IBM Data Governance Council

Security & Privacy: Data Governance

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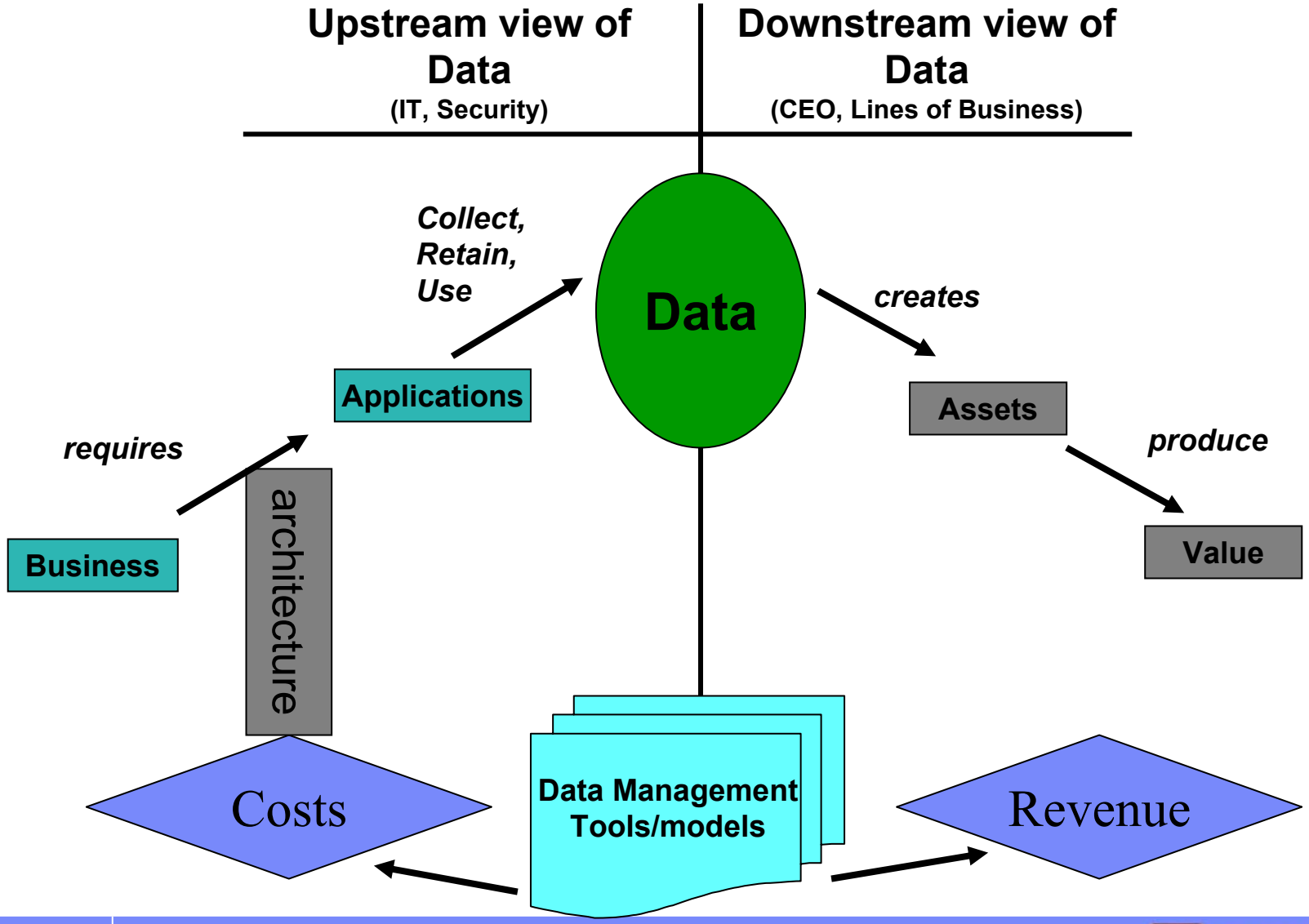
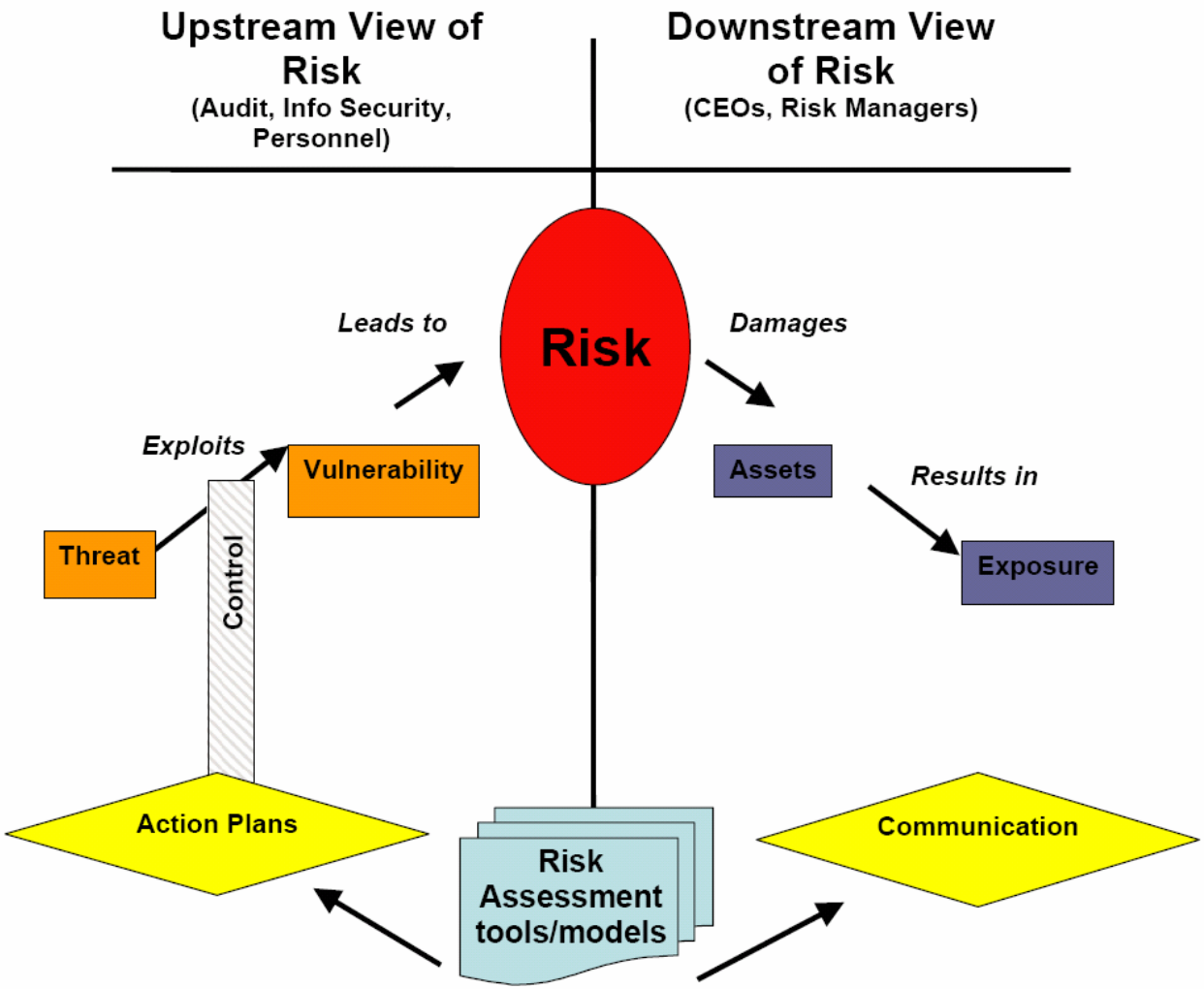
Why Data Governance?

- **(Corporate) Governance is about controlling human self-interest to benefit the common good:**
  - Increased Revenue
  - Lower Costs
  - Reduced Risk
- **IT has become an engine for business growth and it must be governed to achieve the same objectives.**
- **To govern Data effectively, the value of Data must be assessed, Risk calculated, control measured.**

Semantic issues continue to challenge organizations

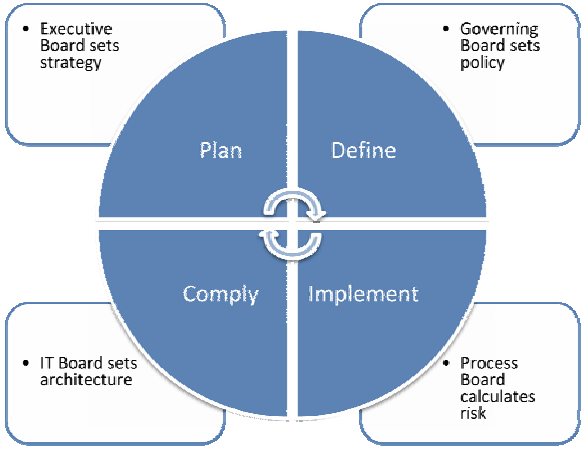


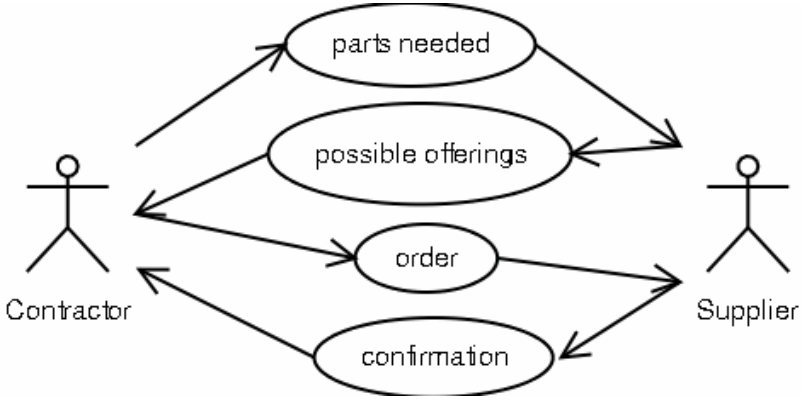
Different approaches to risk increase exposure



Data Governance Issues

- **What does our "government" look like?**
  - Who is responsible for governing?
- **What policies are in place?**
  - Who writes policies
  - How do they get approved/changed?
- **Which Information should we worry about?**
  - Where is all the data?
  - How much is the data worth?
- **What are our vulnerabilities?**
  - How do we classify risks?
  - Which risks do we accept, mitigate, transfer?
- **What controls are in place?**
  - Who pays for the controls?
  - Where do we put the controls?
- **How do we measure progress?**
  - What do audits tell us?
  - Who gets that information?
- **What are the best practices?**
  - What is our Maturity Model?





Founded in 2004, The IBM Data Governance Council studies these challenges and develops solutions

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Citigroup	Northwestern Mutual		
City of New York, FISA	TIAA-CREF		
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The Data Governance Council is work to build a Maturity Model to benchmark current practices

- **The categories define the scope of Data Governance**
- **Data Governance is a Quality Control Discipline**
- **Organizational Behavior is the Challenge**
- **The Maturity Model helps your organization define your own current and desired maturity**

	Category	Description
1	Organizational Awareness	Describes the level of mutual responsibility betwee Business and IT, and recognition of the fiducia responsibility to govern data at different levels c management.
2	Stewardship	Stewardship is a quality control discipline designed t ensure custodial care of data for both asset enhancemen risk mitigation, and organizational control.
3	Policy	Policy is the written articulation of desired organizationa behavior.
4	Value Creation	The process by which data assets are qualified an quantified to enable the business to maximize the valu created by data assets.
5	Risk Management	The methodology by which risks are identified, qualifiec quantified, avoided, accepted, mitigated, or transferred out.
6	Security / Privacy / Compliance	Describes the policies, practices and controls used by a organization to mitigate risk and protect data assets.
7	Data Architecture	The architectural design of structured and unstructured dat systems and applications that enable data availability an distribution to appropriate users.
8	Data Quality	Methods to measure, improve, and certify the quality an integrity of production, test, and archival data.
9	Business Glossary / Metadata	The methods and tools used to create common semanti definitions for business and IT terms, data models, types and repositories. Metadata that bridge human and compute understanding.
10	Information Lifecycle Management	A systemic policy-based approach to information collectior use, retention, and deletion.
11	Audit & Reporting	The organizational processes for monitoring and measurin the Data value, risks, and efficacy of Governance.

Things you can do today to Govern Data effectively:

1. **Make someone(s) accountable**
2. **Assess your situation**
3. **Inventory your data assets**
4. **Aggregate and quantify your risks**
5. **Evaluate your policies and controls**
6. **Measure your progress every day**

Questions

Security & Privacy Panel

- **Chairman / moderator: Steven Adler** Program Director, IBM Data Governance Solutions, USA

- **Robert Flaim,** Supervisory Special Agent, Special Technologies Section, US department of justice, FBI, USA
- **Laurent Szuskin**, Partner, Latham & Watkins
- **Thomas Andersson,** President Jönköping University & President of the Board IKED - International Organisation for Knowledge Economy and Enterprise Development, Sweden
- **William Sloan Coats**, Partner, White & Case LLP
- **Peter M. Friess,** Project Officer, ICT for Enterprise Networking, DG Information Society and Media, European Commission
- **Robert Garigue**, Vice President for Information Integrity and Security, Bell Canada
- **Susan Landau,** Distinguished Engineer, Sun Microsystems
- **Fabrice Mattatia**, French Ministry of Interior
- **Dirk Van Rooy,** Principal Scientific Officer, DG Information Society and Media, European Commission
- **Clifford Larsen**, Dean for the Master of Law and Business Program, Bucerius Law School, Germany
- **Michael R Nelson**, Director, Internet Technology and Strategy, IBM

Robert Flaim, Supervisory Special Agent, Special Technologies Section, US department of justice, FBI, USA

- **Robert Flaim is a Supervisory Special Agent for the Federal Bureau of Investigation (FBI). Currently, Special Agent Flaim works as a program manager in the Office of Special Technology which is part of the FBI's newly formed Science and Technology Office. Special Agent Flaim focuses on assisting all FBI field offices in analyzing digital data for law enforcement purposes. In addition, he has worked on several public policy issues critical to the international law enforcement community, such as the DNS WHOIS, DNSSEC, and fostering cooperation between public and private IT entitites. Special Agent Flaim joined the FBI in 1997 and has worked on cyber, counter terrorism and white collar investigations.**

Laurent Szuskin

Partner , Latham & Watkins, Information and Communication Technologies -

- **Laurent Szuskin is a partner in the Paris office of global law firm Latham & Watkins. He is particularly active in the fields of computer, software, database, telecom, multimedia, and Internet (including cross- border) transactions (such as R&D, manufacturing, licensing, maintenance, systems integration, facilities management, e-commerce, PKI, (multi)media co-production, distribution and other agreements). He also advises clients in relation to computer and IT-related litigation and regulatory matters such as encryption, personal data, telecommunication and audiovisual issues and formalities. His clients include large, as well as emerging, American and European companies.**

Thomas Andersson, President Jönköping University & President of the Board IKED - International Organisation for Knowledge Economy and Enterprise Development, Sweden

- **Thomas Andersson is president of Jönköping University and chairman of the board for the International Organisation for Knowledge Economy and Enterprise Development (IKED). He is vice president of the International Network for Small and Medium-Sized Enterprises (INSME), serves on the Steering Committee of the Global Forum, and is a member of the board of SPIDER (Swedish Program for ICT in Developing Regions) and of the International Advisory Committee of the Competitiveness Institute. He further serves as convenor for the sub-theme "Empowering Local Community in the Use of ICT" for the ASEM ICT Ministerial on Applications of ICT in Human Resource Development and Capacity Building, to take place in Vietnam November 30th – December 1st 2006.**

William Sloan Coats, Partner, White & Case LLP

- **Bill Coats, an Intellectual Property partner in White & Case's Silicon Valley office, focuses his practice on cases involving software copyrights, patents, trademark and trade secret disputes for the software, electronics and movie industries, and bankruptcy issues. Mr. Coats serves as Executive Partner in charge of the office.**
- **Mr. Coats represents leading business, computer, and entertainment hardware and software companies in complex intellectual property matters. Some of his clients include Pioneer Corporation; Aztech Systems, Ltd.; Avid Technology; BBC Technology; In-Three; Digidesign; Lucasfilm, Ltd., Lucasfilm Entertainment company and its various divisions including LucasArts and Lucas Digital (Industrial Light & Magic and Skywalker Sound); and Mesa Boogie.**

Peter M. Friess, **Project Officer, ICT for Enterprise Networking, DG Information Society and Media, European Commission**

- **Peter Friess is responsible for the management of major European research projects for improved enterprise communication and RFID. In parallel, he is active member of the European Commission Task Force on RFID with focus on applications including security and privacy aspects. Prior to his present activities, he worked as senior e-business consultant for large companies, as IT-manager in the semiconductor industry and as researcher for business reengineering. He graduated in aerospace technology and holds a Ph.D. in engineering.**

Robert Garigue, Vice President for Information Integrity and Security, Bell Canada

- **BCE /Bell Canada is Canada's largest communications company. It has 25 million customer connections. It is a leader in communications and provides connectivity to residential and business customers through wired and wireless voice and data communications, local and long distance phone services, high speed and wireless Internet access, IP-broadband services, e-business solutions and direct-to-home satellite service.**
- **Prior to his present position as Vice President for Information Integrity and Chief Security Executive for Bell Canada, Dr Garigue was the Chief Information Security Officer for the Bank of Montreal. During his tenure where he ensured the integrity of the technology infrastructure and customer and organizational informational assets. He held this position for six years and was instrumental in the creation of several information security governance best practices.**

Susan Landau, Distinguished Engineer, Sun Microsystems

- **Susan Landau is a Distinguished Engineer at Sun Microsystems Laboratories, where she works on security, cryptography, and policy, including digital-rights management and surveillance issues. Landau had previously been a faculty member at the University of Massachusetts and Wesleyan University, where she worked in algebraic algorithms. She is coauthor, with Whitfield Diffie, of ``Privacy on the Line: the Politics of Wiretapping and Encryption'' (MIT Press, 1998).**
- **She is a member of the National Institute of Standards and Technology's Information Security and Privacy Advisory Board, a member of the editorial board of IEEE Security and Privacy, and she moderates the ``researchers'' list, an international mailing list for women computer science researchers. Landau is an AAAS Fellow. She received her BA from Princeton, her MS from Cornell, and her PhD from MIT.**

Fabrice Mattatia, French Ministry of Interior

- Fabrice Mattatia is a graduate of Ecole Polytechnique and of Ecole Nationale Supérieure des Télécommunications (Paris).

- He began his professional career at the Ministry of Interior in France, managing the radio frequency spectrum and supervising the engineering of the radio mobile networks for the security forces. He joined in 1999 the GIP CPS, a public sector society devoted to the development and promotion of the electronic Health Professional Card, which is a smart card designed for the securization of digital connections in the health sector. Since 2004, he works at the Ministry of Interior on identity fraud and on the new electronic ID cards systems, which will support digital authentication and digital signature.

- Fabrice pays special attention to the security problems in the digital world, to the threats to privacy that can occur with the use of IT, and to the user-friendliness of the systems.

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Dirk Van Rooy, Principal Scientific Officer, DG Information Society and Media, European Commission

- **Dirk van Rooy has worked for the European Commission since 1993, in the Directorate-General Information Society and Media (and its predecessors). He is Principal Scientific Officer and his main area of work is the management of research programs in ICT for trust and security, focusing on technologies for applications, including privacy enhancing technologies, identity management, trusted computing and biometrics. Other areas of work have included open source software and the application of information technology to transport and environmental control.**
- **Prior to joining the Commission, Dirk van Rooy worked in the software industry in international companies. Dirk van Rooy holds a Ph.D. from the Technical University of Denmark, where he worked on stochastic simulation models.**

Clifford Larsen, Dean for the Master of Law and Business Program, Bucerius Law School, Germany

- **As of April 1st, 2006, Clifford Larsen is UBS Professor of Law at the Bucerius Law School and the new Dean for the Master of Law and Business program. He is responsible for the legal curriculum of the Master's Program. Professor Larsen studied at Tulane University. Before graduating from Tulane in 1980, Professor Larsen studied as a Visiting Scholar at Princeton University and as a Rotary Ambassadorial Scholar for one year at the Universität Hamburg. During his studies at Tulane University School of Law, he was chosen for a Cecil Rhodes Scholarship for three years of study at Oxford University.**

  After completing his Master's Degree there, Professor Larsen completed his law studies at the University of Virginia. After graduation and becoming a member of both the New York and Louisiana bars, his interest in international and comparative law led him to practice at the New York office of White & Case. In 1991, he moved to S.G. Archibald, a long-established Paris firm. During his work in Paris, he was admitted to French practice as avocat à la cour de Paris. He also began teaching part-time, both in summer programs for U.S. law schools and at the Université de Paris X (Nanterre).

Michael R Nelson, Director, Internet Technology and Strategy, IBM

- **As Director of Internet Technology and Strategy at IBM, Mike Nelson manages a team helping define and implement IBM's Next Generation Internet strategy. His group is working with university researchers on NGi technology, shaping standards for the NGi, and communicating IBM's vision of NGi, the Grid, and on demand computing to customers, policy makers, the press, and the general public. He chaired the Internet Society's annual INET2002 meeting and in 2003 was selected as the Society's Vice President for Public Policy. In that role, he attended the UN's World Summit on the Information Society in Geneva in 2003 and has been very involved in the second phase of WSIS in Tunis in November. Nelson also serves on the Industry Strategy Council of the Internet2 research consortium and served for two years as Chairman of the Board of Directors for the Telecommunications Policy Research Conference.**
- **Prior to joining IBM in July, 1998, Nelson was Director for Technology Policy at the Federal Communications Commission. There he helped craft policies to foster electronic commerce, spur development and deployment of new technologies, and improve the reliability and security of the nation's telecommunications networks.**
- **Before joining the FCC in January, 1997, Nelson was Special Assistant for Information Technology at the White House Office of Science and Technology Policy where he worked with Vice President Gore and the President's Science Advisor on issues relating to the Global Information Infrastructure, including telecommunications policy, information technology, encryption, electronic commerce, and information policy.**