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Infrastructure Development: Getting it Right in Myanmar

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History of PPP in Canada

- First introduced in Canada in mid to late 90s, however, really
 - gained momentum in 2004/2005
 - Currently we are seeing 10-15 deals procured each year
 - Entities actively procuring PPP solutions include:
 - British Columbia
 - o Alberta
 - o Manitoba
 - Ontario
 - o Québec
 - New Brunswick
 - o Federal
 - o Various municipalities
- Broad cross-country support





Notable Recent Canadian Transactions

A total of ~ \$50bn Canadian PPP Projects have been awarded to 2012

Ontario (~\$23bn)	British Columbia (~\$10bn)	Quebec (~\$7bn)	Alberta (~\$5bn)
 Air Rail Spur Link Billy Bishop TCA Tunnel Highway 407 East - Phase 2 Ottawa LRT Pan-Am Games Projects Humber River Regional Hospital Halton Healthcare Services Windsor Essex Parkway St. Joseph's Healthcare Hamilton Centre for Addiction and Mental Health (CAMH) Toronto South Detention Centre Bridgepoint Hospital Niagara Health System North Bay Health Centre Durham Courthouse New Data Centre 	 Interior Health and Surgical Centre Project KGH Clinical Support Building Evergreen Line Singe Room Occupancy Renewal Initiative South Fraser Perimeter Road Golden Ears Bridge Kelowna Vernon Hospital Sea to Sky Highway Royal Jubilee Hospital Fort St. John Hospital Surrey Memorial Hospital Manitoba (~\$0.3bn) Disareli Bridge Chief Peguis Trail 	 CHU Ste-Justine Lachine Rail Maintenance Facility Centre Hospitalier de l'Universite de Montreal (CHUM) McGill University Health Centre (MUHC) CHUM Research Centre Autoroute 30 Montreal Concert Hall Atlantic Canada (~\$2.1bn) NB Route 1 Gateway NB Trans-Canada Highway FM Highway Highway 104 Confederation Bridge 	 Alberta Schools II Alberta Schools III Alberta Schools III SE Stoney Trail NE Stoney Trail NW Anthony Henday Drive SE Anthony Henday Drive NE Anthony Henday Drive Evan-Thomas Water Treatment and Wastewater Treatment Facility Canada (Federal \$1.1bn) CSEC – LTAP (DND) RCMP Headquarters (Surrey)



Current Canadian Pipeline

Ontario	British Columbia	Quebec	Municipalities
 East Rail Maintenance Facility McMaster Children's Health Centre Providence Care Hospital Public Health Laboratory at MaRS Centre Sheppard East Maintenance and Storage Facility Peel Memorial Centre for Integrated Health and Wellness The Region of Waterloo's Rapid Transit System ErinoakKids Centre Highway 407 East - Phase 2 Joseph Brant Hospital Sheridan College St. Michael's Hospital Eglinton Crosstown LRT and Scarborough LRT Lines 	 BC Children's and BC Women's Redevelopment Project McLoughlin Wastewater Treatment Plant Project Emily Carr University Project John Hart Generating Station Kitsilano Secondary School North Island Hospitals Project Oak Bay High School Replacement Project Okanagan Correctional Centre Queen Charlotte/ Haida Gwaii Hospital Replacement Project Vernon Jubilee Hospital Other Iqualuit Airport 	 Aerotrain Hotel Dieu Hospital CHU Ste-Justine Quebec Detention Centres Turcot Interchange Saskatchewan Snow Storage and Decontamination Facility Regina Stadium Saskatchewan Data Centre Regina Water Treatment Alberta Edmonton LRT Lac La Biche Water and Wastewater Treatment 	 Barrie Transit Project Calgary Recreation Centres Sudbury Waste Managemen Calgary Waste to Energy St. John Water Canada (Federal) Pont Champlain Ottawa Heating & Cooling La Mason de Radio Canada Development Project Detroit River International Crossing Energy Services Acquisition Program



Process Integrity in Canada

- Published project schedule
- Market consultation
- Clear RFQ and RFP process
- Project Agreement commentary
- Design and Specifications commentary
- Publicly available materials



Private Debt Funding Sources for Projects

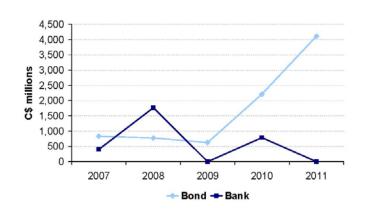
- 2 competitive sources of long term and short term senior debt for Canadian projects
 - Bonds
 - Broadly marketed bonds to the Canadian bond market via private placement (short term and long term)
 - Narrowly distributed bonds to the life insurance companies via private placement (primarily long term and <\$150-200 MM)
 - Bank debt
 - Canadian banks (primarily short term construction period financing)
 - Non-Canadian global PPP project finance banks (short term and mini perm financing)



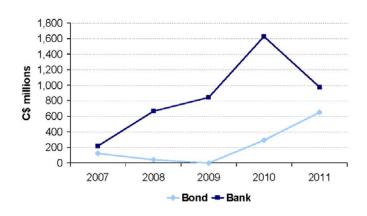
Debt Funding Sources for Canadian Projects

 There is the possibility for various hybrid transactions between the sources, often being tranched based on the optimal mix of long term vs. short term senior debt requirements

Long Term Canadian PPP Debt Financing



Short Term Canadian PPP Debt Financing



Canadian Public Infrastructure Bonds

- Canada's PPP bond market is robust, in contrast to other jurisdictions such as Europe
- Original bid date underwriting commitment typically provided by one or more of the capital markets subsidiaries of the large Canadian Schedule I.
- Number of Buyers for PPP Bonds
 - Early issues averaged ~15 buyers
 - Most recent issues averaging ~35+ buyers
- Ratings have ranged from the BBB+ to A range, with the majority of transactions falling around A-





Infrastructure Program Requirements

- I. Governmental Requirements
 - A. Legislative framework
 - B. Central agency leadership
 - C. Single procurement agency
 - D. Access to external expertise technical, legal, financial
 - E. Transparent, credible process
 - F. Planning requirements
 - G. Stakeholder engagement
 - H. Smart Planning
 - I. Creditworthy Support
 - J. Value for Money



Assessing Enabling Legislation

Criteria:

- Market credibility
- Clear lines of authority
- Transparent decision-making
- Adequate investment in institutions
- Clear planning direction
- Controls on spending authorizations
- Procurement process rules
- Clear regulatory powers



Infrastructure Program Requirements

- II. Marketplace Requirements
 - A. Competitive marketplace
 - B. Lender knowledge and experience
 - C. Equity Players
 - D. Local Talent
 - E. Regulatory Certainty



Infrastructure Program Requirements

III. Process Requirements

- A. Unsolicited Proposals
- B. Procurement Process and Competition
- C. Project or Concession Agreement Requirements
- D. Design and specification review process
- E. Financial commitment
- F. Ensuring Operational Oversight



When Infrastructure Programs Fail

- One-off forms can be risky for the public sector
- Insufficient long term capital
- Counterparty risk government or agency rating and reliability
- Inefficient and lengthy process
 - Unclear or changing criteria
- Inadequate risk transfer



When Infrastructure Programs Fail

- Asset class challenges
- Overly ambitious programs
- Legal process issues
- Prior public failures





Lessons Learned for Developing Countries

- A thorough needs analysis of infrastructure and basic services including all options.
- 2) A thorough feasibility study:
 - 1. Public vs. private sector provision on affordability, value for money and risk transfer
 - 2. Considers the rate of return on equity acceptable to both parties
 - 3. Accurate information
 - 4. Avoids unnecessarily high design specifications
 - 5. Considers all the financing options
 - 6. Involves all the necessary stakeholders
 - 7. Identifies the risks, allocates and devises risk mitigation strategies
 - 8. Requires treasury approvals at key stages



Lessons Learned for Developing Countries

- 3) Work out a multi-year budget framework to assess the affordability of projects for specific government institutions.
- 4) Address the issue of cost recovery and how infrastructure is to be financed.



Lessons Learned for Developing Countries

- 5) Encourage competition to drive innovation and bring down prices.
- 6) Build effective regulation
- 7) Provide political guarantees to investors where appropriate.
- 8) Develop capacity at the national, state/provincial and local levels.



Lessons Learned from Developing Countries

- 9) Ensure process integrity and legitimacy
- 10) Pre-empt public complaint and suspicion
- 11) Create flexible options for renegotiation and other challenges in a cost-effective way.
- 12) Tailor project to the individual communities to meet their specific needs and challenges.
- 13) Establish a process to channel unsolicited proposals into public competitive processes.





Political Uncertainty:

- Transparency and corruption a work in progress
- Military control holding the business reins
- Military control what happens in 2015?
- Ethnic unrest



Legal Uncertainty:

- Enhancing the rule of law
- Land ownership rights, registration, zoning, etc.
- Local law requirements
- Government approvals required for legal rights



Process Uncertainty:

- Untested approvals process
- Testing the ease of doing business
- Local content requirements
- Next steps on the reform agenda



Critical Infrastructure Instability:

- The challenge of logistics
- An unreliable and small electrical system
- Weak communications networks
- Poor transportation corridors
- Skilled Labour shortage



Getting to Financial Stability:

- The ramp up of the IFI's
- Weak local credit
- Foreign currency challenges
- A reliable project finance regime





Opportunities

- Strategic location in Asia.
- Rich endowment of natural resources natural gas, water, arable land, jade and gems.
- Large working age population.
- Strong investor interest.
- Recommitment from IFI's ADB, World Bank, IFC
- Reforms are proceeding





Energy

- Difficult to attract investors for rural areas due to the low purchasing capacity of the local population
- Poor infrastructure leads to higher upfront capital costs for private investors
- Many private investors are wary of these highcost investments in countries with unstable economies and politics

Water and Waste Water

- Difference between existing tariff levels and cost recovery levels can create political and implementation challenges
- Early clarity on expected scope of services is required: have delivery vs. neighborhood stand pipe
- 65 developing countries have tried water PPPs and 84% of awarded contracts are still active (2010)
- Concession, lease-affermages, management contracts or hybrid models have been successful depending upon:
 - Pre-existing tariff levels
 - Population concentration
 - Local expectations
 - Government support of capital investment



Natural Resources

- Volatility in the commodity market creates investor risk
- The history of excessive taxes and expropriation from governments is a concern for private investors
- High capital expenditure for a high risk business can create difficulty in attracting the right investor
- Poor infrastructure imposes high cost for accessing natural resource sites



Transportation

- Many transport projects, such as ports and toll roads, involve interaction with local communities. Public dissatisfaction with construction, labour opportunities from the project, fees for use of the service and disruption of their way of life can cause difficulties for PPP projects.
- Inherent exposure to the risk of market demand for the project upon completion creates uncertainty
- Concession periods following infrastructure completion often cause disputes between the public, the government and private investors



Agriculture

- Widespread mistrust between farmers and the public towards private investors in the biotechnology industry, particularly private sector seed companies, is a major challenge to agriculture PPP projects
- Low productivity, poor farming infrastructure, high harvest losses and lack of market access can make it difficult to attract private investors.



Telecom

- Significant opportunity through "leapfrogging" technology.
- The importance of competition. Among the low-income African countries, those with more competitive markets have rates of mobile penetration that are 31 percent higher than those with uncompetitive markets.
- Legislative frameworks and a strong regulatory process are crucial but difficult for developing countries.
- Sharing the opportunity in a predominantly rural country: are incentives available to provide services in rural areas that are not otherwise commercially viable.



Infrastructure

- Myanmar will need \$320 billion in infrastructure form now to 2030 – most in residential but also power, water treatment, road and rail – what are the funding sources?
- Massive residential infrastructure required for the coming urbanization.
- Ensuring local employment from foreign interest and investment





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