

## ■ Key Infrastructure Characteristics

- Real economic assets
- Essential services
- Capital intensive
- Long useful life (30-40 years)
- Stable cash flow from long-term contracts

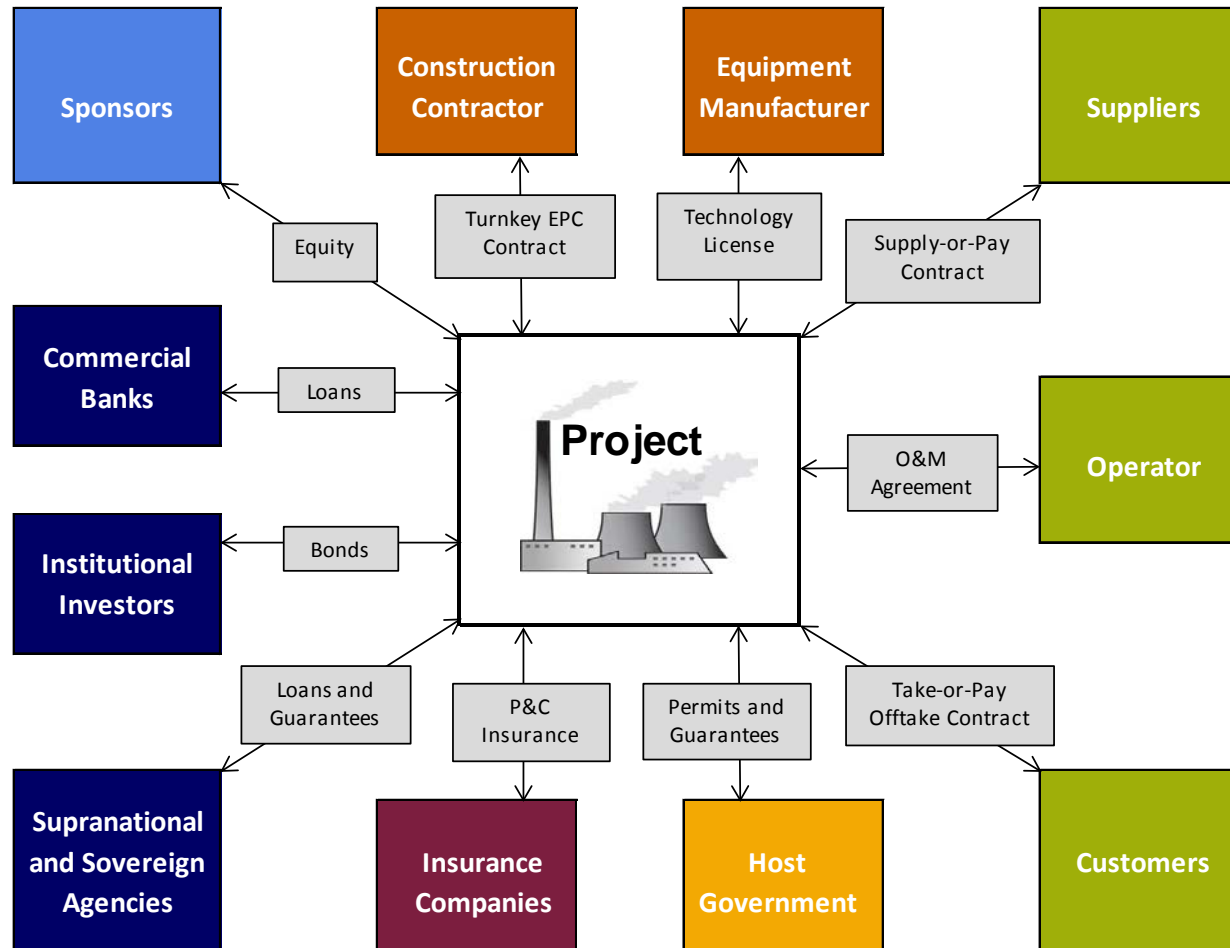
## ■ Project Finance Approach

- Secured asset-based lending
- Non-recourse, off-balance sheet financing through special purpose vehicle
- Tool of risk management: contracts/covenants used to manage/mitigate construction, operating, financial, regulatory and political/sovereign risks
- Highly-complex, document-intensive deals requiring sophisticated legal, tax, accounting, financial and engineering skills
- Average 70/30 mix of debt and equity

## ■ Asset Class Attributes

- Illiquid investment grade debt product
- Low default rates and correlations versus more liquid asset classes
- Attractive yield pick-up versus liquid public credit markets
- Means of credit and portfolio diversification
- Long-term asset/liability matching
- Inflation hedge

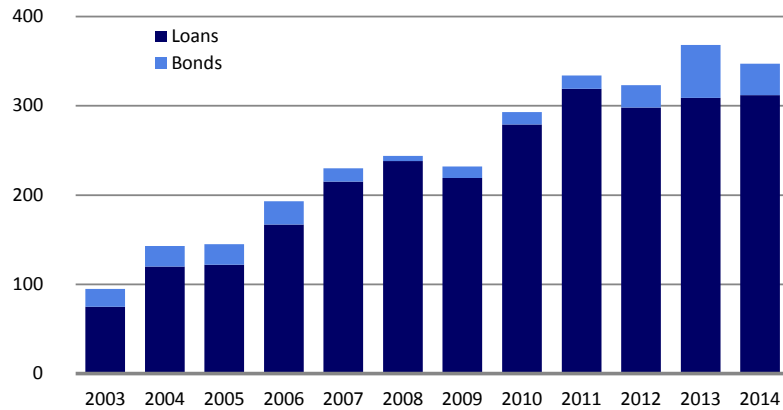
# Typical Project Finance Deal Structure



Source: Walter, Ingo, Paul Tice and Ilya Bozhenkov. "BlackRock's Infrastructure Debt Initiative: Addressing the Market Opportunity in Project Finance." New York University Leonard N. Stern School of Business, 2013. Print.

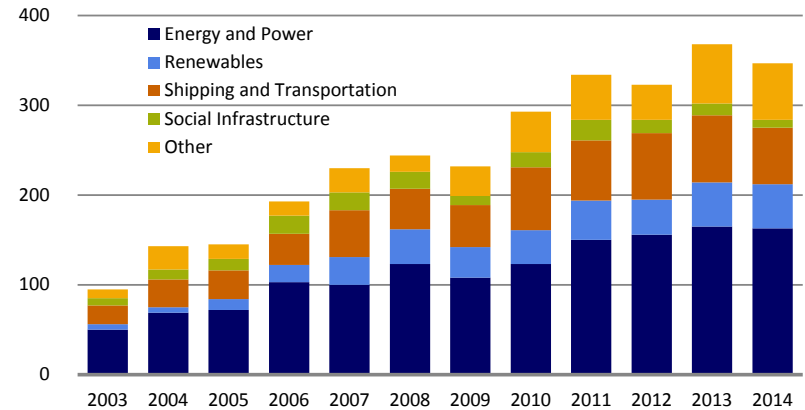
# Project Finance Debt Market Snapshot

## Global Project Finance Debt by Type (\$ in billions)



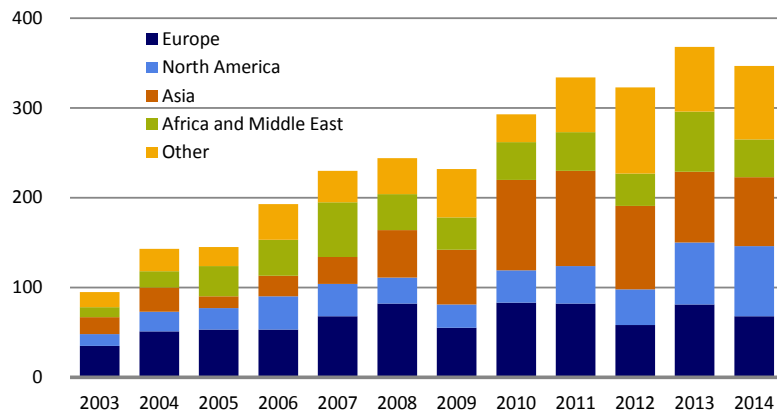
Source: Dealogic

## Global Project Finance Debt by Sector (\$ in billions)



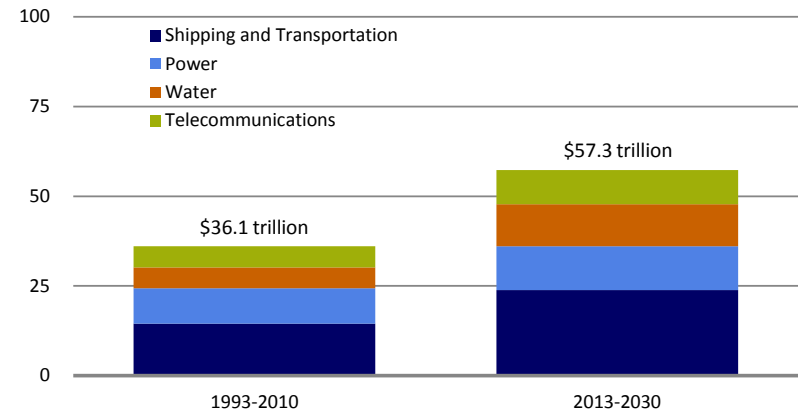
Source: Dealogic

## Global Project Finance Debt by Region (\$ in billions)



Source: Dealogic

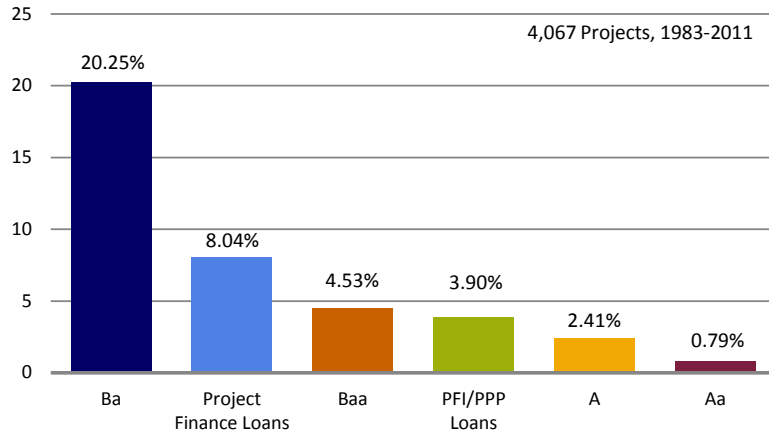
## Global Infrastructure Spending (2010 constant \$ in trillions)



Source: McKinsey Global Institute

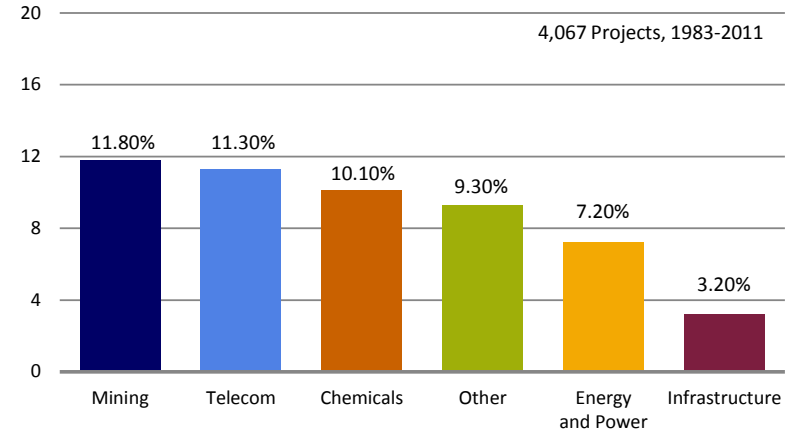
# Moody's Default and Recovery Rates

## 10-Year Cumulative Default Rates (%)



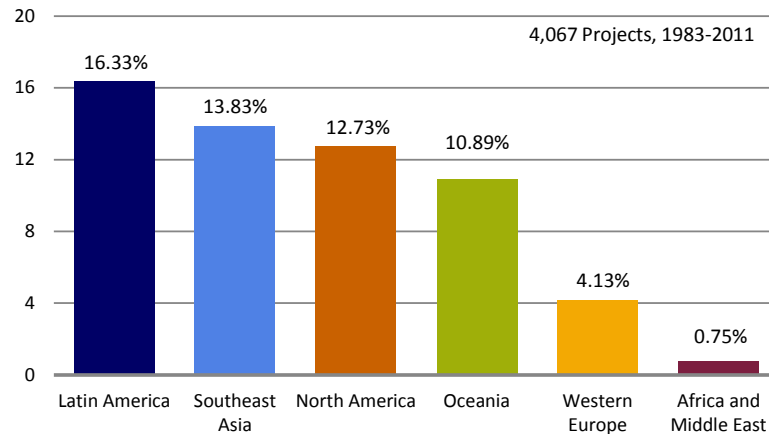
Source: Moody's

## Average Default Rates by Sector (%)



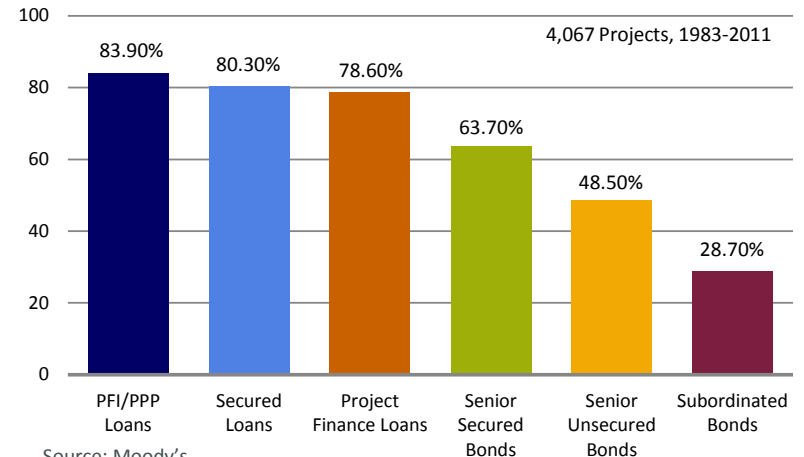
Source: Moody's

## 10-Year Cumulative Default Rates by Region (%)



Source: Moody's

## Average Ultimate Recovery Rates (%)



Source: Moody's

# Typical Project Finance Capital Structure

		<b>% Capital</b>
<b>Supranational Agency Loans</b>	<ul style="list-style-type: none"> <li>• 1-2% average cost of debt</li> <li>• World Bank average yield on loans = 1.43% in FY2014</li> <li>• Asian Development Bank average yield on loans = 1.23% in 2013</li> <li>• Multilateral development banks (World Bank, Asian Development Bank and European Investment Bank)</li> </ul>	<b>2%</b>
<b>Sovereign Agency Loans</b>	<ul style="list-style-type: none"> <li>• 2-3% average cost of debt</li> <li>• Export Development Canada average yield on loans = 2.43% in 2013</li> <li>• Government-owned financial institutions (Export Development Canada, KfW Group, Japan Bank for International Cooperation, Korea Finance Corporation, IDBI Bank and State Bank of India)</li> </ul>	<b>11%</b>
<b>Commercial Bank Loans</b>	<ul style="list-style-type: none"> <li>• 3-4% average cost of debt</li> <li>• L + 250-350 bp</li> <li>• European banks (BNP Paribas, Royal Bank of Scotland, Credit Agricole, Banco Santander and Societe Generale)</li> <li>• Japanese banks (Mitsubishi UFJ Financial, Sumitomo Mitsui Financial and Mizuho Financial)</li> </ul>	<b>52%</b>
<b>Bonds</b>	<ul style="list-style-type: none"> <li>• 4-6% average cost of debt</li> <li>• T + 200-300 bp</li> <li>• Investment grade bonds (traditional and 144A private placements)</li> <li>• Insurance companies (AIG, Allstate, John Hancock, MetLife, New York Life, Northwestern Mutual and Prudential)</li> </ul>	<b>5%</b>
<b>Equity</b>	<ul style="list-style-type: none"> <li>• 8-15% targeted IRR</li> <li>• Governments (United Kingdom) and corporate sponsors (BHP Billiton, EDF, Chevron, Exxon Mobil, Lyondell Basell)</li> <li>• PE infrastructure funds (Alinda Capital Partners, Brookfield Asset Management and Global Infrastructure Partners)</li> <li>• Bank infrastructure funds (Macquarie Infrastructure Group, Citi Infrastructure Investors, GS Infrastructure Partners and Morgan Stanley Infrastructure)</li> </ul>	<b>30%</b>

Note: Capital structure percentage calculations based on typical 70/30 debt/equity project funding mix and breakdown of total \$2.947 trillion project finance debt issuance over 2003-2014 between loans (91%) and bonds (9%), with loan component segmented as follows: 80% commercial bank loans, 17% sovereign agency loans and 3% supranational agency loans.