

DIGITALNA TRANSFORMACIJA

Povezivanje bazičnih i inovativnih
tehnologija



Dolele Sylla, CISA, CISM, CISSP

Specijalist za javni sektor, Grupacija Svjetske banke

CILJEVI – SADRŽAJ

- 1 RAZVOJ TEHNOLOGIJA U DIGITALNOJ DRŽAVI.**
- 2 BAZIČNE & INOVATIVNE TEHNOLOGIJE.**
- 3 GLOBALNI TRENDLOVI I KLJUČNI FAKTORI USPJEHA**
- 4 DIGITALNA TRANSFORMACIJA DRŽAVNIH USLUGA**

„Mi smo tek u prvim fazama razmišljanja o disruptivnim tehnologijama za razvoj i ono što želimo je da svi u Svjetskoj banci postavljaju ta pitanja i uzmu neku ideju, tehnologiju i primijene je u praksi.”

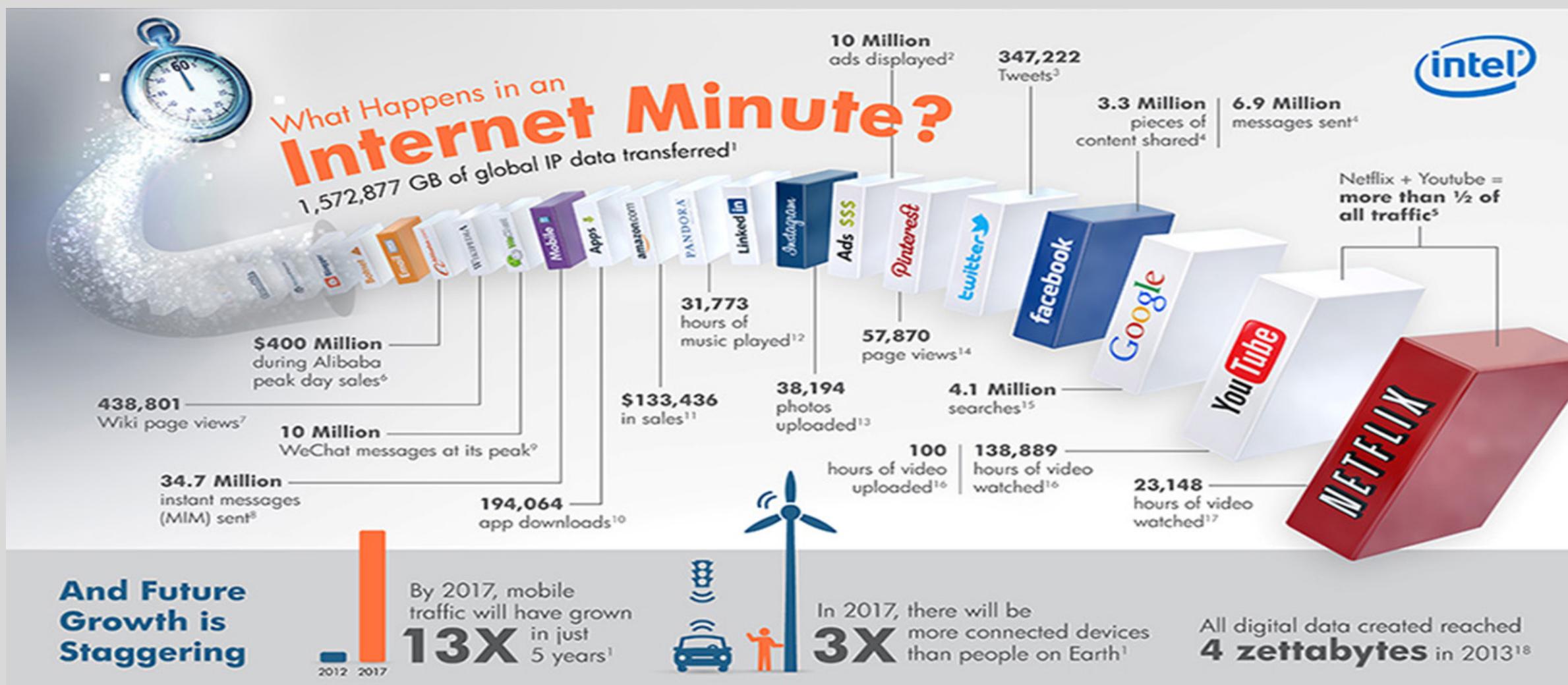
Predsjednik Jim Yong Kim



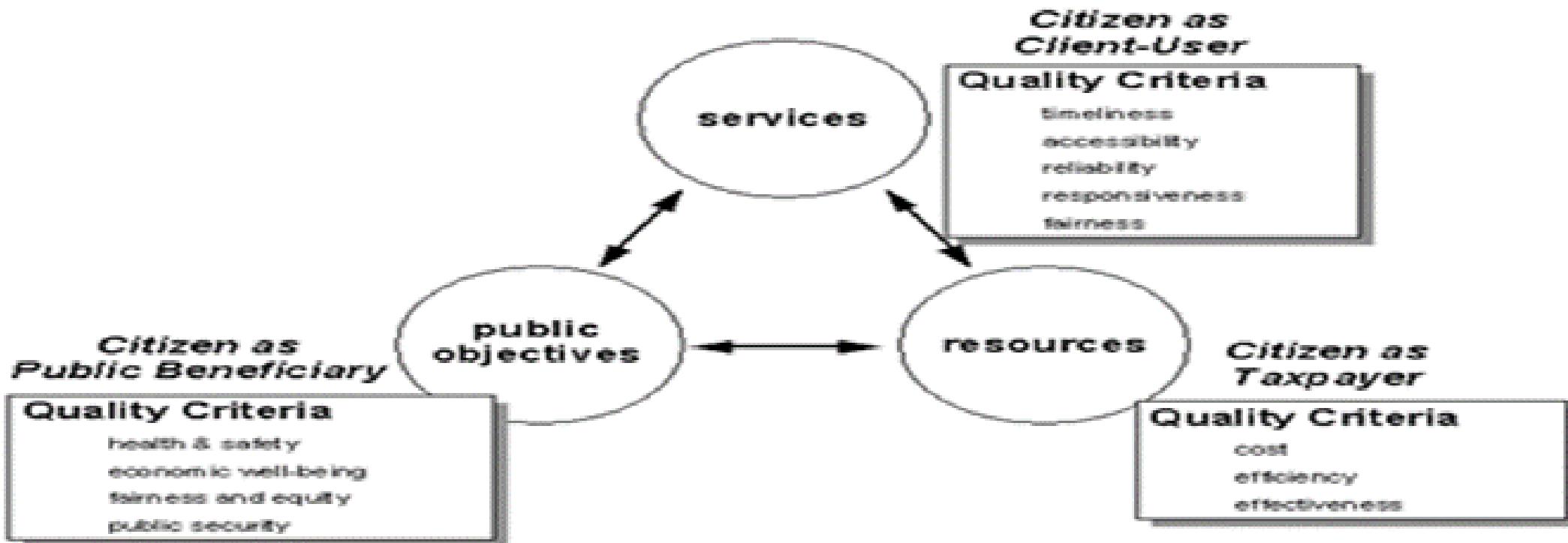
DigitalWorld

Kontekst

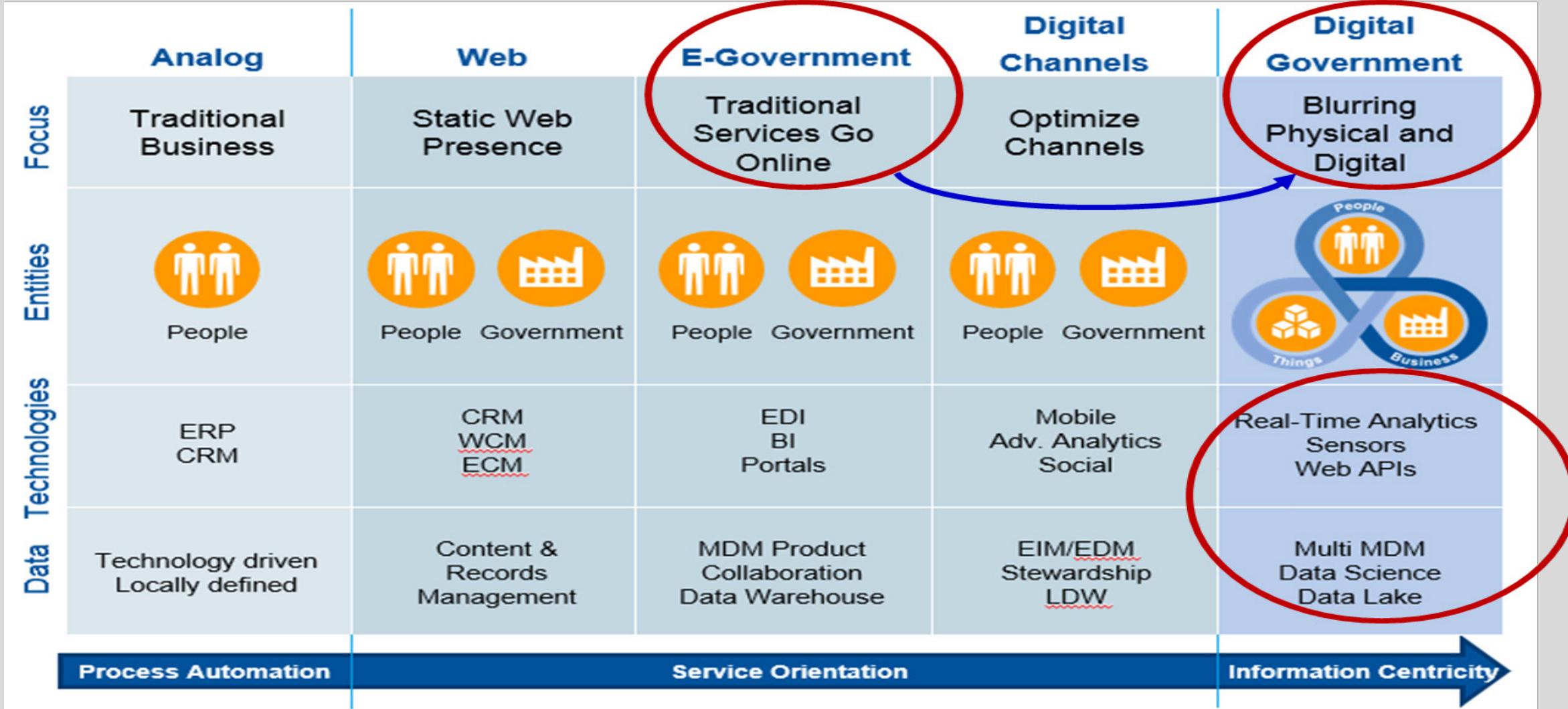
Tehnološki pejzaž.....



The Citizen and Government Services



Razvoj tehnologija u digitalnoj državi



ERP: Planiranje resursa poduzeća; CRM: Upravljanje odnosa s građanima; WCM: Upravljanje web sadržajem; ECM: Upravljanje poslovnim sadržajem;

EDI: Elektronička razmjena podataka; BI: Poslovna inteligencija; EIM/EDM: Upravljanje poslovnim informacijama/upravljanje poslovnim podacima; LDW: Logički model skladišta podataka;

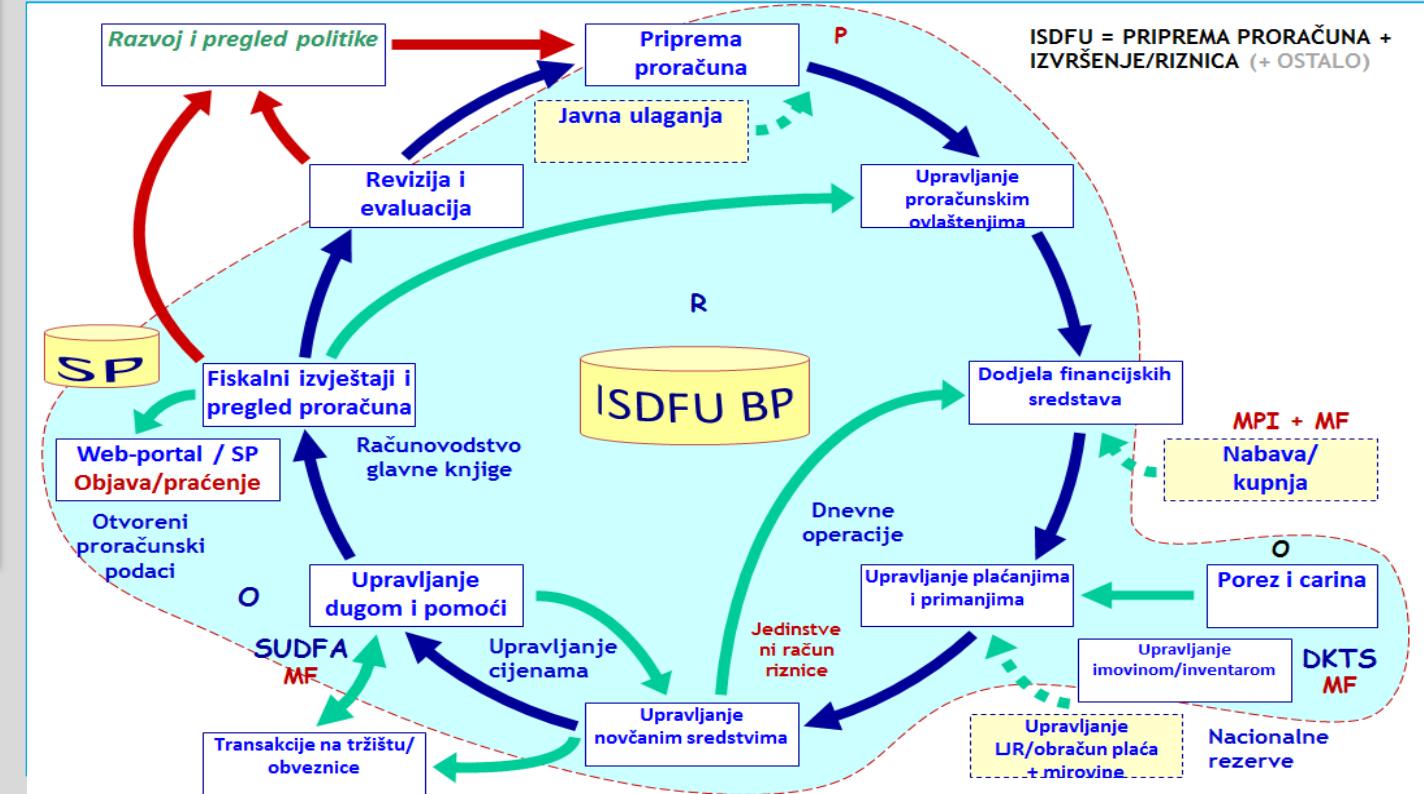
MDM: Upravljanje mobilnim podacima; API: Aplikacijsko programsko sučelje Izvor: EU Joinup, srpanj 2017. <https://joinup.ec.europa.eu/document/recommendation-10>

Što je integrirani ISFU (eng. FMIS)?

Osnovni **informacijski sustavi za financijsko upravljanje (ISFU)** mogu se općenito definirati kao skup automatiziranih rješenja pomoću kojih vlade mogu **planirati, izvršavati i pratiti proračun**.

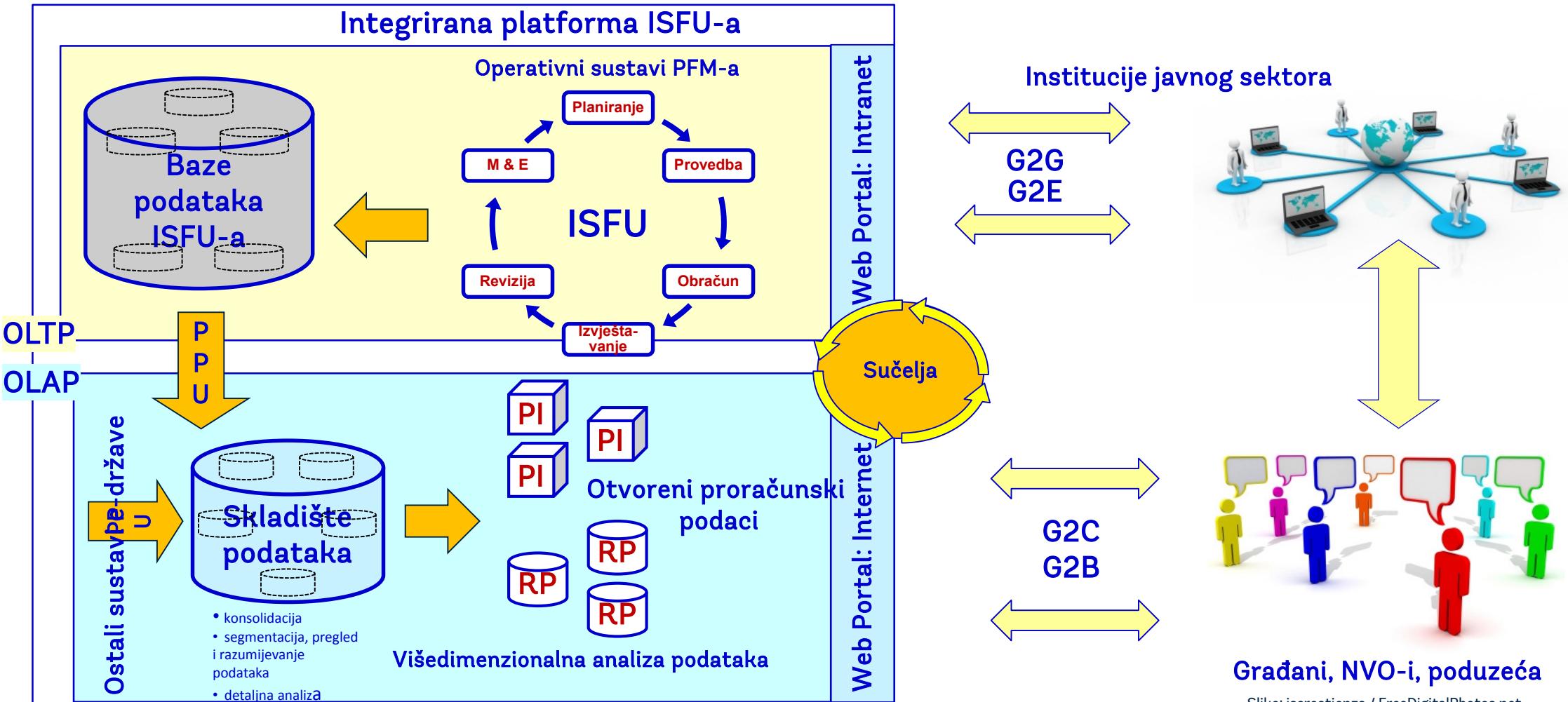
Osnovni ISFU = OLTP
IISFU = OLTP + OLAP

Temeljni funkcionalni moduli i sučelja ISFU-a



Integrirani ISFU (ili IISFU) kombinira osnovne module ISFU-a (OLTP) sa snažnim kapacitetima skladištenja podataka (eng. DW) i višedimenzionalnim alatima za analizu podataka (OLAP) za učinkovito planiranje, donošenje odluka, pružanje usluga i monitoring učinka.

IISFU = OLTP + OLAP



OLTP: obrada transakcija putem Interneta

PPU: preuzeti, preoblikovati, učitati

OLAP: analitička obrada putem Interneta

PI: poslovna inteligencija

SP: skladište podataka

RP: rudarenje podataka

Slike: jscreationzs / FreeDigitalPhotos.net

Bazične & inovativne tehnologije

Globalna praksa upravljanja (WBG) neprestano nastoji učinkovito koristiti **digitalne tehnologije** radi unaprjeđenja upravljanja javnim resursima, produktivnosti i isporuke usluga kroz inovativna rješenja svrstana u dvije kategorije:

Bazične

1. Modernizacija državnih sustava
2. e-nabava
3. Usluge putem Interneta (e-usluge)
4. Otvorena vlada
5. Aplikacijsko programsko sučelje za vezu između WBG-a i klijenta
6. Modernizacija WBG sustava



&

Inovativne

1. Veliki podaci
2. Strojno učenje (umjetna inteligencija, eng. AI)
3. Mobilne aplikacije
4. Distribuirana glavna knjiga (lanac blokova – eng. blockchain)

1



Jačanje procesa javnih politika

2



Učinkovito upravljanje resursima

3



Jačanje javno-privatnog sučelja

4



Davanje podrške isporuci usluga

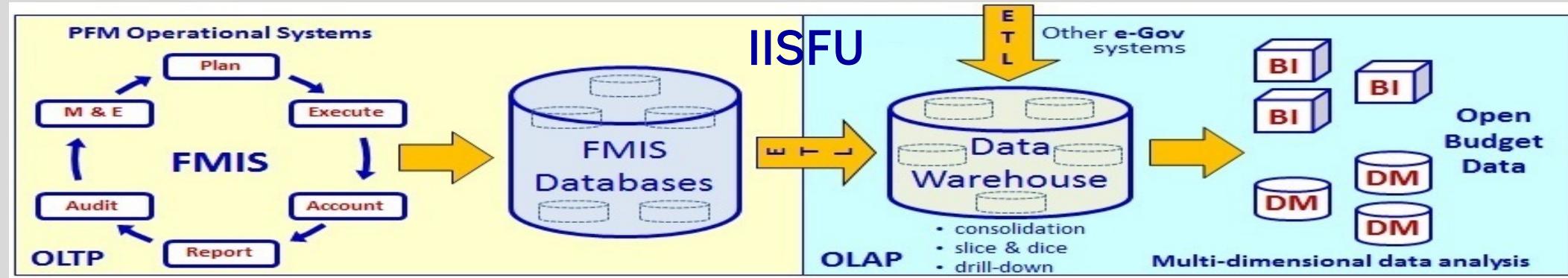
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Pokretači i omogućitelji učinkovitosti politika

Ključna područja za premošćivanje praznina u provedbi s kojima se suočavaju klijenti

Povezivanje bazičnih & inovativnih tehnologija



Bazične tehnologije

tehnologije

Inovativne

Davanje povratnih informacija IISFU-u za unaprjeđenje kvalitete i vrijednosti podataka

Primjena strojnog učenja (AI)

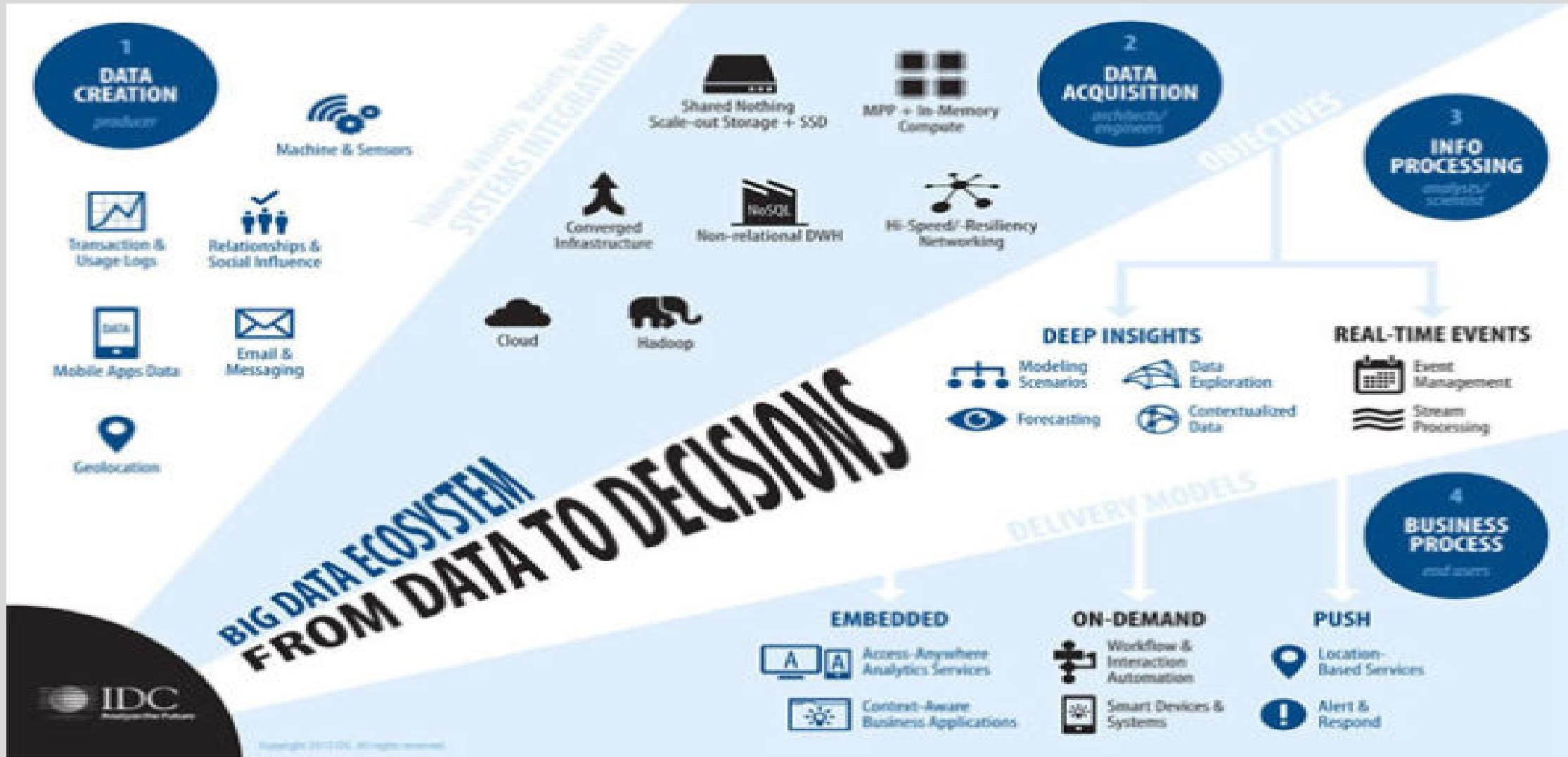


Kombinacija „digitalne vrijednosti“ IISFU-a s podacima „izvan države“

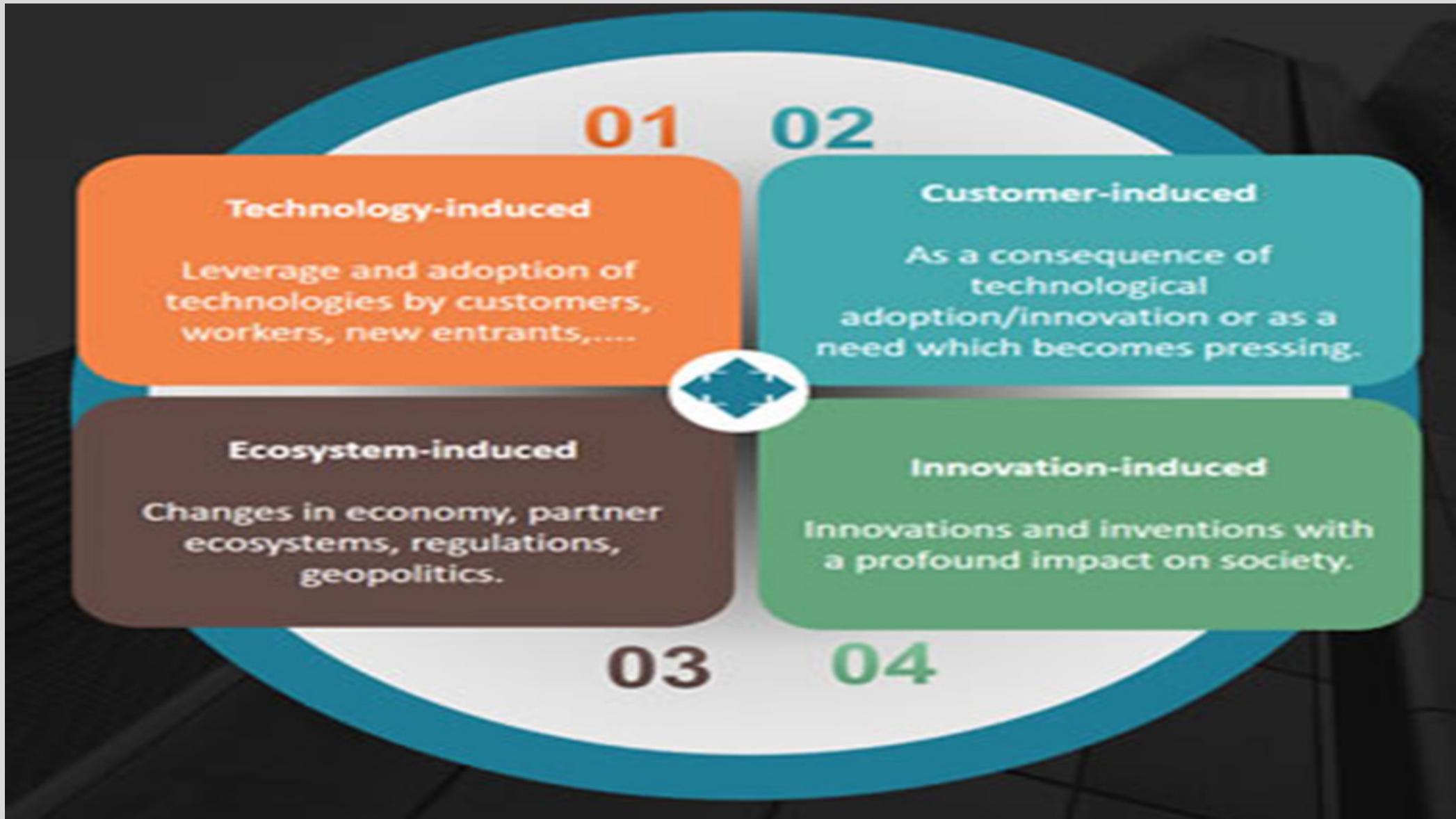
Sateliti, senzori,
pametni telefoni, ...

Fokus je na VELIKIM PODACIMA ...

Ekosustav velikih podataka – od podataka do odluka – Izvor: IDC



Uzroci disruptcije i transformacije



Okvir digitalne transformacije

Customer Experience

Customer understanding

- Analytics-based segmentation
- Socially-informed knowledge

Top line growth

- Digitally-enhanced selling
- Predictive marketing
- Streamlined customer processes

Customer touch points

- Customer service
- Cross-channel coherence
- Self-service

- Unified Data & Processes
- Analytics Capability

Operational Process

Process digitisation

- Performance improvement
- New features

Worker enablement

- Working anywhere anytime
- Broader and faster communication
- Community knowledge sharing

Performance management

- Operational transparency
- Data-driven decision-making

Digital Capabilities

Business Model

Digitally-modified businesses

- Product/service augmentation
- Transitioning physical to digital
- Digital wrappers

New Digital Businesses

- Digital products
- Reshaping organisational boundaries

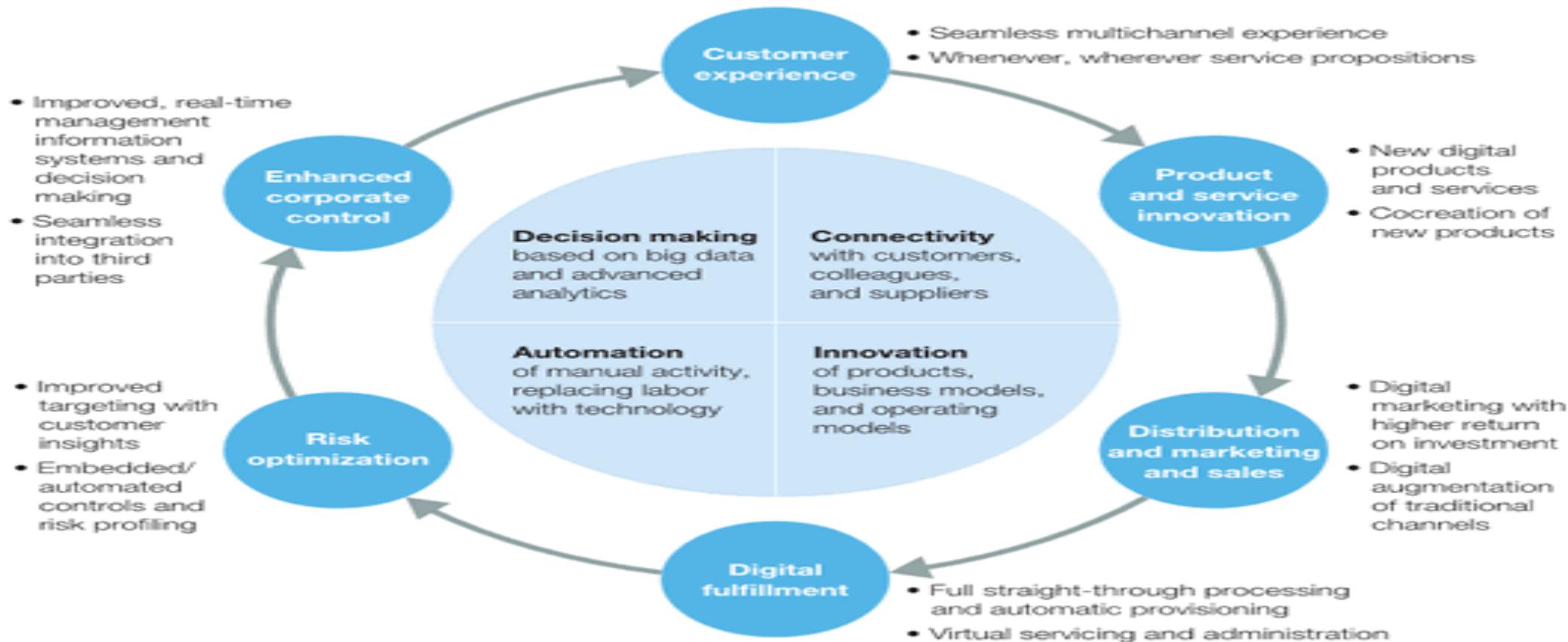
Digital Globalisation

- Enterprise integration
- Redistribution decision authority
- Shared digital services

- Business & IT Integration
- Solution Delivery

Kako digitalno može preoblikovati organizaciju....

Digital can reshape every aspect of the modern enterprise.



Source: Expert interviews; McKinsey analysis

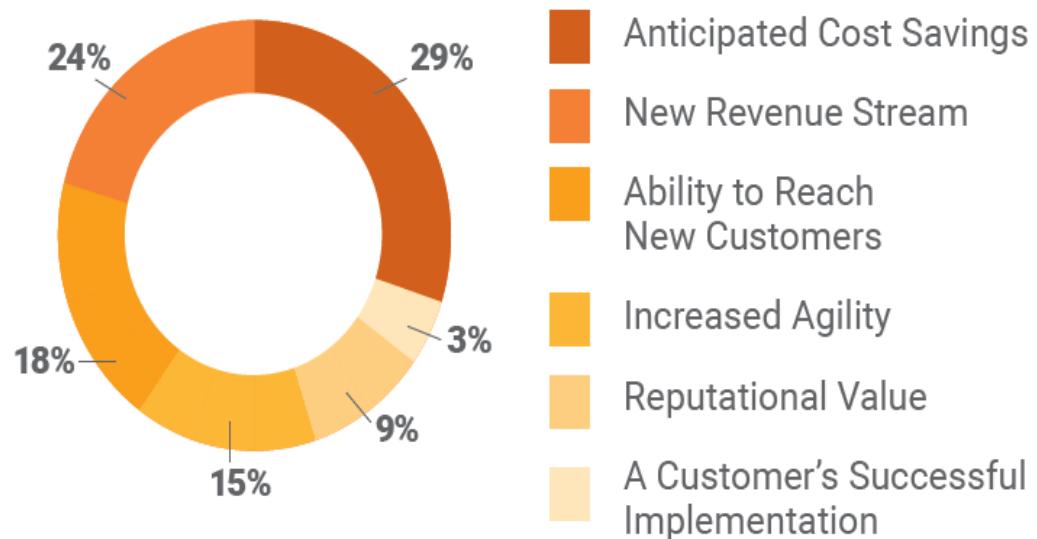
Mitovi i stvarnosti digitalne transformacije

Myth	Reality
1 → Digital is primarily about the customer experience	Huge opportunities exist also in efficiency, productivity and employee leverage
2 → Digital primarily matters only to technology or B2C companies	Opportunities exist in all industries with no exceptions
3 → Let a thousand flowers bloom; bottom-up activity is the right way to change	Digital transformation must be led from the top
4 → If we do enough digital initiatives, we will get there	Transformation management intensity is more important for driving overall performance
5 → Digital transformation will happen despite our IT	Business/IT relationships are key, and in many companies they must be improved
6 → Digital transformation approach is different for every industry and company	Digital Leaders exhibit a common DNA
7 → In our industry we can wait and see how digital develops	There are digital leaders outperforming their peers in every industry today

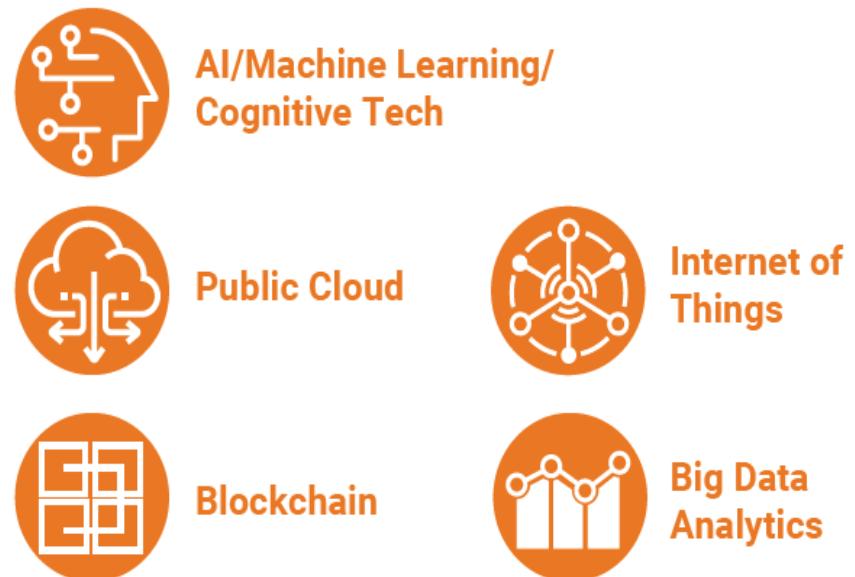
Neke činjenice

Izvor: Barometar digitalne transformacije, ISACA, 2017.

Top Motivators for Implementing an Emerging Technology



Technologies Facing the Most Organizational Challenges or Resistance



Neke činjenice ...

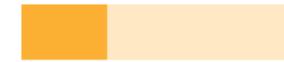
Evaluating Opportunities Arising From Emerging Technologies

22%



organizations
rarely evaluate

31%



organizations
frequently evaluate

Who is Responsible for Evaluating Emerging Technologies?

7%

Innovation Group

7%

Business Unit

12%

Executive Management

33%

Multiple Groups' Decision

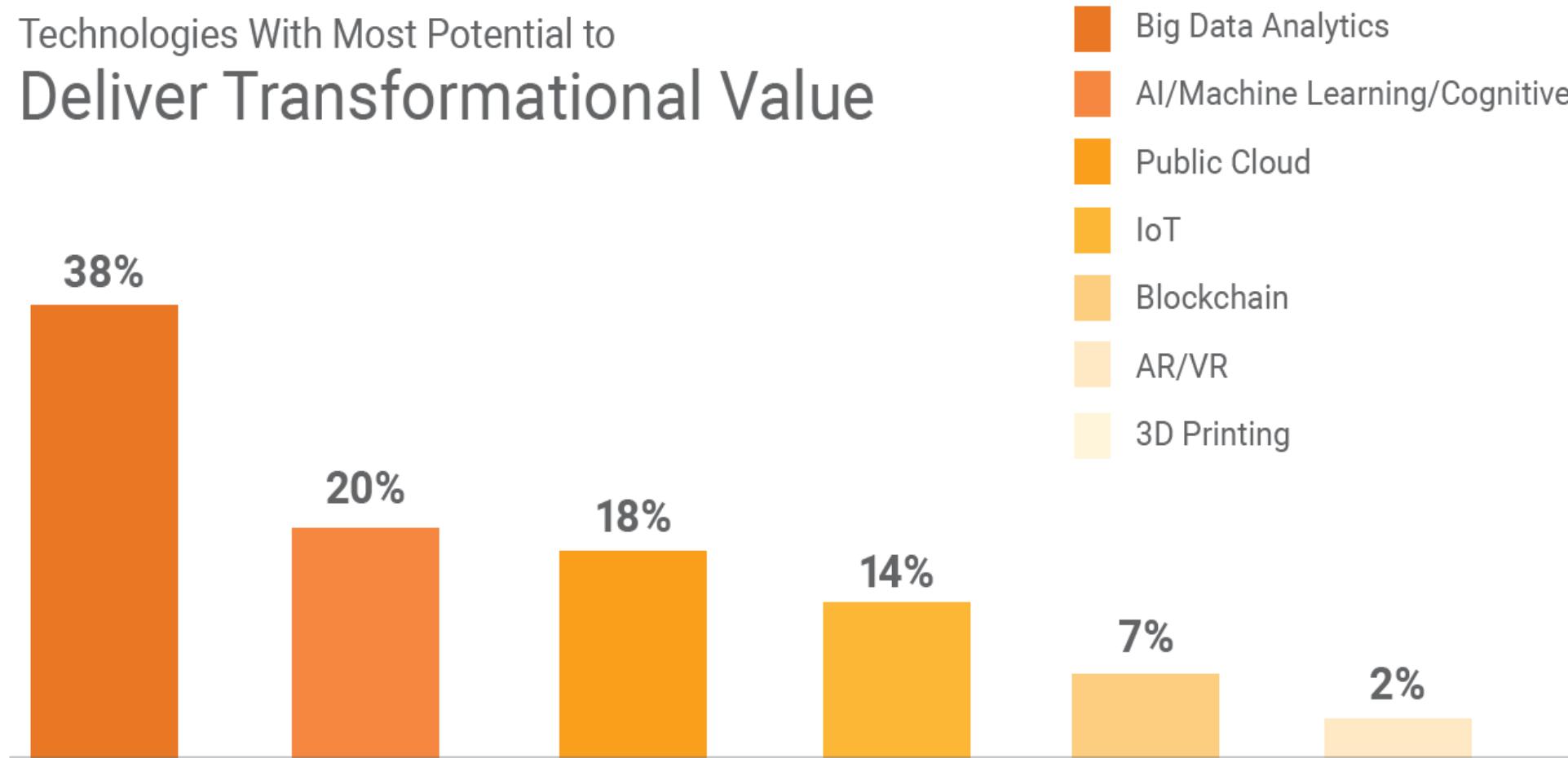
39%

IT Group

Neke činjenice ...

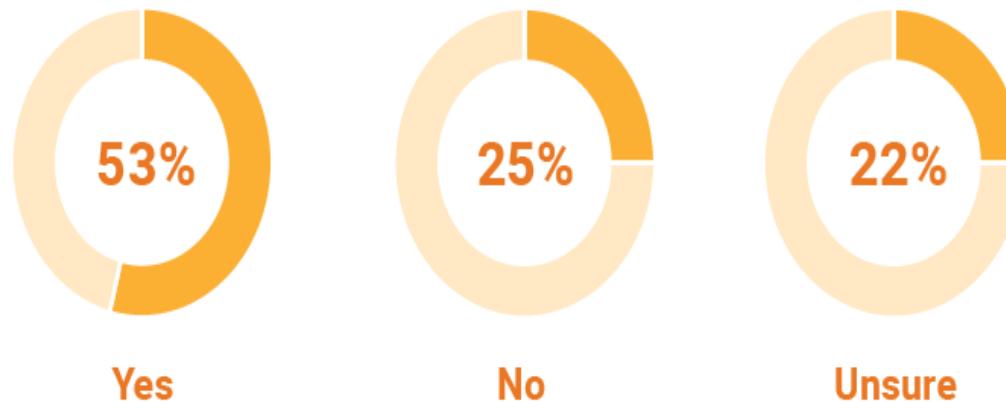
Technologies With Most Potential to

Deliver Transformational Value

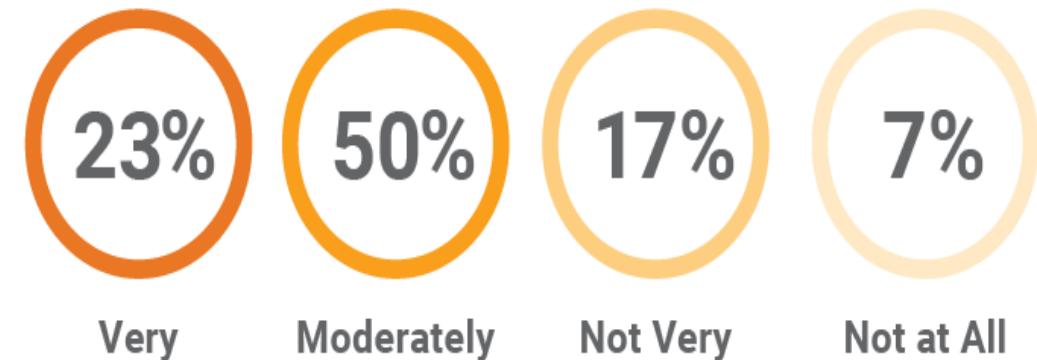


Neke činjenice...

Are Your Organization's Leaders
Digitally Literate?



Are Your Organization's Leaders
Receptive to Emerging Tech?





Thank you !