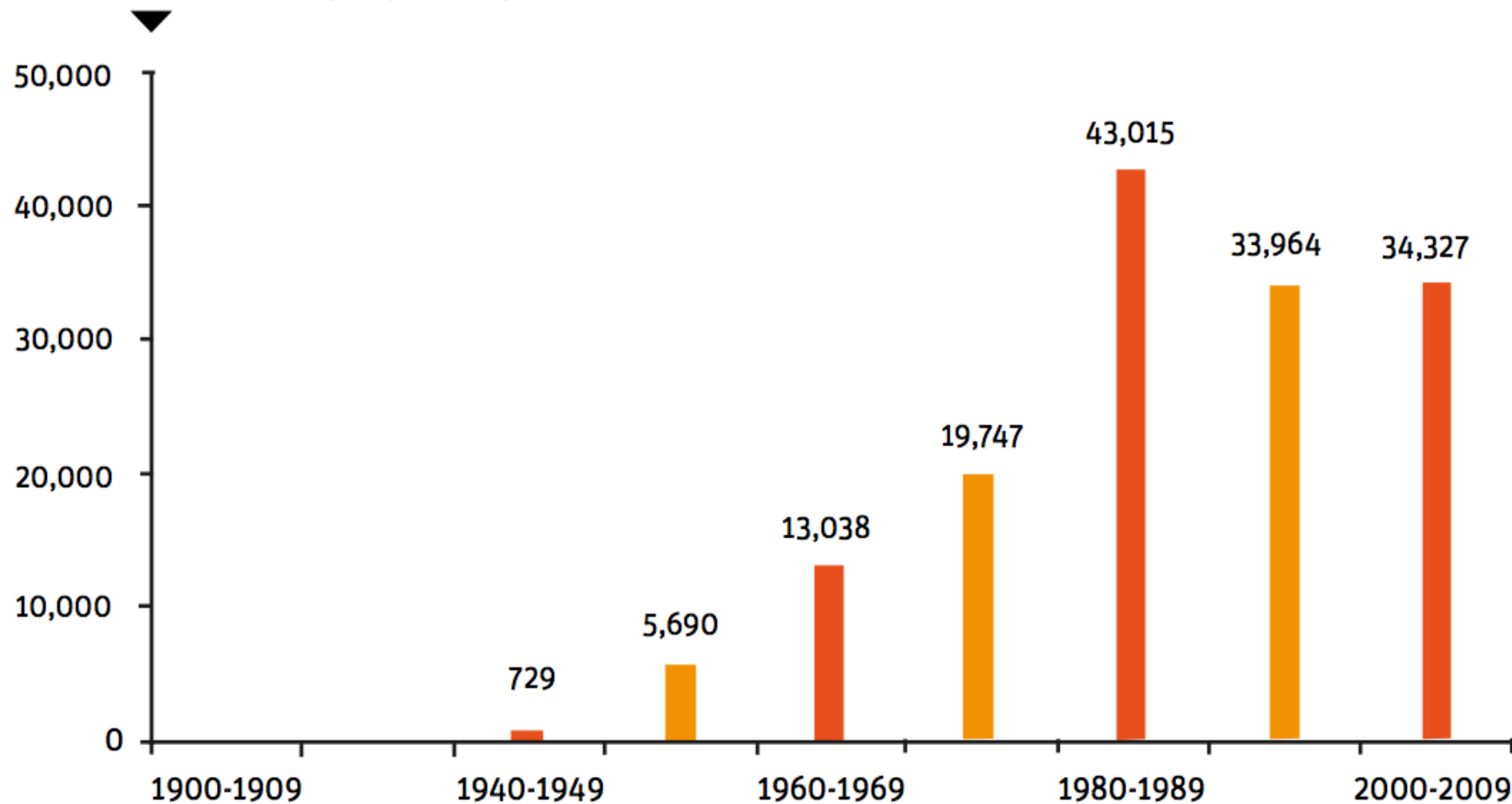
Chinese tycoon pushes for Nicaraguan canal to rival Panama's



Dr. Jean-Paul Rodrigue, Dept. of Global Studies & Geography, Hofstra University.

Distribution of economic damages from natural disasters, LAC (1900-2009)

Estimated cost, US\$ million, constant 2009 dollars



Source: EM-DAT, Bureau of Labor Statistics, and authors' calculations.

Project Delays

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Bloomberg News

Protest Over Brazil Hydro Drives Delay and Boosts Cost (Correct)

By Stephan Nielsen and Mario Sergio Lima | June 06, 2013



(Corrects role of Norte Energia in fifth paragraph and construction company in sixth in story published June 5.)

Protests by indigenous people in Brazil's Amazon region over hydroelectric projects are boosting costs for companies building dams including Odebrecht SA and Grupo Andrade Gutierrez SA, said Energy Minister Edison Lobao.

The developers "claim that the invasions raise the projects' costs, and in fact it does, and can even cause the stoppage of works," Lobao told reporters in Brasilia today.

STORY: [Patagonia Dreaming: Kris Tompkins Works to Build the Best National Park](#)

Indigenous groups say the plants threaten the local environment. The conflict between developers and local tribes will become more pressing with about 10 new hydro projects planned in the Amazon region with more than 10,000 megawatts of capacity over the next decade, according to Erik Eduardo Rego, director of the energy consulting company Excelencia Energia.

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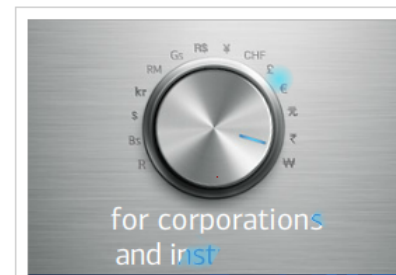
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"Protests by indigenous people in Brazil's Amazon region over hydroelectric projects are boosting costs for companies building dams including Odebrecht SA and Grupo Andrade Gutierrez SA, said Energy Minister Edison Lobao."

Government

Sector, regional,
and urban plans

Strategic and
regional impact
assessments

Regional and
national data
collection and
management

ESIA process,
review and
supervision

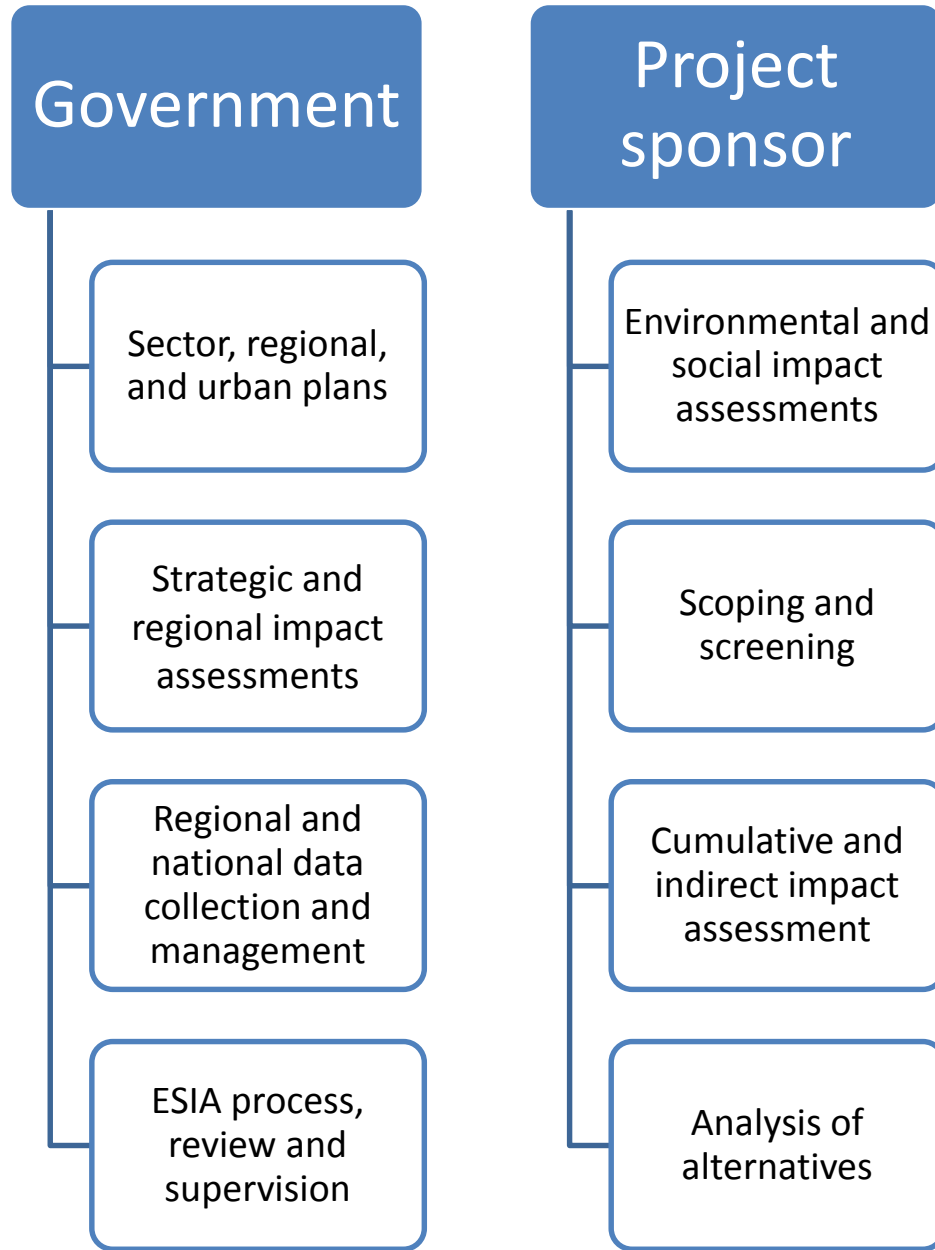
Project sponsor

Environmental and
social impact
assessments

Scoping and
screening

Cumulative and
indirect impact
assessment

Analysis of
alternatives



Government

Sector, regional,
and urban
planning weak

Strategic and
regional impact
assessments rare

National and
regional level
spatial databases
weak

Review,
supervision, and
enforcement
capacities weak

Project sponsor

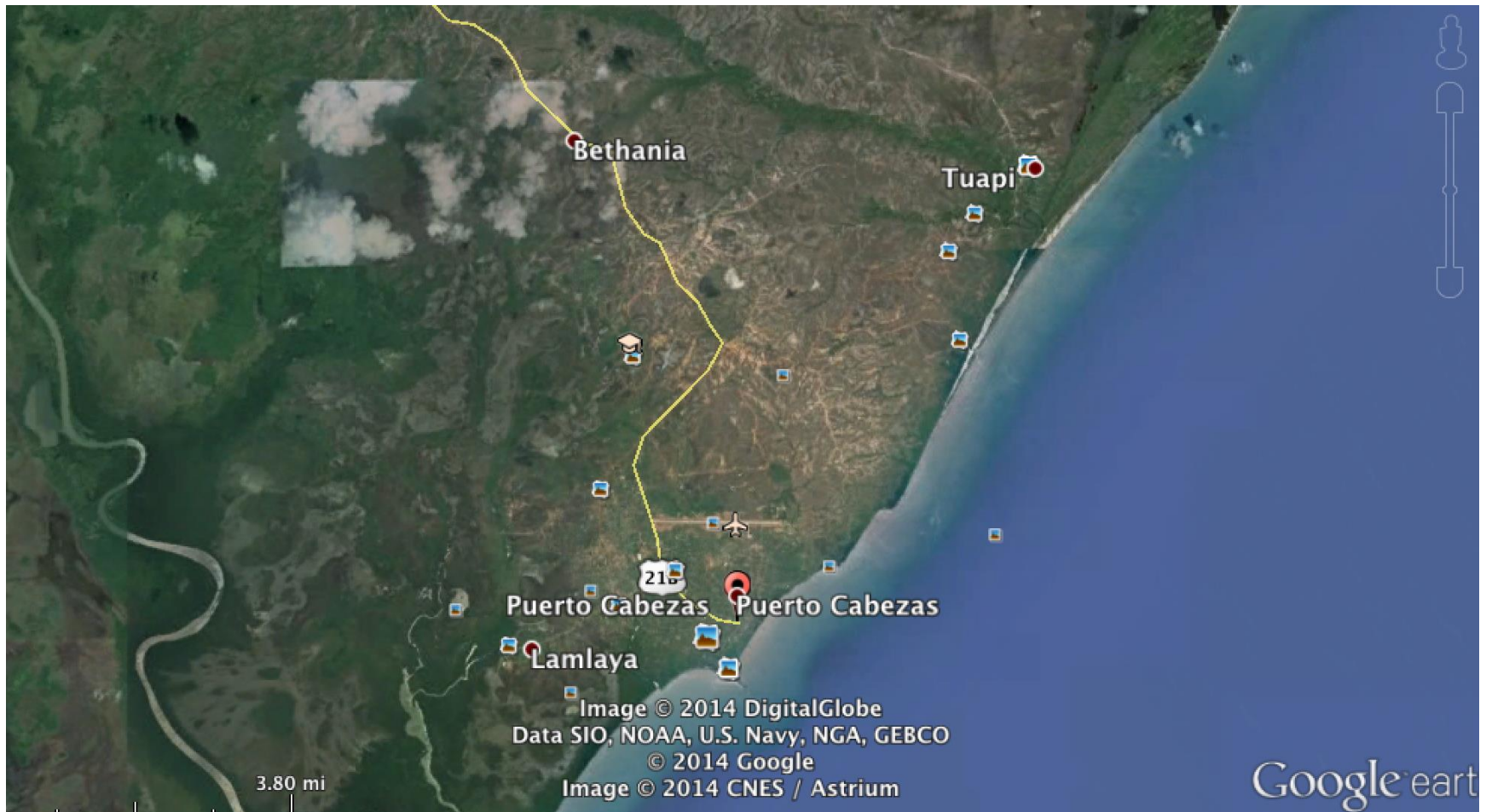
ESIAs are
bureaucratic
rather than for
decision making

Lack of scoping,
shorter time
periods, with little
consultation

Cumulative and
indirect impact
assessment often
not addressed

Analysis of
alternatives
limited to minor
design changes

Drinking Water, Bilwi, Nicaragua



Ecosystem services analysis

- Qualitatively as part of special scoping
- Modified connectivity for migratory species
- Modified sedimentation patterns
- Modified water quality
- Modified water flow regime
- Three alternatives compared
- ESIA TORs prepared based on scoping
- Led to reconsideration of viable alternatives
- Avoided dam and reservoir creation in a protected area

Georgetown Lethem Road, Guyana



Ecosystem services analysis

- Part of a year-long additional biodiversity impact assessment
- Modification of fisheries, wildlife, and gathering activities
- Modification of freshwater flows and water quality
- Modification of erosion controls
- Modification of carbon storage functions
- Insufficient available data for effective analysis
- Services incorporated in cost-benefit analysis affecting project viability
- Stakeholder engagement more complete in indigenous peoples plan
- Mitigation measures already contemplated
- Many of the issues already contemplated in indigenous peoples plan

Initial Conclusions

- ES analysis for sector, regional, and urban plans and in national and regional databases
- ES analysis role in scoping to engage stakeholders through qualitative assessment for prioritization
- ES analysis detail is constrained by data and time available for ESIAs
- Given challenges in ESIAs in LAC, unclear broader “value added” of ES analysis against:
 - Enhanced stakeholder engagement
 - Focused data gathering for management
 - Indirect and cumulative impact assessment
- Potential role in improving cost benefit analyses through incorporating externalities