Electronic Finance: Reshaping the Financial Landscape Around the World

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Structure of Presentation

- The New World of Financial Services: A (R)evolution?
- Public Policy Implications
- Impact on Emerging Markets

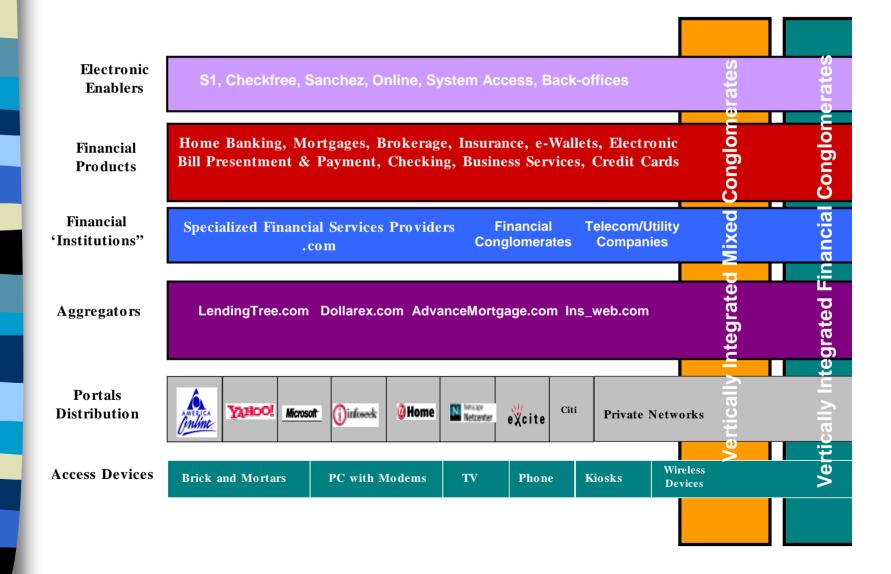
The New World of Financial Services

- Three major factors impacting financial services:
 - Globalization
 - Deregulation (geographic and product)
 - Advances in information technology

Technology is Revamping Industrial Structure for Financial Services

- Entry of new specialized financial service providers
 - direct product providers
 - aggregators
- Entry of non-bank entities (telecoms/utilities)
- Consolidation around recognized brand names
- Emergence of mixed financial and nonfinancial conglomerates
- Globalization of markets and trading systems

Technology is Revamping Industrial Structure for Financial Services



Technology: Changing Financial Service Provision

- Massive cost reductions in technology and communications cost
- In particular, the internet
 - reduces processing and labor costs
 - allows for new distribution channel
 - allows for better and more cost effective customer stratification and personalized pricing
 - permits unbundling of financial products and commoditization
 - lowers barriers to entry

Benefits to Consumers of Financial Services

- Benefits to retail consumers
 - Reduction in price and search costs
 - Improvement in quality of services
 - speed and timeliness of information (information-asymmetries reduced)
- Benefits to corporates
 - Reduction in transaction, search and monitoring costs
 - Widening of access to financial services including for SMEs

Implications for Public Policy in the Areas of:

- Safety and soundness regulations
- Competition policy
- Consumer protection and education
- Global public policies

Safety and Soundness

- The need to review the extent of safety net
 - Special nature of banks eroding
 - Safety net and associated prudential regulation and supervision
 - Guarantees of payment finality a last resort
- Over short term, given technology advances important to
 - Prevent extension of safety net in EM countries
 - Decline of franchise value of incumbent institutions and financial stability

Competition Policy

- A more active competition policy will be needed
- Market and product definition more difficult
 - Barriers to entry can arise from
 - Sunk costs and/or high fixed costs and switching costs
 - Network externalities
 - Links between banking and commerce or vertical integration/horizontal integration
- Competition policy in financial services needs to be harmonized.

Consumer and Investor Protection

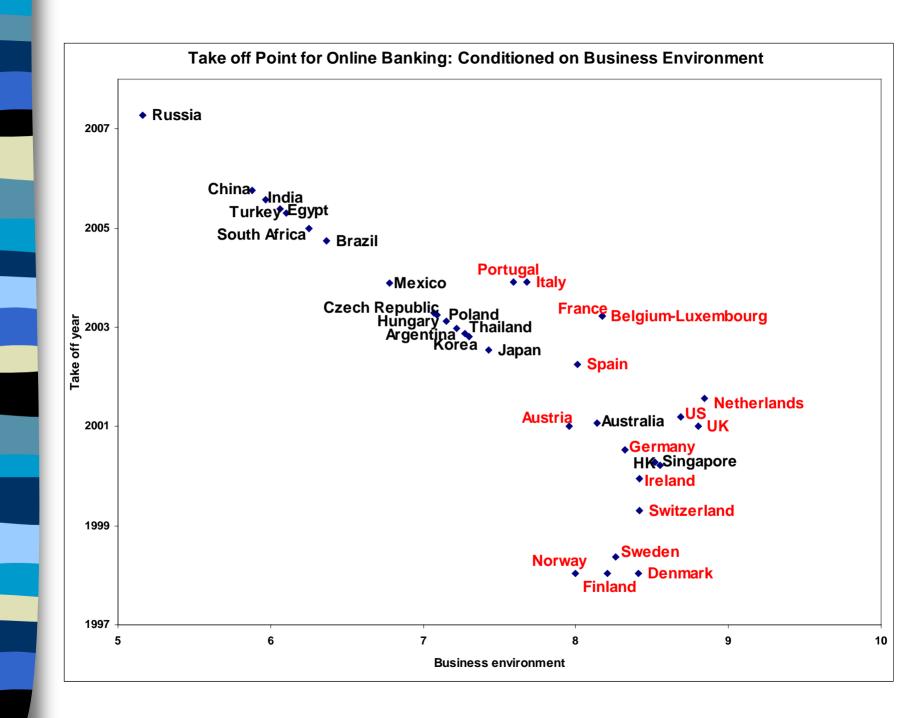
- Consumer and investor education and protection more important
- What role for ISP providers?
- What role for Portal Companies and Investment Advice?
- What role(s) for financial service providers?

Global public policy dimensions

- Access to cross-border financial services raises the following issues
 - Move to single license (passport) with home rule regulation?
 - Which country standards and jurisdictions apply?
- Market disturbances could increase
 - Easier spread of misinformation, commoditization, less risk sharing by institutions could increase asset price volatility
 - Herding, contagion, and susceptibility to spurious currency attacks may increase
 - Capital account restrictions more difficult to enforce
 - Coordination of creditors in a crisis more difficult

Impact on Emerging Markets

- E-finance and related e-commerce and overall penetration is growing very rapidly
- E-finance has the potential to
 - Improve quality and scope of financial services
 - Venues for trading risks
 - Offer more cost-effective delivery of services
 - Widen the access of retail and commercial clients
- Survey Results Suggest Uneven Development of Preconditions to obtain the benefits.



EXISTING REGULATION OF E-FINANCE PROVIDERS AND INFORMATION INFRASTRUCTURE

Country by Geographic Region	Does "electronic signature" or online-verification of a person exist?	Do statutes, regulations or guidelines address the issues of outsourcing for financial institutions?	Can financial service providers obtain positive (A) or negative (B) information on borrowers?	
Europe				
European Union	Yes	Yes	N/A	
UK	Yes	N/A	Yes (A&B)	
Germany	Yes	Pending	N/A	
Czech Republic	Pending	No	No	
Finland	Yes	N/A	Yes (A&B)	
France	Yes	N/A	Yes (A&B)	
Hungary	Pending	N/A	Yes (A&B)	
Poland	Pending	Yes	Pending	
Russia	Pending	N/A	N/A	
Sweden	Yes	N/A	Yes (A&B)	
Turkey	No	No	Yes to B	
The Americas				
Argentina	Pending	N/A	Yes (A&B)	
Brazil	Pending	Yes	Yes to B	
México	Yes	No	Yes (A&B)	
USA	Yes	Yes	Yes (A&B)	
Asia				
Australia	Yes	Yes	Yes (A&B)	
China	Pending	No	Yes (A&B)	
Hong Kong	Yes	Yes	Yes to B. No to A	
India	Yes	N/A	Pending	
Japan	Yes	Yes	Yes (A&B)	
Korea	Yes	Yes	Yes (A&B)	
Singapore	Yes	Yes	Pending	
Thailand	No	N/A	Yes (A&B)	
Africa				
Egypt	N/A	N/A	N/A	
South Africa	Pending	N/A	Yes (A&B)	
Morocco	No	No	No	
Tunisia	N/A	N/A	N/A	

EXISTING REGULATION OF E-FINANCE PROVIDERS AND INFORMATION INFRASTRUCTURE

Country by Geographic Region	Do separate authorization requirements for virtual electronic finance providers exist?	Does regulation of stored value cards or electronic payments (e.g. deposit substitutes) exist?	Are issuers of deposit substitutes required to inform their customers that the cards are not guaranteed in case the issuer fails?	Type of institutions with access to the real time gross settlement system	Are there disclosure requirements for portals?
Europe					
European Union	Same framework as "brick and mortar"	Yes	No	Only credit institutions or ELMI	No
UK	No (refer to EU)	No	No	Banks	No
Germany	No (refer to EU)	Yes	No	Credit Institutions	No
Czech Republic	No	Pending. new "Banking Act"	Pending	Domestic banks and Stock Exchange Inst.	No
Finland	No (refer to EU)	Yes	Pending	Central Bank	No
France	No (refer to EU)	Yes	N/A	N/A	No
Hungary	No	Yes	Yes	Financial Institutions	No
Poland	No	Pending	No	Banks and Clearing Houses	No
Russia	No	Yes	N/A	Bank of Russia-clients	No
Sweden	No (refer to EU)	Yes	No	Credit Institutions	Yes
Turkey	No	No	N/A	Banks	No
The Americas					
Argentina	No	No	N/A	Banks/Clearing House	Yes
Brazil	No	No	N/A	N/A	Pending
México	No	No	No	Banks and Brokers	No
USA	Pending	No	Yes	Depositary Institutions	Yes
Asia					
Australia	No	Yes	N/A	Depositary Institutions	No
China	No	Yes	Yes	Banking Institutions	Yes
Hong Kong	No	Yes	No	Depositary Institutions	Yes
India	No	Yes	N/A	Banking Institutions	No
Japan	Yes	Yes	N/A	Financial Institutions	No
Korea	Pending	No	No	Commercial Banks	No
Singapore	Yes	Yes	No	Banks	Yes
Thailand	No	No	No	Banks	No
Africa					
Egypt	N/A	N/A	N/A	N/A	N/A
South Africa	No	Yes	Yes	Banks	No
Morocco	No	No	No	Banks	No
Tunisia	N/A	N/A	N/A	N/A	N/A

Impact on Emerging Markets

- Financial Sector Development: A New Paradigm?
 - A more functional versus institutional approach
 - Focus on the enabling environment: basic legal, information, and communications infrastructure
 - Reassess approach to financial regulation and supervision
 - Reassess whether very small and/or underdeveloped countries should have domestic equity, bond, and even banking systems

Some Preconditions

- Communications Infrastructure
- Security Arrangements
- Privacy and Information
- Contract Enforcement

Communications Infrastructure

- Privatize Post Telegraph and Post Administrations
- Improve licensing of competitive operators
- Reduce international trade barriers
- Impose mandatory interconnections Introduce an independent/ accountable regulatory authority
- Develop price cap regulations

Security Arrangements

- Security breaches becoming more common
- Should the Certification Authority be public or private?
- How stiff are penalties for security infractions?
- How can private keys be made much more secure to permit authentication?
- Biometrics

Privacy and Information

- Is Privacy consistent with Security?
- Screen scraping
- Sharing positive and negative credit information
- Technology and its role in data mining and scoring—the case of ICICI and Global Trust Bank

Contract Enforcement

- Weak Contract Enforcement implies less liquidity
- Cross Border Issues and Dispute resolution
- Can technology improve collateral and foreclosure processes?
- Can technology improve contract enforcement?

Applications: E-Finance in Emerging Markets

- Smart Cards a way to Leapfrog
- Insurance: E-financeable
- E-Finance for Small and Medium Enterprises
- Micro finance: E-financeable?
- Housing Finance: A new approach
- ECNs in emerging markets?