Opportunities and challenges of Industry 4.0 in Croatia and SEE– How to capitalize on the progress and minimise the damage?

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UNICA Rectors Seminar

Digitalization and Education - Can universities keep up with Industry 4.0?

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No other option then digital

- Sredina 20. / početak 21.stoljeća
- 180.000-times increase in data transfer speed
- ..all becoming digital– industry, services, administration…

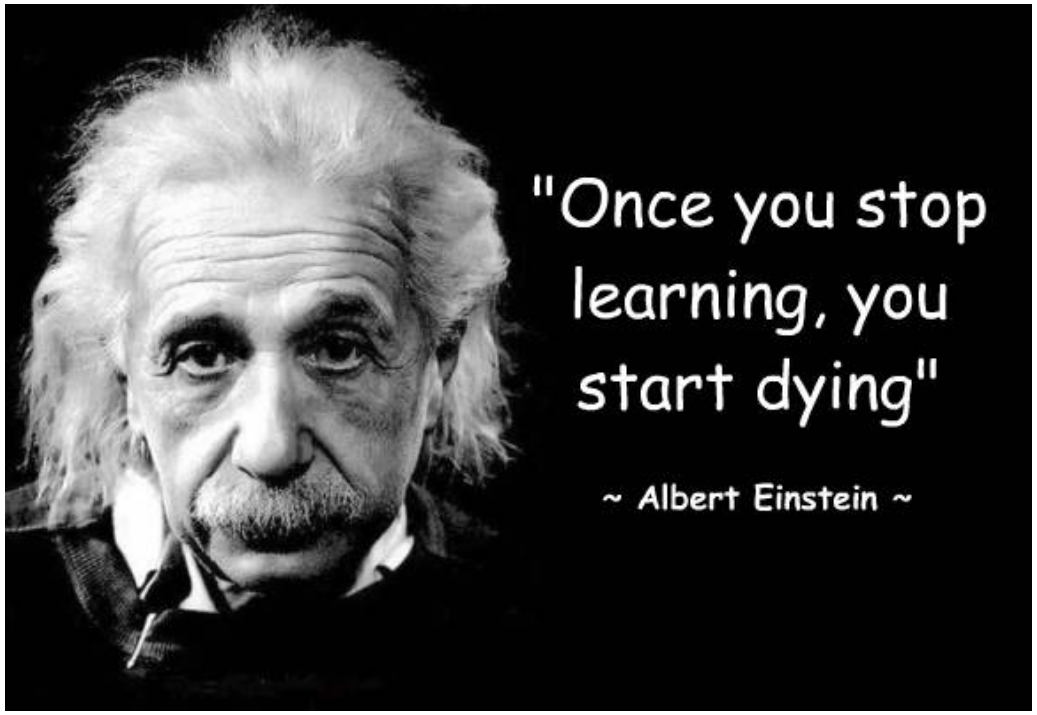
BIG / Small vs. FAST /Slow

- Strength in numbers of SME
- Think globaly, act localy, profit globaly

Connectivity vs Geographically

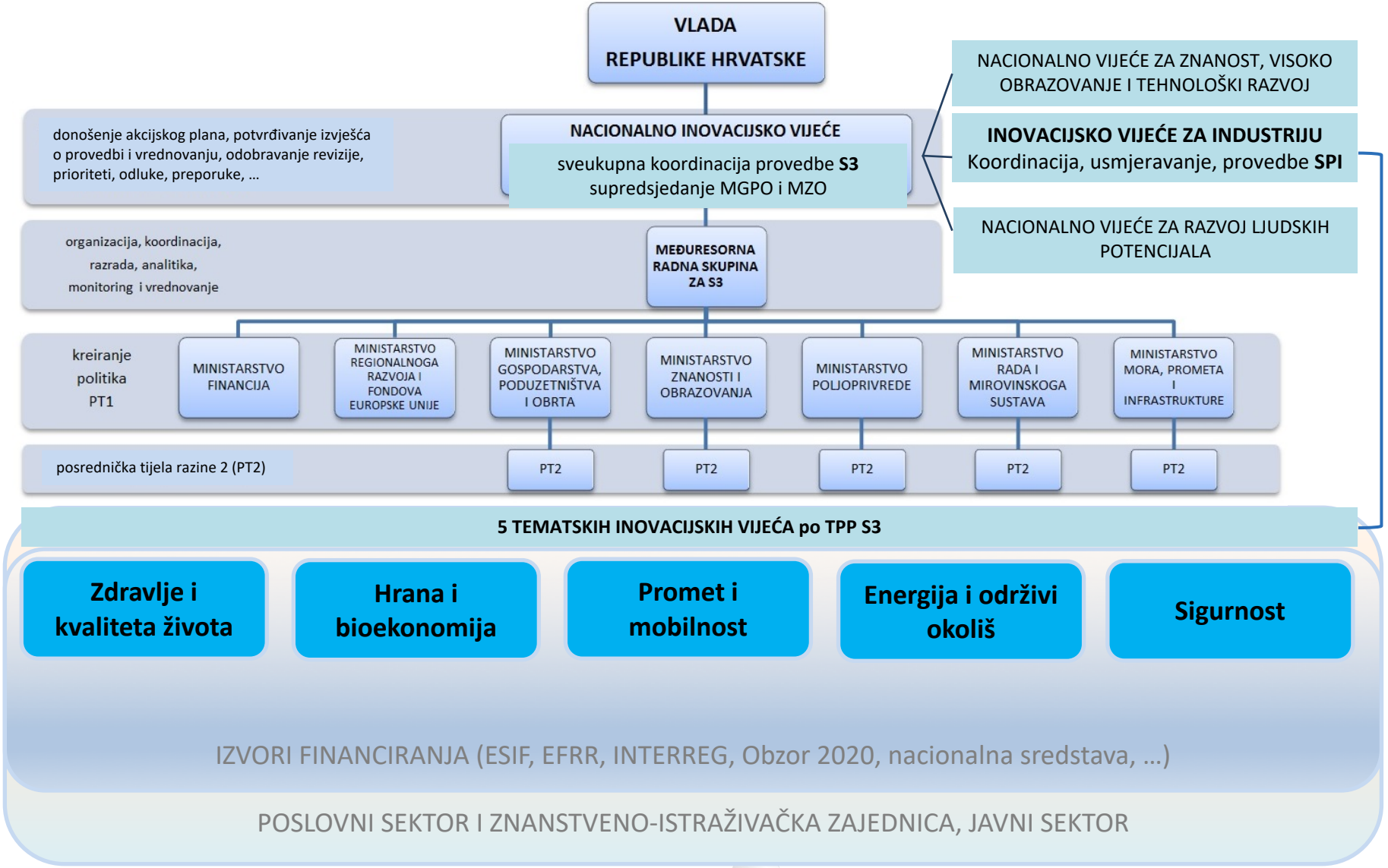
- Where is Croatia? Where we want it to be?
- Organizination, productivity, competitivness, flexibility
- Digitaly… from Ind.2.1 (+/-) towards Ind.4.0

Knowledge and skills – challenge for educational system of Croatia



- Coding/programing in 5y like math today
- Vocational-Dual Education, Vertical Flow, New
- Lifelong Learning, Self-actualization

#ToMiRadimo / #ThatWeDo



Vision, goals

Croatia will become internationally recognized by the scientific researcher and positioned as a valuable partner in the global value chain of innovation based on the innovation system that permanently enhances the competitiveness of the economy and responds to social challenges

Strategic goals:

- Increasing human capacity for R&D
- Improved innovation performance of CRO
- Increased share of business sector investment in R&D
- Increased number of research aimed at strengthening the competitiveness of the economy

Implementing of S3 leads us to opening calls for funding!

70% **20%** **10%**

S3 strategy – 5 areas

ZDRAVLJE I KVALITETA ŽIVOTA	ENERGIJA I ODRŽIVI OKOLIŠ	PROMET I MOBILNOST	SIGURNOST	HRANA I BIOEKONOMIJA
Farmaceutika, biofarmaceutika, med. oprema i uređaji	Energetske tehnologije, sustavi i oprema	Proizvodnja dijelova i sustava visoke dod. Vrijednosti za cestovna i željeznička vozila	Kibernetička sigurnost	Održiva proizvodnja i prerada hrane
Zdravstvene usluge i nove metode prevent. medicine i dijagnostike	Ekološki prihvatljive tehnologije, oprema i napredni materijali	Ekol. Prihvatljiva prometna rješenja	Obrambene tehnologije i proizvodi dvojne namjene	Održiva proizvodnja i prerada drva
Nutricionizam		Inteligentni transportni sustavi i logistika	Protuminski program	

ICT

KET (mikro- i nano-elektronika, nanotehnologija, industrijska biotehnologija, napredni materijali, fotonika, napredne proizvodne tehnologije)

#5 TIC, 300 Project ideas, 5,8 bil.HRK

	Zdravlje i kval. života	Energija i održivi okoliš	Promet i mobilnost	Hrana i bio-ekonomija	Sigurnost	UKUPNO
Br. proj. ideja	63	111	54	28	45	300
Broj tvrtki	55	93	42	21	36	247
Članice TIV-a	22	9	11	2	7	51
Nisu članice TIV-a	41	84	31	19	29	204
UKUPNA vrijednost	1.08 mlrd kn	2.40 mlrd kn	1.10 mlrd kn	0,366 mlrd kn	0,91 mlrd kn	5.87 mlrd kn
Prosj. vrijed./ projekt	17.17 mil kn	21.83 mil kn	20.51 mil kn	13.09 mil kn	20.39 mil kn	93.01 mil kn

Croatian Economy needs educated&skilled people for this areas!

Tomorow nothing will be as slow as today!

Can we answer on this challenges?