



Global Trade and Structured Finance: Alternative Financing Options

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Global Trade: Industry Insights and Solutions



Current Economic Conditions – Financial Crisis

Is the financial crisis over or entering a new phase?





U.S. 2007-2008

Credit & liquidity crisis

- Aggressive risk taking by highly leveraged FIs
- Loose credit policies fueled rise in consumer debt and home prices
- Caused global recession as financial markets seized
- Required massive amounts of fiscal stimulus, bank bailouts and bank b/s recapitalization
- US now experiencing modest recovery



Euro 2009-2011

Sovereign debt/bank crisis

- Deficit spending led to rising government debt
- Significant sovereign downgrades with spillover impact on banks who held sovereign debt
- Fiscal austerity and credit crunch led to EU recession
- Required massive amounts of bailouts within the EU for governments and banks, many of which were nationalized
- Challenges linger but an absence of new bad news



Emerging Markets 2013/2014

Slowdown and volatility

- Recent decline in EM GDP growth and stock indexes
- FX rates plunge for Brazil, Russia and India
- Triggered by collapse of G10 imports and China slowdown – tighter US fiscal policy will take a toll
- Many EMs have responded by fueling rapid credit growth, loosening fiscal policy and launching new infrastructure projects

3rd wave of the crisis or just a correction?



Basel III Global Impact on Banks

Basel III introduces radical changes in capital rules, new liquidity and leverage ratios as well as additional rules for global systemically important banks



Issue

- Global Systemically Important Banks (G-SIBs)
- Leverage Ratio
- Liquidity Ratio
- Counterparty Credit Risk (AVC)
- One Year Floor on Tenor

Impact

- Raise Cost of Funding in Emerging Markets
- Potentially binding constraint
- Impacts deposit pricing
- Raises pricing on LC confirmations
- Raises pricing on all short-term Trade financing

Increases Quality and Quantity of Bank Capital forcing new approaches to Risk Distribution

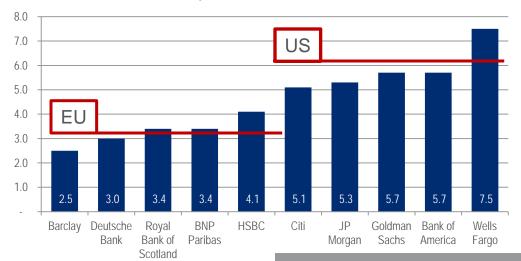


Banks Now Face Challenges in Meeting New Leverage Ratios...

New higher non risk based "backstop" - likely to be the main constraint to asset growth



Leverage Ratios of Major Banks as of June 2013



- Regulator desire to increase capital requirements in a simplistic fashion
- Concern about inconsistent use of bank's advanced models
- Non-risk sensitive approach allows for quicker cross bank comparisons
- However it tells nothing about the true risk of the underlying assets

Impact on typical Trade Transaction

Type of Transaction	Basel II Leverage Ratio Capital	Basel III – US NPR Leverage Ratio Capital
\$20M Trade LC	\$20M x 20% CCF x 4% = \$160,000	\$20M x 100% CCF x 6% = \$1.2M
\$50M ECA financing	\$50M x 0% CCF x 4% = \$0	\$50M x 100% CCF x 6% = \$3M
\$100M FI Trade Advance	\$100M x 20% CCF x 4% = \$800,000	\$100M x 100% CCF x 6% = \$6M

Significant increase in capital for Trade transactions under Basel III Leverage Ratio



¹ Supplementary Leverage Ratio of at 5% BHC and 6% Bank applies to the large US banks on a non risk adjusted basis; EU banks subject to 3% Leverage Ratio Source: Citi analysis; Reuters "Big banks face tougher lending rules than global rivals" published, Jul 9, 2013

... And With LCR, Correspondent Bank Model is Dead

Capital becomes more expensive as the value of deposits plummets forcing changes to traditional funding models and prices – new correspondent banking models will need to emerge



Traditional Model



- Global banks provided relatively cheap FI Trade Advances in exchange for deposit business
- Value of deposits offset loan rates making this an attractive relationship
- Internal return hurdles typically met

Illustrative Transactio		Post LCR RoRWA	Total Change in RoRWA
China	29%	19%	-10%
India	9%	5%	-4%
Russia	25%	13%	-12%
Brazil	18%	13%	-5%

Basel III Impact

Capital

- Additional overall capital for banks
- AVC adds an additional 25% capital to most FI transactions

Liquidity

- New Liquidity Coverage Ratio
- 30 day Net Outflow for FI deposits make these deposits significantly less valuable:
 - Operating deposits @ 25%
 - Excess balances @ 100%
- 30 day drawn down for Trade Loans at 40% incurring significantly higher asset liquidity premiums

Returns

 At current pricing internal return hurdles unlikely to be met

Recent Citi analysis concludes that proposed LCR rules will cause typical returns from Correspondent Banking relationships to significantly decline: ROA down 20 bps and RoB3RWA down up to 10 points

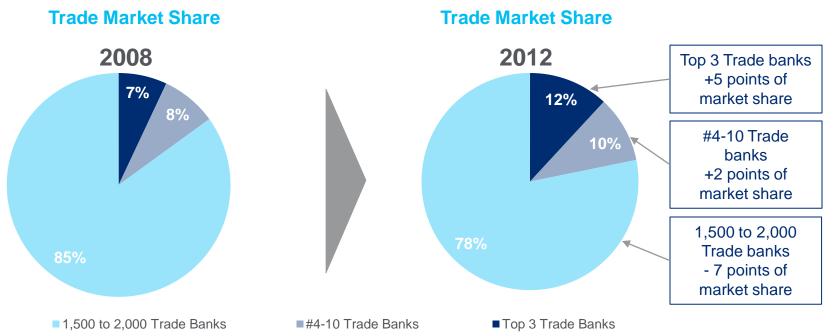
Source: Citi analysis;



Market Trends – Top 10 Banks Gaining Concentration

Overall Market Growth 1.8% with the Top 3 Trade Banks Growing at 9x Market Growth





Drivers of Consolidation

- Scale needed for cost efficiency
- Required investment in technology and infrastructure we spend more annually on IT than most Trade banks make in revenue
- Regulatory complexity and capital rules
- Access to USD funding
- Portfolio choices by banks to focus on core businesses
- Global network required to serve client's global supply chain



Market Trends – New Spotlight on Risk Distribution

Basel III forces banks to rethink how they will use their balance sheets to generate returns shifting the emphasis from the traditional Book and Hold approach to an Originate to Distribute business model



Action	Activity Direction	Use of Bank's Balance Sheet	Comments
Book to Hold Asset on Balance Sheet	•	Yes	Basel III capital requirements make returns less attractive
Bank to Bank Distribution	•	No	Funded participations done on a True Sale basis enhance returns for existing deals, however as balance sheets becomes constrained under Basel III, originating banks will need to find additional capital sources
	·	Yes	Unfunded participations are problematic as they remain on the seller's balance sheet and are dependant on the participant's rating
Sell to alternative investors		No	Need to develop investor appetite from insurance companies, investor funds and multilateral agencies
Partner with other banks	1	No	Leverage Industry Partnerships such as BAFT / London Group, ICC Trade Register, AFTA and NAIC as well as club vehicles such as Trade Maps
Securitization programs		No	BNP Paribas's Lighthouse (2013) Standard Chartered's Sealane II (2012) Citibank's CABS (2006)



Treasurer's View – Macroeconomic and Geo-political Trends



 Governments are responding with protectionist measures and supporting their own companies with increased Export Agency roles in providing financing and liquidity against even short-term trade transactions

 Access to liquidity has improved but it is still being impacted by market turmoil. Increased use of receivables discounting, to obtain liquidity from sales

 Access to risk mitigation has become more difficult while the need has increased. Credit insurance is hard to come by and costs have gone up. Significant global move to share risk with banks on commercial based transactions

 Small companies have felt the effects of the crunch disproportionately. Large companies are increasingly concerned about counterparty risk in their supply chains Trading patterns have changed: volume of world trade is slowing again after growth of 22% in 2010. Demand growth is currently concentrated in the emerging markets and basic consumer goods

> Sovereign risk concerns and market uncertainty have spread from the emerging markets to the EU. Austerity measures imposed on some countries have the potential to cause unrest

 Commodity prices have been very volatile, making transactions riskier (especially term transactions).
 More difficulties arise between buyers and sellers



Treasurer's View – Changing Landscape Impacting Strategy

Recent market developments and changes in the regulatory environment have brought increasing limelight on the treasurer's role. Host of new regulations determining key strategy topics



A few examples

- Basel III (Global)
- Dodd-Frank (US)
- FATCA (US)
- Repeal of Regulation Q (US)
- Financial Transaction Tax (EU)
- MiFiD II (EU)
- Solvency II (EU)
- Securities Law Directive (EU)
- Single Euro Payments Area (EU)
- Independent Commission on Banking (UK)
- FSA liquidity regulation (UK)
- CBRC new capital adequacy ratios (China)
- APRA accelerated Basel III timeline (Australia)

Implications

Improve risk management: Emphasis on visibility & control

Monitor regulatory changes and model impacts

Increase cash operational control; Manage local and regional cash operations within a global model

Improve forecasting & cash utilization

Increase return

Strategy

Centralize Treasury Operations

Focus on Working Capital Management

Improve Risk Management



Working Capital Management, Risk Mitigation and Financing

Citi's Supply Chain Finance Solutions help treasurers manage counterparty risk with a full spectrum of solutions from supply chain financing and receivables financing that can help optimize working capital and offer an alternative method of financing



Purchase Production **Transport** Distribution Retail **End User Supply** Sales **Settlement Financing** Settlement **Financing** Servicing Documentary Inventory Finance Documentary Documentary Collections Collections Collections Commodity Import LCs Export LCs **Financing** Finance **Risk Mitigation** Standby LCs **Financing** Confirmations **Financing** Import Finance Export Credit Agency Export Finance/ Open Account **Discounting Bills** Commodity Finance Commodity Information **Finance** Electronic Delivery Export Credit Agency

Procurement

Sales



InformationElectronic Delivery

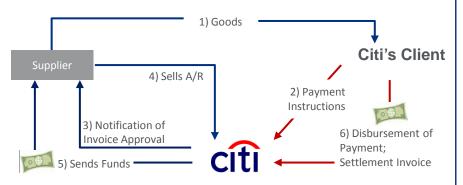
Solutions Overview

Specialized and highly structured programs between supply chain partners to manage working capital



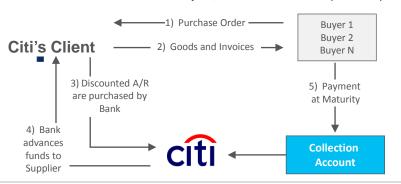
Supplier Finance

- Citi's Buyer -backed Supplier Finance Program can offer
 - Improved Commercial Terms and extended DPO
 - Affordable financing for Suppliers



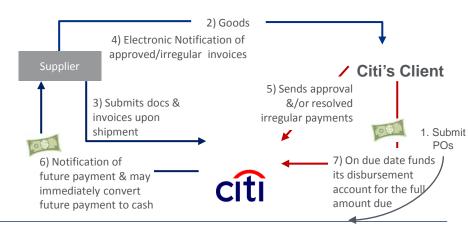
Accounts Receivable Credit Program (ARCP)

- Facilities can be structured for "off-balance sheet" or "on-balance sheet treatment
 - Decreases cash conversion cycle, reduces DSO and improves liquidity



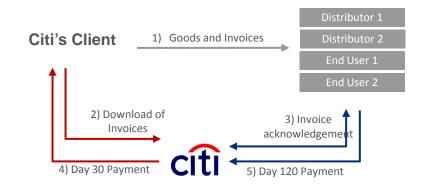
Open Account Processing w/ Supplier Finance

Supplier Finance with Citi also processing paperwork similar to Commercial L/C documentation processing



Distribution/Distributor Finance

• To drive sales, decrease DSO and manage channel risk





Equipping our Clients with the Information They Need



- A new client experience never before seen in transaction banking Interactive Solutions
- Helps clients visualize the benefits of TTS's global coverage and capabilities
- Offers insight into real-time customized working capital solutions based on client's goals, priorities, and preferences
- Enhances the overall solutioning experience



"Transforming the way we interact with our clients"



Market Intelligence for Liquidity Management, Payments and Receivables and Trade Finance

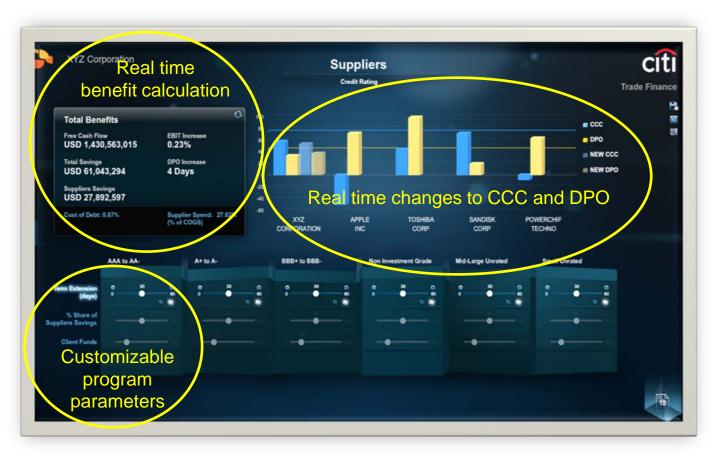






Interactive Solutions: Trade Finance – What can it do?

- Visualize client's Supply Chain
- Benchmark client's DSO, DPO, DIO, and CCC with peers
- Calculate benefits of a specialized Trade Finance program based on client's chosen parameters





Trade Finance Module















Structured Finance: Trends and Implications



Structured Finance

- CLIENT ADVISORY BOARD
- Provision of financing solutions that are predominantly non-recourse to a specific corporate credit, and often utilize special purpose vehicles, bankruptcy remote structures, or other structural mechanisms designed to isolate a specific asset or cash flow
- Allows issuer to access funding at more advantageous economics than more traditional borrowing sources
- Bond or Bank execution
- Securitization, Project and Infrastructure Finance, CLO's

Intellectual Property

Representative Asset Classes

Consumer Receivables	Commercial Receivables	Structured Transportation	Infrastructure	Power	Alternative Energy
 Auto Loans Auto Leases Credit Cards Personal Loans Student Loans Stranded Costs Mortgages 	 Trade Portfolio Finance Rental Cars Equipment Leases Future Flow Auto/Equipment Floorp Middle Market Loans Outdoor Advertising 	AircraftRail CarsShipping	PipelinesPublic TransportAirportsTelecomToll RoadsPrisons	CoalNuclearNatural GasHydroelectric	SolarWindGeothermalBio MassEnergy Efficiency









Structured Finance Markets – Asset Backed Securities

Structure Finance markets have made significant recovery post crisis, and have been differentiated from sub prime mortgages and CDOs



Asset Backed Securities

- While off pace from 2012, 2013 global volumes expected to approach \$300 billion
- Supply dominated by auto related securitization and CLO's
- Similar to other credit markets, ABS for much of the year has enjoyed significant oversubscription levels and attractive pricing







Structured Finance Markets – Project & Infrastructure Finance

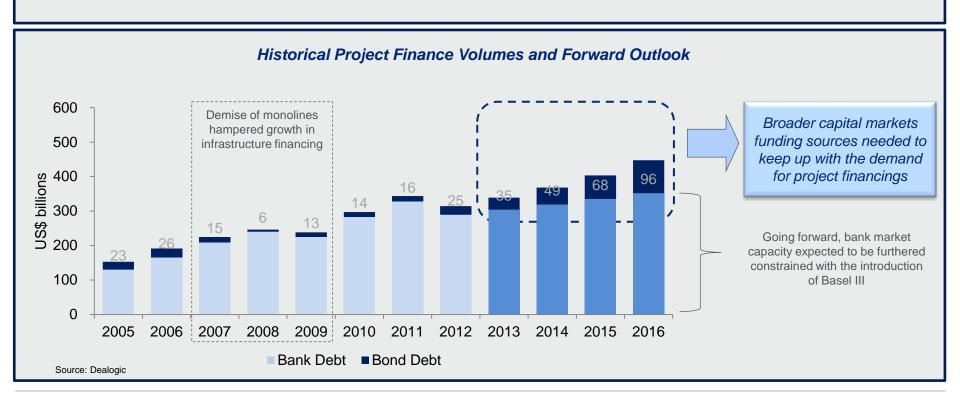
Project and infrastructure investment volumes continue to grow at a rapid pace. Increasingly, demand for project finance capital is expected to outstrip bank market capacity.



Investment Needs Continue to be Significant

(driven by need to replace infrastructure, the rapid industrialization of EM countries, population growth, and the need for alternative energy sources)

- Required investment in infrastructure / power in the European Union: €1.5 trillion over the next 10 years
- ▶ Clean energy investments in the U.S.: \$245 billion to \$340 billion over the next 10 years
- Latin America infrastructure investment: over \$100 billion annually for each of the next 10 years
- ▶ India's estimated infrastructure / power spending: \$1 trillion over the next 5 years





Structured Finance Markets – Structured Transportation

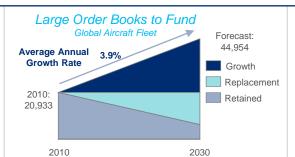
Today's Challenges

- Diminished bank market capacity
- Significant funding needs

Financing Needs

- Need for innovative ideas
- Capital markets innovation will relieve funding pressures

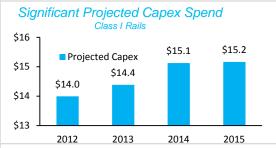
Sector Trends



Need for Innovative Financing

- Massive order books and refinancing needs create unprecedented demand for funding
- Adoption of EETC product by non-U.S. airlines to broaden aviation capital markets
- Leasing companies continue to access capital markets through both corporate and asset backed securities





- Railcar leasing companies looking to improve cost of funds through securitization market
 - Market picked up in 4Q 2012 with two ABS transactions printed
- Status quo for Class I rails



LNG Deliveries

60
40
20
2010 2011 2012 2013 2014 2015

Deliveries Orders Options

Large Order Books following Capex Holiday

- Container leasing ABS issuance remains robust with over \$2.7 billion placed in capital markets in 2012
 - Investor base continues to broaden as more accounts become familiar with the asset class
- Deeper bid for container paper resulting in tighter new issue pricing
- Charter monetizations particularly in the LNG space expected to pick up in 2013



Where Are We Going?



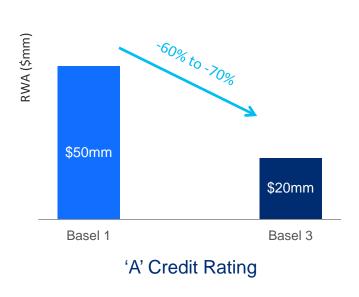
- Basel III and similar regulatory changes will have a material impact on how banks allocate capital
- Strong incentive to lend to higher quality credits and on a secured basis
- Supplemental Leverage Ratio (SLR) serves as a de facto cap on size of largest U.S. banks balance sheets, including both funded and unfunded commitments
- Liquidity Coverage Ratio (LCR) requirements will place pressure on banks ability to provide unfunded commitments
- Bottom line Tighter structural terms and increased cost

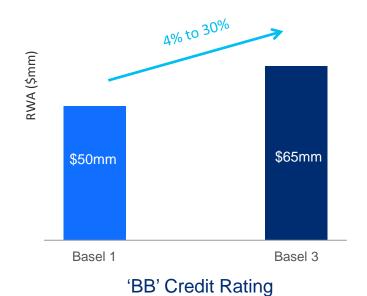


RWA Example for Loans

Consider the RWA requirements for a bank loan under the following scenarios







Facility Description

Facility Amount	\$100mm Unused Commitment
Tenor	3 Years
Security	Senior Unsecured



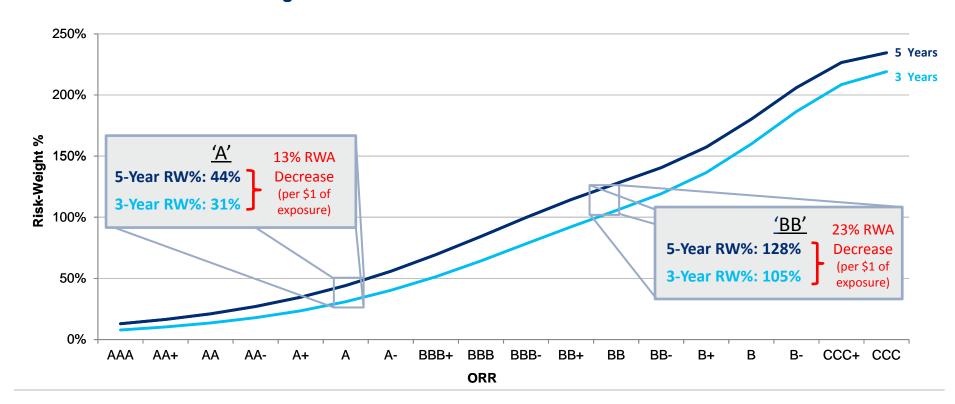
RWA Sensitivity of Unsecured Loans



Loan Description

Issuer Type	Corp
Maturity	3rs vs. 5yrs
Secured / Unsecured	Unsecured

RWA % Based on Credit Rating





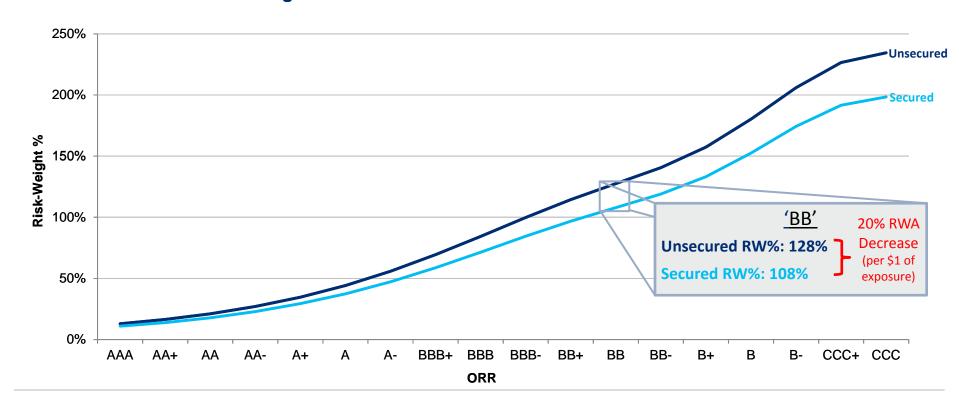
RWA Sensitivity of Unsecured Loans



Loan Description

Issuer Type	Corp
Maturity	5 Years
Secured / Unsecured	Unsecured vs. Secured

RWA % Based on Credit Rating





Where Are We Going?



Implications

- Demand for Structured Finance will continue to grow as developed markets continue recovery and emerging markets continue to expand
- New regulatory regime favours structured lending for banks, but absolute balance sheet limitations will curtail activity
- Central bank driven interest rate environment, coupled with abundance of credit issuance, have left institutional investors in need of incremental yield and relative value opportunities
- "Funding gap" emerges as evolution of bandwidth and resources among institutional investor community will lag credit demand

Solutions

- Evolution of bank lending structures
- Development and expansion of institutional investor base



Liquidity Coverage Ratio

Evolving Bank Lending Structures – "Delayed Draw"

Recent bank facility renewals have included features that can mitigate the amount of capital banks have to hold for committed capital.



Overview of Regulatory Capital Concept

- Banks are required to hold capital based on potential facility outflows (undrawn commitments) that could occur over a 30 day period
- Economic impact to bank lenders is the cost / negative carry of holding cash / low yielding securities for unfunded commitment amounts

Expected Impact

- The implementation of the LCR charges does not occur until January 2015, though all major banks are already implementing changes and reporting compliance with the LCR
- Bank lenders will generally fall into one of two categories:
 - Rely on increased costs provisions to protect against potential future LCR charges (if for instance a bank is not currently incurring these charges on their securitization lending positions) or implement delayed funding language consistent with the option below
 - Potential for parties to agree to amend facility should LCR charges occur to prevent increased costs
 - Require delayed funding language to ensure lending positions do not attract LCR charges
 - Precedent language generally allows lenders who are incurring LCR charges to, at their sole discretion, delay funding for a period of greater than 30 days
 - Mechanics could be incorporated such that lenders who are not incurring LCR charges to increase funding amounts up to each lender's commitment amount to cover for the delayed funders



Socially Responsible Investment ("SRI") / Green Bond Offerings

In an era of growing awareness that socially responsible initiatives are good for business, SRI bonds have become one of the fastest growing segments in the fixed-income market.



Socially Responsible Investments

Socially Responsible Investment is any investment where both financial return and social good are considered

- Social good broadly includes the consideration of the environment, human rights, diversity, and corporate governance, among others.
- In a vacuum of leadership, the responsibility for considering climate change and other socially responsible agenda have fallen on the private sector

Issuers' Perspective

- Many issuers, recognizing the potential impact from climate change and the associated high economic and social costs, have willingly assumed this responsibility and have adopted "green" or social initiatives
- A robust risk management process should consider the potential impact that Environmental, Social, and Governance (ESG) issues have on businesses
- An SRI Bond issuance allows the issuer to make a strong statement about their stance on these issues while attracting SRItargeted investors

Investors' Perspective

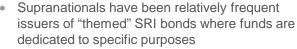
- The United Nations-supported Principles for Responsible Investment ("PRI") Initiative has garnered over 750 signatures from asset managers in support of its Principal for Responsible Investment
 - Aside from SRI funds, which have been one of the faster growing asset base, many traditional money managers have incorporated ESG considerations into their investment analysis
- Investors, as stakeholders in a company, recognize their role as stewards of the company and that failures in ESG issues have a direct impact on the enterprise value of a company - evaluating companies' ESG policies is an important risk mitigating tool

Example of Recent SRI Bond Across Sectors



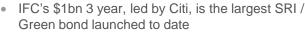
















- Issuers have been active across a wide range of currencies / investor bases
- The World Bank has published very specific green project selection criteria and have raised US\$4bn to-date in 59 transactions and 17 currencies



- The first SRI bond ever issued by a European Corporate
- The purpose of the bond is to refinance the growth of its Home Healthcare division, whose ECG performance is rated by Vireo
- Priced a new €500mm, 9-year deal in 2012 with Citi as a Bookrunner



- A number of French regions have issued SRI / Green bonds during 2012
 - Proceeds raised are allocated to environmental and social projects



- Has issued a TRY190mm Uridashi bond targeted at Japanese investors in July 2012
- Proceeds of the issue dedicated to various projects, lending and other financial supports themed to enhance sustainable business practices in the agribusiness in developing countries



Socially Responsible Investment ("SRI") / Green Bond Offerings

Socially Responsible Investment Securities, issued in support of a socially responsible company or cause, have been included in portfolios of traditional fixed income investors as well as SRI-specific funds



SRI Formats

	Themed Bonds	Externally-Rated
Description	Themes Renewable Energy Land Use Biodiversity Energy efficiency Clean transportation Agriculture Clean water etc.	 Issuer is rated by an extra-financial ratings agency which looks at the Environmental, Social and Governance (ESG) policies of the issuer/dedicated segment of the issuer Examples of such agencies are Vireo, EIRIS, Ingrate, MSCI ESG
	 The proceeds are designated specifically for environmental / socially responsible / sustainable use 	
Considerations	 SRI bonds can take a number of forms: Corporate Bonds (based on the full faith and credit of the issuer) Project-Development Bonds (Special purpose vehicle owns the asset) Securitization (Securitization vehicle of loans and/or assets) The industry is currently establishing a framework for this type of issuance to harmonize the process for SRI / Green Bond issuance Clearly identifies how the funds will be used 	 Similar to credit ratings, the extra-financial rating applies to the issuer and will be updated on an on-going basis ▼ Although there are a number of agencies who would provide ESG ratings, there are no current market leading third-party assessor ▼ Standards for assessing ESG policies vary
Applicability	 Supranational agencies supporting socially responsible agendas – most green issuance by these agencies to-date have used this format Corporate issuers in industries not consider "green", but have identifiable projects in one of the key themes – for example: Automotive companies looking to support the leasing of green vehicles or the development of efficient energy sources Industrial companies developing systems to provide clean water for its customers or its operations 	 Precedent Transaction: Air Liquide Can be applicable to many corporate issuers whose business are not directly tied to green technology Provided that the issuer is not in an "ineligible" industry, a good rating from one of the ESG rating agencies may still be achievable if the company demonstrates strong governance or it's policies are socially responsible





Questions?



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Citi works with its clients in greenhouse gas intensive industries to evaluate emerging risks from climate change and, where appropriate, to mitigate those risks.

efficiency, renewable energy and mitigation

