The networked society of the future

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Networked society

The integration of the physical and social world into one single network permits the collection of ever larger data sets correlating all parameters of human life.

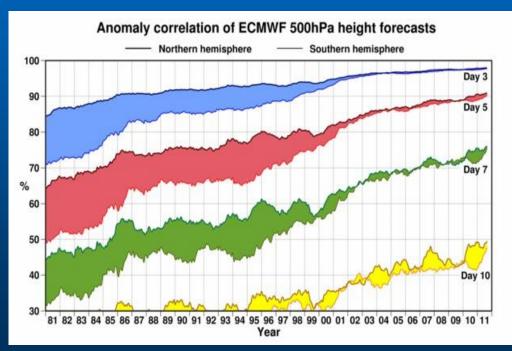
- → causal knowledge
- → increased control







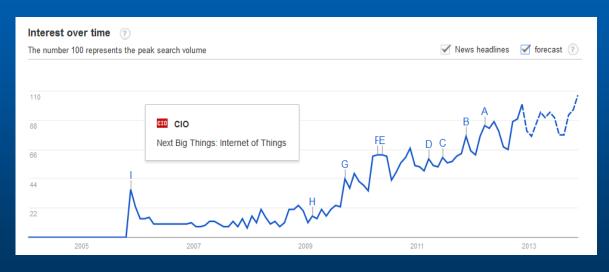
Big data: weather forecast



- more data
- increased computing power
- better models
- → better predictions

[source: European Centre for Medium-Range Weather Forecasts]

Social forecast





[search for "internet of things" on Google Trends]



Predictability + x = control

"Human knowledge and human power meet in one; for where the <u>cause</u> is not known the effect cannot be <u>produced</u>."

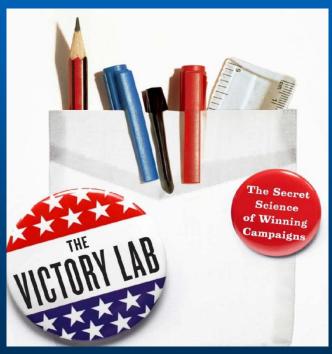
(Francis Bacon 1620)



[source: Wikipedia]



Example: microtargeting elections



"The 2008 Obama campaign [used] a custom-built, constantly evolving algorithm that incorporated hundreds of variables in order to predict any given voter's allegiance and level of enthusiasm."

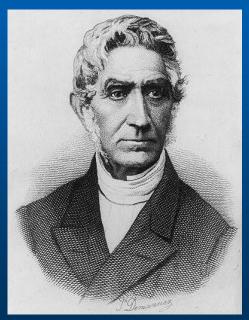
(James Surowiecki 2012)



Human freedom or statistical fatalism?

"It is society that prepares the crime; [a guilty man's] crime is the <u>fruit of the</u> <u>circumstances</u> in which he finds himself."

(Adolphe Quetelet 1842)



[source: Wikipedia

Social science in silico

The <u>networked society</u> gives rise to

- a novel kind of science comprising an almost infinite number of dynamically evolving correlations and causal laws
- a social science that does not fit into the limited and static environment of conventional textbooks
- a science to which only a small number of high-tech companies have access

