Association for Information Systems AIS Electronic Library (AISeL)

All Sprouts Content Sprouts

4-10-2008

Data and Reality: A Plea for Management Realism and Data Modesty

Rik Maes University of Amsterdam, maestro@uva.nl

Follow this and additional works at: http://aisel.aisnet.org/sprouts all

Recommended Citation

Maes, Rik, "Data and Reality: A Plea for Management Realism and Data Modesty" (2008). *All Sprouts Content.* 90. http://aisel.aisnet.org/sprouts_all/90

This material is brought to you by the Sprouts at AIS Electronic Library (AISeL). It has been accepted for inclusion in All Sprouts Content by an authorized administrator of AIS Electronic Library (AISeL). For more information, please contact elibrary@aisnet.org.

Data and Reality: A Plea for Management Realism and Data **Modesty**

Rik Maes

University of Amsterdam, The Netherlands

Abstract

Recently, an old yet wonderful book came to my notice: Data and Reality. After all, too many systems developers and other standardizing do-gooders gladly forget the wise words of its author, Bill Kent: "The questions aren't so much about how we process data as about how we perceive reality, about the constructs and tactics we use to cope with complexity, ambiguity, incomplete information, mismatched viewpoints, and conflicting objectives." A reflective account on Kent's (1978) "Data and Reality."

Keywords: Data, Realism, Knowledge

Permanent URL: http://sprouts.aisnet.org/5-4

Copyright: Creative Commons Attribution-Noncommercial-No Derivative Works License

Reference: Maes, R. (2005). "Data and Reality: A Plea for Management Realism and Data Modesty," University of Amsterdam, Netherlands . Sprouts: Working Papers on Information Systems, 5(4). http://sprouts.aisnet.org/5-4

Data and reality: a plea for management realism and data modesty

Rik Maes Universiteit van Amsterdam maestro@uva.nl

Recently, an old yet wonderful book came to my notice: Data and Realityⁱ. After all, too many systems developers and other standardizing do-gooders gladly forget the wise words of its author, Bill Kent: "The questions aren't so much about how we process data as about how we perceive reality, about the constructs and tactics we use to cope with complexity, ambiguity, incomplete information, mismatched viewpoints, and conflicting objectives".

The world view of these IS people is quite often straightforward and one-dimensional: data are supposed to be interpretation-free representations of reality, we get information if we add interpretation to these data, information in the head of people means knowledge and knowledge is the first step towards wisdom. Hundreds, if not thousands of textbooks on information systems have been filled with this type of repeated claptrap: data as the source of wisdom!

In this world view, information is reduced to so-called objective facts, thereby forgetting that these data are merely representations of reality conceived by other people, primarily the systems developers, than by the people who are supposed to re-interpret these data, regularly the managers. One easily overlooks that imagination is the go-between linking reality and representation: any representation is biased and abstracted from reality; managers above all relying on computer data are hardcore devotees of abstract art!

The same detached vision and belief are often encountered in the world of knowledge management. Knowledge, in this conception, is nothing but a marketable asset supported by myriads of systems, knowledge bases, business intelligence software and other ITbased artefacts. Typically, management is reduced to decision making based on representations of representations: the "spreadsheet manager", no more balanced than his score card, considers his model of reality as reality itself, instead of considering it as a model for reality.

One would believe that, almost three decades after Kent's original publication, one is aware of this pitfall. Quite the contrary is true: the recent recession of western economy has given birth to a whole breed of calculating managers eagerly engaging in a tacit conspiracy with pigheaded IS missionaries. Management control is their belief, outsourcing of IT their sedative, standardization via megalomaniac ERP implementations their preferred tool and continuous improvement their wildest dream. In these organizations, IT has become an instrument of control instead of a permanent motor of innovation.

2

Is there an alternative? Reality itself is. In real life, information is not something we receive from outside, but meaning we assign ourselves to our observations of the world-asit-is. Maturana and Varela have proven that the ability to assign meaning is an inherent attribute of any non-trivial system; evil-minded people pretend that this is simultaneously the very proof of the triviality of detached "spreadsheet managers". Information is about interpretation, not about representation; it is intrinsically contextual and interpretative and so are data as solidified information. Ultimately, information is not in the transformation of data, but in our continuously adapted understanding of the real world: "We do not need more data; we need a more primordial understanding, more thinking" (Intronaⁱⁱⁱ, p. 179). This understanding is, by definition, dealing with the full complexity, ambiguity, incompleteness and other "annoying" features of reality Bill Kent was referring to as the true issues of information processing.

Knowledge based on this reading of information, has nothing to do with the mechanistic world view as expressed in the technical knowledge management literature. Knowledge is not an asset, yet insight. Adjusting this insight is not a purely intellectual exercise, but equally implicates emotional involvement. Confusion and astonishment, curses in the church of the detached manager, are in fact useful mechanisms for enriching our insight. Insight is the result of our full being-in-the-world.

Involved management, amplifying the variability of the organisation, is the only success strategy in a world becoming more and more convoluted. Paradoxically, organisations facing increasing external and internal complexity tend to fall back to more complex management information systems instead of to more managerial involvement. These systems add to the further separation of thinking and doing: their complexity is a measure for the distance a manager has to reality. After all, "the ultimate success of management information systems is not in the sophistication of the representational system, the computerized information system, but in the manager's involvement in the world. There is no way to substitute representation for involvement" (Introna, p. 169).

Organisations are impatiently in search of a new identity in an accelerating world. They are operating in an environment where their customers know more about them then they do themselves, no matter how sophisticated their information systems are. They desperately need involved managers really understanding the world instead of blaming their failing information systems. Paraphrasing Karl Weick in Boland and Collopy^{iv}, these managers tend to remember the things seen and the things felt, rather than the name of these things. In the end, managing is sense making. Aren't we all managers?

ⁱ W. Kent, *Data and Reality*, North Holland, 1978 (reprinted by 1st Books, 1998).

ii H. Maturana & F. Varela, *TheTree of Knowledge*, Shambala, 1992.

iii L. Introna, Management, Information and Power, MacMillan, 1997.

iv R.J. Boland Jr & F. Collopy (eds.), *Managing as designing*, Stanford Business Books, 2004.

芽|Sprouts

芽|Sprouts

Working Papers on Information Systems | ISSN 1535-6078

Editors:

Michel Avital, University of Amsterdam Kevin Crowston, Syracuse University

Advisory Board:

Kalle Lyytinen, Case Western Reserve University Roger Clarke, Australian National University Sue Conger, University of Dallas Marco De Marco, Universita' Cattolica di Milano Guy Fitzgerald, Brunel University Rudy Hirschheim, Louisiana State University Blake Ives, University of Houston Sirkka Jarvenpaa, University of Texas at Austin John King, University of Michigan Rik Maes, University of Amsterdam Dan Robey, Georgia State University Frantz Rowe, University of Nantes Detmar Straub, Georgia State University Richard T. Watson, University of Georgia Ron Weber, Monash University Kwok Kee Wei, City University of Hong Kong

Sponsors: Association for Information Systems (AIS) AIM itAIS Addis Ababa University, Ethiopia American University, USA Case Western Reserve University, USA City University of Hong Kong, China Copenhagen Business School, Denmark Hanken School of Economics, Finland Helsinki School of Economics, Finland Indiana University, USA Katholieke Universiteit Leuven, Belgium Lancaster University, UK Leeds Metropolitan University, UK National University of Ireland Galway, Ireland New York University, USA Pennsylvania State University, USA Pepperdine University, USA Syracuse University, USA University of Amsterdam, Netherlands

University of Dallas, USA University of Georgia, USA

Viktoria Institute, Sweden

University of Groningen, Netherlands University of Limerick, Ireland University of Oslo, Norway University of San Francisco, USA University of Washington, USA

Victoria University of Wellington, New Zealand

Editorial Board:

Margunn Aanestad, University of Oslo Steven Alter, University of San Francisco Egon Berghout, University of Groningen Bo-Christer Bjork, Hanken School of Economics Tony Bryant, Leeds Metropolitan University Erran Carmel, American University Kieran Conboy, National U. of Ireland Galway Jan Damsgaard, Copenhagen Business School Robert Davison, City University of Hong Kong Guido Dedene, Katholieke Universiteit Leuven Alan Dennis, Indiana University Brian Fitzgerald, University of Limerick Ole Hanseth, University of Oslo Ola Henfridsson, Viktoria Institute Sid Huff, Victoria University of Wellington Ard Huizing, University of Amsterdam Lucas Introna, Lancaster University Panos Ipeirotis, New York University Robert Mason, University of Washington John Mooney, Pepperdine University Steve Sawyer, Pennsylvania State University Virpi Tuunainen, Helsinki School of Economics Francesco Virili, Universita' degli Studi di Cassino

Managing Editor: Bas Smit, University of Amsterdam

Office:

Sprouts University of Amsterdam Roetersstraat 11, Room E 2.74 1018 WB Amsterdam, Netherlands Email: admin@sprouts.aisnet.org