



Cybercom Poland Sp. z o.o. The impact of IT on Busines

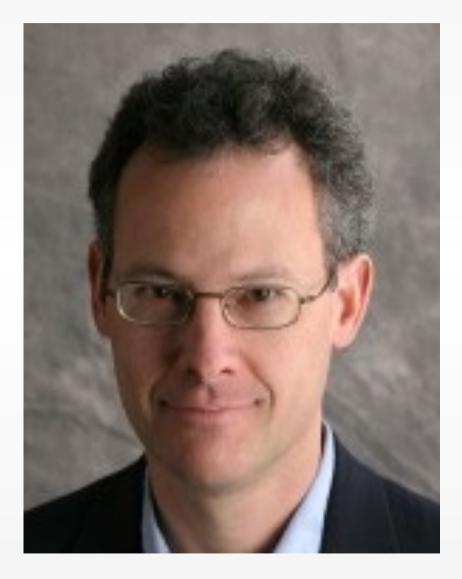
Piotr Ciski Managing Director



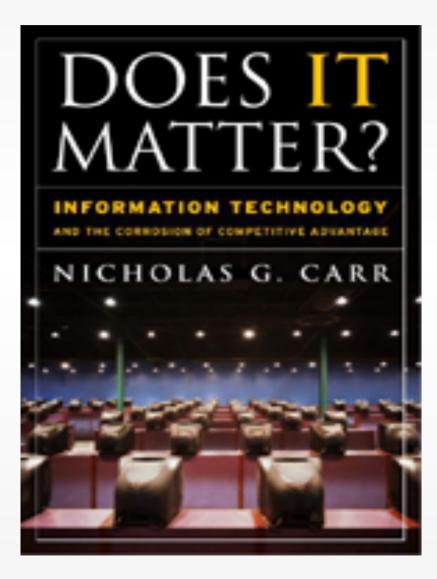
- IT Revolution
- New trends

- Open Source
- Cloud Computing
- SaaS
- World goes Mobile

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Published as article in HBR



"Taking shower every day guarantee business success"





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Definitely "Not" but can we give up taking showers?

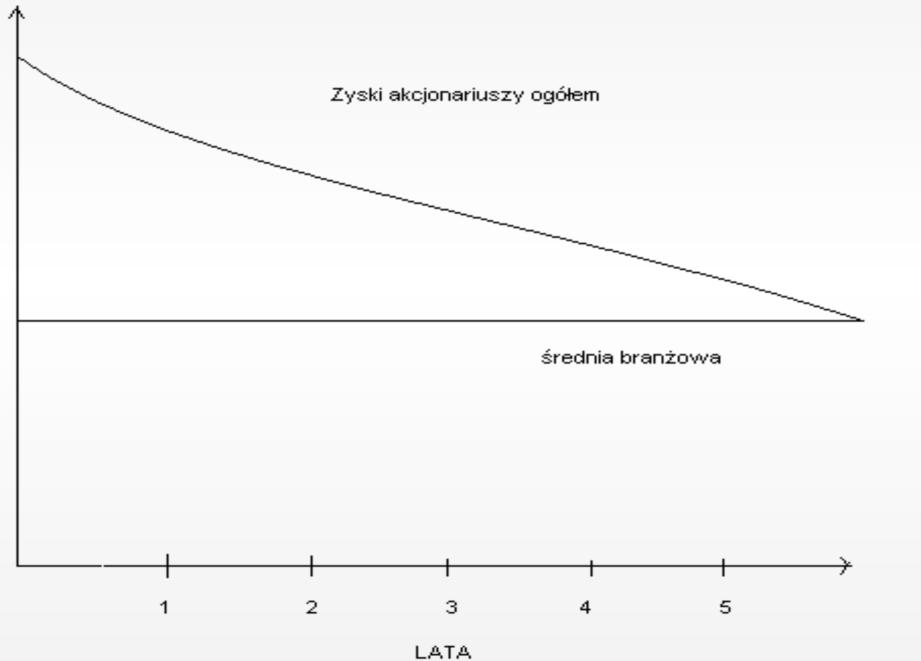
Hygienic factors

- Known to everyone
- Standard
- but you still need to have them to achieve efficiency and to stay in line with your competitors
- "it takes all the running you can do to keep in place!"

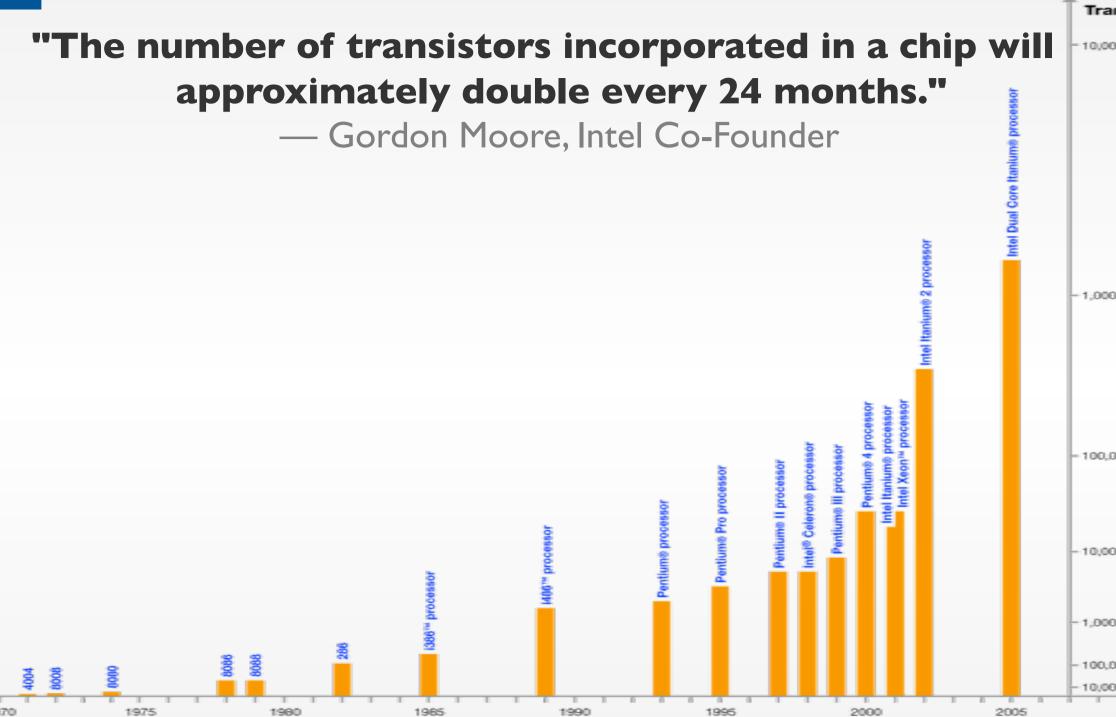
Strategic factors = "scarcity"

Innovative, customised solutions combined with organisation

Regression of champions to average in the industry takes 3-7 ye



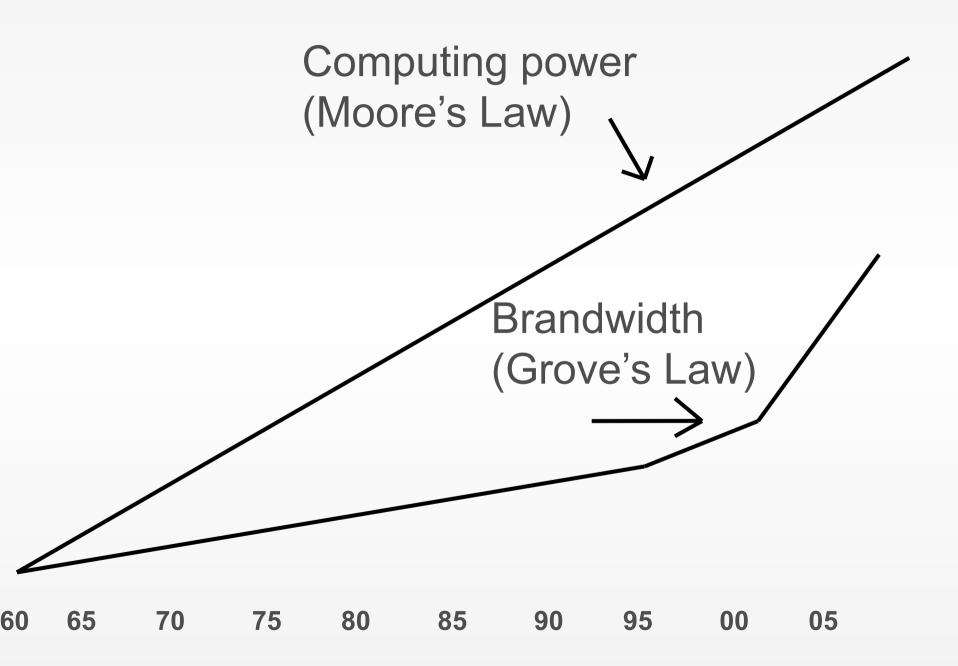
Year	Cost	ComputingPower
1967	10.000.000 USD	1
2002	7 USD	1.508.002
2007	0,07 USD	11.508.821
2017	0,01 USD	670.329.823



lote: Vertical scale of chart not proportional to actual Transistor count.

ear of Introduction







"When the network becomes as fast as the processor, the computer hollows out and spreads across the network"

-Eric Smith 1993

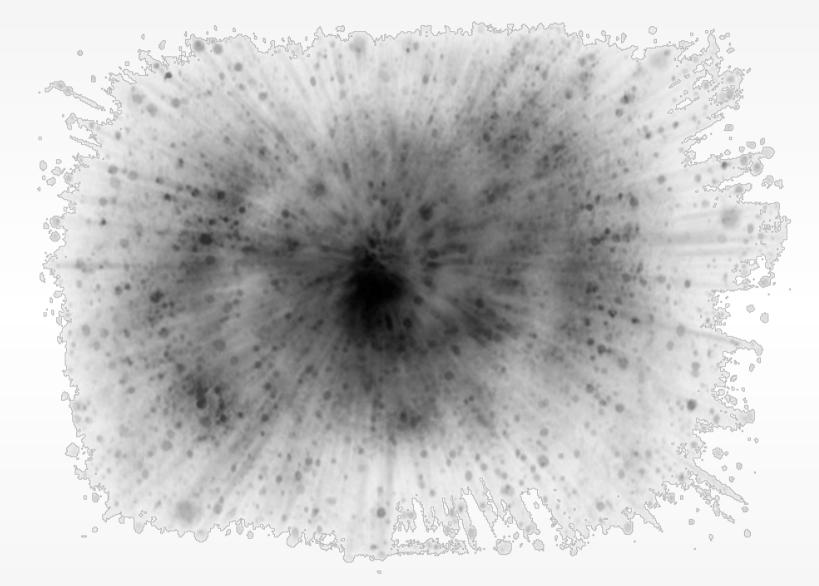


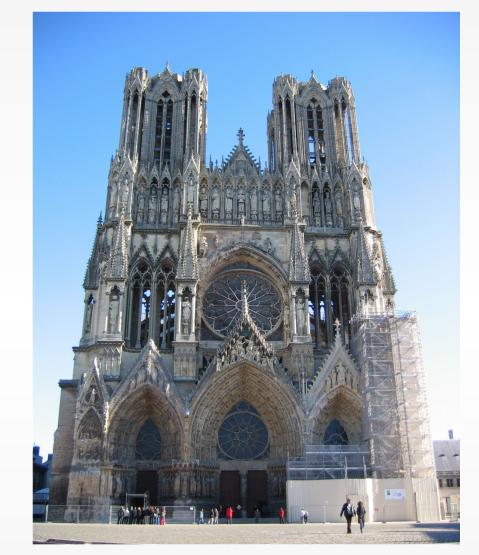
Transaction cost influence organisation structure

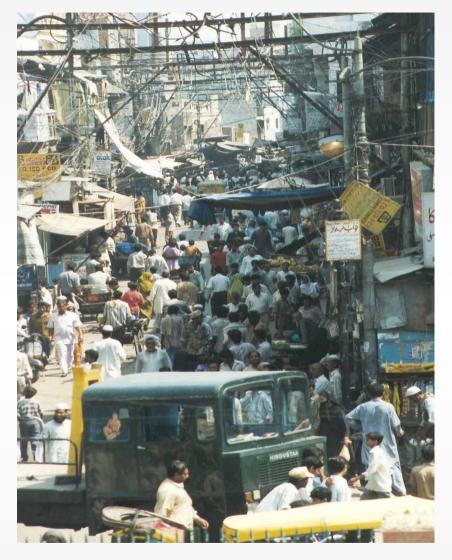
Search and discovery costs
 Communication and coordination costs
 Negotiation and contracting costs

High costs encourage formal organisations

encourages new business forms





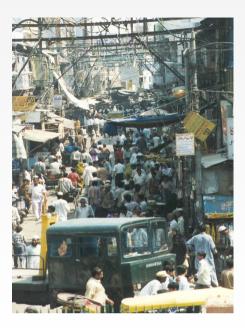


Bazaar

Cathedral



- Top-down
- Hierarchal
- Controlled
- Monetary incentives
- Closed
- Wizards rule



- Botom-up
- Democratic
- Chaotic
- Mixed incentives
- Open
- Masses rule



Open Source Cloud computing

- SaaS
- Open source cloud computing



Open source



Pros of Open Source CRM Solutions

- For free/No license fee
- Free source code, possibility of any modifications suitable to our business needs
- Easy to combine with other systems thanks to well-known technologies and transparent code

Companies using Open Source CRM Solutions - e.g.

- Coca-Cola
- Toyota

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- Fujifilm
- Kia Motors
- AXA =













'In world without fences and walls, who needs Gates and Windows'

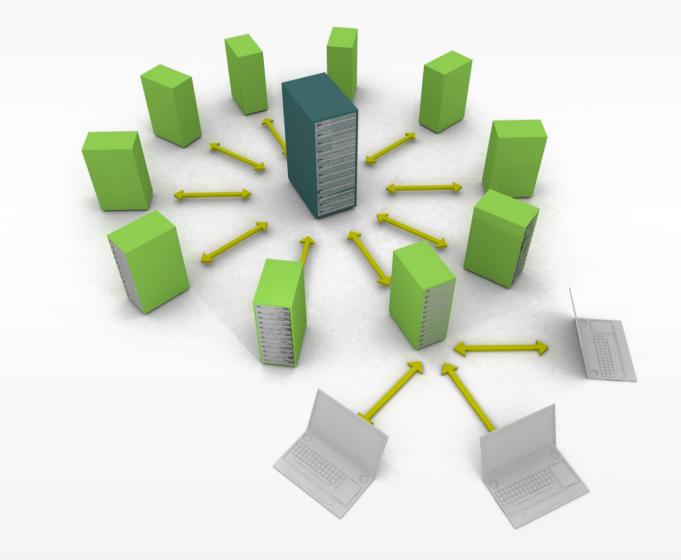


Open Source extended beyond OS:

CRM ERM Office tools Developer tools

Cloud Computing

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What is Cloud Computing?

'It is a general term for anything that involves delivering hosted services over the Internet.'

Three categories

- Infrastructure-as-a-Service (laaS)
- Platform-as-a-Service (PaaS)
- Software-as-a-Service (SaaS)



Three distinct characteristics that differentiate it from traditional hosting

- Sold on demand (typically by minutes or hours)
- It is elastic (use as much as you want in any given time)
- Fully managed by the provider (you only need personal omputer and Internt access)



Costs of ownership - comparison of hosted (cloud computing) and on-premise CRM Application

		Number of users	35
	se On-Premise	On-premise per user software cost	\$795
FTE – Full-time equivalent		Annual software maintenance	22% of software cost
		Cost of server(s) for on-premise software	\$9,000
DBA – Database Administrator		Annual hardware maintenance cost	12%
UPS – Uninterruptible Power System RDBMS - Relational Database Management System		Fully loaded cost of IT resource for support	\$90,000
		Allocation of FTE to support software (Ops/DBA/support)	25%
		Cost of firewall	\$2,500
		Cost of UPS	\$1,200
		Cost of operating system and RDBMS	\$6,500
	Hosted	Hosted cost per user per month	\$70

On-premise CRM Application annual cost about \$ 100.000 Hosted CRM Application annual cost about \$ 800



Document Management Case Study

Some of DocuVantage OnDemand's (Hosted) immediate benefits include:

- Instant access to all of your documents from anywhere with an Internet connection.
- A secure, centralized location for all of your information.
- Boosted productivity and enhanced customer service.
- Ensured compliance with government regulation through permanent online document storage.
- Decrease of manpower

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Sotware as a Service (SaaS)



Profits for enterprise

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- Faster implementation of a system
- Lower costs of implementation
- Lower risk of adoption failure
- No big IT investments, no service
- Lower IT costs, mainly TCO (Total Costs of Ownership)
- Possibility of telecommuting
- Easy-to-use
- Higher product & service quality
- Better accessibility & security
- Monthly fee
- More predictable IT costs





Faster implementation of a system

30 days SaaS, when 12 to 18 months on-premise application

Lower costs of implementation

25% to 40% of those for an on-premise implementation, as measured in terms of the costs for internal staff and professional services

Lower risk of failure

SaaS provider is a professional company with deep knowladge, experienced and focused on adoption success

No big IT investments, no service, low TCO

All IT devices are hosted by provider. Only PC and internet access required

Possibility of telecommuting

Employee can work anywhere, because only PC and internet is required

Easy-to-use

Friendly interface, intuitive operation, run on all PC's

Higher product & service quality

Permanent upgrades of SaaS

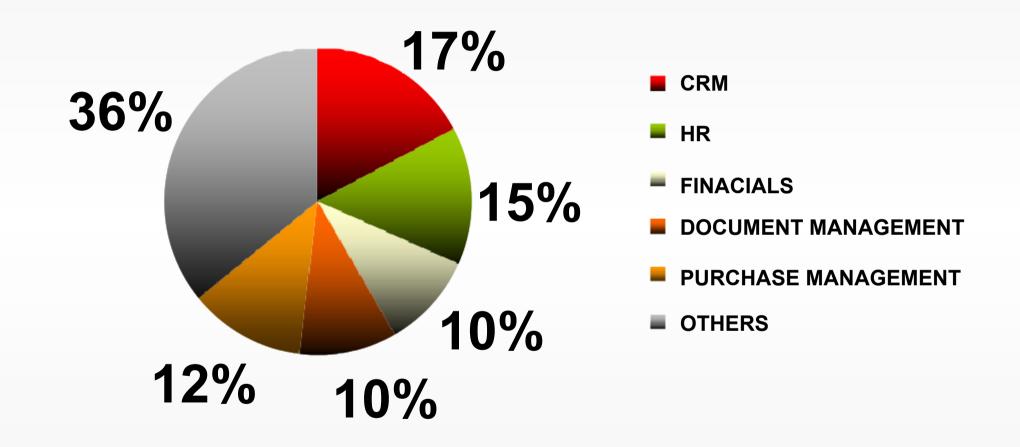
Better accessibility & security

Datas are stored in secure data centers, they are transferred to the external servers via encrypted channel

Monthly fee, More predictable IT costs

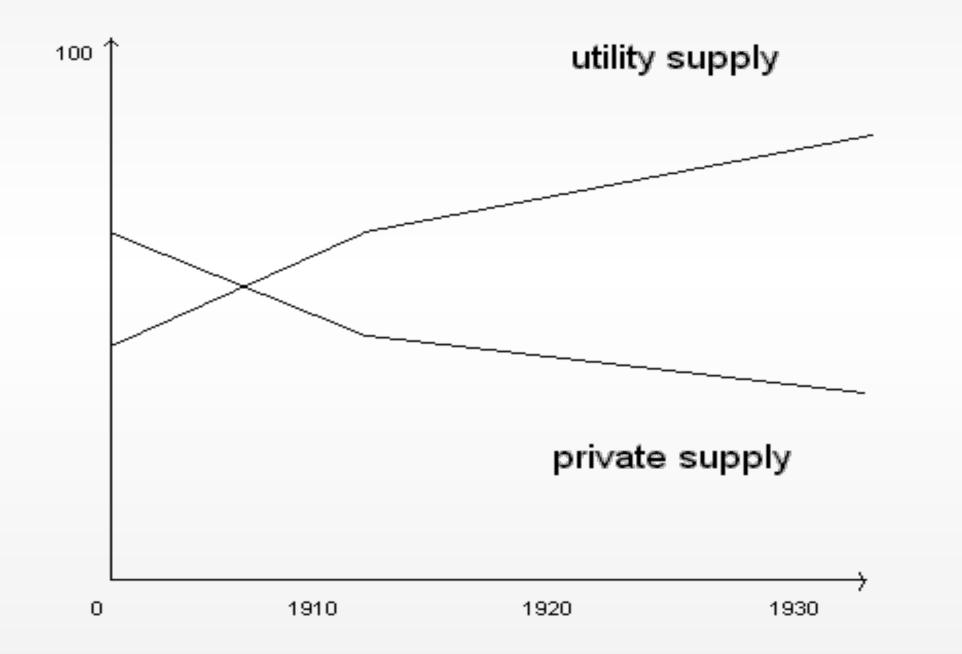
Thanks to fixed rates it is easy to predict a stable schedule of costs that are spread over time and easy to predict

The most popular SaaS



Source: Own elaboration based on Gartner

Source of electricity (%)





✓ Capacity

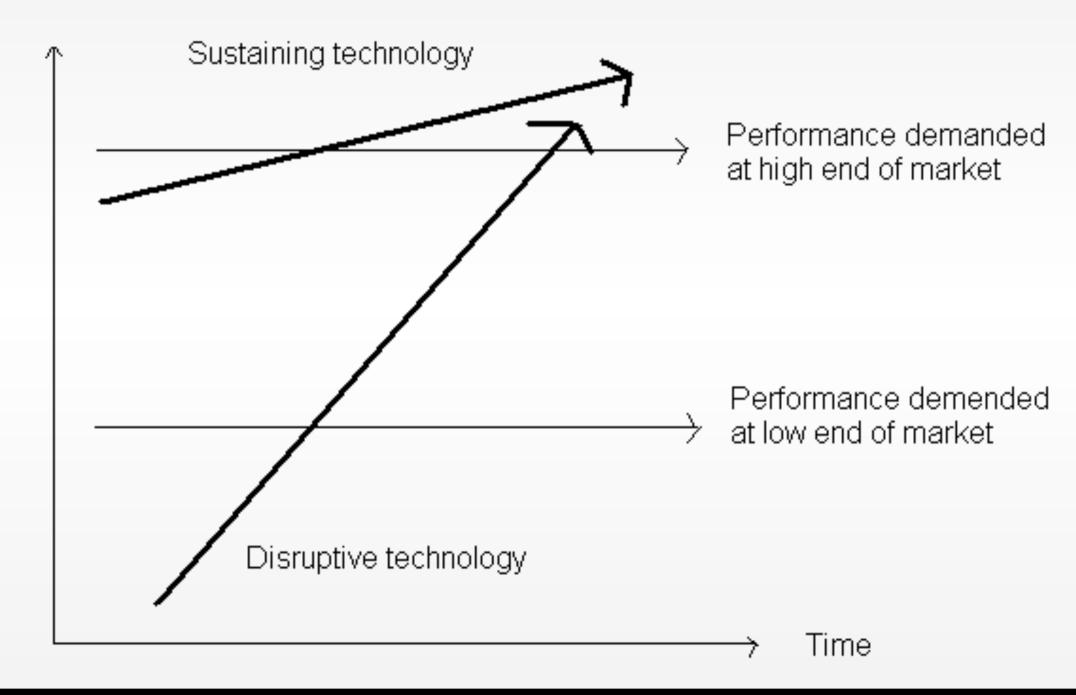
Security (data and infrastructure) Reliability

Connectivity

Standards (data portability) Fear of change



Performance

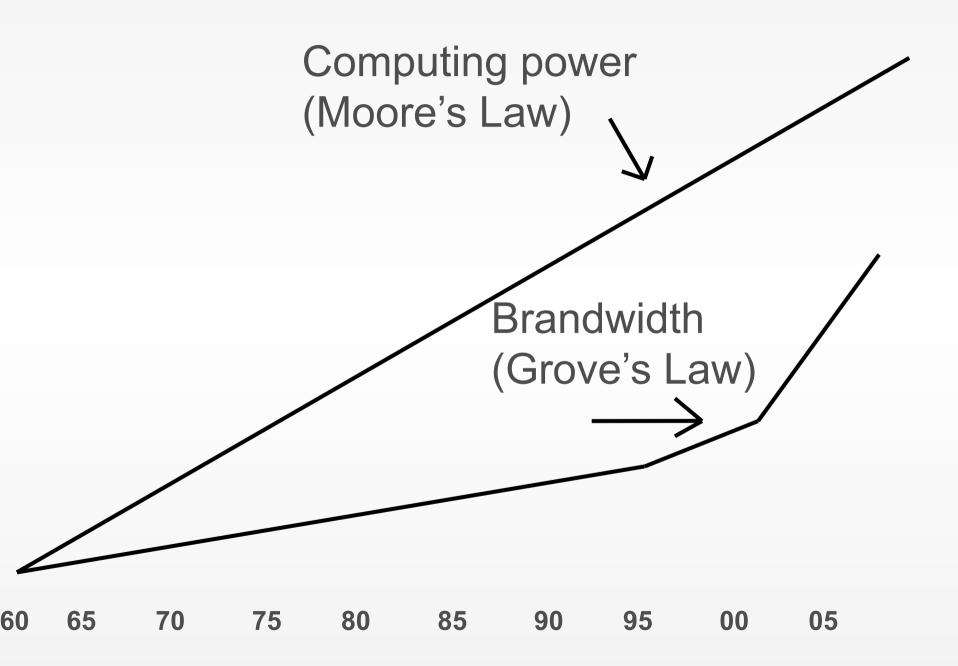




The world goes mobile









- The number of devices connected to the network in the world exceeded 5 billion
- Billion desktops and laptops are connected to the Internet
- The remaining four billion are mobile phones, tablet PCs, netbooks, cameras, cars
- By 2020, the number of active devices in the network will more than quadruple, reaching 22 billion

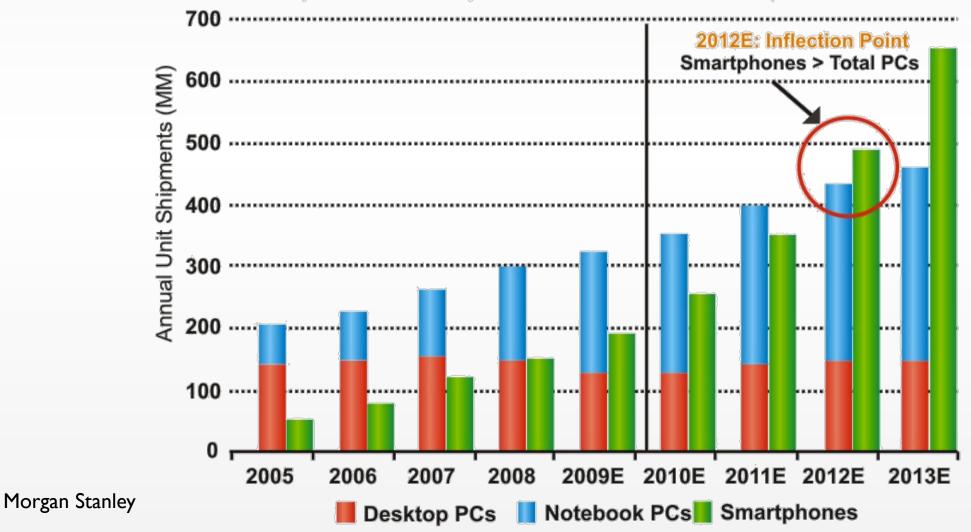


(Source: IMS Research)

Smartphones better than computers in 2010???

Smartphone > PC Shipments Within 2 Years, Global -Implies Very Rapid Evolution of Internet Access

Global Unit Shipments of Desktop Pcs + Notebook Pcs vs. Smartphones, 2005 - 2013E



:UKE)

etration of SIM cards at the end of 2009 amounted to over 117.4%, which 44.8 million active cards, and a 53% increase compared to 2005

veen 2005 and 2009 the number of **fixed broadband lines increased 155%** (from 2.02 million to 5.16 million)

ce of I Mbit / s offered by operators in 2005 dropped on an age by 52% (TP and Vectra) and by 65% (Netia) in 2009

etration of the SIM card market in 2013 will exceed **130%**

l the number 50 million

amically growing number of oile Internet subscribers and icipation of non-voice enue of operators (M2M)

Nominal number of users and market¹⁰ ration in Poland in 1997 – 2009 5





Polish market

- I million of sold smartphones in 2009
- Growth of I2% YOY in opposit to simple phones
- I 6% of sold mobile phones will be smartphones 2010 forecast

Global market

- I74,3 million of sold smartphones in 2009
- I 2,7% of sold mobile phones were smartphones 2009

Simple Vs. Smart Phone

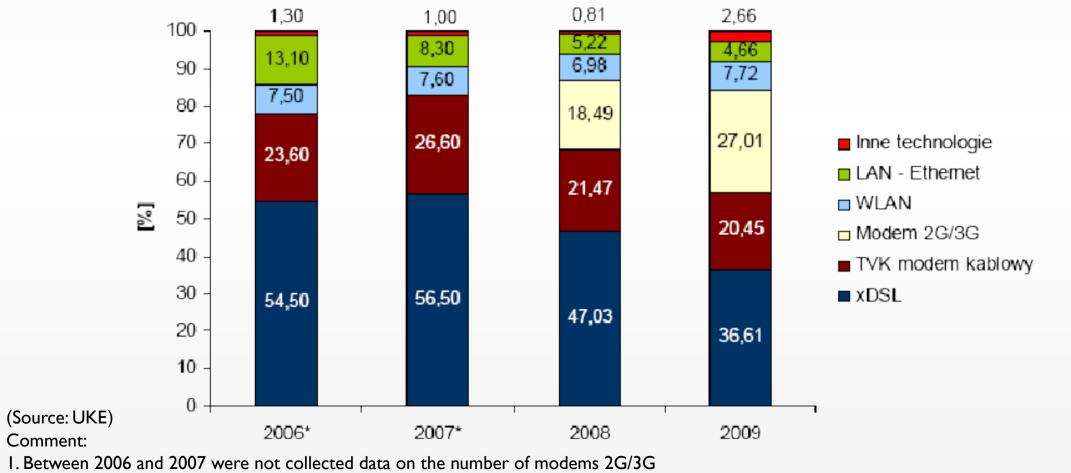




In Poland, there are now virtually all the possible technologies used to provide broadband services.

The main technologies of permanent Internet access remains xDSL, cable modem, CATV and LAN / WLAN Ethernet.

Chart: Percentage of different types of connection technology in the years 2006-200



2. Category 'Other technologies' technologies include CDMA, FWA, WiMAX, leased lines



- MBA Services (Mobile Business Aplications) mobile applications
- SaaS Services (Software-as-a-Service) IT solutions and products sold as a service
- Customized solutions (Custom Development) for corporate client
- M2M Services (Machine-to-Machine) built on the GSM / UMTS, enabling remote management and monitoring devices: individual objects and entire production processes
- Mobile Digital TV (DVB-H) convergence of

the telecommunications and media





- Evolution towards 4G LTE systems (Long Term Evolution) and UMB (Ultra Mobile Broadband)
- Long term next generation network NGN (Next Generation Network) – convergence of telephony and data transmission, the integration of devices using different network standards (WiMax,Wi-Fi,WCDMA

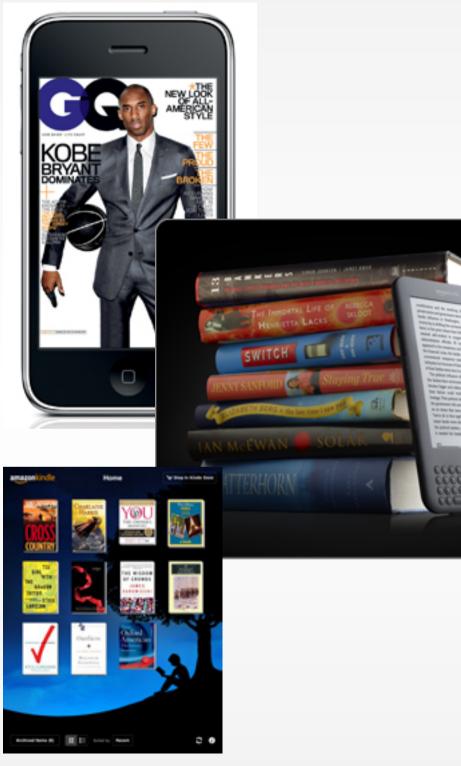
The new iCube Shuffle ISOO kongs 28,000 photos 40,252,000 274,408,056,000 combinistions

New media and entertainment

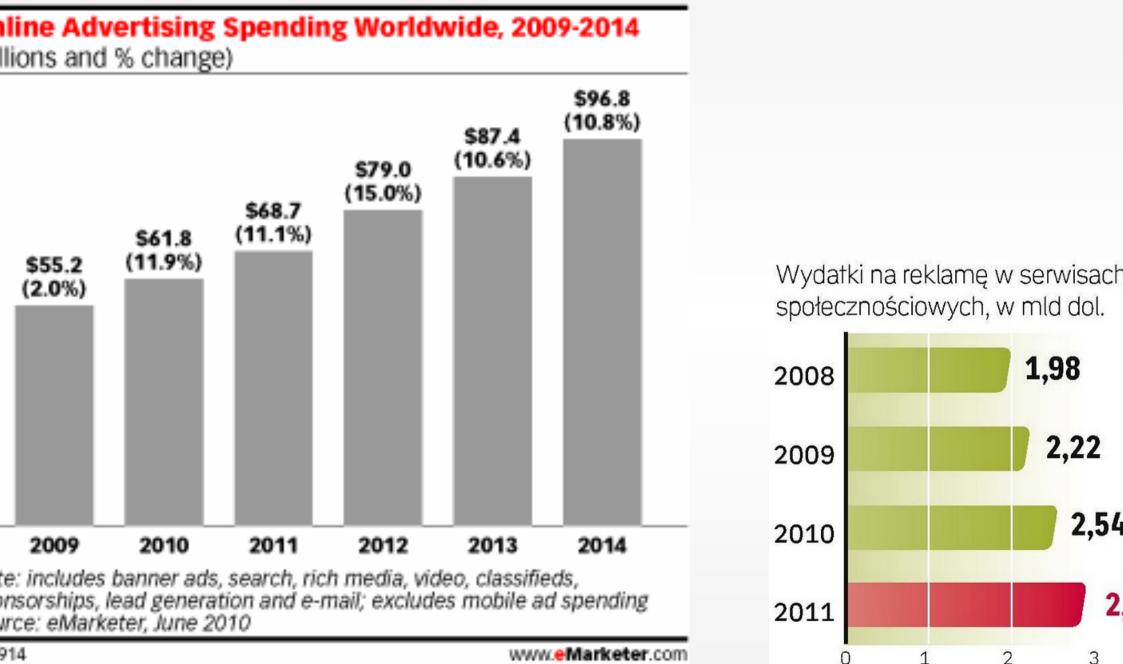
- music
- books,
 - newspapers,
 TV,
 Games,



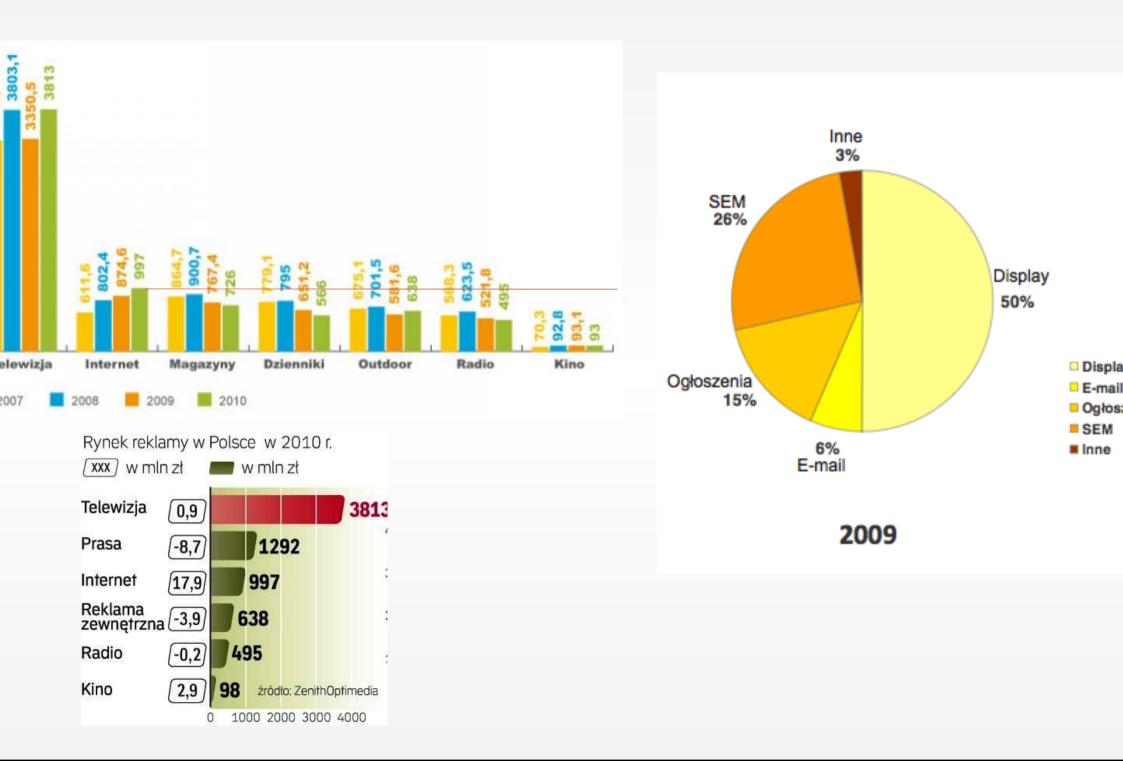
Social networks



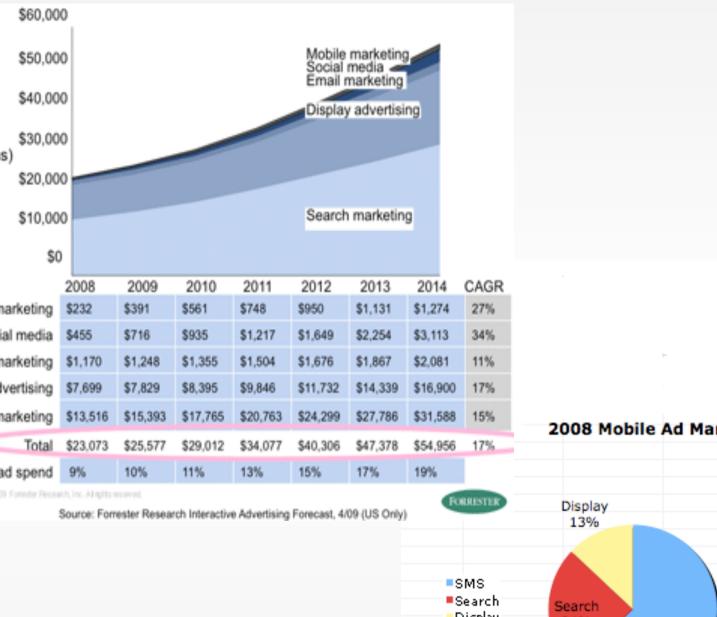




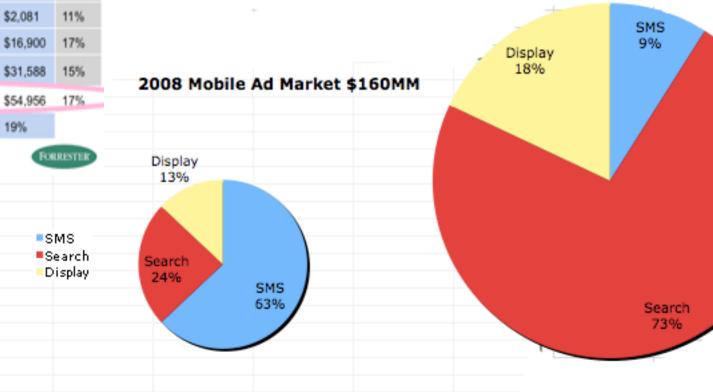








2013 Mobile Ad Market \$3.





"Mobile field workers need mobile data"

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Willie Jow, vice president at Sybase
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"Enterprise-wide mobility is not happening. But business units are in fact mobilizing their workers because they see the ROI"

Clyde Foster, vice president, Services and Software at Nokia

"Email has become ubiquitous"

Sal Tirabassi, partner in MC Venture Partners

Potential workes

- Insurance claims adjusters
- Engineers
- Repair technicians
- Managers
- Pollsters
- Merchants
- Sales reps / Vendors
- Truckers / suppliers
- Taxi drivers





Insurance Claims Adjusters

Case of car accident

- All information about client in a system on a mobile phone (insurance premiums, car history, policy details)
- Take photo by phone (staright to a system)
- No paperwork (claims and damages straight to a system; environment protection – CSR value)
- Estimated value of compensation (access to new parts prices – body shops)

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- Savings on time and costs of computers
- Usage of only one device
- Serving more people in the same time







Repair technicians

- All information about device in mobile phone (technical drawings, specifications etc.)
- Take a photo of a broken element
- Information about client (e.g. servicing)
- Information about stocks in a warehouse with option to order
- Plug in with mobile phone to a software of repaired device
- Signatures
- No paperwork
- Localization
- Possibility to connect the printer

Sales reps

Key Features:

- Active sales:
 - Collecting orders
 - Checking deliveries and order status
 - Preview
 - Stock
 - Product range
 - Payment history
 - Active Sales reporting
- Reporting: work load (time sheets), meetings
- Secure access to the intranet
- Possibility to connect the printer
- Localization (option)
- Signatures



Pros and cons of mobile working

Pros:

- Increased Productivity
- Working in real time
- Flexible working
- Cost reduction
- Responsiveness

Cons:

- Limited interaction
- Motivation
- Relations may deteriorate



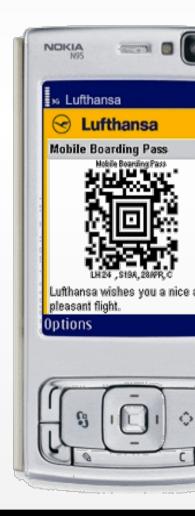
Lufthansa Check-In by Mobile

- Enter card number/booking code, Last and First name
- Check-in / you can check-in your companion
- Select seats

- Choose the way in which your boarding pass has to be sent (mobile or e-mail) – type phone number or e-mail adress
- Receive Mobile Boarding Pass QR code

Other eFly Services on mobile

- Flight status
- Timetable
- Booking
- Miles & more
- My bookings
- Info & service
- Entertainment



Mobile Wallet (NFC) in Poland

- New way of payments
- Near Field Communications(NFC) is a wireless technology that allows the exchange of data in a short distance

PTC, Intligo & MasterCard

- They begun first NFC payments in our county
- Transactions valued up to 50 PLN without PIN or signature authorization
- Over 10.000 points of sale in Poland
- Samsung Avila with special chipset that is normally put in contactless cards is used instead of card

PTC & Polbank EFG

They partnered in a new project, which effect was PayPass contactless sticker that can be put on the back of the mobile phone. This specific card is connected to customers bank account and works as a normal PayPass debit card.

Intelig







- Our client : Tele-P and Modul System (Sweden)
- Mobile applications (Java) for registering of the user, turn on/off time of parking or purchasing the ticket
 - access also via IVR
 - SMS notification about the status of parking
- Payment by credit card
 - www or mobile application activation process
- Projects wholly developed by Cybercom Poland



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'Shopping smarter with Google Shopper'





How does it work?

Searching

- Search by voice (say the name of the product)
- Scan the cover (point camera on the cover and take a photo)
- Scan the barcode (take a photo of the barcode)
- Type your search

Information about

- On line prices
- Detailed product information
- Local stores (prices in nearby stores
- Share with friends
- Save your history and favorites

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Hygienic factors

- Known to everyone
- Standard but you still need to have them to achieve efficiency and to stay in line with your competitors
- "it takes all the running you can do to keep in place!"

Strategic factors = "scarcity"

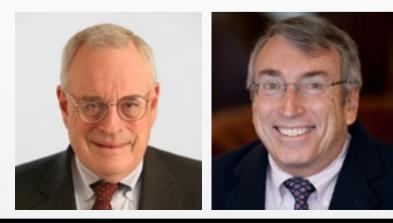
Innovative, customised solutions combined with organisation adaptation



"Grid computing, standardization of components, and open systems, far from stifling differentiation, provide a stable platform to build on and offer new ways of differentiating either by cost, structure, product, or service"

"Outsourcing the commodity infrastructure is a great way to control costs, build competence, and free up resources, which can be used to combine data bits in creative ways to add value. "

> F.Warren McFarlan Richard L. Nolan





Strategic factors = "scarcity"

Innovative, customised solutions combined with organisation adaptation



Thank You !

