



ENISA Workshop on Risk Management

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Risk Management in the Banking Sector

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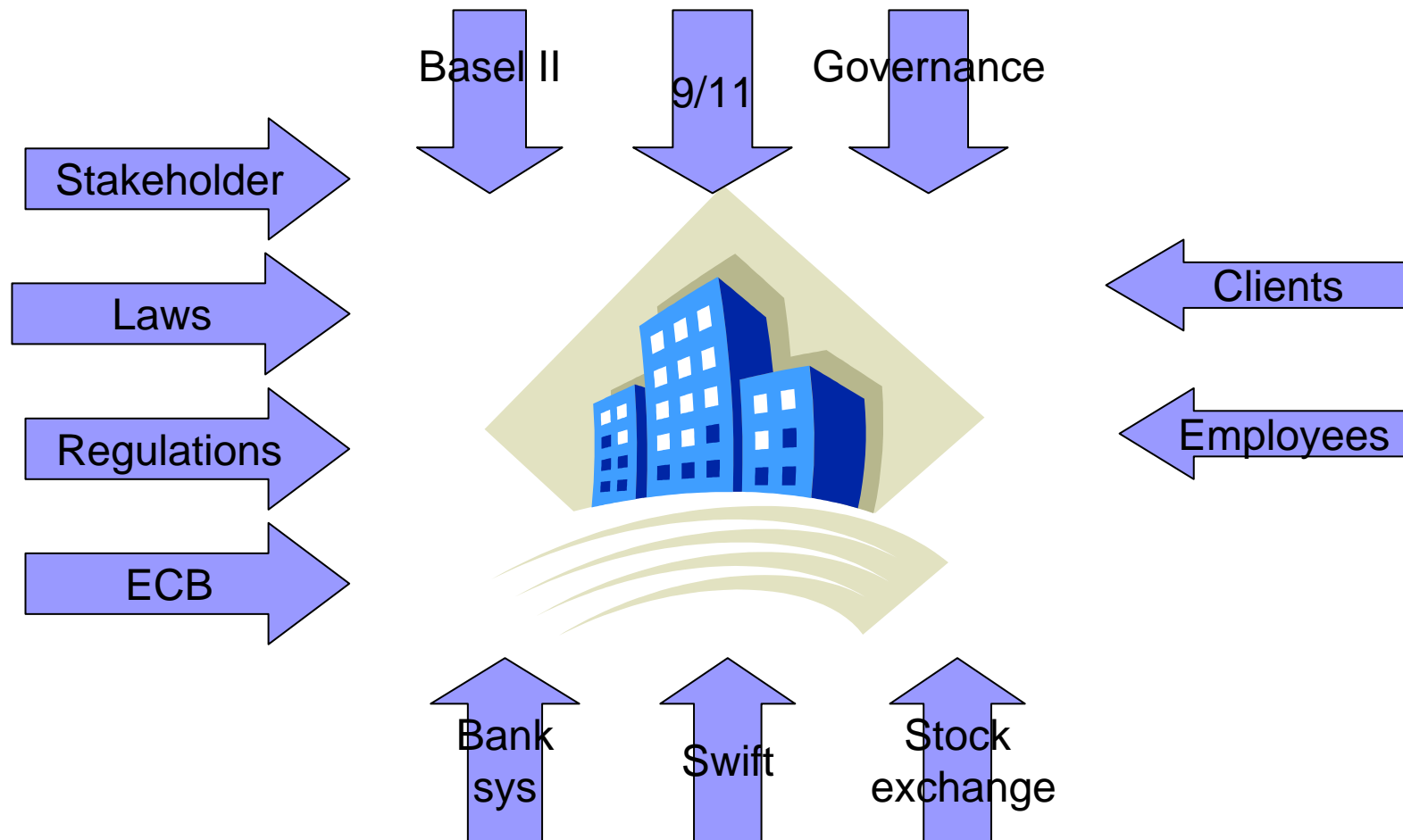


Introduce myself

- Agronomist (ULB-Brussels)
- Information Technology since 1986 (MF, DBA, Unix, Win, Sec.)
 - Experience in
 - Insurance (500p. Belgium origin, GB subsidiary , IT 30)
 - Telecom (1500p. ,GSM , IT 120)
 - Banking (>35000p , IST >1000)
- Formation - IST related
 - HEC St Louis (Brussels) , MCA (Antwerps) and CISA (ISACA)
- Contribution to ISO works
 - ISO/IEC/JTC1/SC27 IT Security Techniques (18044,18028,17799,27nnn,...)
 - ISO/TC68 : Banking sector(13569)
- Independent expert for the ENISA (www.enisa.eu.int)
 - Risk assessment / risk management working group
- Collaborate to Clusib (www.clusib.be)
 - Development of “incident management” publication
- Founding member and member of the board of the BCIE (www.bcie.be)



Banking Sector

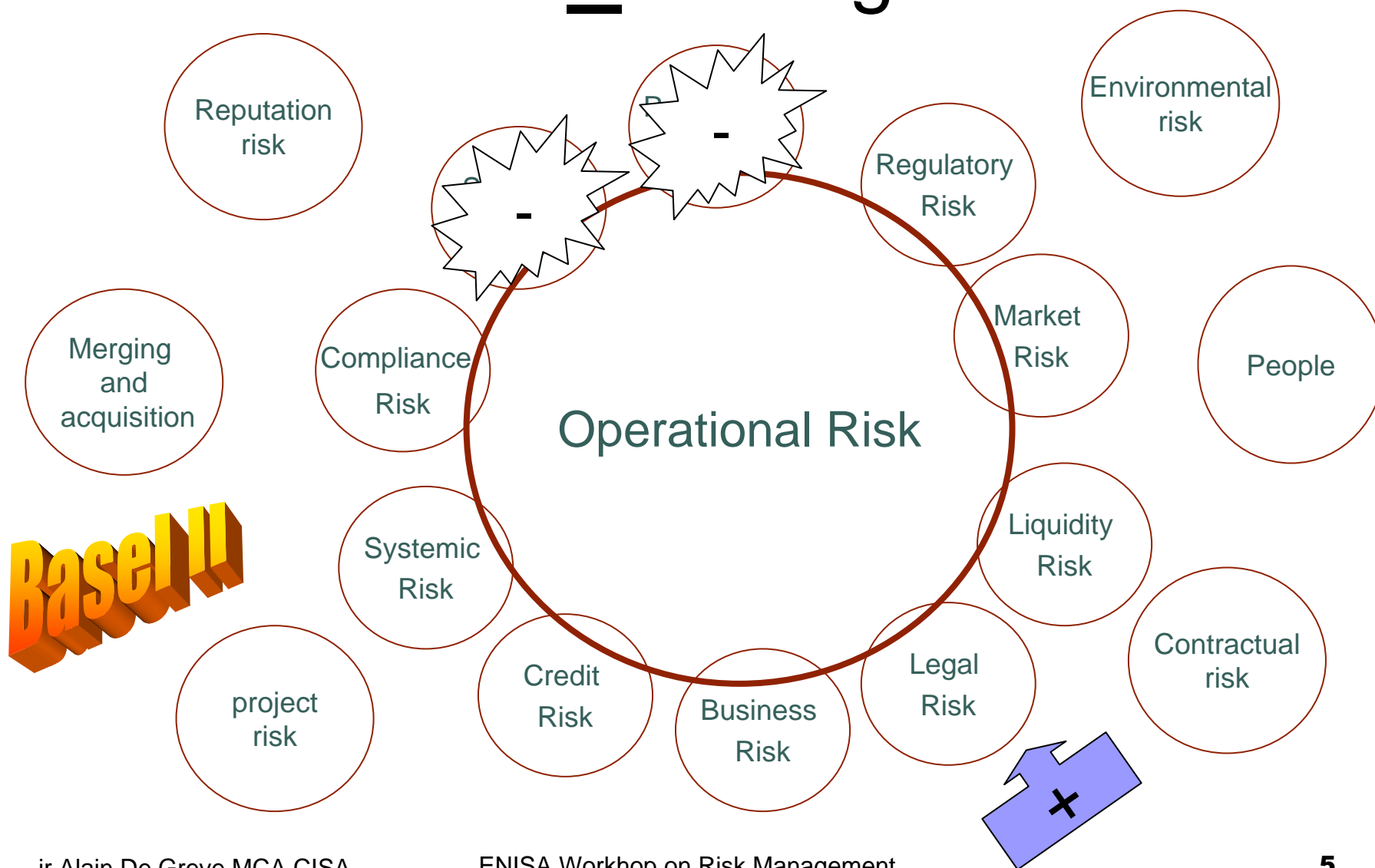





The risks

- What is the importance of information on money for you?
- Who don't have at least one bank account number in Western Europe
 - Issue : East Europe and new potential countries
- Do you still pay with banknotes and coins (without intervention of a bank)?
 - Electronic money
 - Proton in Belgium
 - Internet payments
 - Self bank
- Maximum 10.000 euros for hand by hand transaction
- “supermarket” ATM

The riskS management






kind of risk ↔ impact

- Reputation
- Regulatory
- Market
- Liquidity
- Legal
- Business
- Credit
- Systemic
- Compliance
- Strategic
- Merging and acquisition
- People
- ...


- Permanence of company
- courts
- Loss in balance sheet
- Payment of clients
- courts
- Parts of market
- Counterparty failure
- 1929 Krach
- jail
- Parts of market , acquisition
- Different technologies and applications
- Social engineering, unwanted awareness, tiger kidnapping...
- ...



The references

Compliance - constraints

- Operational Risk Management
- Information Risk Management
- Audit
- Cost Accounting
- Human Resources, Legal...
- Others
- Governance
- Basel II
- ISO 2700x series and 25700
- Cobit 4
- IFRS , IAS
- Law on Privacy, local laws
- Laws and regulations in general
- European directives
- Local codes (Lippens, Tabaksblat,...)



Information technology operating systems - applications

- Banks have different platform solutions
 - Mainframe, midrange, distributed
- Each have their own risks
 - Mainframe – old applications- knowledge of engineers and programmers
 - Midrange – different OS specificities (Unix's, i5, Linux,...)
 - Distributed : Windows.... Open Office

 - ...old stuff
- Value and quality of transactions
 - Confidentiality, Integrity, AvailabilityNon repudiation
 - Money Laundering
 - International Payments (SWIFT system)
 - Reputation (scandal , not tiger kidnapping but error on placement or network connectivity – timestamp for transactions))
 - Web applications
 - Security of file transfer
 - Encryption



Networking aspect

- Communications between banks
 - Chamber of compensation , CEC,...
- Stock Exchange
 - Just in time
- Swift
 - Big amounts
- Clients
 - Home banking
 - Web-banking
 - ATM
 - Credit request and control



Some specific sector risks (IST related)

- Phishing
 - Bank accounts capture, password retrieval
 - Solution : complex identification methods
- Spam
 - General email-address, decrease productivity of employees
- Canada dry
 - It looks like an official site but... is not a bank site
- Web site defacement
- Cryptography and non-repudiation



Future needs

- Growing size of Europe
- Position of the Euro
- Standardization view
 - Initiative of the ISO regarding risk management in 27005 and 25700
- Interoperability debit and credit cards
- Need to develop
 - Standard
 - Method
 - Processes
 - Procedures



Future requirements

- Compliance to all local laws and regulations (+ EU laws)
- Incorporation of Turkey, Romania, Bulgaria, etc.)
- USA (or other) wishes
- Stock Exchange
- Impact of outsourcing or co-sourcing
- Where are the financial and privacy data's?
- Integration with e-id , different cards and chips
- Dematerialization of money
- Money without frontiers



Future solutions

- Contact with external organization and supporting initiatives to be sure to remain aligned with sector specificities
- Cooperation between bank as well on local level than on European level (ECBS)
- Implement solution and good practice like those in ISO/IEC IS 17799:2005 (27002)
- Interoperability, common language
- Biometrics, cryptography
- Specific Bank sector ISO standards (ISO/TC68 , ISO/IEC/JTC1/SC27 , ...)



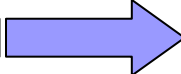
Relevant web sites

- Basel II <http://www.bis.org/publ/bcbsca03.pdf>
- Sox <http://www.legalarchiver.org/soa.htm>
- ISO/IEC/JTC1/JSC27 : www.din.de/sc27
- ISO/TC68 : www.iso.org/tc68.
- ENISA www.enisa.eu.int/rmra ...
- Code Lippens (Belgian corporate governance (9 December 2004))
http://www.corporategovernancecommittee.be/library/documents/final%20code/CorpGov_FR5.pdf
- Luxemburg (CSSF): <http://www.cssf.lu/index.php?id=22>
- France : http://www.amf-france.org/documents/general/6896_1.pdf
- Netherlands : Tabaksblat (9 December 2003)
- ECB : www.ecb.int

Thank You for your attention



Q & A

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