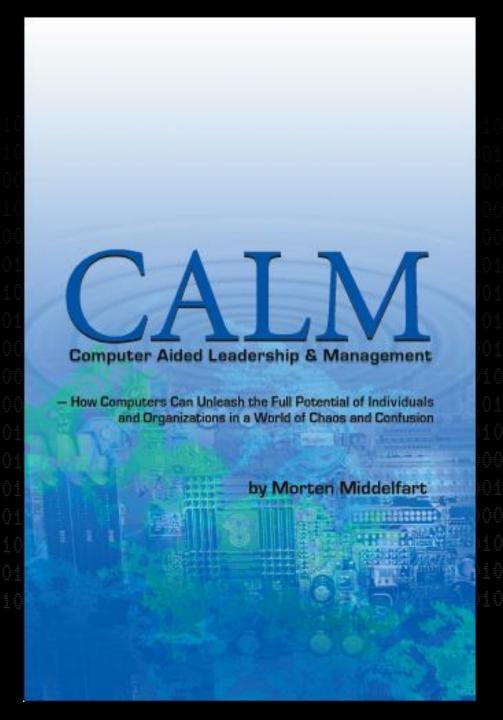




# SQ\_> Dr. Morten Middelfart — Background

- 2014 Present, CIO of Genomic Expression, Inc.
- 2014 Present, Founder & Chairman at Social Quant, Inc.
- 1997 2014, CTO of TARGIT Business Intelligence, Denmark & USA
- 1996 1997, Founder and CEO of Morton Systems ApS, a BI company
- 1992 1996, BI Project Manager at Maersk, Denmark & New Jersey, USA
- 1990 1992, Platoon Leader, Danish Army, Motorized Combat Infantry
- 1985 1989, Programmer at Sandlykke & Leifsgaard, Denmark
- 1983 1984, Game Programmer





"An eloquent examination of how computer technology is altering the human potential and of the implications for management and leadership.

Dr. Middelfart challenges readers to reevaluate their preconceived notions about the synergistic relationship between the humans and computers."

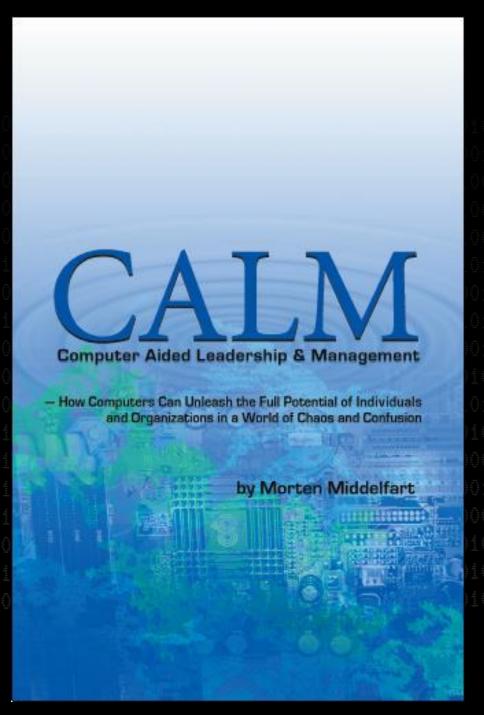
John Pourdehnad, Ph.D.

Ackoff Center for Advancement of

Systems Approaches (ACASA)

University of Pennsylvania



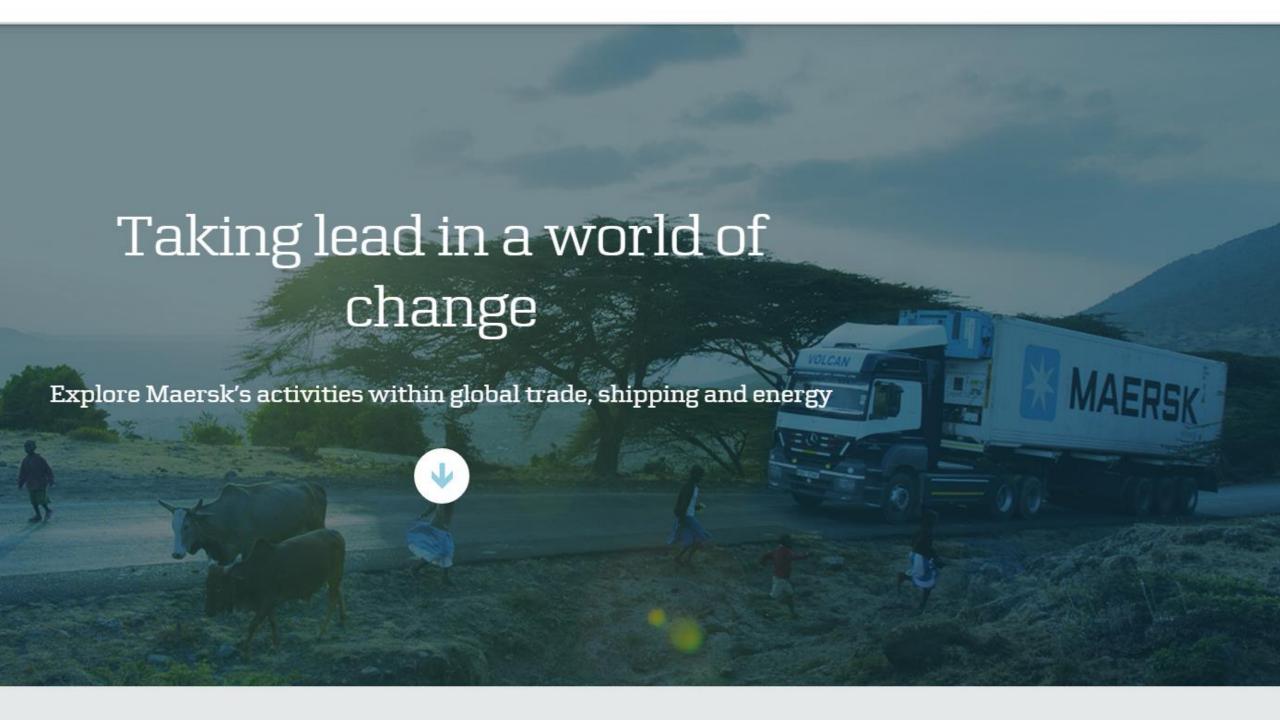


# Level 1 Access

Level 2

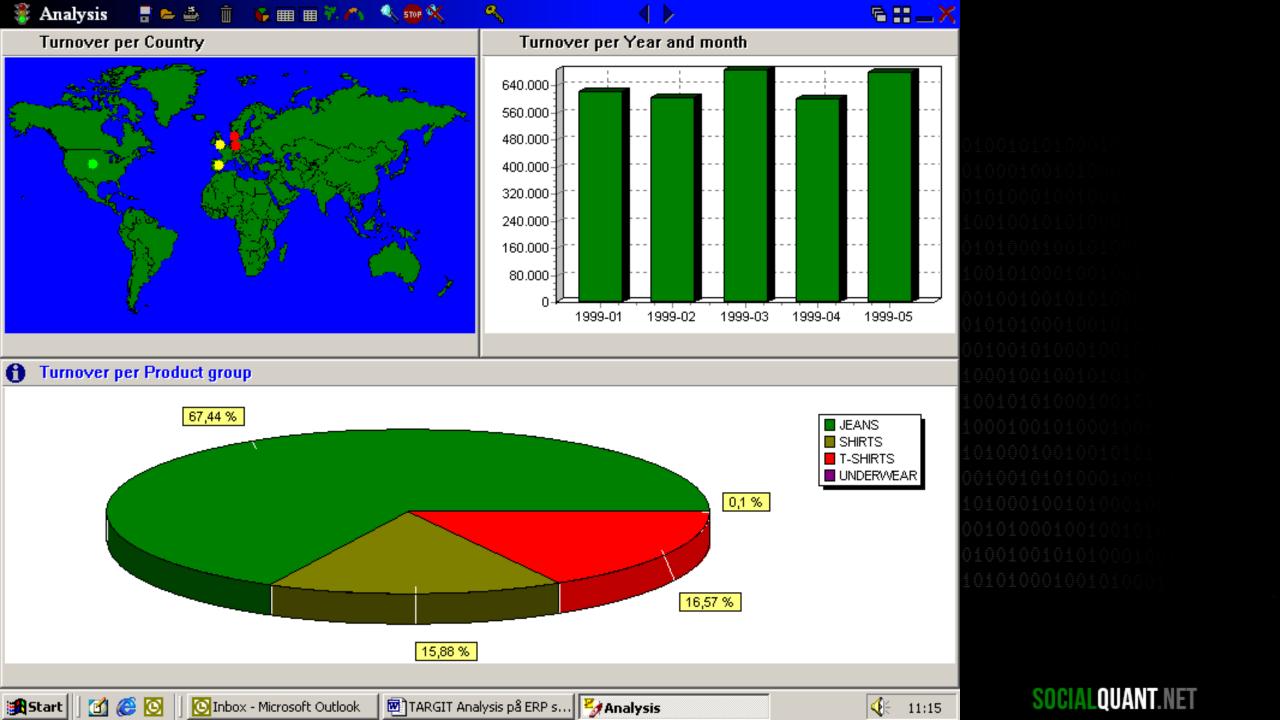
Speed

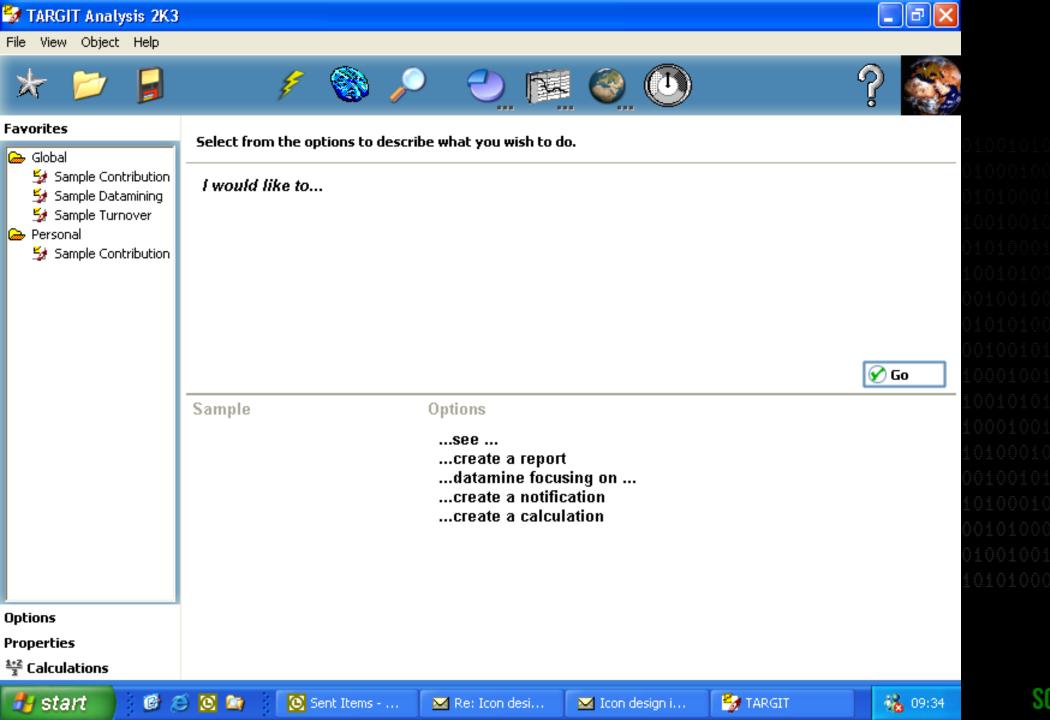
Autonomy





## Level 1: 1996-2003









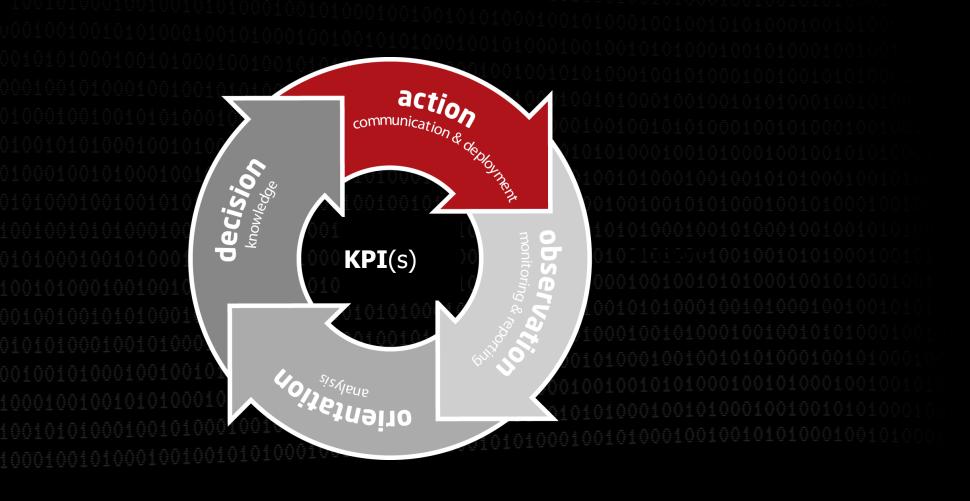
## Level 2: 2004-2014





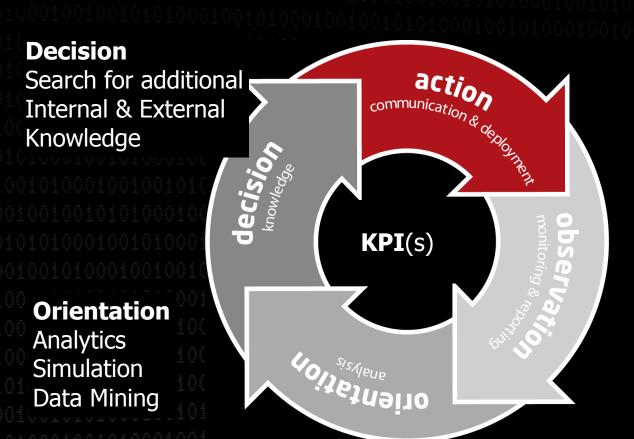


# The OODA Loop





# The OODA Loop



Action
Storyboard Mass-Comm.
Other Communication
Workflow Initiation
Modify Cycle

Observation
Dashboards
Reporting
Agents



# The OODA Loop

#### Strategic















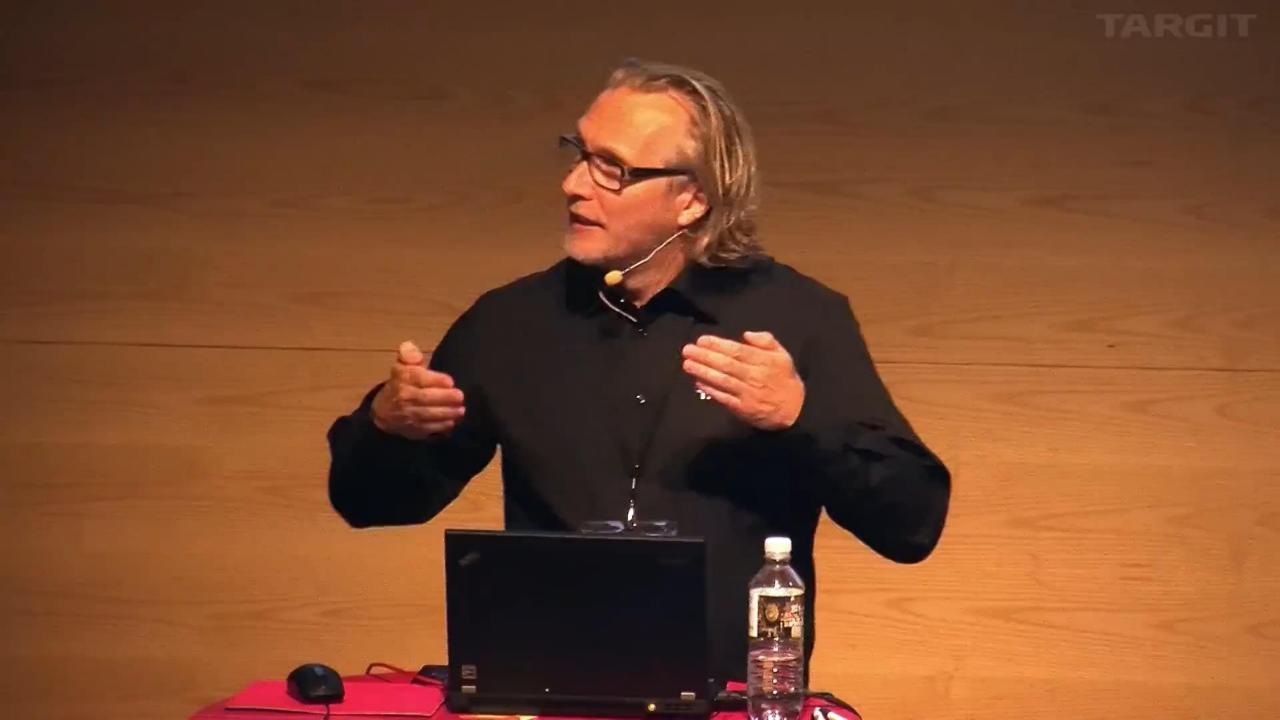
#### **Decision Search**

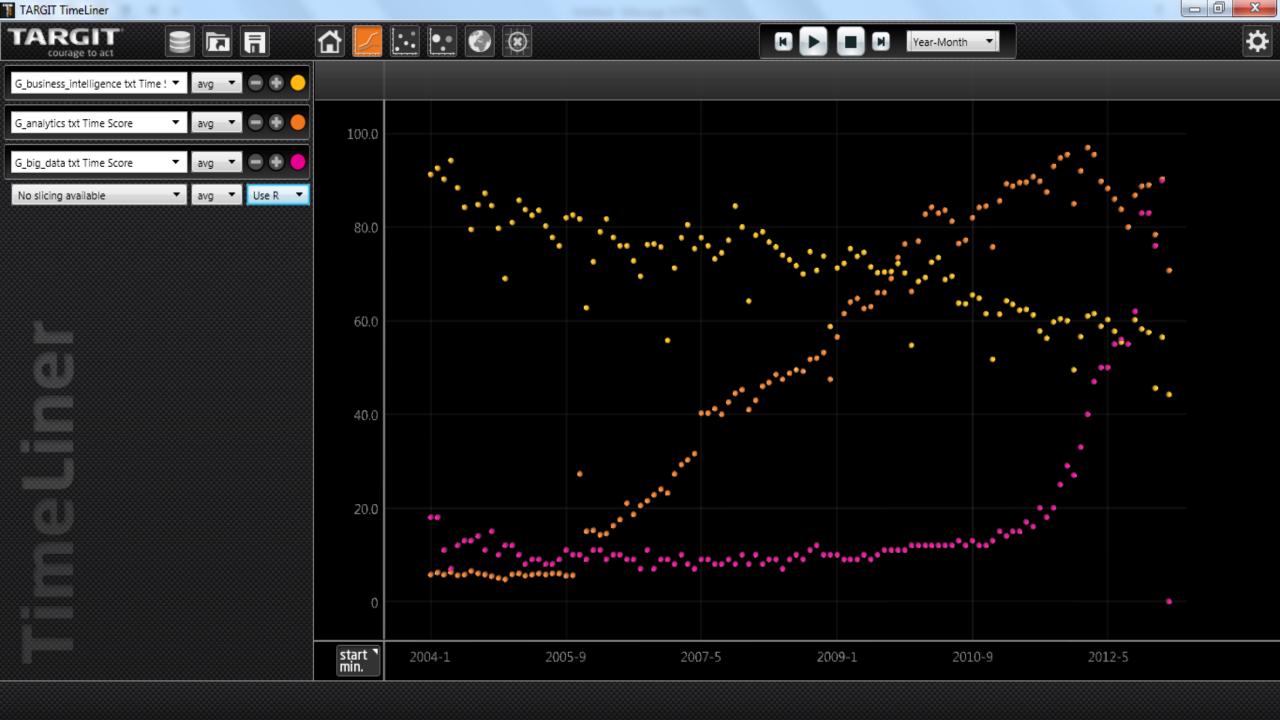


Speak Example: Targit create a report with cost per month















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Q

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#### Kevin Slavin: How algorithms shape our world





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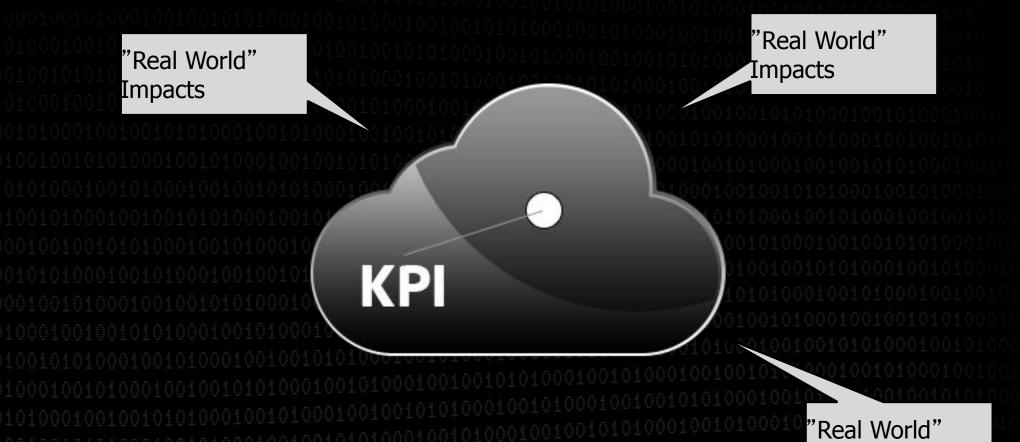






**KPI** 

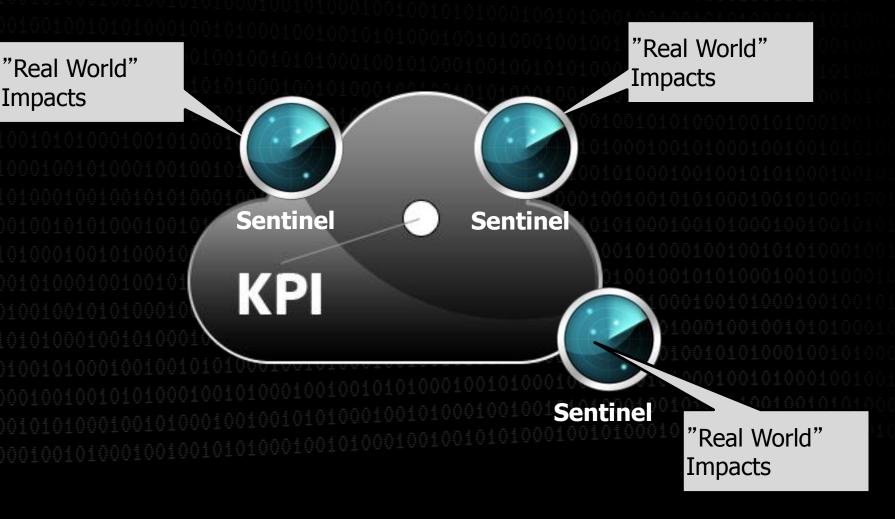




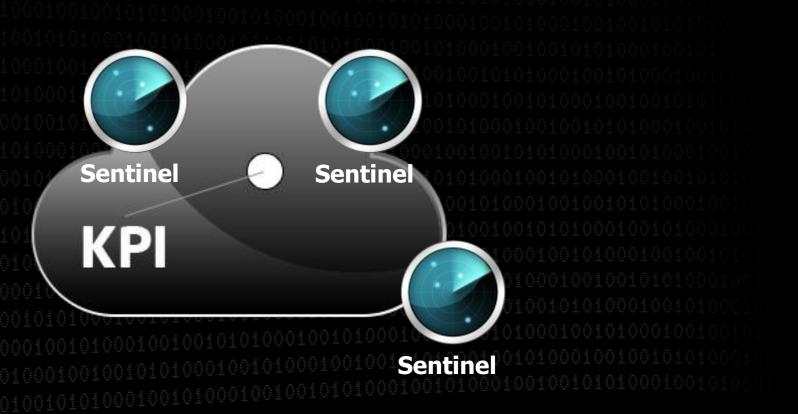
"Real World" Impacts



Impacts





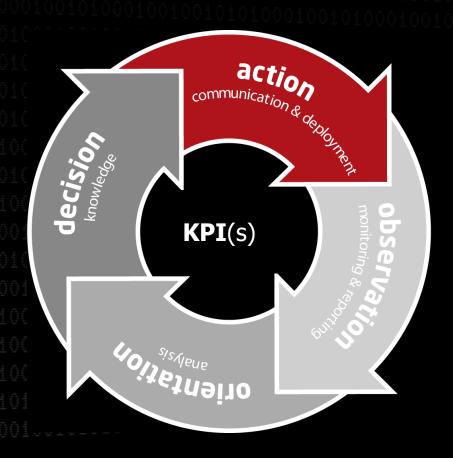




# The BBA Loop

#### **Decision**Collaboration

Orientation
Contextual
Analytics



#### **Action**

Storyboard Mass-Comm.
Other Communication
Workflow Initiation
Modify Cycle

#### **Observation**

Sentinels -> Agents -> Mobile Devices







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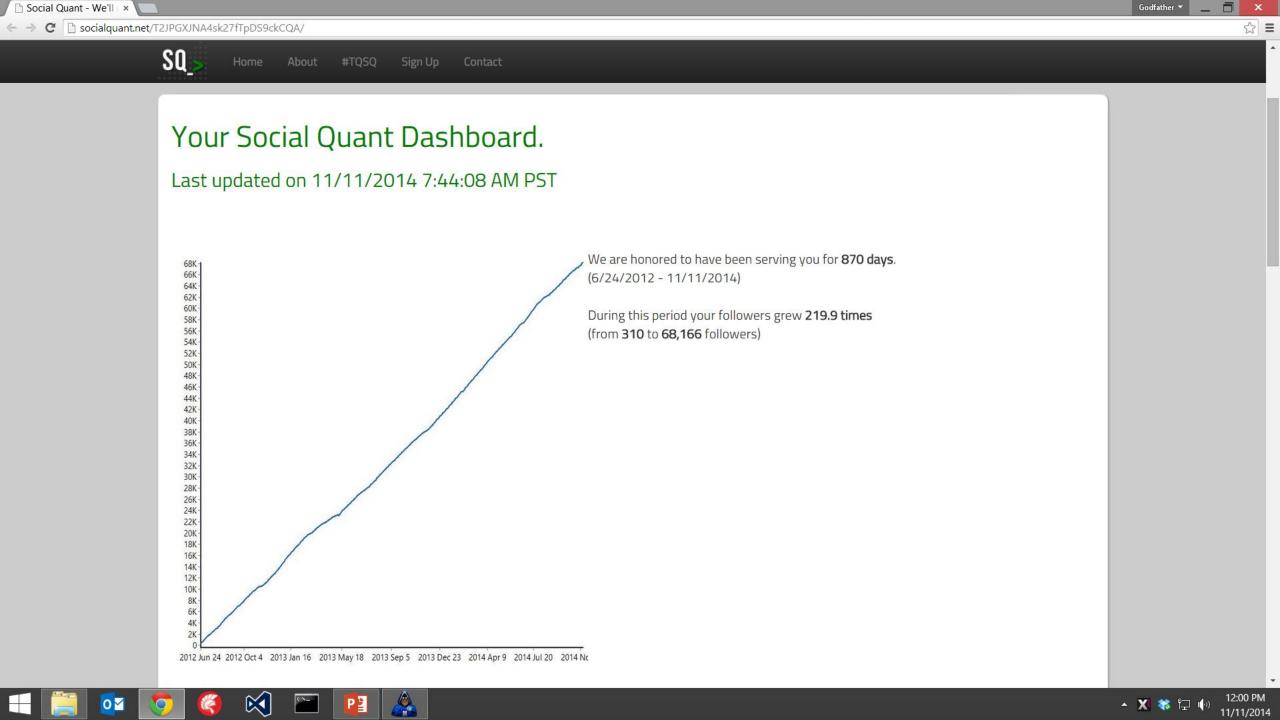
# Human-Computer

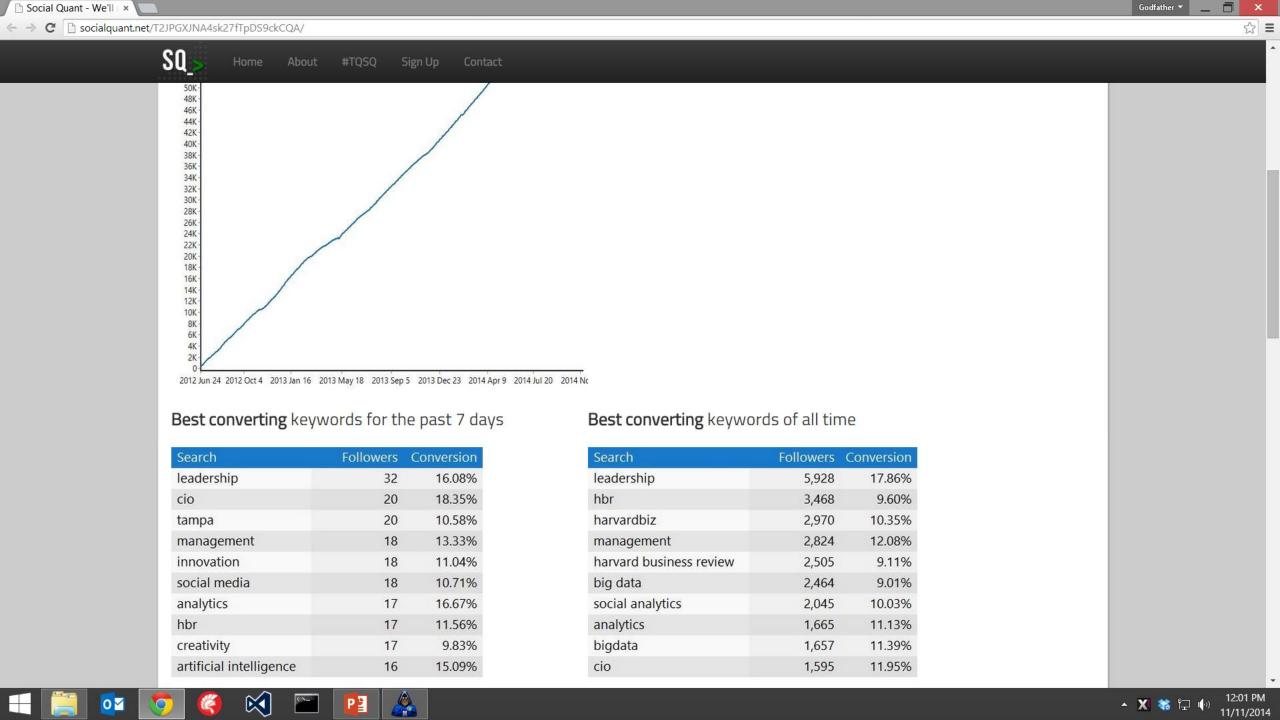


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#### **TALKS**

#### Eli Pariser: Beware online "filter bubbles"

FILMED MAR 2011 - POSTED MAY 2011 - TED2011



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As web companies strive to tailor their services (including news and search results) to our personal tastes, there's a dangerous unintended consequence: We get trapped in a "filter bubble" and don't get exposed to information that could challenge or broaden our worldview. Eli Pariser argues powerfully that this will ultimately prove to be bad for us and bad for democracy.

Pioneering online organizer Eli Pariser is the author of "The Filter Bubble," about how personalized search might be narrowing our worldview. Full bio »

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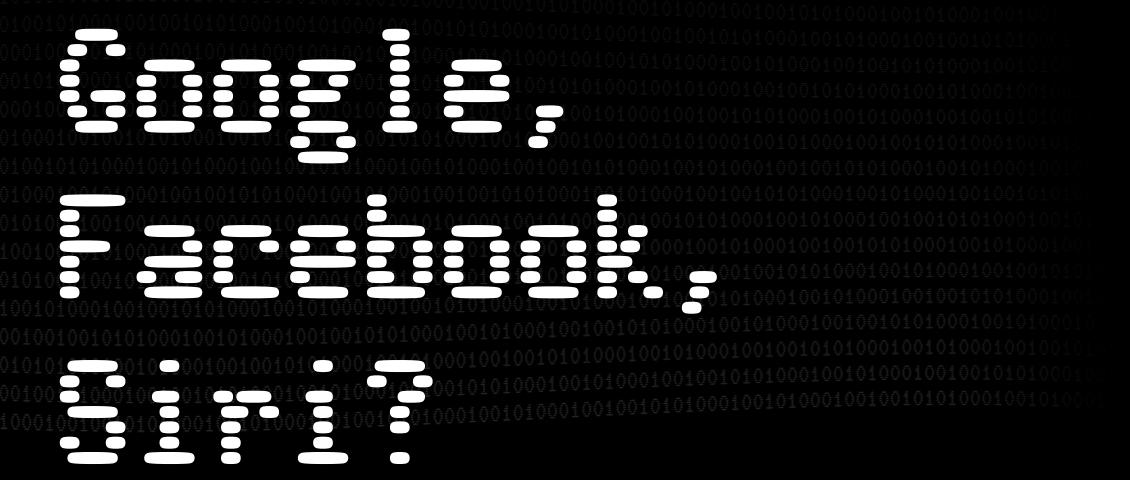
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#### PATIENTS CAN RESPOND DIFFERENTLY TO THE SAME MEDICATION

ANTI-DEPRESSANTS (SRRI'S)	38%	****
ASTHMA DRUGS	40%	*****
DIABETES DRUGS	43%	*****
ARTHRITIS DRUGS	70%	****
ALZHEIMER'S DRUGS	70%	****
CANCER DRUGS	75%	*****

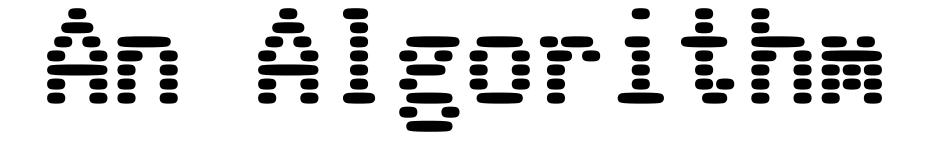
percentage of the patients for which a particular drug in a class is ineffective, on average



# Only 25% Gets a Longer Life



## What Could **Save People** in The **Remaining 75%** is





Nooking for lessons in can × This is where v ← → C www.reuters.com/article/2013/09/15/us-cancer-superresponders-idUSBRE98E07420130915 an "average cr

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#### Looking for lessons in cancer's 'miracle' responders

BY RANSDELL PIERSON

NEW YORK Sun Sep 15, 2013 8:03am EDT







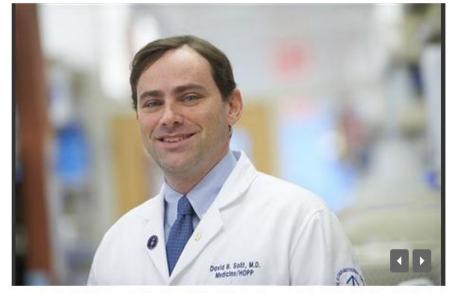












1 OF 2. Dr. David Solit is pictured at the Memorial Sloan-Kettering Cancer Center in New York in this undated handout

CREDIT: REUTERS/MEMORIAL SLOAN-KETTERING CANCER CENTER/HANDOUT VIA REUTERS

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### Variable Tumor Response to an Anti-PDL1 Checkpoint Inhibitor

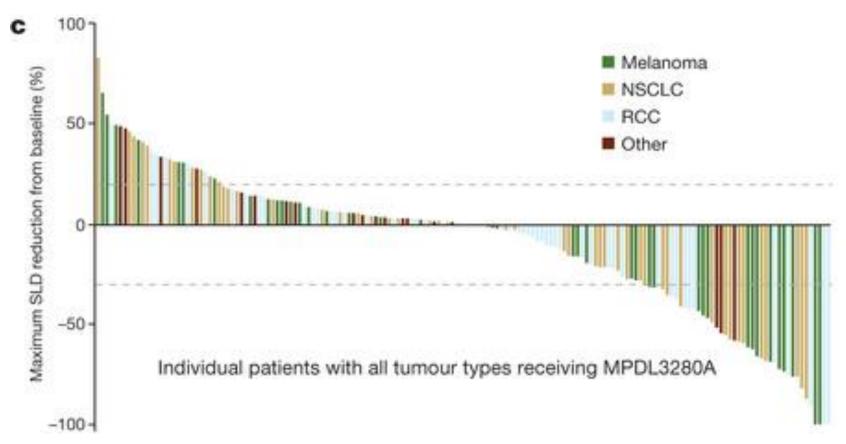


Chart part of Figure from Predictive correlates of response to the anti-PD-L1 antibody MPDL3280A in cancer patients, Roy Herbst *et al.*, Nature 515, 563–567 (27 November 2014) doi:10.1038/nature14011



This is wher an "average

We intend to

#### Precision Medicine In the News

The New York Times

outliers to fulfill

Dr. Wartman's colleagues sequenced his cancer's RNA and discovered the gene that was driving his leukemia. He took a new approved kidney cancer drug targeting the gene and is alive today and cancer free.



Recent landmark studies uncover common genetic changes in different types of cancers

The Cancer Genome Atlas Research Network, Nature 497, 67–73 (02 May 2013)

The Cancer Genome Atlas Research Network, NEJM 368, 2059-2074 (02 May 2013)

Featured in the New York Times, July 7th, 2012



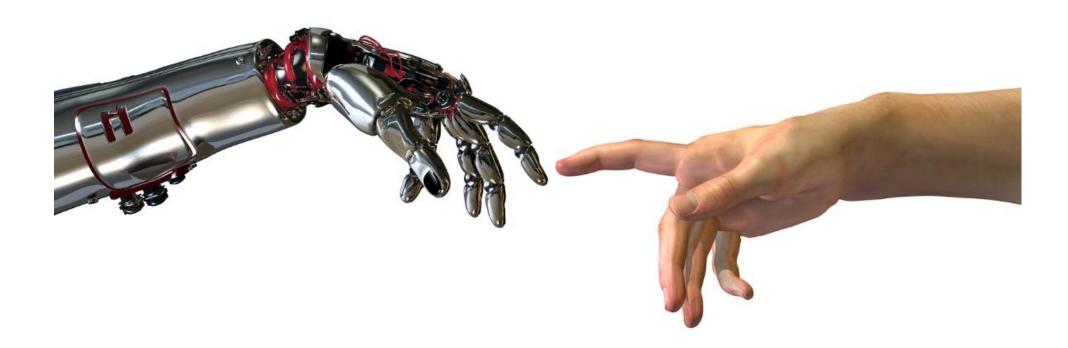
#### Speed of Big Data

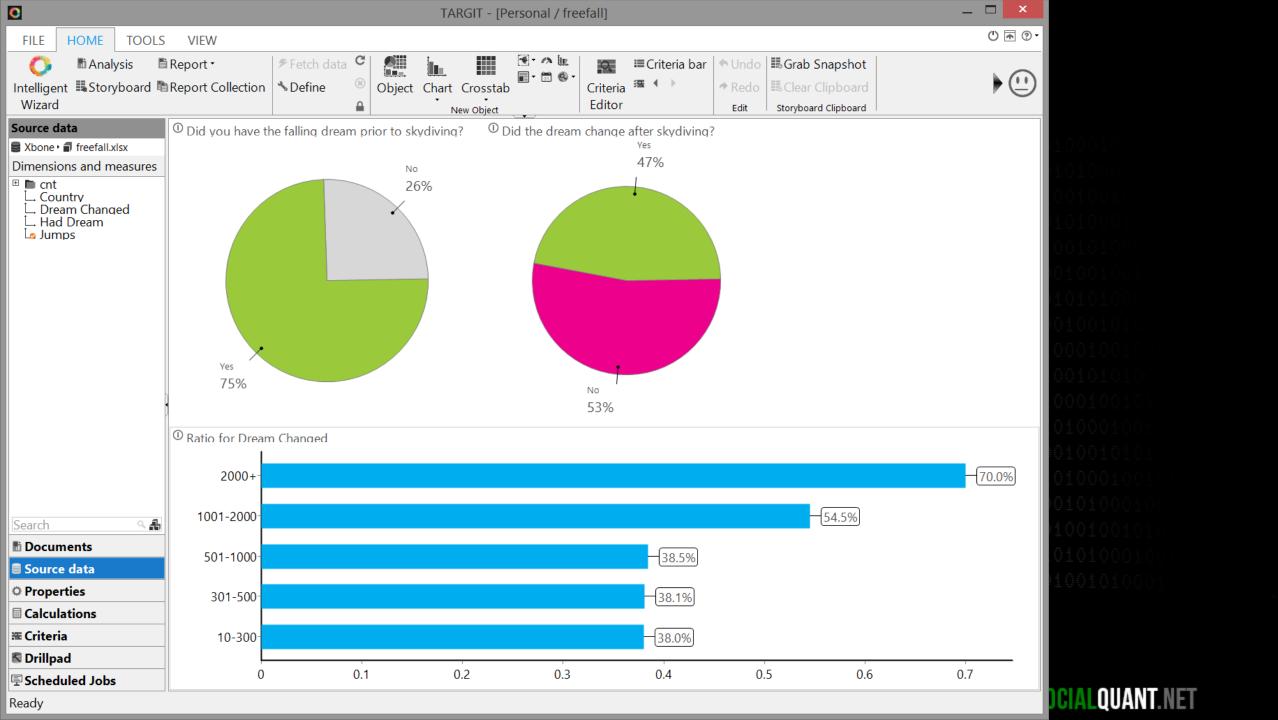
- Using RNA we reduce Input Sequence to 1-2% compared to DNA
- Using our patented approach in sample prep we reduce data 10x while we improve quality!

≈ 1000x Reduction



#### An Algorithm connects the dots







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### Chail we Flay a Same?

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