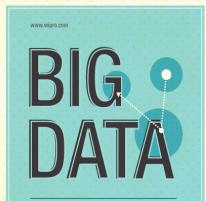




АНДЖЕЙ АРШАВСКИЙ CEO, DSL 20 ОКТЯБРЯ 2013

WHAT IS BIG DATA?



Big Data is data that is too large, complex and dynamic for any conventional data tools to capture, store, manage and analyze.

The right use of Big Data allows analysts to spot trends and gives niche insights that help create value and innovation much faster than conventional methods.

The "three V's", i.e the Volume, Variety and Velocity of the data coming in is what creates the challenge.

CASE STUDY - Healthcare



PEOPLE TO PEOPLE

NETIZENS, VIRTUAL COMMUNITIES. SOCIAL NETWORKS. WEB LOGS ...

PEOPLE TO MACHINE

ARCHIVES, MEDICAL DEVICES, DIGITAL TV. E-COMMERCE, SMART CARDS, BANK CARDS, COMPUTERS, MOBILES...

MACHINE TO MACHINE

SENSORS, GPS DEVICES. BAR CODE SCANNERS. SURVEILLANCE CAMERAS. SCIENTIFIC RESEARCH ...

EMAILS

SECOND

SENT EVERY

Tube HOURS

EVERY MIN

OF VIDEO UPLOADED

MILLION **TWEETS** PER DAY





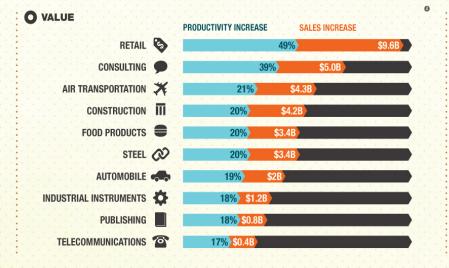
57.6% OF ORGANIZATIONS SURVEYED SAY THAT BIG DATA IS A CHALLENGE



72.7% CONSIDER DRIVING OPERATIONAL **EFFICIENCIES TO BE THE BIGGEST BENEFIT OF A BIG DATA STRATEGY**



50% SAY THAT BIG DATA HELPS IN BETTER MEETING **CONSUMER DEMAND AND** FACILITATING GROWTH



40% **PROJECTED** GROWTH IN GLOBAL **DATA CREATED** PER YEAR



5% **PROJECTED** GROWTH IN GLOBAL IT **SPENDING** PER YEAR

The estimated size of the digital universe in 2011 was 1.8 zettabutes. It is predicted that between 2009 and 2020, this will grow 44 fold to 35 zettabytes per year. A well defined data management strategy is essential to successfully utilize Big Data.

Sources -

Reaping the Rewards of Big Data - Wipro Report

Big Data: The Next Frontier for Innovation,
Competition and Productivity - McKinsey Global Institute Report

Onto Competition and Productivity - McKinsey Global Institute Report

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NYSE-WIT LOVER 130,000 EMPLOYEES L54 COUNTRIES LCONSULTING LSYSTEM INTEGRATION LOUTSOURCING

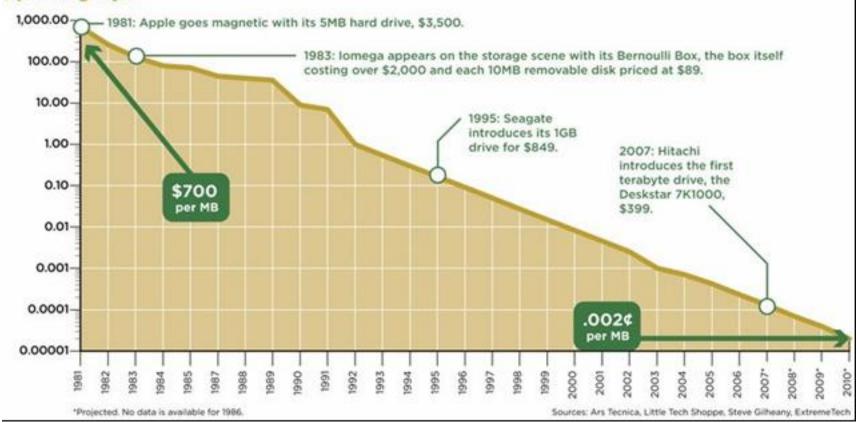




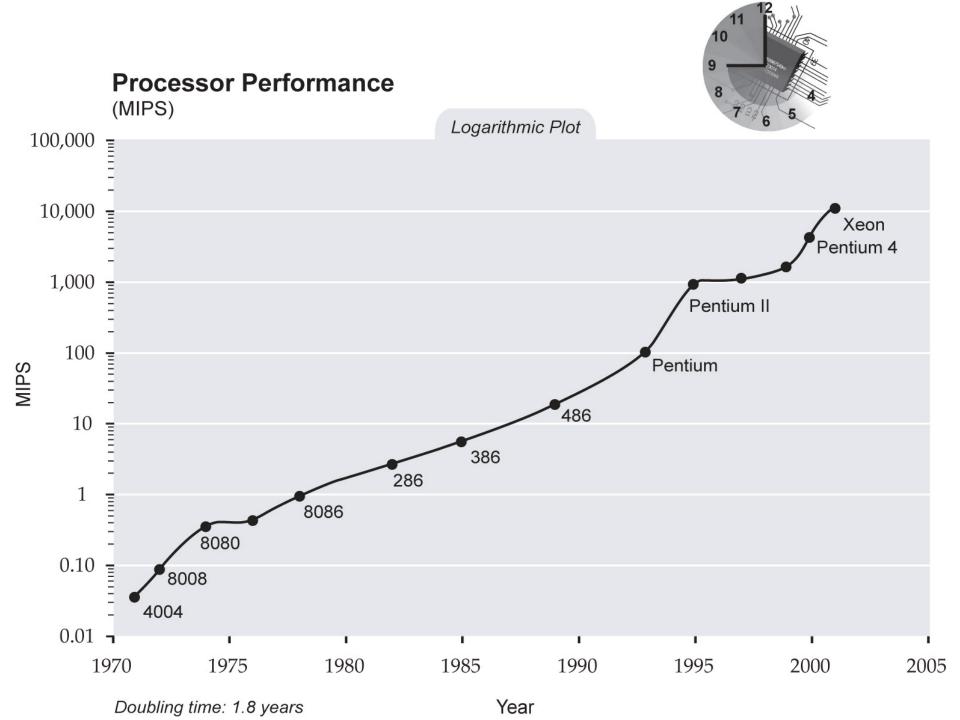


STORAGE: FROM HIGHWAY ROBBERY TO RUNAWAY BARGAIN

\$ per megabyte







WHAT IS BIG DATA?

VOLUME

Large amounts of data.

VELOCIT)

Needs to be analyzed quickly.

VARIETY

Different types of structured and unstructured data.

Key questions enterprises are asking about Big Data:

How to store and protect big data?

How to backup and restore big data?

How to organize and catalog the data that you have backed up?

How to keep costs low while ensuring that all the critical data is available when you need it? WHAT ARE THE VOLUMES OF DATA THAT WE ARE SEEING TODAY?



30 billion pieces of content were added to Facebook this past month by 600 million plus users.



Zynga processes 1 petabyte of content for players every day; a volume of data that is unmatched in the social game industry.

You Tube

ore than 2 billion videos were atched on YouTube... yesterday.



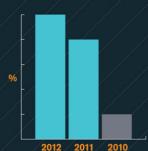
The arge teenager sends 4,762 text is sages per month.



32 billion searches were performed last month... on Twitter.

/

Everyday business and consumer life creates 2.5 quintillion bytes of data per day.



90% of the data in the world today has been created in the last two years alone.

WHAT DOES THE FUTURE LOOK LIKE?

Worldwide IP traffic will quadruple by 2015.









By 2015, nearly

3 billion people



will be online, pushing the data created and shared to nearly **8 zettabytes.**

HOW IS THE MARKET FOR BIG DATA SOLUTIONS EVOLVING?

A new IDC study says the market for big technology and services will grow from \$3.2 billion in 2016 to \$16.9 billion in 2015. That's a growth of 40% CAGR.



58% of respondents expect their companies to increase spending on server backup solutions and other big data-related initiatives within the next three years.

.....

2/3r65 of surveyed businesses in North America said big data will become a concern for them within the next five years.

Source Economist Busi

Asıgra

BIG

www.wipro.com

Big Data is data that is too large, complex and dynamic for any conventional data tools to capture, store, manage and analyze.

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USUAL DATA

"Conventional business processes"

- Clear goal
- Clear how to use
- Clear format
- Structured format



BIG DATA

"Innovations"

- Unclear purpose
- Unclear how to use it
- Unclear format
- Unstructured format



"No, it's MY data!"



BIG DATA =

TECHNOLOGIES + SPECIALISTS

Technologies which capable to work with data within consistent time frames using distributed environments or cloud based services (mostly NoSQL, Cloud)



Technical specialists, capable to understand business goals and improve business processes using analytics of diverse, distributed and large data volumes using both SQL and NoSQL tools





Data Scientist Skills



- Domain knowledge (i.e. Industry specific processes where analytic are applied)
- Commercial acumen/ Strategic
- Customer-centric
- Problem-solving skills
- Communication skills (story-telling)
- Curiosity (willingness to challenge the status quo)
- Technology / data
- Analytical skill-set
- Mathematics / statistics (including experimental design)



Big Data Landscape



splunk> loggly
■ sumologic

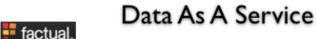




Business Intelligence













Analytics Infrastructure



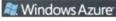
Operational Infrastructure



INFORMATICA' ■ MarkLogic

Infrastructure As A Service







Google BigQuery

Structured **Databases**















Technologies



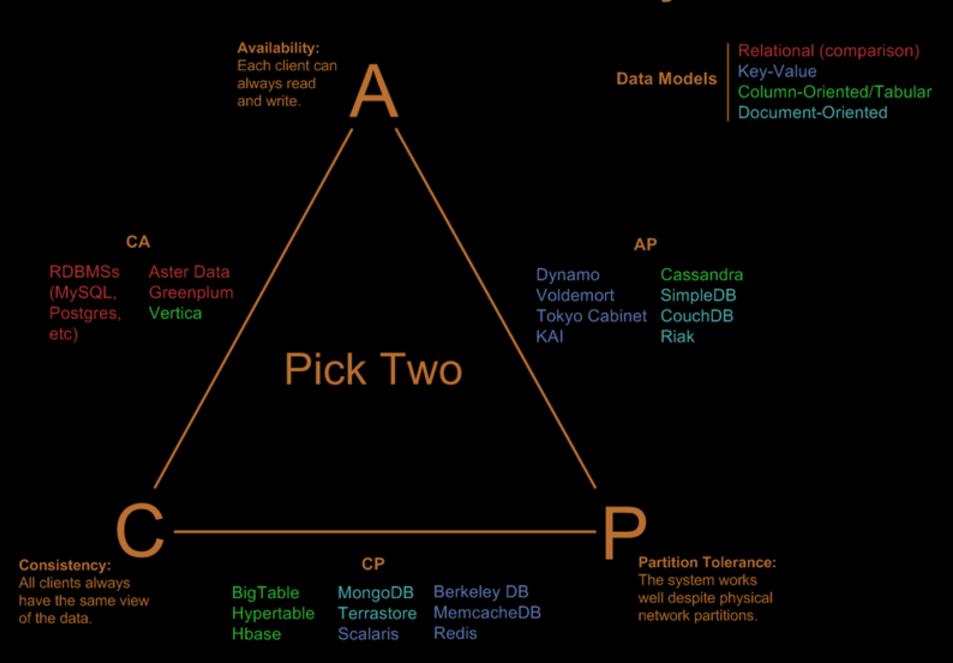








Visual Guide to NoSQL Systems





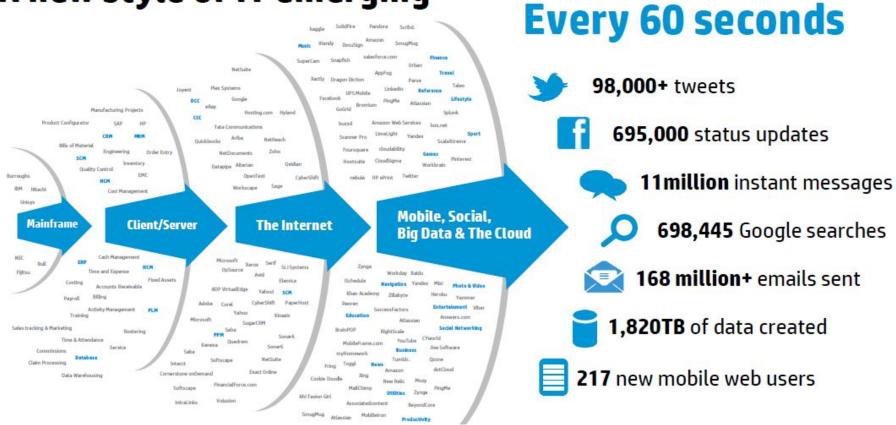


BIG DATA В ПОВСЕДНЕВНОМ БИЗНЕСЕ

What Happens in an Internet Minute?



A new style of IT emerging



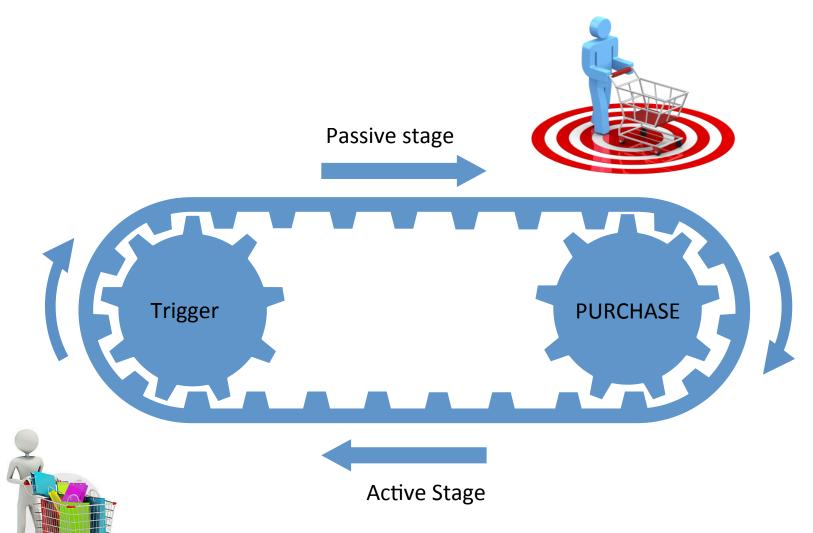








BIG DATA & MARKETING



ประเทรร์แกร.com



BUSINES CASE: BIG DATA &MARKETING

- The majority of online users are now cross-platform
- They are spending more time with digital content across multiple devices
- Engagement with content varies by platform time of day
- Key audiences engage with content differently across PC, Smartphones and Tablets

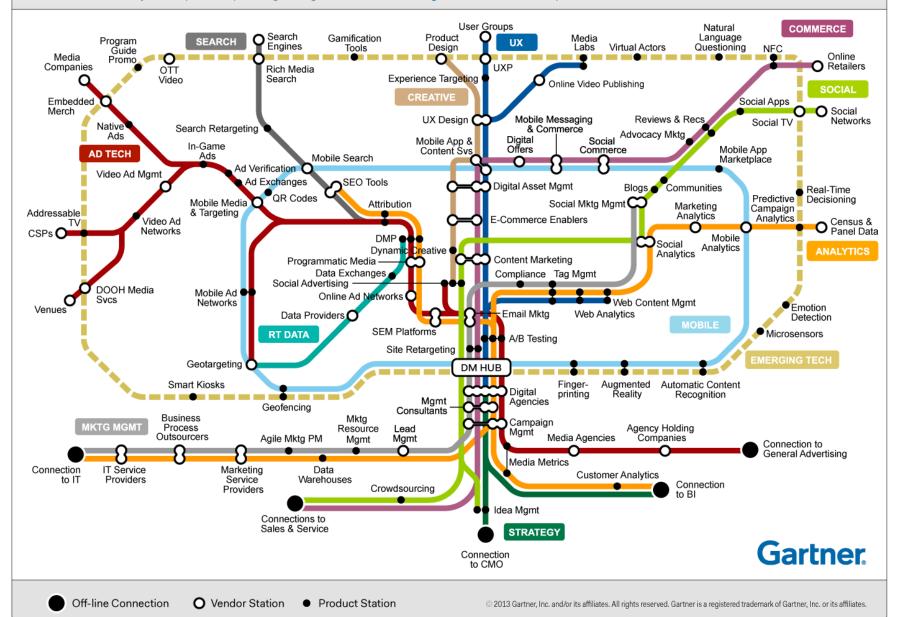
We can foresee now the Revolution of new technologies, which capable to track consumer behavior across all marketing touchpoints (cros-device, cross-chanel) and provide marketers with insights to optimize campaigns business success.





Gartner Digital Marketing Transit Map

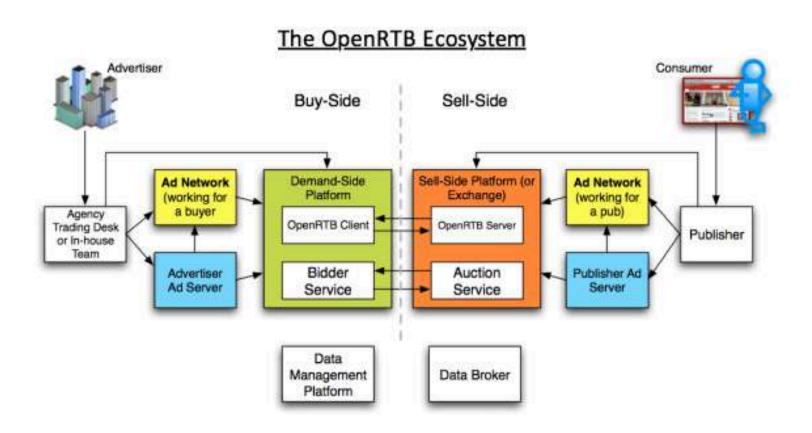
The digital sphere is always evolving. Gartner for Marketing Leaders keeps the CMO and her team connected to the research, so they can keep the competition guessing. For more information: gartner.com/dmtransitmap



Marketing Technology Landscape

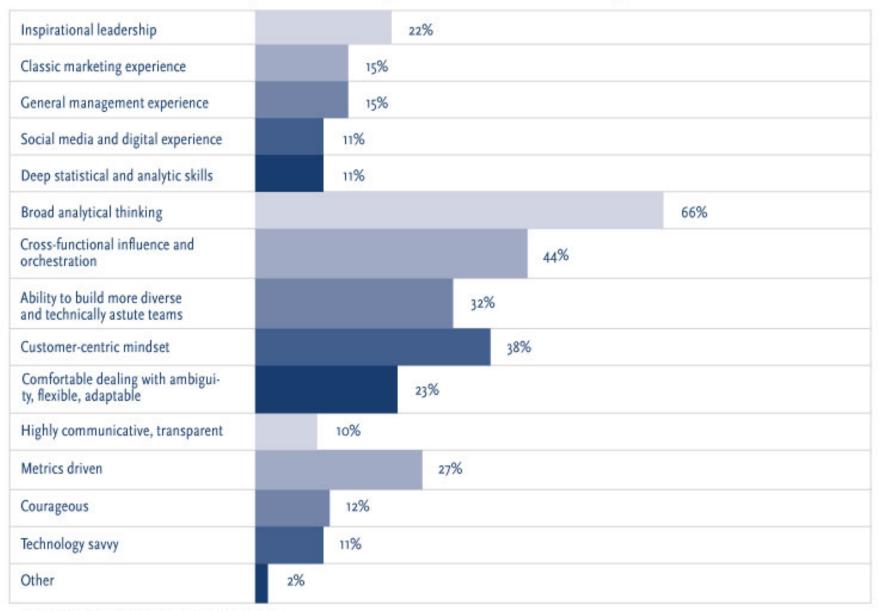


Real Time Bidding systems



Источник: OpenRTB API Specification Version 2.1

What are the "must-have" capabilities and experience for the CMO in a big data environment?



Respondents were allowed to choose multiple responses.

www.digisolab.ru





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