



Total Information Risk Management: Maximizing the Value of Data and Information Assets

By Alexander Borek, Ajith Kumar Parlikad, Jela Webb, Philip Woodall

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Many talk about the unlimited opportunities of data and information assets. But, bad data and information can also severely hurt your business and create considerable risk. Managing risk is a new angle to selling data quality projects to upper managers who do not want to take the time to learn about the value of data quality.

Total Information Risk Management provides you with a step by step process to identify, quantify and mitigate the risks arising from poor data and information assets. It is based on novel research from the Distributed Information and Automation Laboratory at the University of Cambridge and has been proven to be successful across many different industries.

In particular, this book shows data managers and IT professionals how to:

- Complete a convincing business case for any data quality, data governance, Big Data, EIM, business intelligence, business analytics and IT projects
- Develop a clear link between data quality and your organization's business objectives
- Identify data quality "pain points" that have the highest impact on your organization's success
- Get stronger "buy-in" from senior executives for data quality improvement
- Manage data and information assets for business value in your organization

This book provides you with all the fundamental concepts, guidelines and tools to ensure core business information is identified, protected and used effectively, and written in a language that is clear and easy to understand for non-technical managers.

- Shows how to manage information risk using a holistic approach by examining data and information assets from all sources
- Offers varied perspectives of an author team that brings together academics,

practitioners and researchers (both technical and managerial) to provide a comprehensive guide

- Provides real-life case studies with practical insight into the management of information risk and offers a basis for broader discussion among managers and practitioners

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Editorial Review

Review

"TIRM brings a transformation in the way companies would start treating their data and information assets going forward -- seriously and more responsibly."

Piyush Malik, Worldwide Big Data Analytics Center of Excellence Leader, IBM Global Services

"While many proclaim that data and information are key assets, few know how to put that idea into action. This book combines the well-established discipline of risk management with the relatively newer discipline of data management. (...) Readers will be able to assess information risk and, most importantly, be able to take action to manage that risk. Thorough, understandable, actionable. Use TIRM to create tangible business value."

Danette McGilvray, President, Granite Falls Consulting Inc., Recognized Data Governance and Data Quality Thought Leader

"Most organizations have an often-overlooked sweet spot, where risk management and information quality intersect and combine to significantly reduce risk and improve business performance. In this breakthrough book, Alexander Borek leads us there."

C. Lwanga Yonke, Information Quality Practitioner

"When writing about information and data quality, most authors have focused on assessment and improvement. Approaching information quality from the perspective of risk management is a great contribution to the field because it helps to broaden and deepen the conversation in a way that address information quality value and business impact in a quantifiable way. Both IT professionals and business managers will benefit from reading this book."

Professor John R. Talburt, Graduate Coordinator for the Information Quality Graduate Program, University of Arkansas at Little Rock

"A perennial problem facing data quality practitioners has always been how to demonstrate data quality risk to business drivers that stakeholders care deeply about. The TIRM process has helped the profession take a big leap forward in resolving this challenge and the team responsible for TIRM should be commended for their innovation."

Dylan Jones, Founder and Community Leader, Dataqualitypro.com

"Total Information Risk Management (TIRM) is a formal process devised by the four authors of this book. It is intended to provide a degree of assurance for data and to help preserve its confidentiality and integrity... Overall the book, and the process that it describes, offer a comprehensive and potentially effective system for protecting data,..." Score: 7 out of 10--BCS.org, June 2014 "As a book clearly targeted at users who might hopefully adopt TIRM, the discussion is pragmatic and clearly intended to provide resources not

only for the implementation of TRIM, but also to assist the technical staff in presenting a business case for using TIRM within an organization. Even if TIRM is not implemented, the questions and issues raised in the book provide a good framework for a broader discussion of the role of information in most organizations."--**ComputingReviews.com, February 26, 2014** *"In today's information-centric world identifying and mitigating the risk of your data and information assets is fast becoming a necessity instead of a luxury. Take the time to read **Total Information Risk Management** and you'll be better prepared to measure the impact of gains in data quality and information insight in your organization."*--**Data and Technology Today online, November 27, 2013**

About the Author

Dr. Alexander Borek is the inventor of Total Information Risk Management and the leading expert on how to apply risk management principles to data management. Dr. Borek is a frequent speaker at international information management conferences and author of many research articles covering a range of topics, including EIM, data quality, crowd sourcing and IT business value.

In his current role at IBM, Dr. Borek applies data analytics to drive IBM's world-wide corporate strategy. Previously, he led a team at the University of Cambridge to develop the TIRM process and test it in a number of different industries. He holds a Ph.D. in Engineering from the University of Cambridge.

Dr Ajith Kumar Parlikad is a Senior Lecturer in Industrial Systems at the University of Cambridge. Ajith leads research activities on engineering asset management and maintenance. His particular focus is examining how asset information can be used to improve asset performance through effective decision-making. Ajith is an editor of the International Journal of Information Quality and has published over 60 papers in reputed academic journals and conferences. He actively engages with industry through research and consulting projects. He is a member of The Institution of Engineering and Technology (IET) Technical Professional Network Committee on Asset Management and sits on the judging panel for the IET Innovation Awards in Asset Management.

Jela Webb is a Senior Lecturer at the University of Brighton; her specialty is Information and Knowledge Management. She first became interested in this discipline, in the 1990's while researching her MBA examining teamwork in organizations. She subsequently formed her own management consultancy offering strategic advisory services in this emerging field and has consulted with organizations in a variety of sectors both in the UK and abroad. She was one of the first people in Europe to be awarded an MSc in Information and Knowledge Management, completing her studies in 2002. In addition to writing articles and reports on IKM and related topics for various publications she is the author of 'Strategic Information Management' published by Chandos Publishing (Oxford) Ltd in 2008. She has presented at conferences and facilitated discussions forums on the implementation of IKM programs. She has also been involved in research programs focusing on skills development for the 'new economy'.

Dr Philip Woodall is a research scientist at the University of Cambridge specializing in information management. He has extensive experience working with international public and private organizations from various sectors, including transport, utilities, defense, public sector, manufacturing, and aerospace, to improve their information management and information quality practices.

He has published numerous academic articles in leading international journals and conferences, and is an editor of The International Journal of Information Quality. In 2011, he was elected as the Chairman the IET Asset Management conference in London, after having worked on information quality with several asset management organizations. Philip also advises the UK government and leading business organizations on data management issues within the University of Cambridge Centre for Science and Policy, and is a proud

member of St Edmund's College, Cambridge.

Previously, he worked in the software industry and gained his Ph.D. in Computer Science from Keele University.

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