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MINISTERSTWO INFRASTRUKTURY I ROZWOJU

UNIA EUROPEJSKA
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CYBER SOCIETY, BIG DATA AND EVALUATION

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Maastricht University &

Netherlands Security and Justice Research Institute (wodc.nl)

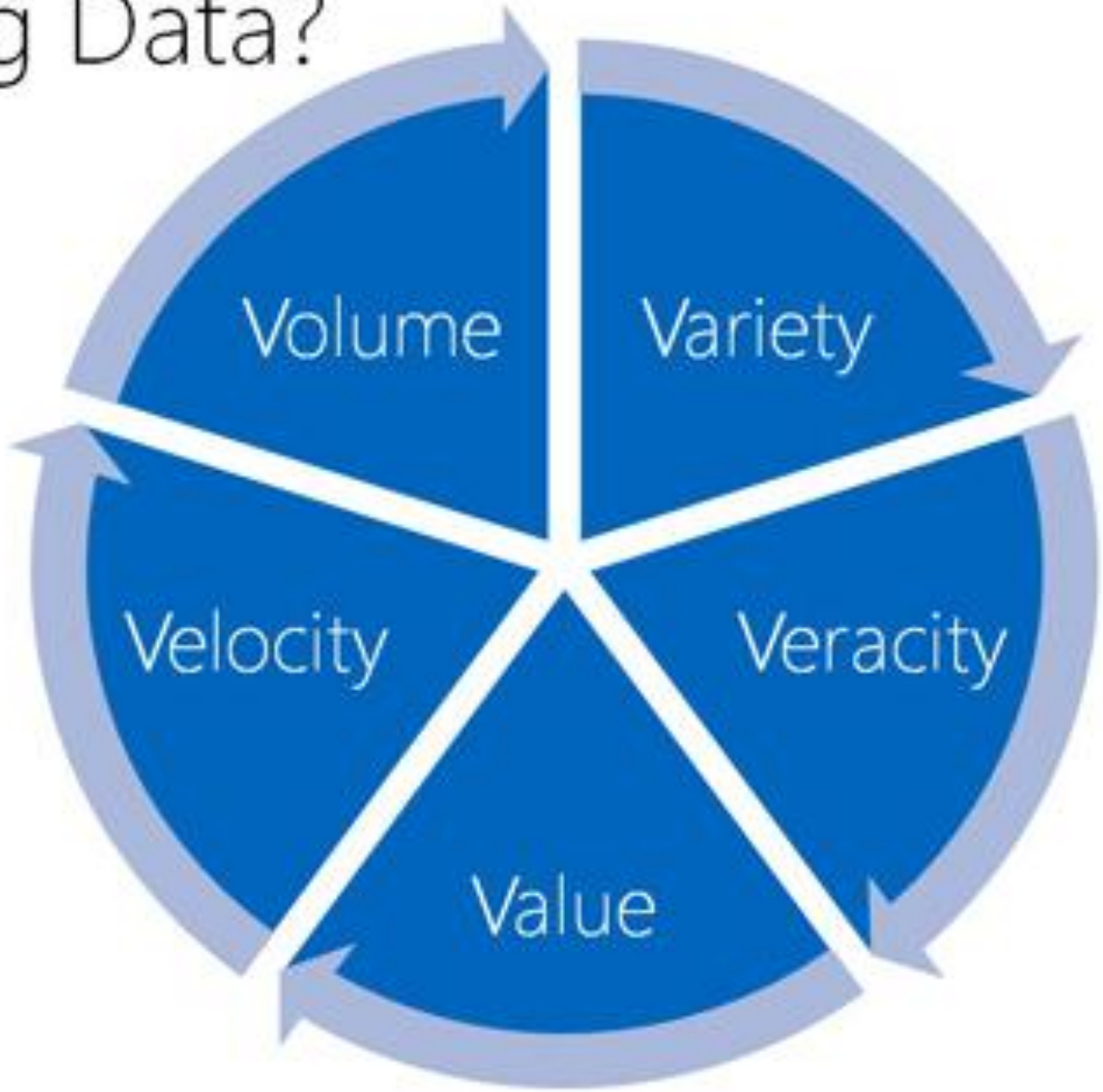
JAN 2015

GLOBAL DIGITAL SNAPSHOT

A SNAPSHOT OF THE WORLD'S KEY DIGITAL STATISTICAL INDICATORS

TOTAL POPULATION	ACTIVE INTERNET USERS	ACTIVE SOCIAL MEDIA ACCOUNTS	UNIQUE MOBILE USERS	ACTIVE MOBILE SOCIAL ACCOUNTS
7.210 BILLION	3.010 BILLION	2.078 BILLION	3.649 BILLION	1.685 BILLION
URBANISATION: 53%	PENETRATION: 42%	PENETRATION: 29%	PENETRATION: 51%	PENETRATION: 23%
FIGURE REPRESENTS TOTAL GLOBAL POPULATION, INCLUDING CHILDREN	FIGURE INCLUDES ACCESS VIA FIXED AND MOBILE CONNECTIONS	FIGURE REPRESENTS ACTIVE USER ACCOUNTS, NOT UNIQUE USERS	FIGURE REPRESENTS UNIQUE MOBILE PHONE USERS	FIGURE REPRESENTS ACTIVE USER ACCOUNTS, NOT UNIQUE USERS

What is Big Data?

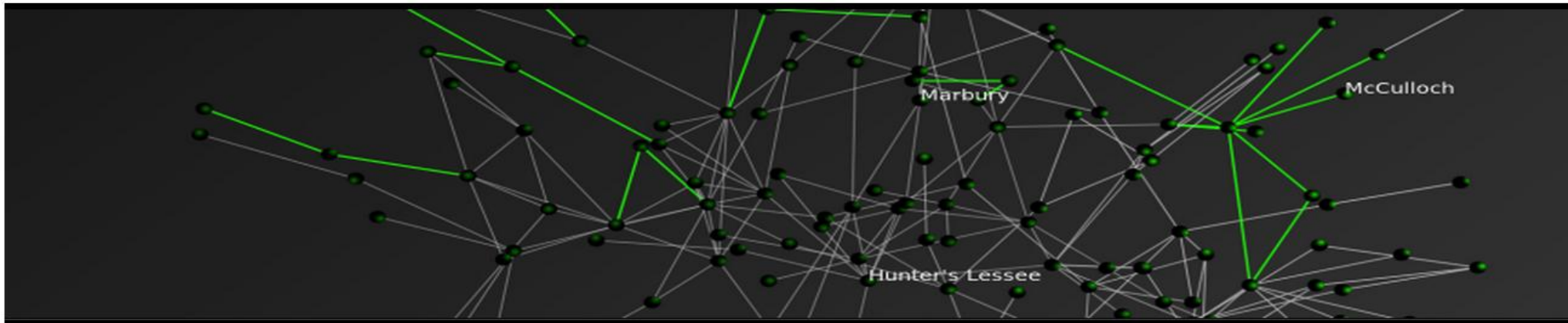


Omnivex

computational linguistics | Computational Legal Stud

computationallegalstudies.com/tag/computational-linguistics/

Computational Legal Studies™



Home | Intro to Complex Systems Models & Methods | Quantitative Methods for Lawyers Course | Network Analysis and Law Tutorial | JLE Law Prof Article | VTR Tax Court Article | About CLS Blog

Tag Archives: *computational linguistics*

Novel and Topical Business News and their Impact on Stock Market Activities (via arXiv)

Posted on August 5, 2015 by Daniel Martin Katz

Posted in Uncategorized | Tagged big data, complex systems, computational linguistics, data mining, finance, high frequency trading, natural language processing, Quantitative Finance | Leave a comment

Authors

Daniel Martin Katz (SS

Michael Bommarito (S

Presentations

Quantitative Legal Predicti

Experts, Crowds + Algorith

Machine Learning + Legal

5 Obs. Regarding Tech & L

Presentatie1 - Powe... | computational ling... | Nieuw tabblad - Go...

Table 12.2 Comparing Small Data and Big Data

	Small data	**Big data**
Goal	Usually designed to answer a specific question or serve a particular goal	Usually designed with a goal in mind, but the goal is flexible and the questions are protean
Location	Typically contained within one institution, often on one computer, sometimes in one file	Typically spread throughout electronic space, typically parceled onto multiple Internet servers, located anywhere on earth
Data structure and content	Ordinarily contains highly structured data. The data domain is restricted to a single discipline or subdiscipline. The data often come in the form of uniform records in an ordered spreadsheet.	Must be capable of absorbing unstructured data (e.g., free text documents, images, motion pictures, sound recordings, physical objects). The subject matter of the resource may cross multiple disciplines, and the individual data objects in the resource may link to data contained in other, seemingly unrelated, big data resources.

Cyber society and digital policies: Challenges to evaluation?[1]

Evaluation
18(1) 111–127
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DOI: 10.1177/1356389011431777
evi.sagepub.com
SAGE

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Abstract
In this article, the authors explore the relationship between (impact) evaluations and cyber society, in particular digital policies. There appears to be a gap between the pace at which internet and digital policies are penetrating society and the attention professional evaluators are paying to these policies. First, we present an analytical framework for studying these policies, while examples of policies are described and categorized. Next, efforts evaluators have made in this area are described based on three different sources. We begin by looking at three public sector institutions and their evaluation activities; then study what peer reviewed evaluation journals have published about digital policies. Finally, we approach a specific field of interventions: digital piracy. A systematic review of 14 studies evaluating the impact of (hypothetical) interventions and mechanisms is presented. Although several studies use designs that are questionable, there is evidence that some mechanisms are able to influence behavioural intentions regarding illegal downloading.

Keywords
digital piracy, digital policies, evaluation journals, internet

Introduction and questions

In her article on the internet and public policy, Margetts (2009: 3) presented data showing that 'for many people across the world, large chunks of their social, economic and political life have moved online'. This is even more true in 2011, as there are now a little over 2.1 billion internet users

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Table 2. Appearance of relevant 'digital (policy)' words in evaluation journals[1]

Journal (data were collected in January/February 2011)	Words internet or web or digital or cyber found in full text	Words internet or cyber or digital or web found in keywords	Words digital and policy found in full text/keywords
Evaluation (1995-)	77 times	----	5/0
Evaluation and Program Planning (1981-)	228 times	*	43/0*
Assessment and Evaluation in Higher Education (1981-)	174 times **	3 times	25/**
Evaluation and Research in Education (1981)	11 times **	----	8/0
Educational Evaluation and Policy Analysis (1981)	67 times	1 time	3/0
Evaluation Review (1981-)	76 times	3 times	9/0
Evaluation and the Health Professions (1987-)	103 times	4 times	2/0
New Directions for Evaluation (1981-)	127 times	*	6/*
American Journal of Evaluation (1981-)	219 times	4 times	18/0
The Journal of Multidisciplinary Evaluation (2004-)	8 times	*	1/0

LESS THAN 0,001 % OF THE 1,500.000 WORDS USED ADRESSED CYBER, DIGITAL, WEB AND RELATED TOPICS.

THAT WAS IN 2012……BUT things are changing a bit.

The INTEVAL GROUP WITH KAROL OLEJNICAK, GUSTAV PETERSSON, JONATHAN BREUL AND SEVERAL OTHERS IS DETERMINED TO HELP CHANGE THE SCENE

FOUR IMPORTANT CONTRIBUTIONS OF BIG DATA FOR EVALUATION

1. Big Data can help to create baseline measurement

2. Big data can help to map and scan the contexts (e g culture) of organizations, societies which surrounds the implementation of policies

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Contents lists available at ScienceDirect

Government Information Quarterly

journal homepage: www.elsevier.com/locate/govinf

A sentiment analysis of U.S. local government tweets: The connection between tone and citizen involvement

Staci M. Zavattaro [a], P. Edward French [b], Somya D. Mohanty [c]

[a] College of Health and Public Affairs, University of Central Florida, Orlando, FL 32816, USA
[b] Stennis Institute of Government, P.O. Drawer LV, Mississippi State, MS 39762, USA
[c] Social Science Research Center, PO Box 5287, Mississippi State, MS 39762, USA

ARTICLE INFO ABSTRACT

3. BIG DATA CAN HELP DETECT SOCIETAL TRENDS MUCH MORE FASTER THAN TRADITIONAL DATA COLLECTION CAN

Figure 1 Business bankruptcy per month in the Netherlands (2004-2014)

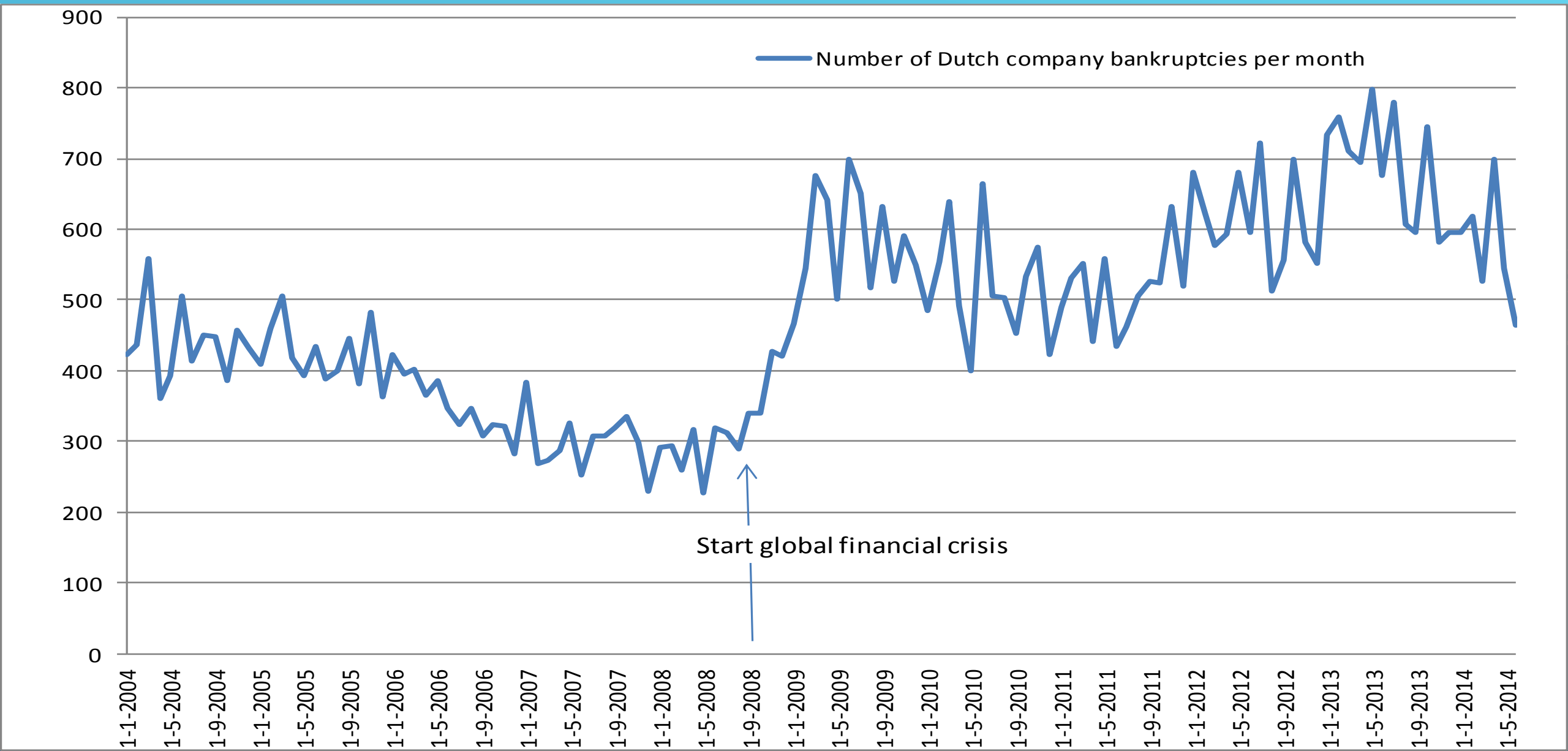
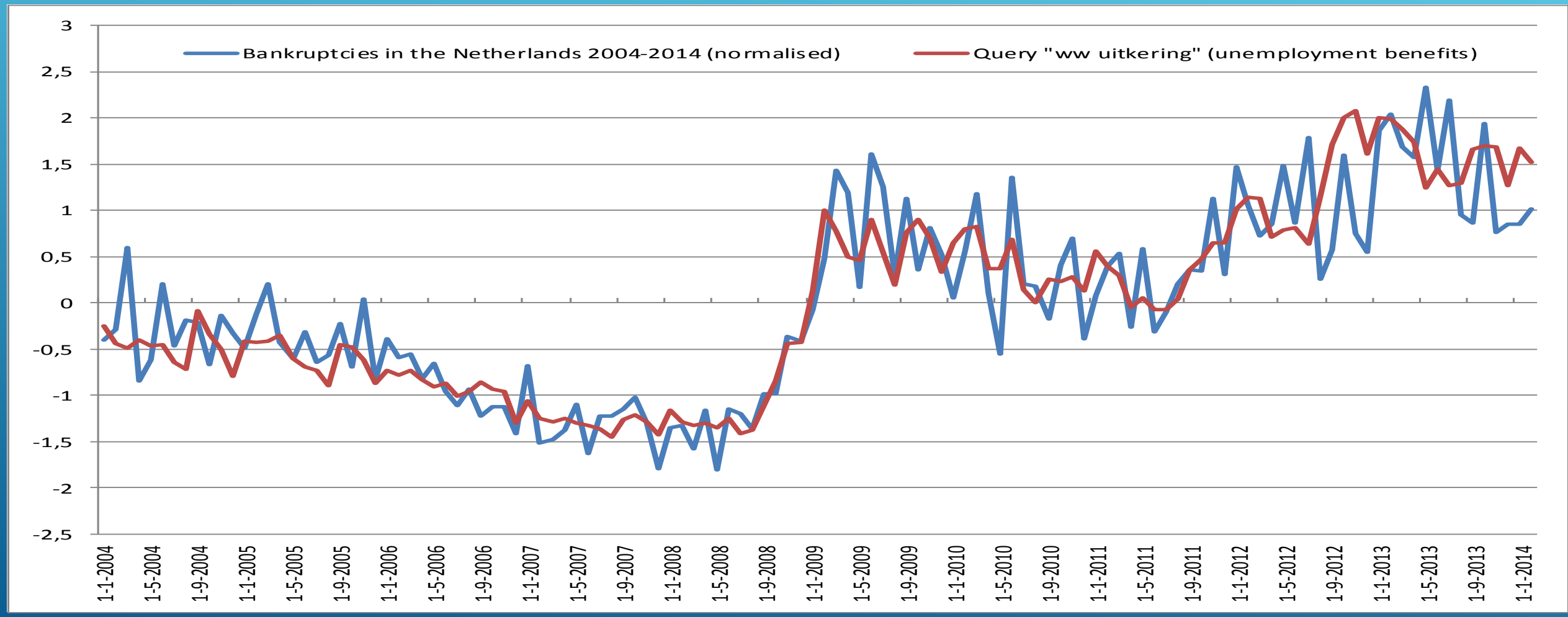


Figure 2. User uploaded activity for Business bankruptcy per month in the Netherlands Web Search activity for ”ww uitkering” (unemployment benefits) (r=0.900)



4. The fourth contribution of Big Data to evaluations is that cyber society and big data strongly stimulate doing Randomized Controlled Trials (Experimental Evaluations)

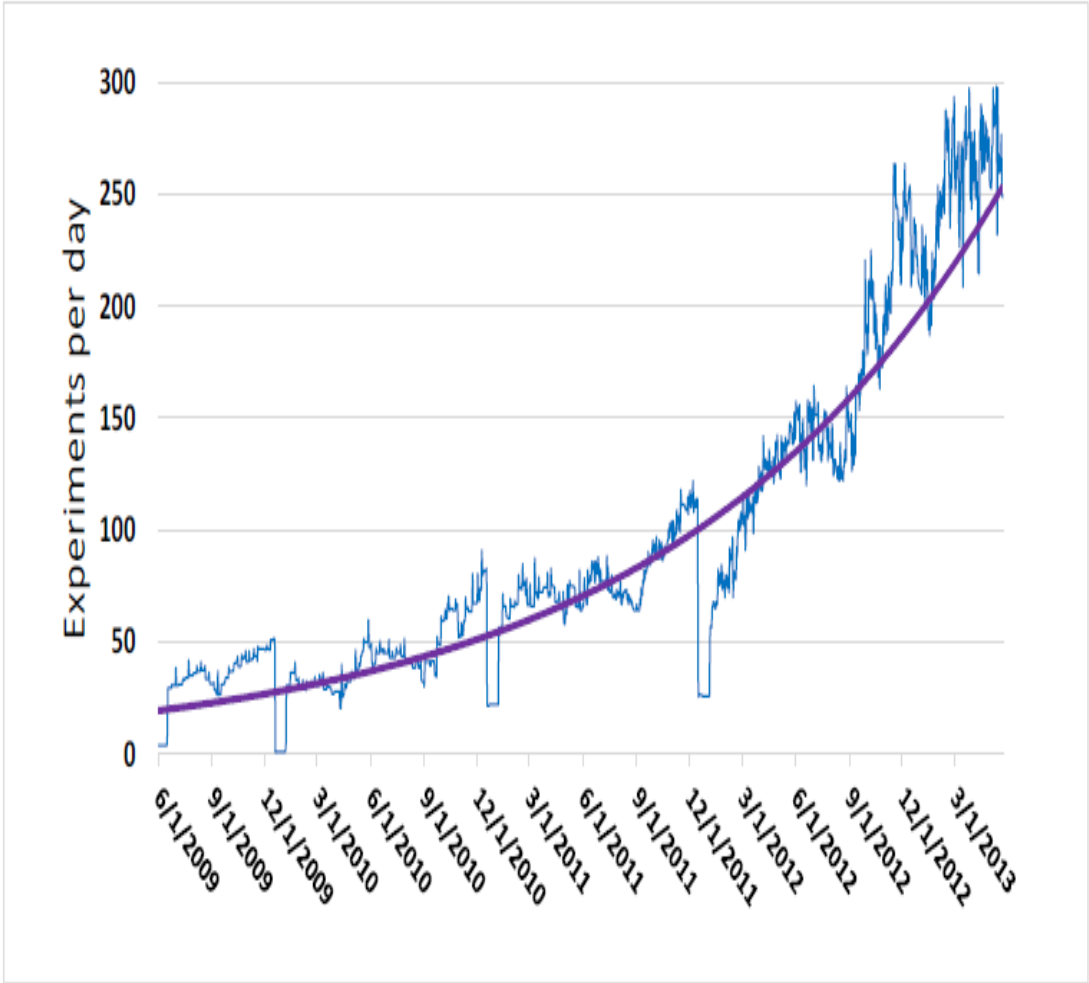


Figure 2: Exponential growth in experimentation over time. (Prior to 2012, Bing shut down most experiments the last two weeks of December.)

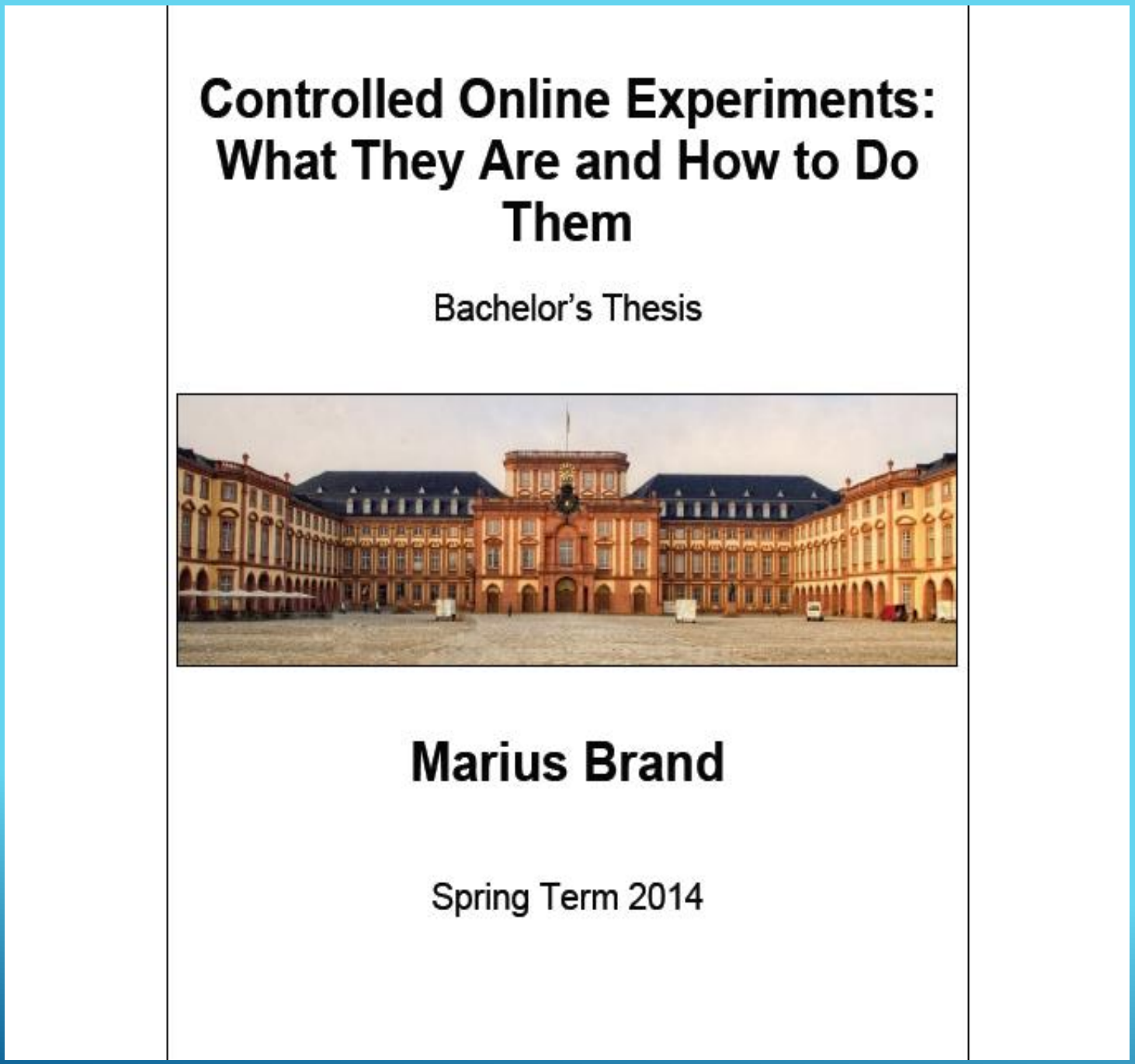
Overlapping Experiment Infrastructure: More, Better, Faster Experimentation

Diane Tang, Ashish Agarwal, Deirdre O'Brien, Mike Meyer
Google, Inc.
Mountain View, CA
[diane,agarwal,deirdre,mmm]@google.com

*** To appear at KDD 2013. Available at http://bit.ly/ExPScale ***

Online Controlled Experiments at Large Scale

Ron Kohavi, Alex Deng, Brian Frasca, Toby Walker, Ya Xu, Nils Pohlmann
Microsoft, One Microsoft Way, Redmond, WA 98052
{ronnyk, alexdeng, brianfra, towalker, yaxu, nilsp}@microsoft.com



Controlled Online Experiments: What They Are and How to Do Them

Bachelor's Thesis

Marius Brand

Spring Term 2014

And:

digital evaluations of digital policy and program interventions

A FEW OTHER OPPORTUNITIES:

REMIXING MIXED DATA

SOCIAL MEDIA SUREY APPS

AND……

The TaSST: Tactile Sleeve for Social Touch

Gijs Huisman*
University of Twente
Human Media Interaction Group

Aduén Darriba Frederiks†
Amsterdam University of Applied Sciences
Digital Life Centre

Betsy Van Dijk‡
University of Twente
Human Media Interaction Group

Dirk Heylen§
University of Twente
Human Media Interaction Group

Ben Kröse¶
Amsterdam University of Applied Sciences
Digital Life Centre

Figure 1: The TaSST. The input layer is attached to the top of the output layer using Velcro.

Sensor Mania!

October 28, 2013
QS Big Data

Source: Swan, M. Sensor Mania! The Internet of Things, Objective Metrics, and the Quantified Self 2.0. J Sens Actuator Netw 2012.

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Next-gen QS Services: Quality of Life

QS Aspiration Apps: Happiness, Emotive State (personal and group), Well-being, Goal Achievement

Category and Name	Website URL
Happiness Tracking	
Track Your Happiness	http://www.trackyourhappiness.org/
Mappiness	http://www.mappiness.org.uk/
The H(app)athon Project	http://www.happathon.com/
MoodPanda	http://moodpanda.com/
TechurSelf	http://www.techurself.com/urwell
Emotion Tracking and Sharing	
Gotta Feeling	http://gottafeeling.com/
Emotish	http://emotish.com/
Feelytics	http://feelytics.me/
Experiencal	http://experiencal.com/
Population-level Emotion Barometers	
We Feel Fine	http://wefeelfine.org/
moodmap	http://themoodmap.co.uk/
Pulse of the Nation	http://www.ccs.neu.edu/home/amislove/twittermood/
Twitter Mood Map	http://www.newscientist.com/blogs/onepercent/2011/09/twitter-reveals-the-worlds-emo-1.html
Wisdom 2.0	http://wisdom2summit.com/
Personal Wellbeing Platforms	
GravityEight	http://www.gravityeight.com/
MindBloom	https://www.mindbloom.com/
Get Some Headspace	http://www.getsomeheadspace.com/
Curious	http://wearecurio.us/
uGooder	http://www.ugooder.com/
Goal Achievement Platforms	
uMotif	http://www.umotif.com/
DidThis	http://blog.didthis.com/
Schemer	https://www.schemer.com/(personalized recommendations)
Pledge/Incentive-Based Goal Achievement Platforms	
GymPact	http://www.gym-pact.com/
Stick	http://www.stickk.com/
Beeminder	https://www.beeminder.com/

October 28, 2013
QS Big Data

Source: Swan, M. The Quantified Self: Fundamental Disruption in Big Data Science and Biological Discovery. Big Data June 2013; 1(2): 85-99.

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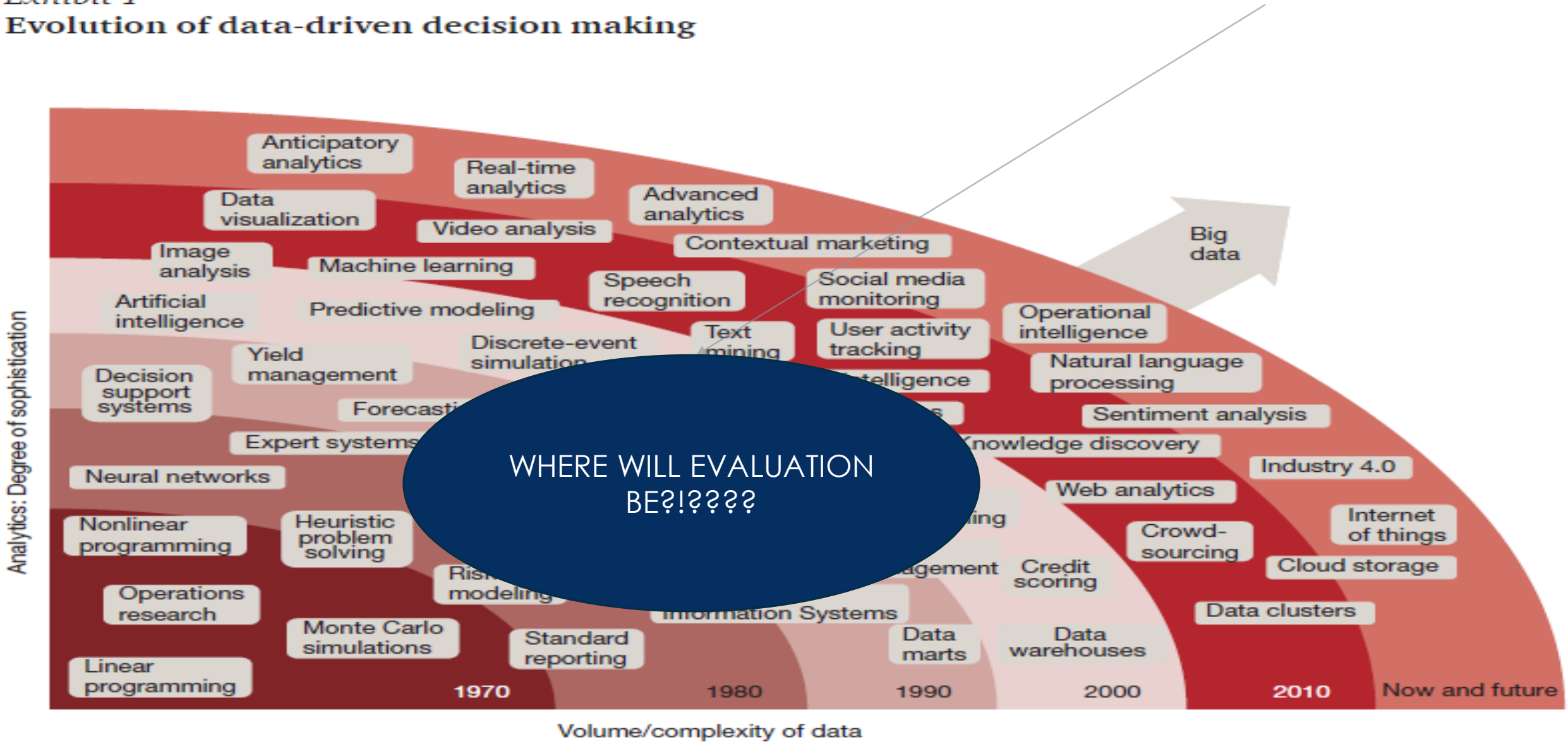
Exhibit 1

Evolution of data-driven decision making



Source: Strategy&

Paradise on earth with Big Data (and Evaluation)….?