

# MSc International Business – Information Management & Business Intelligence (IMBI)

Dr. Mark Vluggen



Dr. Mark Vluggen (track coordinator)

Senior lecturer information management

Director of bachelor programmes at SBE

Vice-chair department AIM

E-mail: [m.vluggen@maastrichtuniversity.nl](mailto:m.vluggen@maastrichtuniversity.nl)



## Education

Master: Cases in MIS (EBC4038)

Postgraduate: EMFC (Maastricht), EMMA (Paramaribo, Suriname)

## Research

Enterprise resource planning (ERP), Online reviews, Technology Acceptance

Member editorial board International Journal of Accounting Information Systems

Track co-chair at European Conference on Information Systems

# Information Technology as a Fashion

- Enterprise resource planning
- Data warehousing
- Social media
- Cloud computing
- Green computing
- Big data & Data analytics
- The Internet of Things
- Blockchain technology

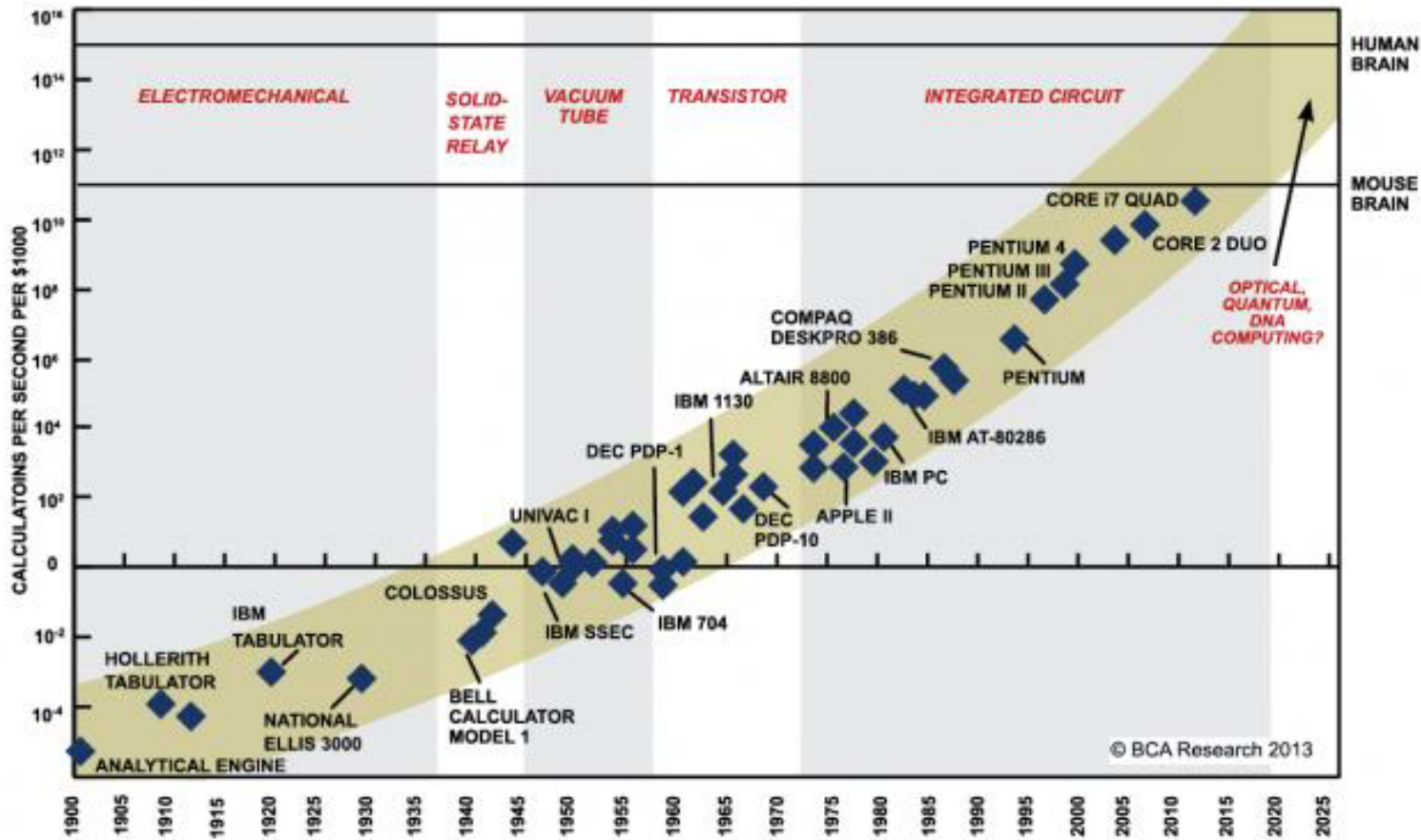
# Blockchain in the media



# IT Predictions

- “I think there is a world market for maybe five computers.” (Thomas Watson, chairman of IBM, 1943)
- “There is no reason anyone would want a computer in their home.” (Ken Olson, founder of Digital Equipment Corp., 1977)
- “I predict the Internet will soon go spectacularly supernova and in 1996 catastrophically collapse.” (Robert Metcalfe, founder of 3Com, 1995).
- “I see little commercial potential for the Internet for at least ten years.” (Bill Gates, founder of Microsoft, 1994)

# Moore's Law



SOURCE: RAY KURZWEIL, "THE SINGULARITY IS NEAR: WHEN HUMANS TRANSCEND BIOLOGY", P.67, THE VIKING PRESS, 2006. DATAPPOINTS BETWEEN 2000 AND 2012 REPRESENT BCA ESTIMATES.

# Mainframe (80's) versus smartphone



# Ease of Use

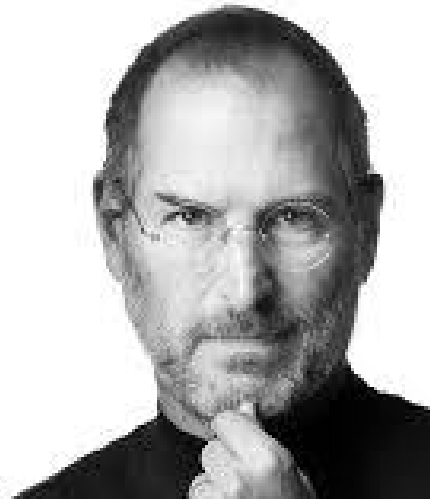
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C:\>DIR C:\DOS\M*.EXE
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# IT and Business: A Problematic Relationship



# Some Geeks



# Get Involved... or accept the consequences

- IT investments not aligned with business strategy
- Prioritisation of IT projects missing
- Lack of standardisation in IT-applications
- No return on IT investments
- 'Blaming & shaming'

# Why should you choose Information Management & Business Intelligence?

- Business today cannot function efficiently and effectively without information systems
- Business today needs efficient and fully automated decision making tools
- There are unlimited possibilities for information systems & data analytics in organisations

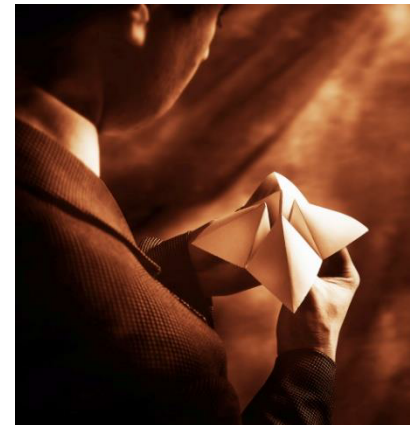
# Information Management vs Computer Science

	IM	CS
Focus	Organisation	Software
Objective	More efficient or effective business	Reliable computer program
Core Task	Determine business requirements for information systems	Deliver information systems to meet defined requirements
Theoretical vs. Applied	Balanced	Applied
Typical Starting Job Title	Business Systems Analyst	Application Programmer
University Home	Business Schools	Science College, Technical Universities

# From information to business solutions

- Internet & Clouds
- ERP/MRP
- Review systems
- Social & professional networks

Distilled information



Business Intelligence



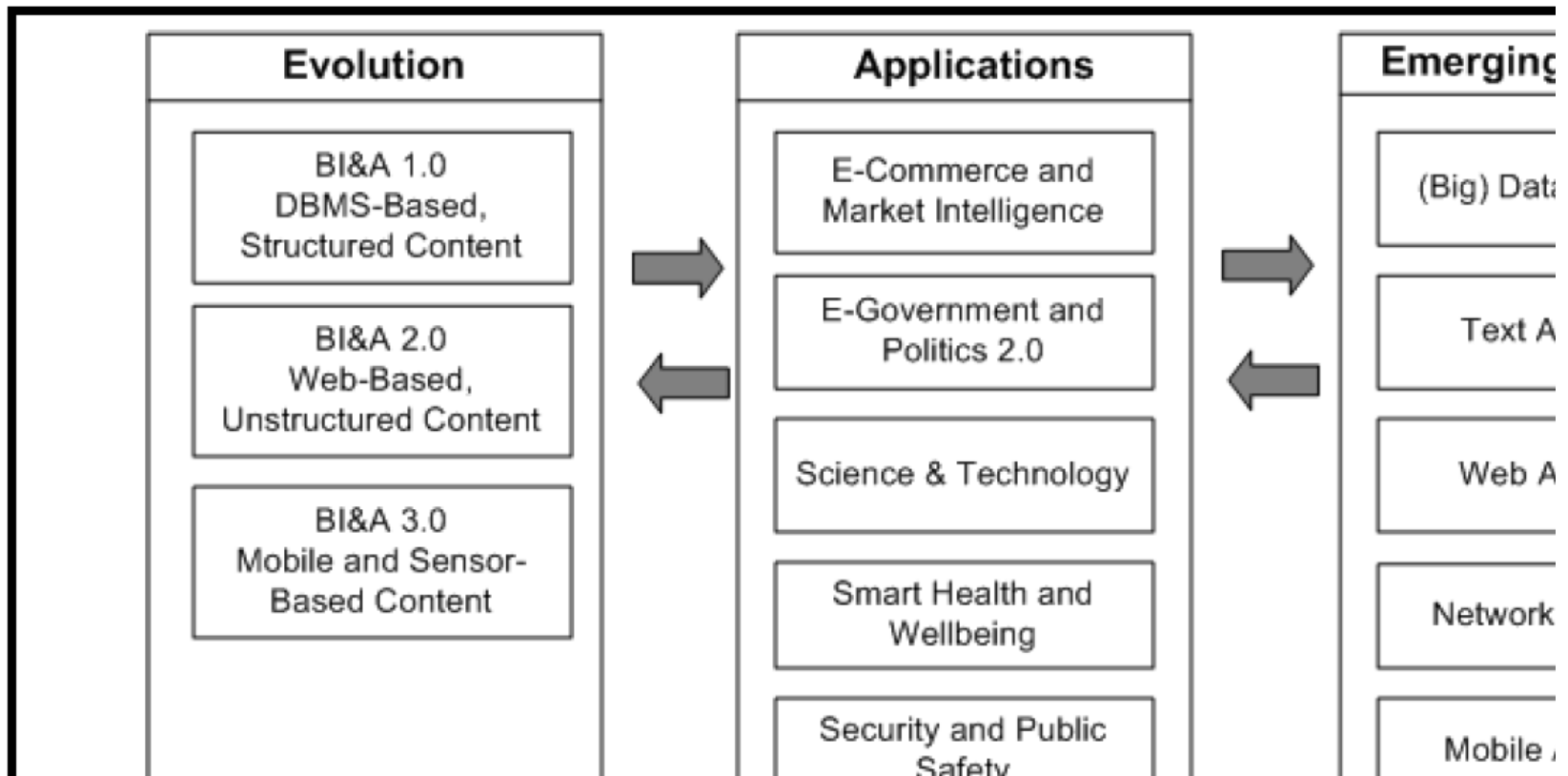
Business solution



# Information Management

- The Cost of IT: Managing an IT Budget
- The Value of IT: How to Measure It?
- Setting Investment Priorities
  - Innovation: Emerging Technologies (e.g. internet of things, cloud computing, gamification)
- Project management
  - Change management issues
  - The Runaway Project
- Vendor Partnering (e.g. cloud computing, outsourcing)
- Managing Outsourcing Contracts
- Managing the Applications Portfolio

# & ... Business Intelligence





# What is the specialisation structure? (1)

Block	IB/IMBI	
1	Cases in Management Information Systems	Business Analysis
2	Data Management	Business Intelligence Case Study
3	Skills Training: Writing a Master's Thesis	

# What is the specialisation structure? (2)

Block	IB/IMBI	
4	IT Project Management	Writing the Master's Thesis
5	Managing ICT in a Global Environment	
6	Completing the Master's Thesis	

NB. The details of this specialisation could change; before applying, please check [www.maastrichtuniversity.nl/sbe](http://www.maastrichtuniversity.nl/sbe) for the latest information.

# Cases in Management Information Systems

- Discuss how businesses can use information systems to improve their performance
- Use company cases and academic literature

Block	IB/IMBI	
1	Cases in Management Information Systems	

# Business Analysis

- Learn modern forecasting techniques and the basics of time series analysis
- Learn how to turn a business problems into a mathematical model and how to solve the model using available software

Block	IB/IMBI	
1		Business Analysis

# Data Management

- Data Modelling and SQL
- Relational databases (first part of the course)
- New developments (e.g. Hadoop, MapReduce, second half of the course)
- Gain hands-on skills plus theoretical background

Block

IB/IMBI

2

Data Management

# Business Intelligence Case Study

- Learn how to tackle real-life business problems, e.g.,
  - Capacity planning in a hospital
  - Implementing quality control in a hotel
  - Customer segmentation at a bank
  - etc

Block	IB/IMBI	
2		Business Intelligence Case Study

# Writing a Master's Thesis

- Understand the basic requirements of a master's thesis
- Develop a high quality research proposal for a master's thesis
- Apply for thesis supervision

Block	IB/IMBI
3	Skills Training: Writing a Master's Thesis

# IT Project Management

- Learn all aspects of managing IT projects
- Integral to every IT related job

Block

IB/IMBI

4

IT Project  
Management



# Managing ICT in a Global Environment

- Prepares for a globalised IT world
- Global outsourcing
- Cross-cultural issues in IS
- Coordination and control of international IT operations

Block

IB/IMBI

5

Managing ICT in a  
Global Environment

# Master's Thesis

- In-depth study of an IM/BI problem
  - Academic relevance
  - Managerial relevance
  - Case study/internship possibilities
- Scientific study

Block	IB/IMBI	
4		Writing the Master's Thesis
5		
6	Completing the Master's Thesis	

# Is IB/IMBI right for you?

- Have an affinity for quantitative reasoning, IT and its potential for organisations
- Be able to think in a logical and structured way
- Have the desire to study and work in an international environment
- Programming / technical / sophisticated mathematical skills are not necessary

# Job Prospects are Excellent

- Typical starting positions of IM students
  - IT Consultant (e.g. Accenture, IBM Consulting, PwC)
  - Data analyst (e.g. Henkel)
  - Systems Analyst (e.g. Shell, ING Bank, Cisco Systems)
  - Project Manager (e.g. ABN AMRO)
  - IT vendors (e.g. SAP, Google)
  - Startup (e.g. SpamExperts, i2 Solutions)
- Further down the career path
  - Manager of the IT function in an organisation
  - Chief Information (Knowledge) Officer

# Further questions?

[www.maastrichtuniversity.nl/sbe](http://www.maastrichtuniversity.nl/sbe)

E-mail: [m.vluggen@maastrichtuniversity.nl](mailto:m.vluggen@maastrichtuniversity.nl)

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