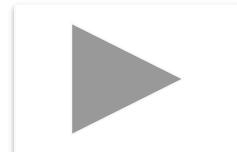




Digitalna transformacija i industrija 4.0

Prof. Dr. Velimir Srića

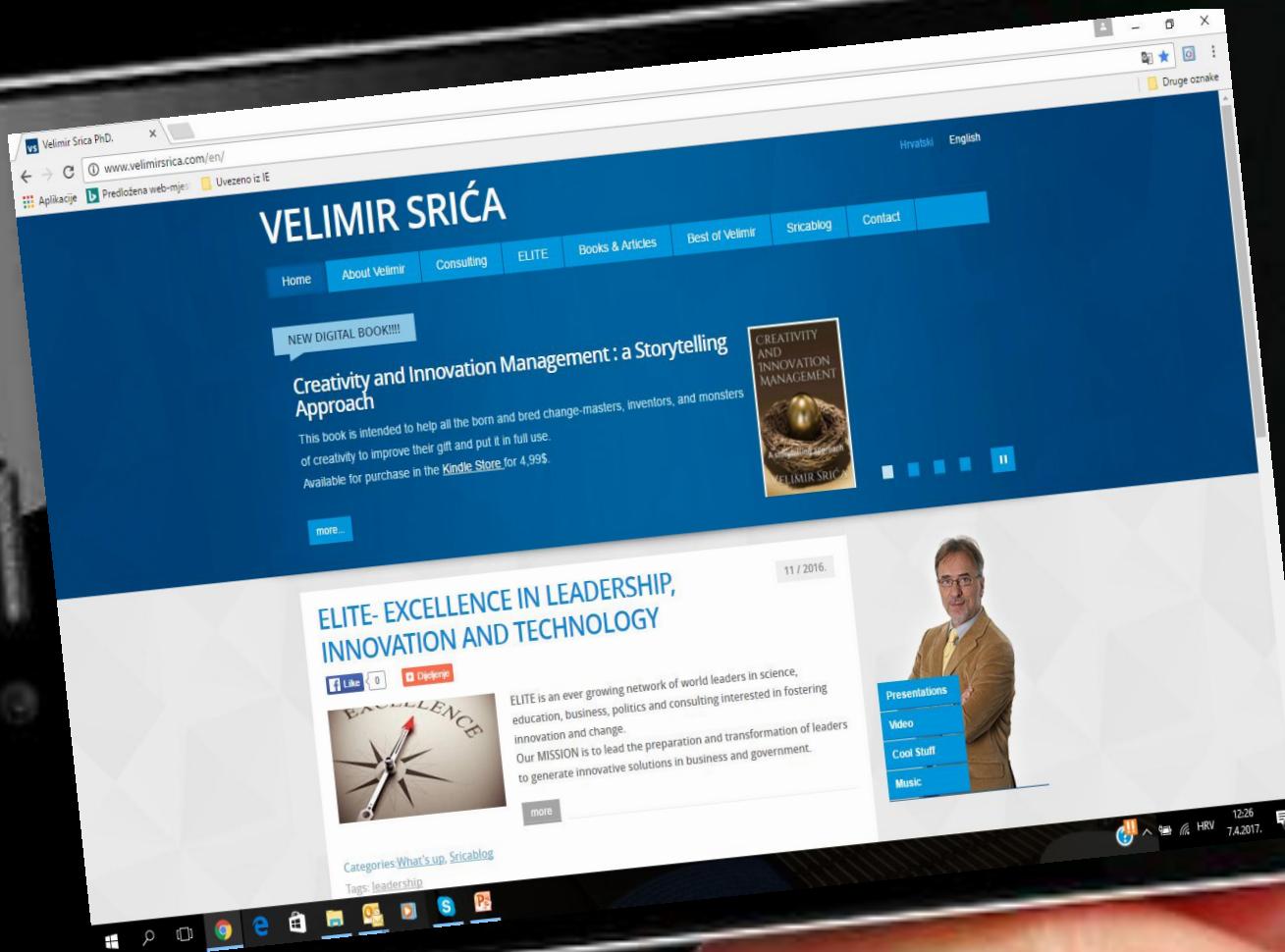


Digitalna transformacija i industrija 4.0



VELIMIR SRIĆA,

O meni: Web LinkedIn Facebook



The VUCA Times

Živimo u doba koje vojni analitičari zovu "VUCA times" :



Volatility
Uncertainty
Complexity
Ambiguity

Na Zulu jeziku, **vuca** znači
"probuditi se"



Da vam je netko 2007. godine rekao

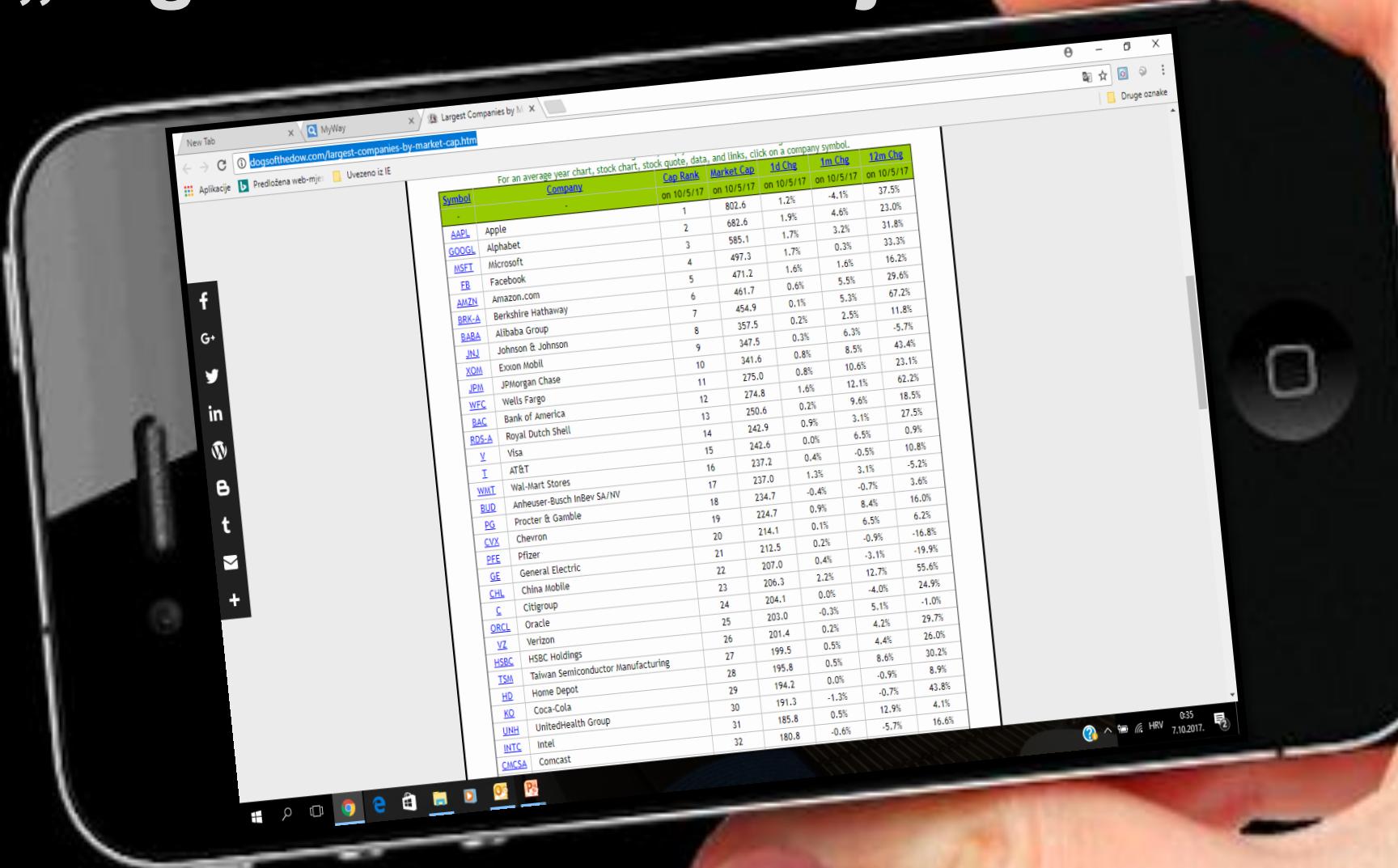
- najveća medijska kuća neće biti vlasnik medija
- najveća transportna kompanija neće imati vozila
- najveći ponuđač smještaja neće imati nijedne sobe
- najveći B2C trgovac neće imati zaliha
- najveći B2B trgovac neće biti trgovac
- najveća banka neće biti banka



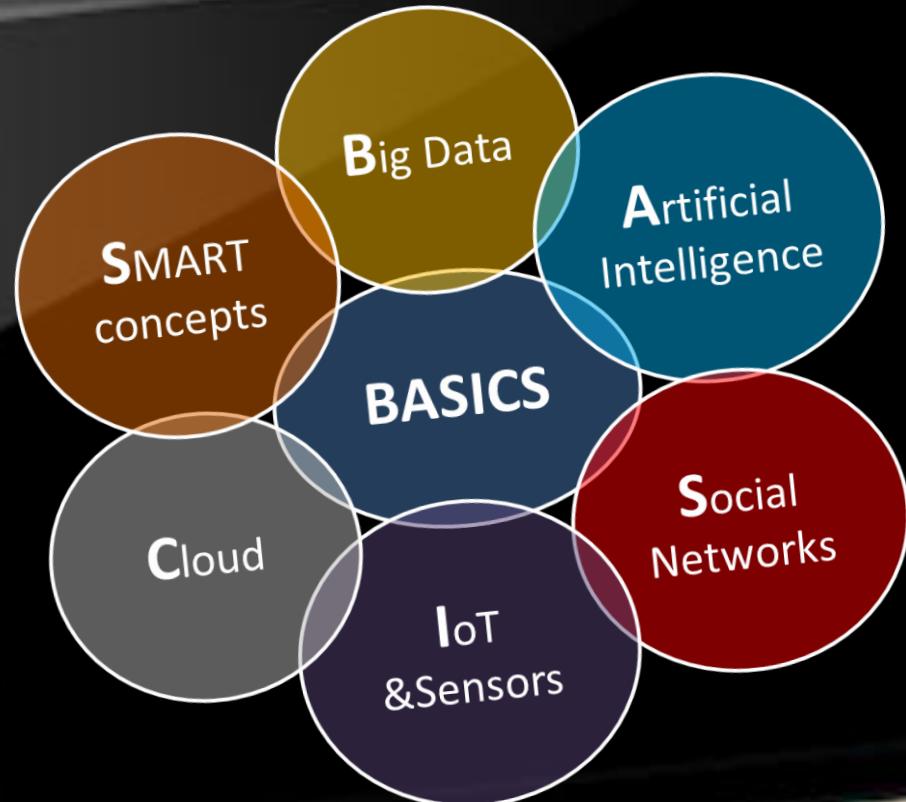
SAP Ariba 



„Digitalno“ vlada svijetom

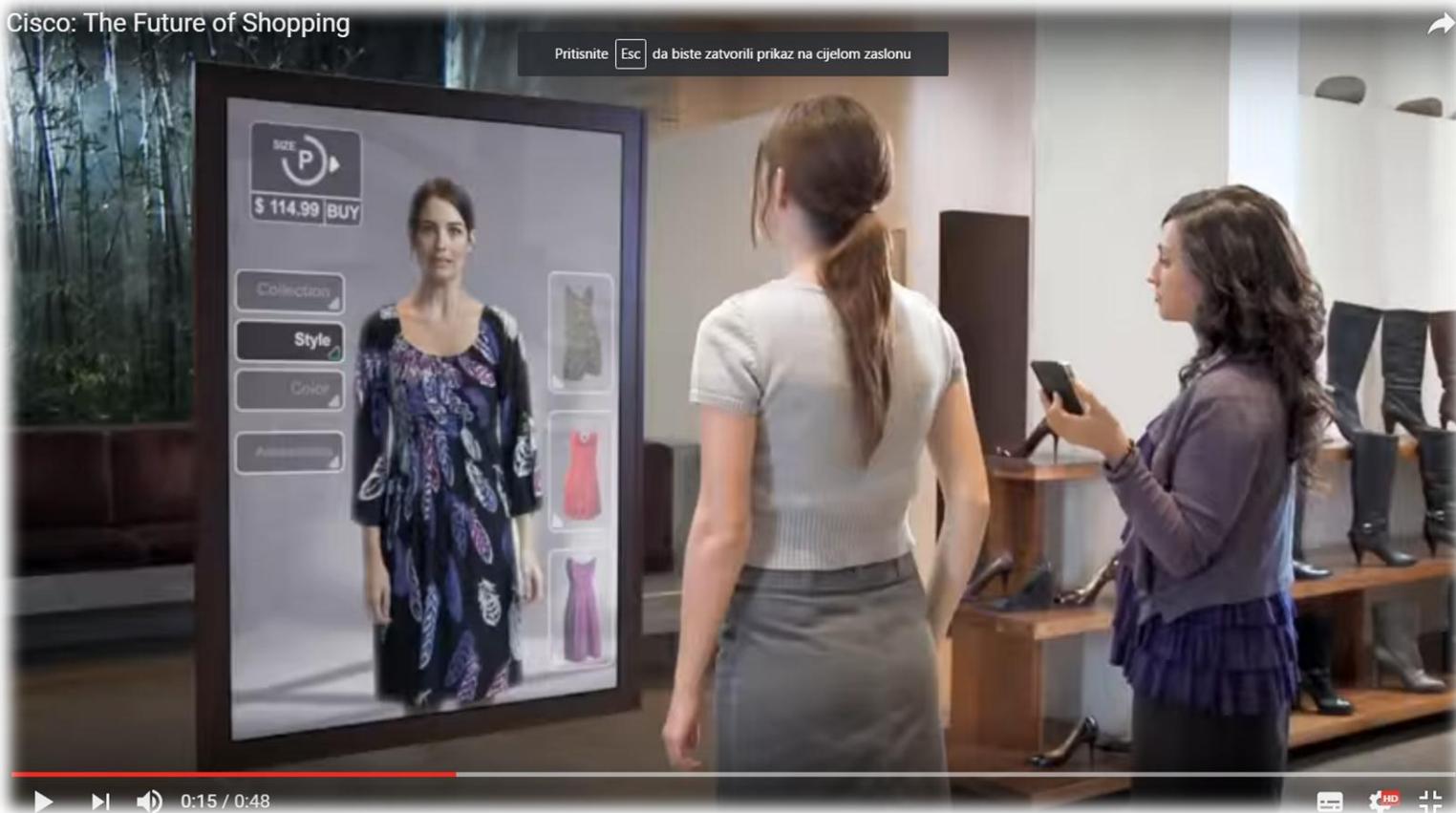


Digitalna Transformacija – **BASICS**



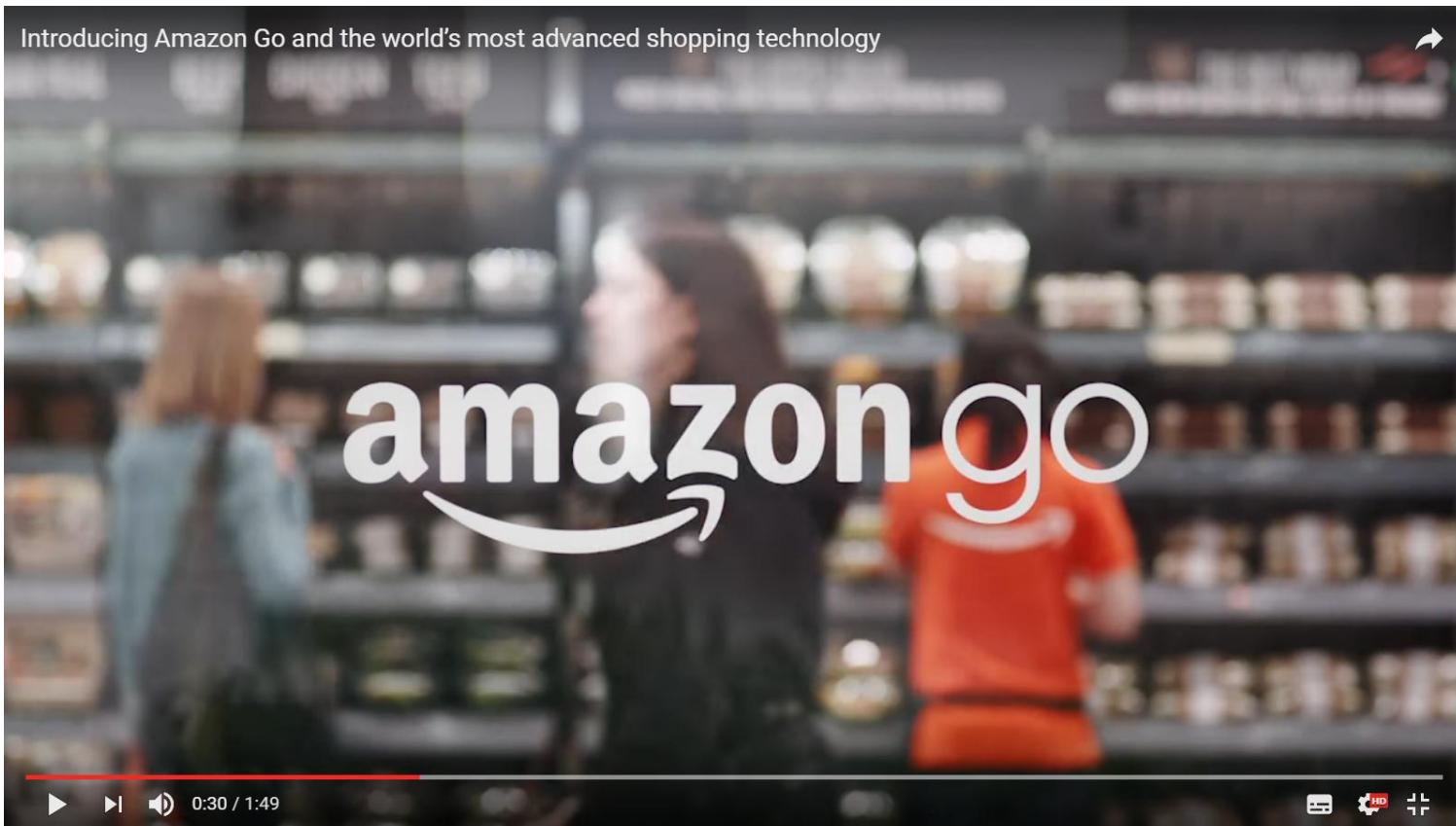


1. The Future of Shopping 2010





2. Amazon Go





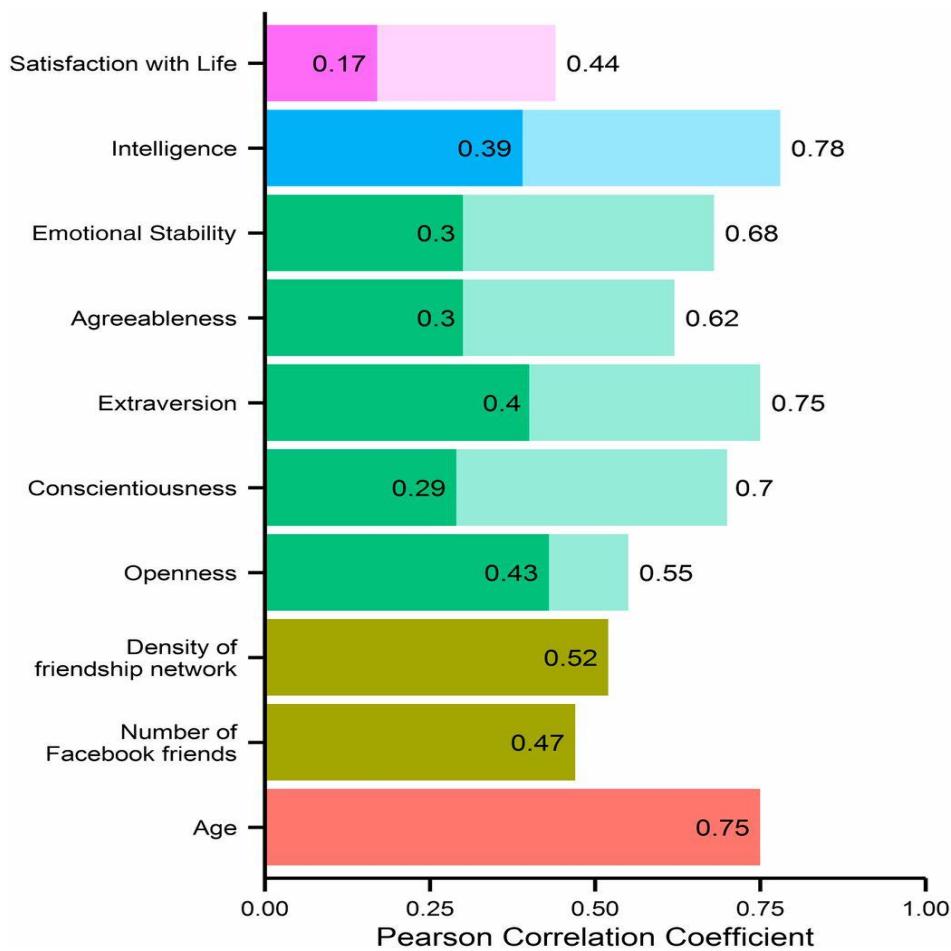
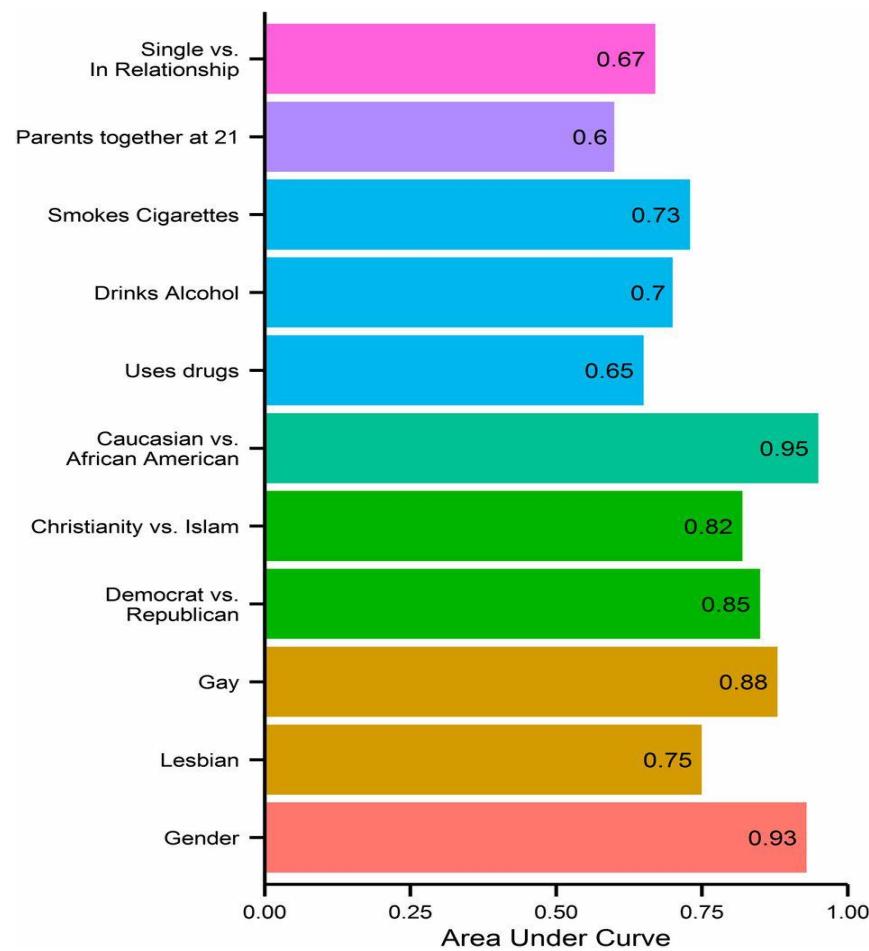
3. Facebook Lajkovi i politika

- Michal Kosinski, Stanford University 2013.
- Analiza podataka 58.000 volontera
- Cambridge Analytica, BrExit i Trumpov izbor





Točnost predviđanja Facebook Lajkova





4. 3D model nerodene bebe

Ultrasound Images of Unborn Fetus Turned Into 3D Prints





5. „Digitalna” promjena ponašanja

- Piano stepenice





Što je digitalna transformacija?

- Upotreba informacijsko-komunikacijskih tehnologija kojom se **suštinski unapređuje** neki aspekt gospodarstva ili društva.
 - „D“ – digitalna tehnologija
 - „X“ – transformacija i reorganizacija
-
- „D“ – Infrastruktura (ŠTO i KAKO)
 - „X“ – Kultura i vrijednosti (ZAŠTO)



Efikasnost digitalne transformacije

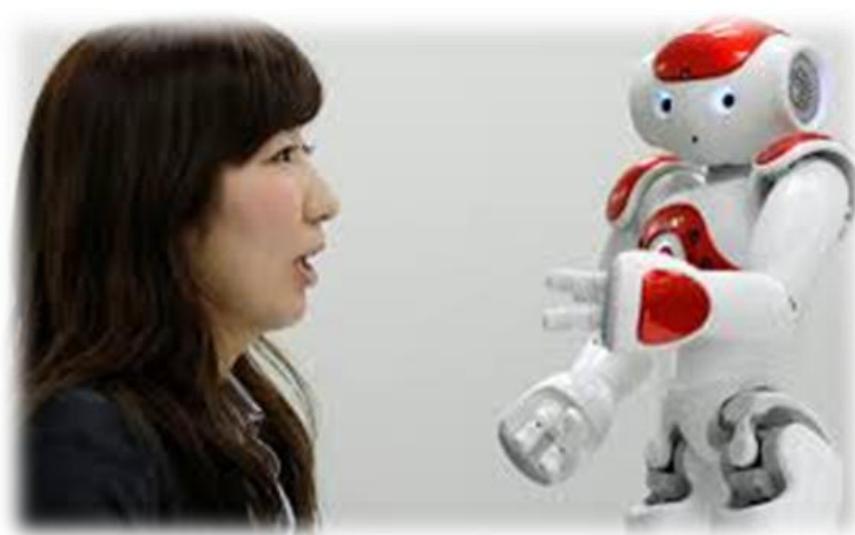
	Encyclopedia Britannica	Wikipedia
Established	1768	2001
# of articles	65,000	6,816,935
# of languages	1	271
# of words	40 million	3 billion
Updated	Annually	Real timer
Errors per article	2.92	3.86
PRICE	729€	free





Roboti mijenjaju ljudе

- Robot na recepciji
- Do 2020 roboti će zamijeniti mnoge šalterske službenike
- U SAD 90% pravnika postat će suvišno; pravni savjet roboata je 90% točan (70% kod pravnika)



6. AI 2017 – Roboti zamjenjuju radnike





7. SMART transport - Self-driving Car





8. SMART Dostava





9. Data = Power

Acxiom – najveća kompanija za koju niste nikad čuli

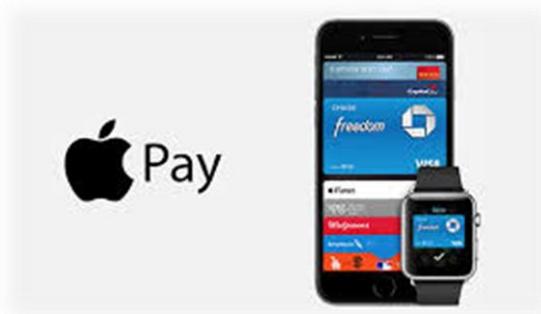
Baza od 500 milijuna potencijalnih klijenata – podaci dobiveni „analizom” 50.000 milijardi „transakcija”

The screenshot shows the homepage of Acxiom's website at www.acxiom.com. The header features the Acxiom logo and a navigation bar with links for AboutTheData.com, Careers, Investors, Contact, and U.S. The main banner has a background image of a person's hands holding a smartphone over a laptop keyboard. The text "The power of better connections." is displayed above a quote: "When you help connect your audience to things they truly care about, something powerful happens. You become a part of the conversation. That's a pretty awesome place to be." A "LEARN MORE" button is visible. Below the banner, a text box states: "Acxiom's data and technology have transformed marketing – giving our clients the power to successfully manage audiences, personalize customer experiences and create profitable customer relationships." At the bottom, a green banner reads: "BREAKING NEWS: SEE HIGHLIGHTS OF ACXIOM'S STRONG PERFORMER RANKING IN THE FORRESTER 2015 CUSTOMER INSIGHTS SERVICE PROVIDER WAVE". The browser's address bar shows the URL www.acxiom.com.



10. SMART Banking

- Apple pay
- Google walet
- Samsung smart pay
- Facebook banking - Deniz Bank, Turkey
- PayPal on ebay
- Cryptocurrency Market



Što kažu konzultantske kuće (Accenture, McKinsey, Capgemini)

- DT je „hit” u 70% kompanija u 2017.
 - 90% menadžera smatra „digital is strategic priority”
 - 80% organizacija ima digitalnu strategiju
 - 40% nije započelo „digitalnu transformaciju”
 - 90% vide veliku potrebu za “digital talent”
 - 7% kompanija je „digitalno integrirano”
 - One su 2X natprosječne u profitu & rastu
 - Većina menadžera stavlja fokus na “D” (digitalni alati), a ne na “X” (organizacijske promjene i inovacije)



Priča o PET Majmuna



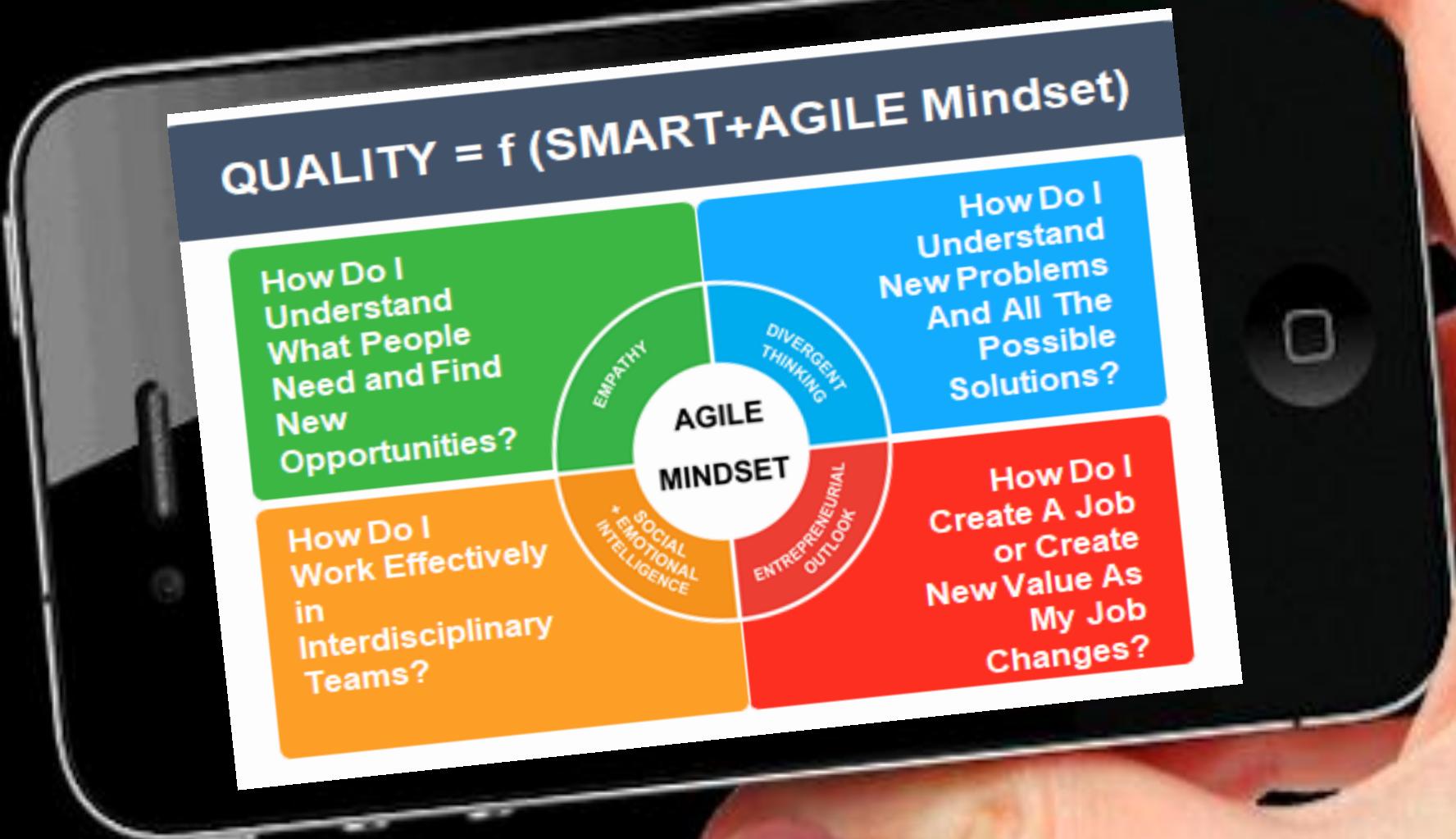
DIGITALNA TRANSFORMACIJA traži
novu ORGANIZACIJSKU KULTURU!

Menadžeri moraju proći VUCA TEST

Volatility Vision
Uncertainty Understanding
Complexity Clarity
Ambiguity Adaptability

Trust reestablish candor
Empathy "be in their shoes"
Sustainability protect environment
Transparency ... open and cooperative

Empatija i agilnost



Kultura digitalne transformacije

- From hierarchy to wirearchy
- Crowdsharing (airbnb, uber, BlaBlaCar, Letgo),
- Crowdsourcing (Clickworker, Amazon Mechanical Turk)
- Crowdlearning, MOOC (Coursera, EdX...)
- Crowdfunding (Kickstarter, IndieGoGo, Tubestart)

Od hijerarhije prema
DRUŠTVENIM MREŽAMA

Transformacijski „Mindset”

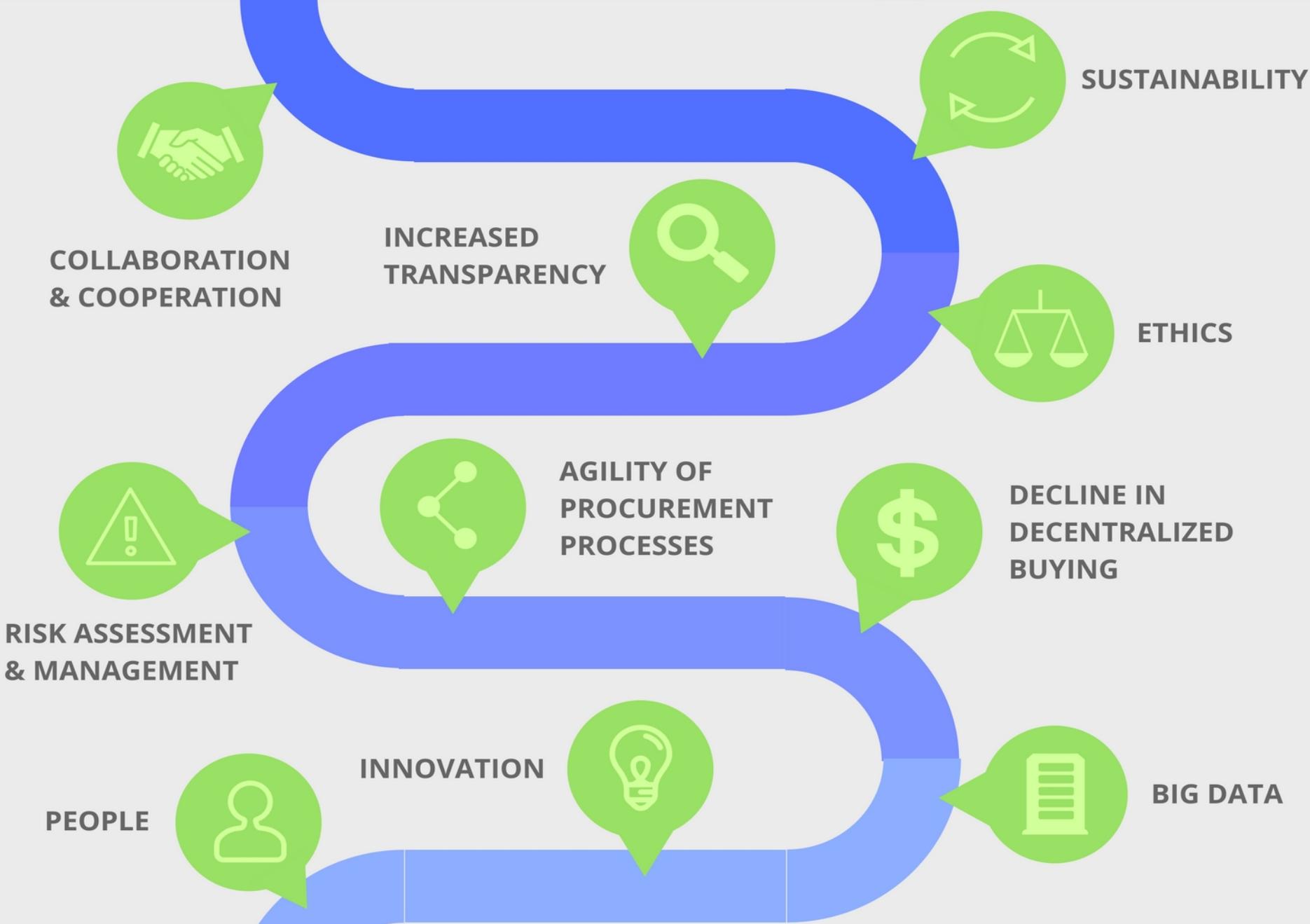
CHARACTERISTIC	Organization Type		
	BUREAUCRATIC	DIGITIZED	CATALYTIC
Mindset	Traditional	Transformative	Catalytic
Goal	Status quo	Incremental increase (10%)	Exponential increase (10X)
Business Objective	Growth, profit	Transformed organization	Social impact, social change
Executive Change	Leader	Transformer	Catalyzer , social entrepreneur
Decision-Making	Slow, resisting	Evolutionary, intermittent	Revolutionary, continuous
Problem Solving	Outvoting	Business model	Consensus
Key Resource	Empirical	Innovative	Iterative, visionary
Organization	Money	Creative ideas	Values, agile team
Innovation Authority	Rigid and stable	Digitally integrated, open to step-by-step change	EXO organization, flexible and dynamic
Control	R&D	Open innovation	Rapid Innovation Unit
Media	Formal hierarchy, autocratic	Open-channel communication, democratic	Flattened hierarchy, open participation, integrity
Customer Relationship	Imposed	Transparent	Self-control
Customer Journey	Traditional media	Digital media	Network
Performance Measure	Customer satisfaction	Customer experience	Unified, holistic, people-oriented experience
Approach	Sales funnel	Interactive sales team	Digital Involvement cycle
	ROI (investor driven)	Triple Bottom Line (customer driven)	Quadruple Bottom Line (stakeholders driven)
	Follow rules	Change rules	Re-invent procedures, fit culture

Trendovi DIGITALNE NABAVE

DIGITAL) PROCUREMENT – izvor konkurentske prednosti

- Reduced inventories, lower costs
- Just-in-Time, Total Quality Management (TQM)
- Supplier collaboration, time-based competition
- Lean and agile production
- Supply chain management

Top 10 Procurement Trends for 2017





Digitalne aukcije B2C

- QuiBids – SMART reklama i prodaja

The screenshot shows a grid of auction items on the QuiBids website:

Samsung 22" 1080p Slim LED HDTV	U.S. Traveler Bradford 5-Piece Luggage	Wolfgang Puck Elite Mixing Bowl Set	Paula Deen 14pc Knife Cutlery Block Set	Supernova SPY Quadcopter Camera
00:00:10 \$1.42 billbridges Bid Now	00:00:04 \$2.03 hpwitoyo Bid Now	00:00:11 \$7.12 dudethgtamez Bid Now	00:00:11 \$7.12 musicmattps Bid Now	00:00:10 \$8.93 musicmattps Bid Now
Oakley Gascan Polarized Grey	Rachael Ray 10-Pc Stainless Cookware	Beats By Dre Studio Headphones	Coach Peyton Signature Dome Cora	GoPro HERO3+ Silver Edition
00:00:10 \$6.96 ghost33 Bid Now	00:00:10 \$7.95 photopro Bid Now	00:00:10 \$0.69 ambernicole6 Bid Now	00:00:10 \$8.60 vonRogue Bid Now	00:00:09 \$0.21 dzuels Bid Now
Asus 11.6" 500GB LED Touch Screen Laptop	Dyson DC65 Animal Ball Upright Vacuum	Apple 13.3" MD760LL/B MacBook	Apple iPad Air 2 64GB Wi-Fi	KitchenAid Professional Mixer



Reactive procurement	Proactive procurement
Procurement is a cost centre	Procurement can add value
Procurement receives specification	Procurement (and suppliers) contribute to specification
Procurement rejects defective material	Procurement avoids defective suppliers
Procurement reports to Finance or Production	Procurement is a main management function
Buyers respond to market conditions	Procurement contributes to making markets
Problems are supplier's responsibility	Problems are shared responsibility
Price is key variable	Total cost and value are key variables
Emphasis on today	Emphasis on strategy
System independent of suppliers	Systems maybe integrated with suppliers' systems
Users or designers specify	Buyers and suppliers contribute to specification
Negotiation win/lose	Negotiation win-win (or better)
Plenty of suppliers = security	Plenty of suppliers = lost opportunities
Plenty of stock = security	Plenty of stock = waste
Information is power	Information is valuable if shared



SAP Ariba® B2B Network

- Povezuje 2 milijuna kompanija
- Godišnje procesira 107.9 milijuna naloga za nabavu
- Uкупne vrijednosti preko 1.000 milijardi US\$ (2,3 milijarde DNEVNO)
- Djelujući u 190 zemalja i koristeći 172 valute
- Efekti: 35% rast poslovanja, 15% rast retencije klijenata, 75% ubrzanje poslovnog ciklusa



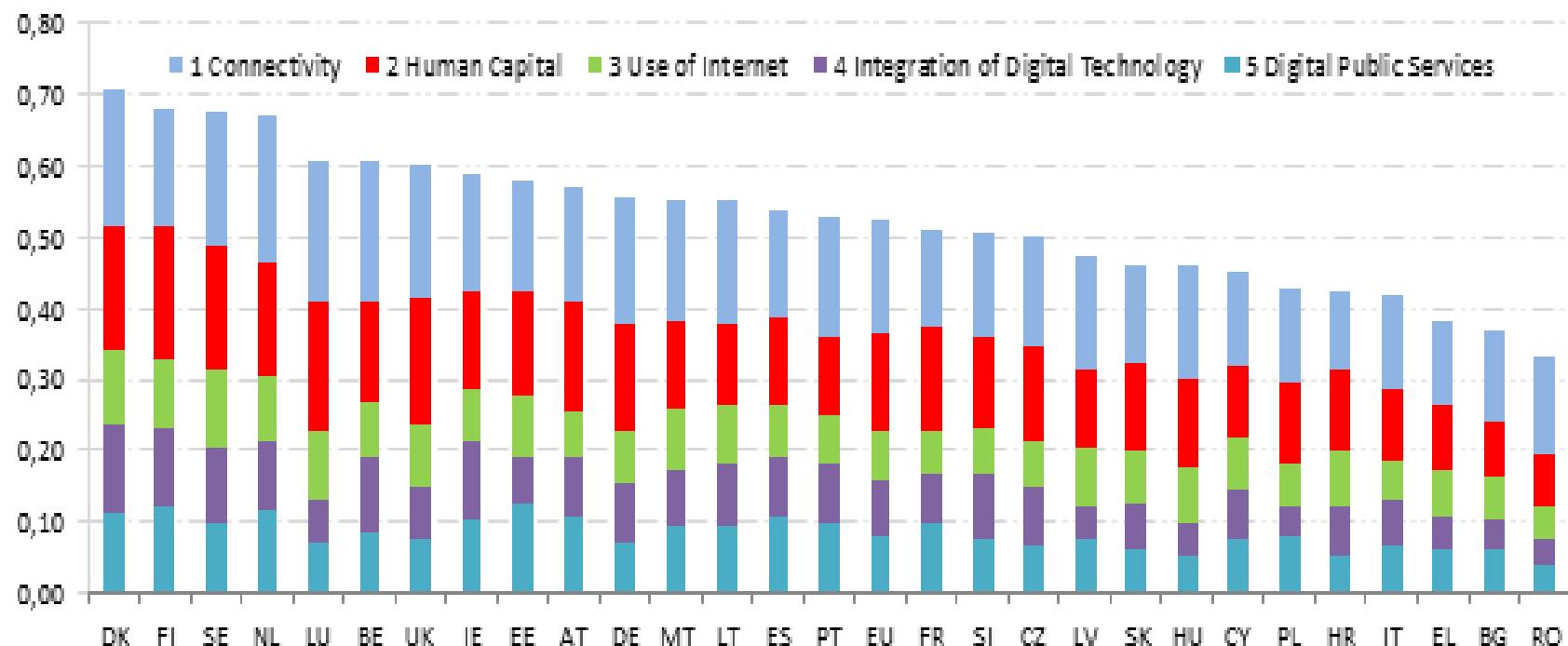
SAP Ariba



Europski digitalni indeks

(DESI 2017): Slovenija i Hrvatska u EU

Digital Economy and Society Index (DESI) 2017 ranking



Industry 4.0 ATTESTED

- Agile or Dead
- Technology-based or Dead
- Timely or Dead
- Empathic or Dead
- Sustainable or Dead
- Transparent or Dead
- Ethical or Dead
- Digital or Dead



Industry 4.0 Digital Assistant



VELIMIR SRIĆA

Personal web, LinkedIn blog, Facebook page



Thank you for your attention.