

FAKULTET
ORGANIZACIJ
E
I

INFORMATIKE

Faylinik 2
42 000 Varaždin
Hrvatska

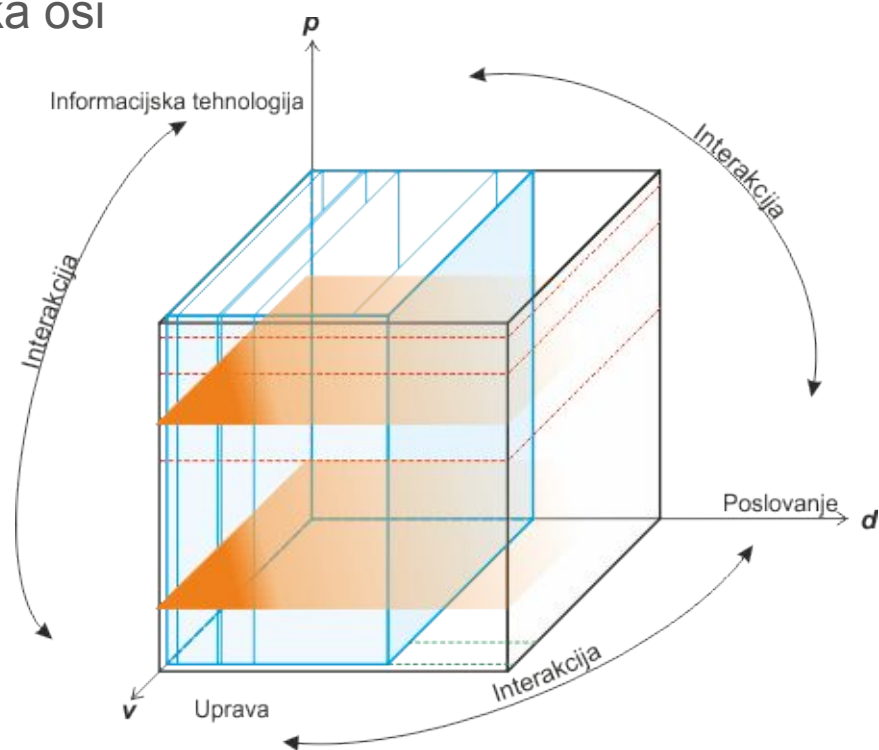
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Ekosustav
pametnih
industrija

Prof. dr. sc. Neven Vrčec

Interakcija – tehnologija, gospodarstvo, uprava

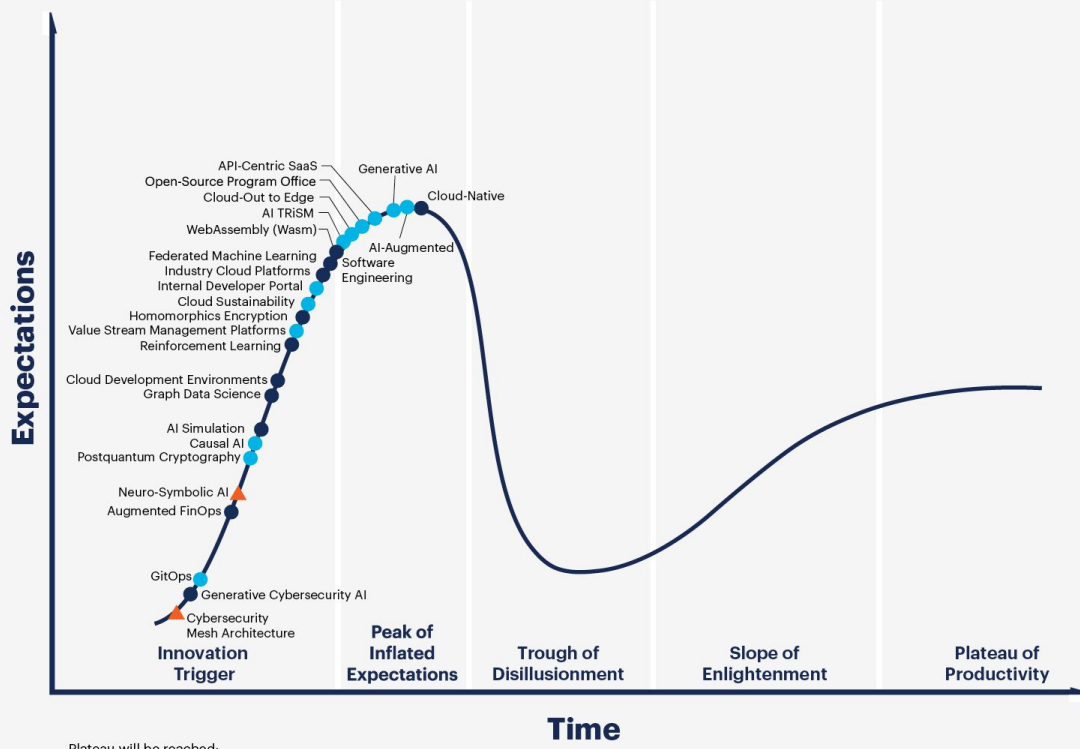
- Dinamika osi



Gartner Hype Cycle for Emerging Technologies, 2019



Hype Cycle for Emerging Technologies, 2023



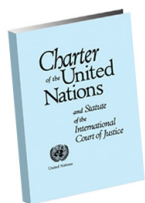
Plateau will be reached:
 ○ less than 2 years ● 2 to 5 years ● 5 to 10 years ▲ more than 10 years As of August 2023

gartner.com

Source: Gartner
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Temelji demokracije



We the People
of the United States

“to promote social progress, ...better standards of life in larger freedom, ... [and] promotion of the economic and social advancement of all peoples.”

“... the good of all its inhabitants, including the weakest and most deprived; that it wishes to remain a continent open to culture, learning and social progress; and that it wishes to deepen the democratic and transparent nature of its public life, and to strive for peace, justice and solidarity throughout the world.”

Sloboda, jednakost, nacionalna ravnopravnost, mir i tvorstvo, socijalna pravda, poštivanje prava čovjeka, nepovredivost vlasništva, očuvanje prirode i čovjekova okoliša, vladavina prava i demokratski višestranački sustav najviše su vrednote ustavnog poretka Republike Hrvatske.

“... to form a more perfect union, establish justice, insure domestic tranquility, provide for the common defense, promote the general welfare, and secure the blessings of liberty to ourselves and our posterity.”

Primjenom tehnologije ne smijemo narušiti temeljne posulate

Javne usluge za građane i organizacije?





Tradicionalna birokracija

- Legitimitet
- Vladavina zakona
- Detaljna pravila
- Objektivnost
- Transparentnost
- Odgovornost
- Građanin podređen administraciji

Negativne konotacije posljednjih nekoliko desetljeća.
Prijelaz na novu upravu.

Birokracija se povezivala s neučinkovitošću, rigidnim
Pravilima, nefleksibilnošću, rascjepkanošću usluga.

Nasljeđe je jako i javna uprava nije startup.

Culture eats strategy for breakfast

P. Drucker

**Ipak već dugo se tradicionalna birokracije povezuje
s metodama suvremenog upravljanja organizacijama.**

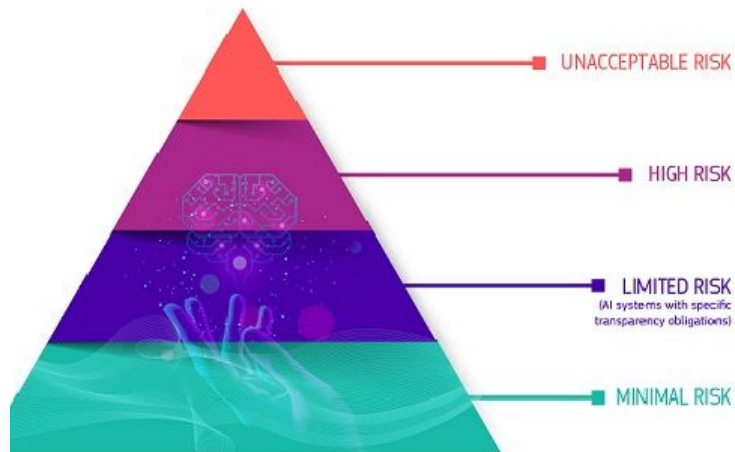
New public management (NPM)

Pojam koji se koristi za primjenu različitih metoda upravljanja organizacijama javnih službi po uzoru na privatni sektor.

Neki od koncepata:

- Rukovođenje temeljeno na misiji
- Praćenje rezultata
- Upravljanje odnosima s građanima
- Community – dio „moći” se prenosi s birokracije na zajednicu
- Poduzetničke inicijative
- Decentraliziranost
- Responzivnost
- Mjerenje organizacijskih performansi
- **Oslanjanje na IT**

EI dokumenti



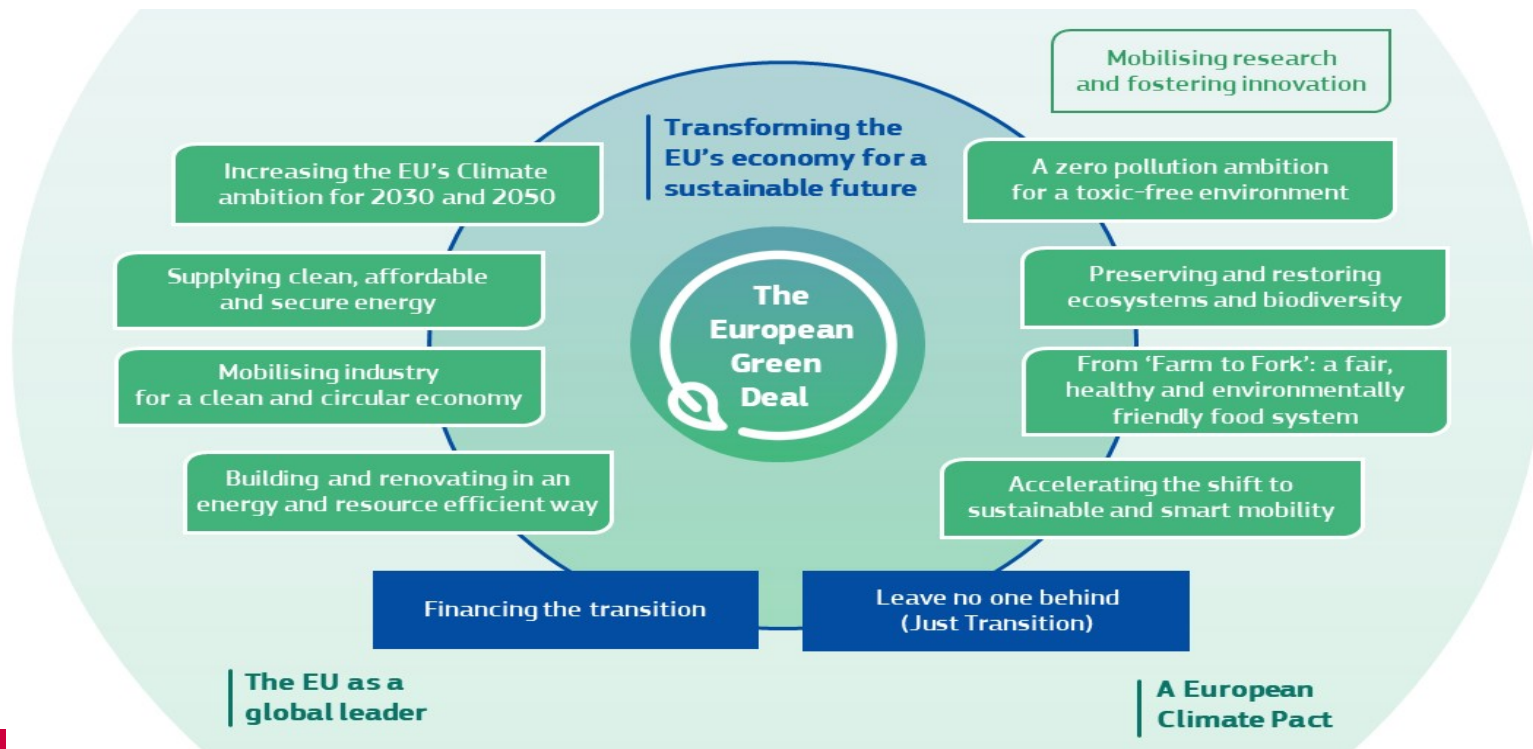
Brussels, 19
COM(2020)

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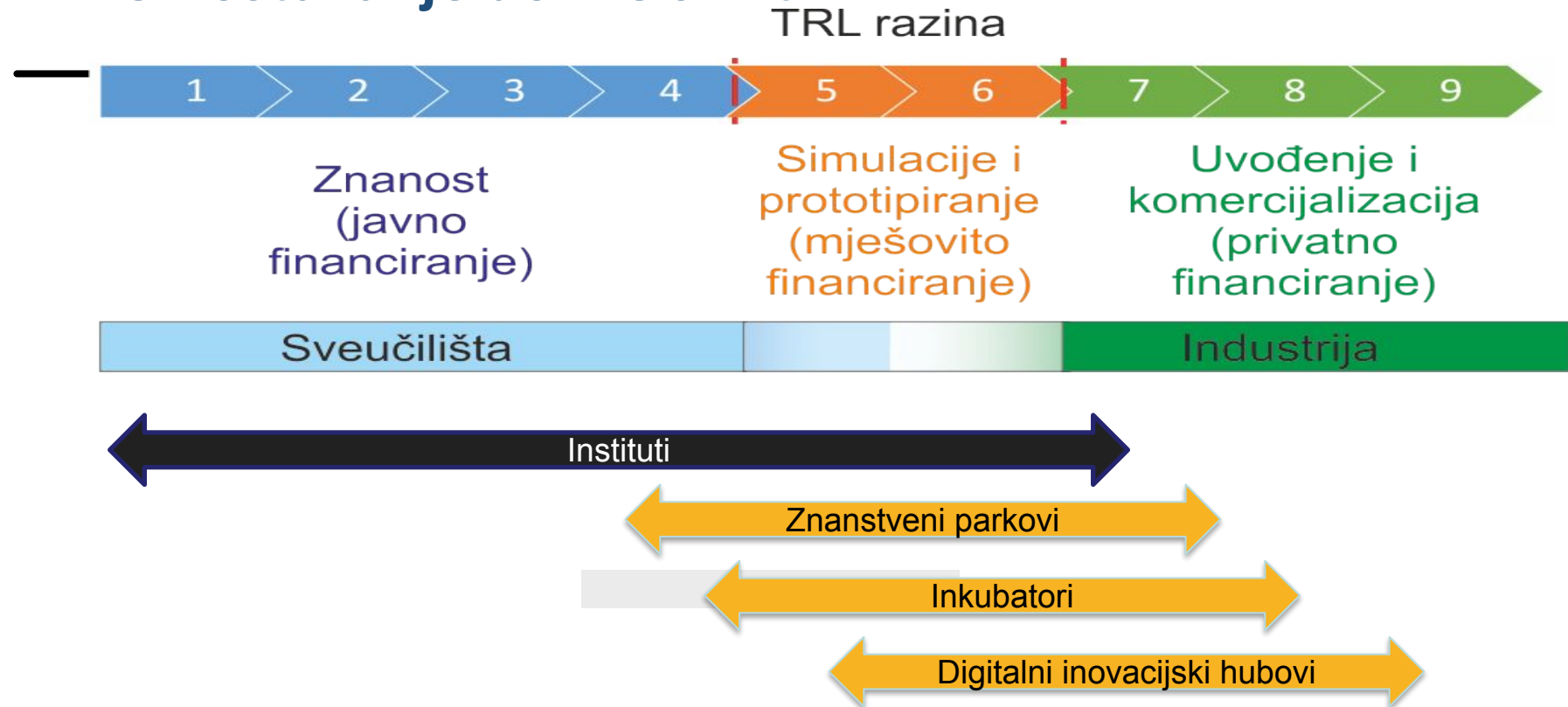
ean strategy for data



Europski zeleni plan

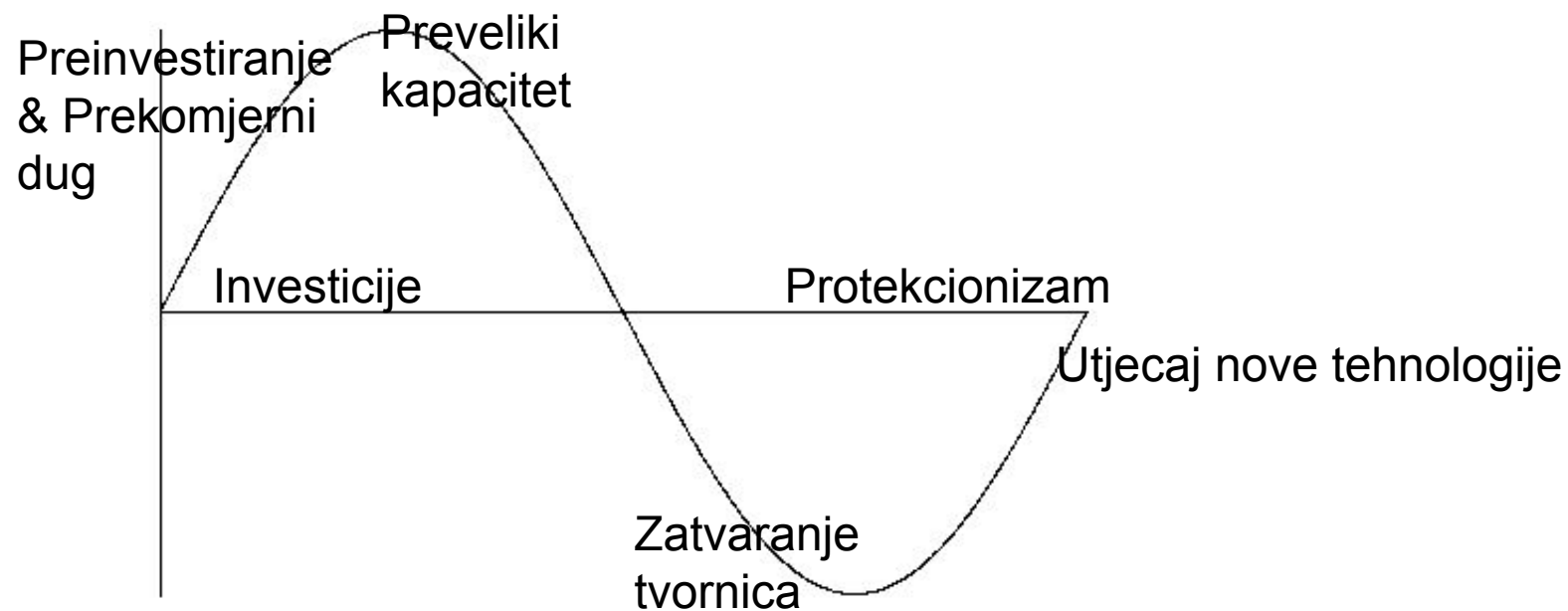
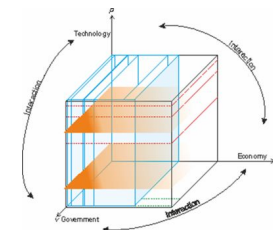


Premostavanje doline smrti

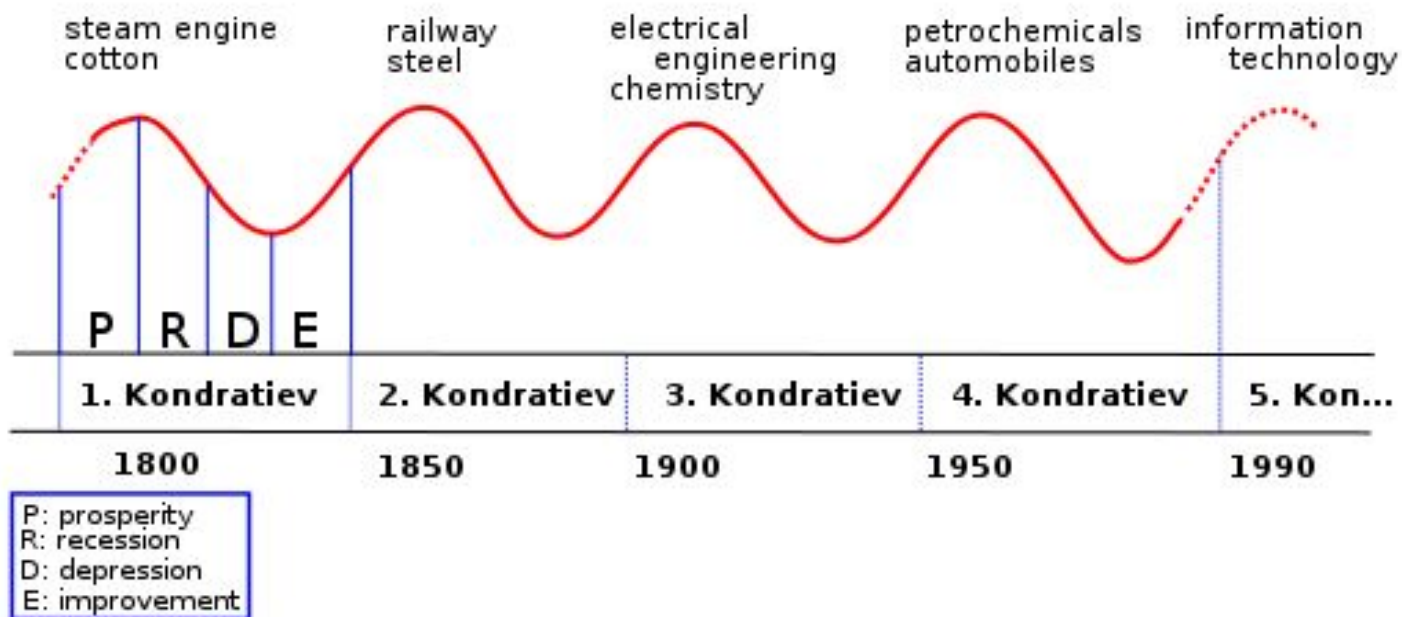


Porast produktivnosti i tehnologija

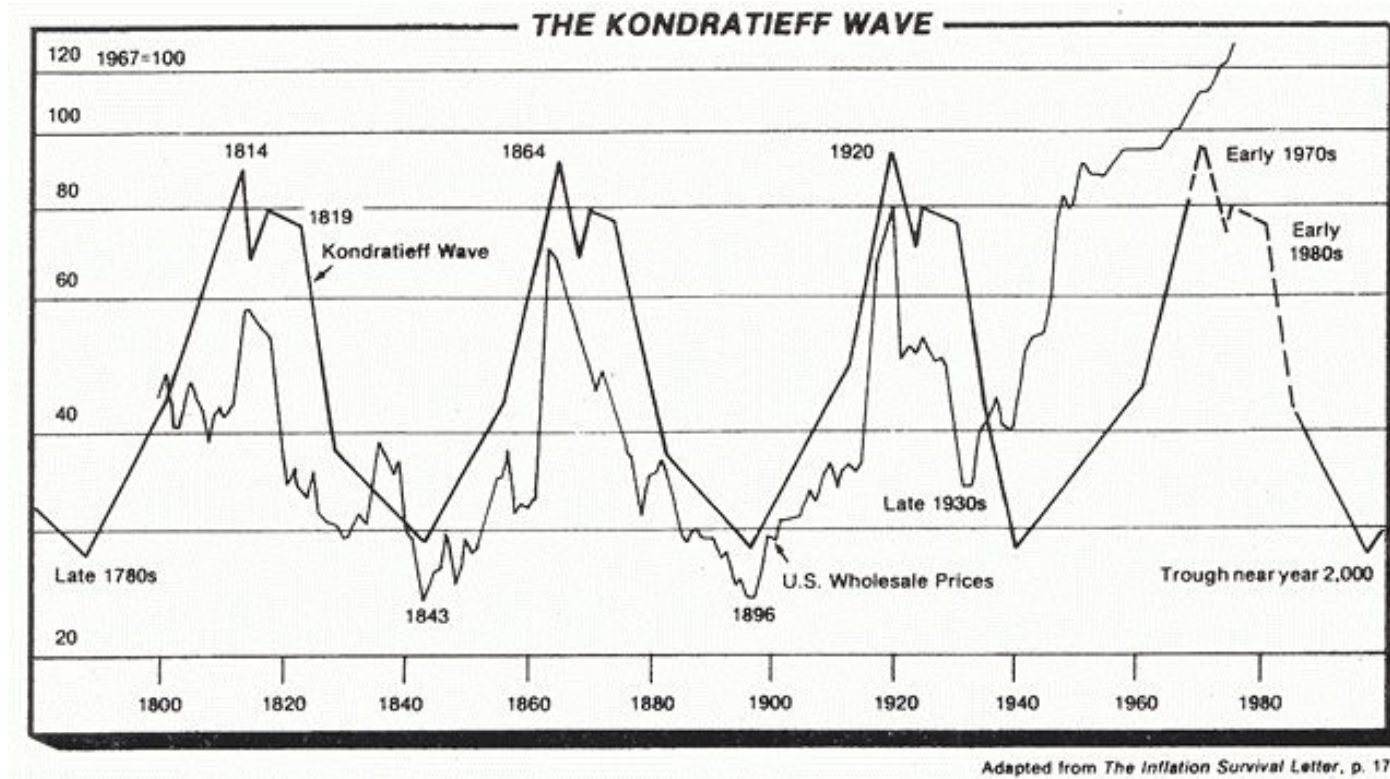
- Nikolai Kondratieff
- Tehnologija utječe na gospodarstvo s vremenskom zadržskom
- Period \approx 50 godina



Detalji ciklusa

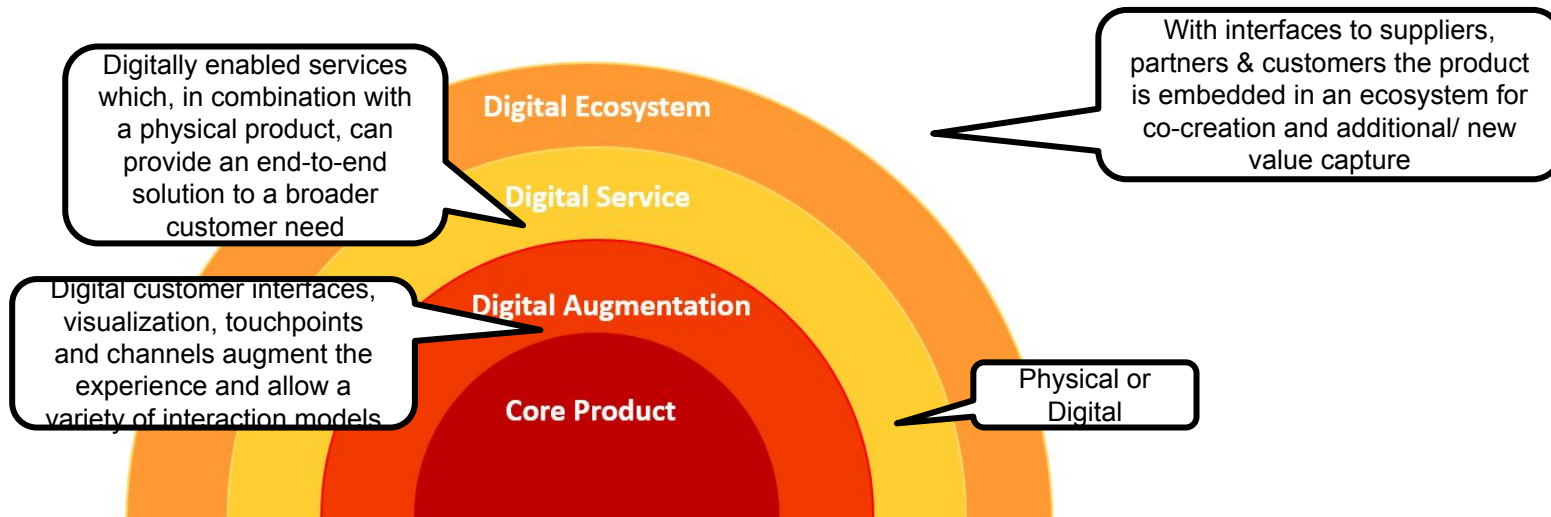


The real K-cycle is actually more complex



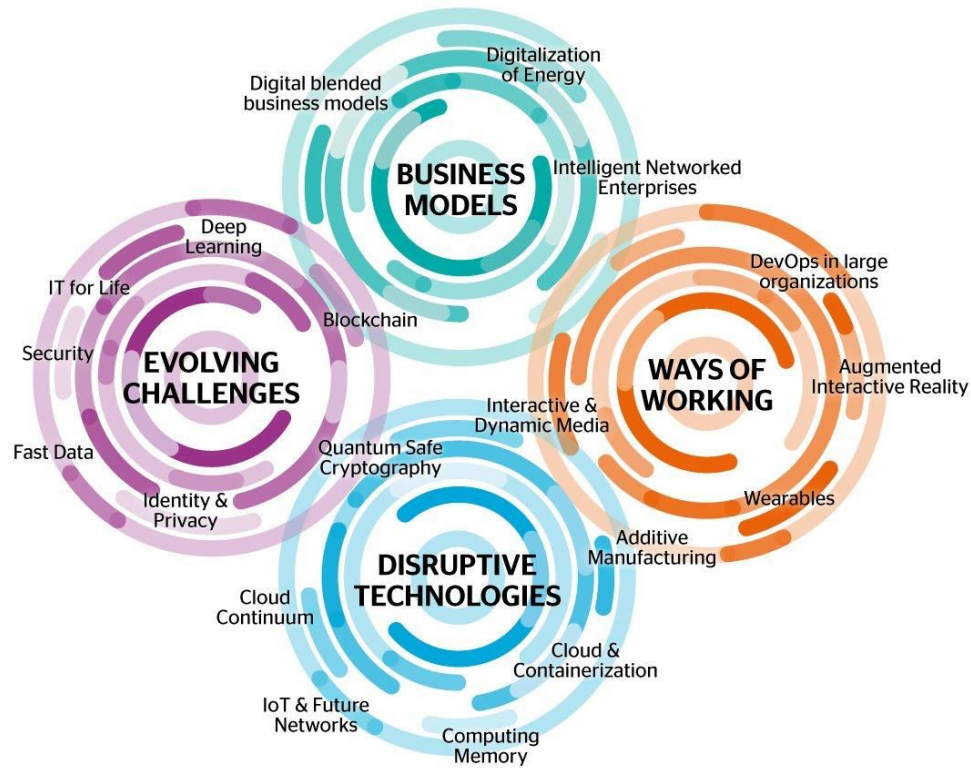
Od proizvoda do digitalnog ekosustava

“Companies can evolve their market offering [...] a traditional, physical core product to a comprehensive digital ecosystem play. “



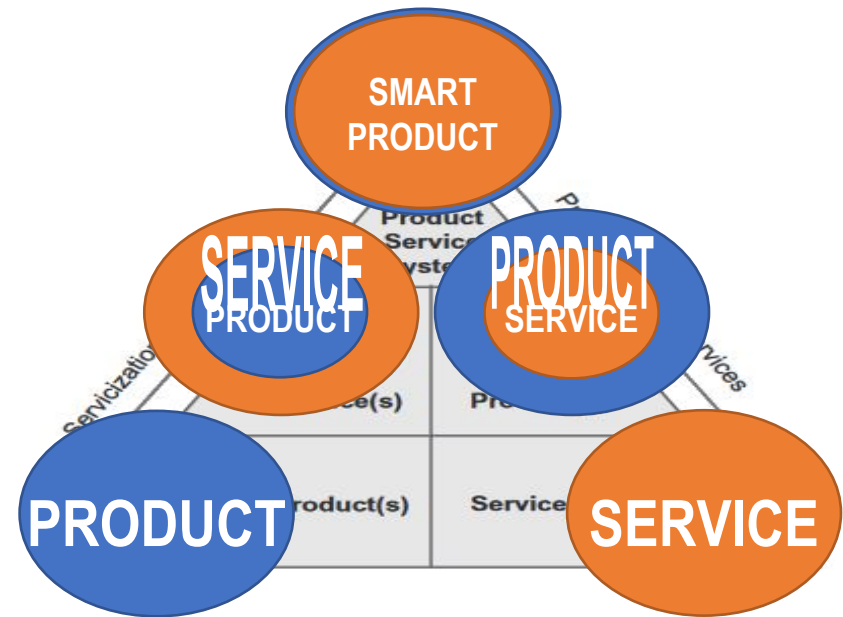
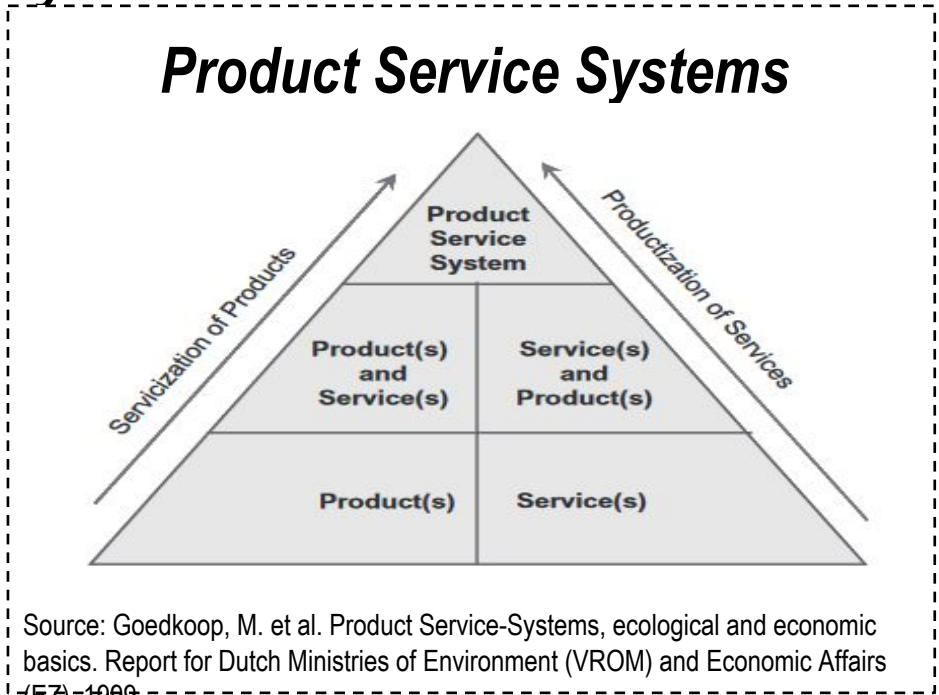
Based on **Industry 4.0: Building the digital enterprise**, PWC
Available at: <https://www.pwc.com/gx/en/industries/industries-4.0/landing-page/industry-4.0-building-your-digital-enterprise-april-2016.pdf>

Koncept digitalne transformacije



https://atos.net/en/2016/news_2016_12_09/atos-unveils-future-technology-will-shape-businesses-2020#

DIGITAL TRANSFORMATION : *Product Service Systems*



Industrija 5.0

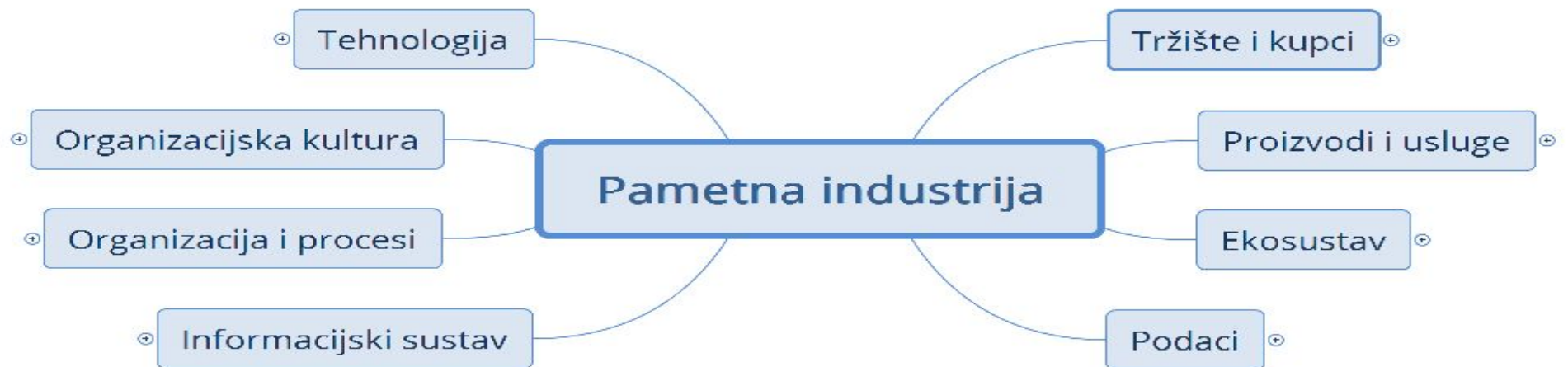
Pametna industrija



foi



Komponente pametne industrije



Uloga obrazovanja

Kompletna vertikalna - osnovna škola do visokog obrazovanja - STEM, programiranje, komuniciranje s umjetnom inteligencijom

Sustav je reguliran i nije agiln

Razvoj nastavničkih kadrova

Visokoškolsko obrazovanje - dvije uloge - napredne razvojne vještine, razvoj ljudi koji promišljaju budućnost društva

Razvoj suvremene javne uprave sposobne za razvoj digitalnog društva

Mikro kvalifikacije

Važan mehanizam agilnosti tržišta rada

Suočavanje s dinamikom promjena

Mehanizam industrije 5.0

Ali ne zaboraviti da trebamo i širinu znanja!

Hvala

