LIETUVOS
INOVACIJŲ
CENTRAS

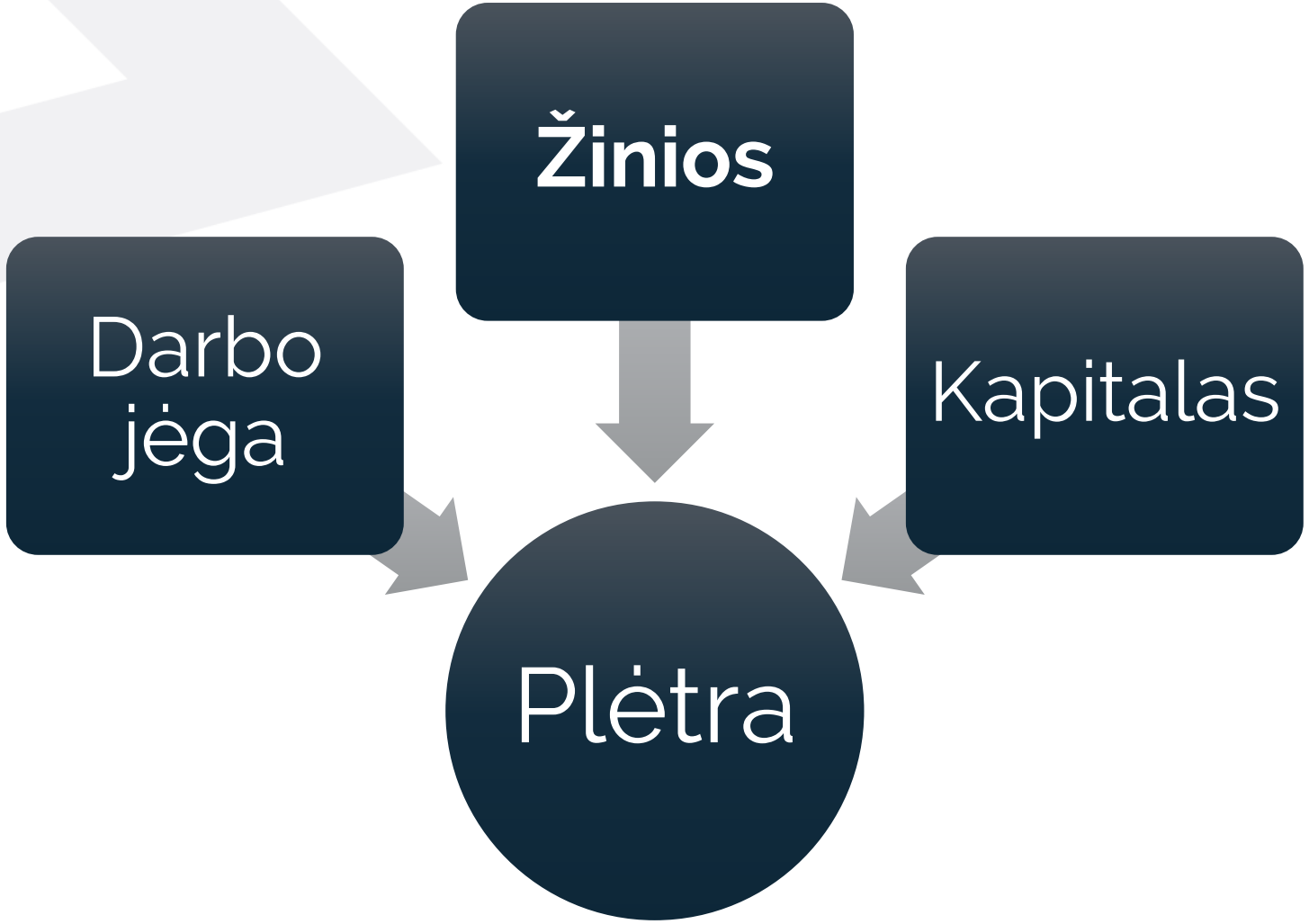
Verslo skaitmenizavimas – galimybė išlikti konkurencingu

Artūras Jakubavičius – Lietuvos inovacijų centras

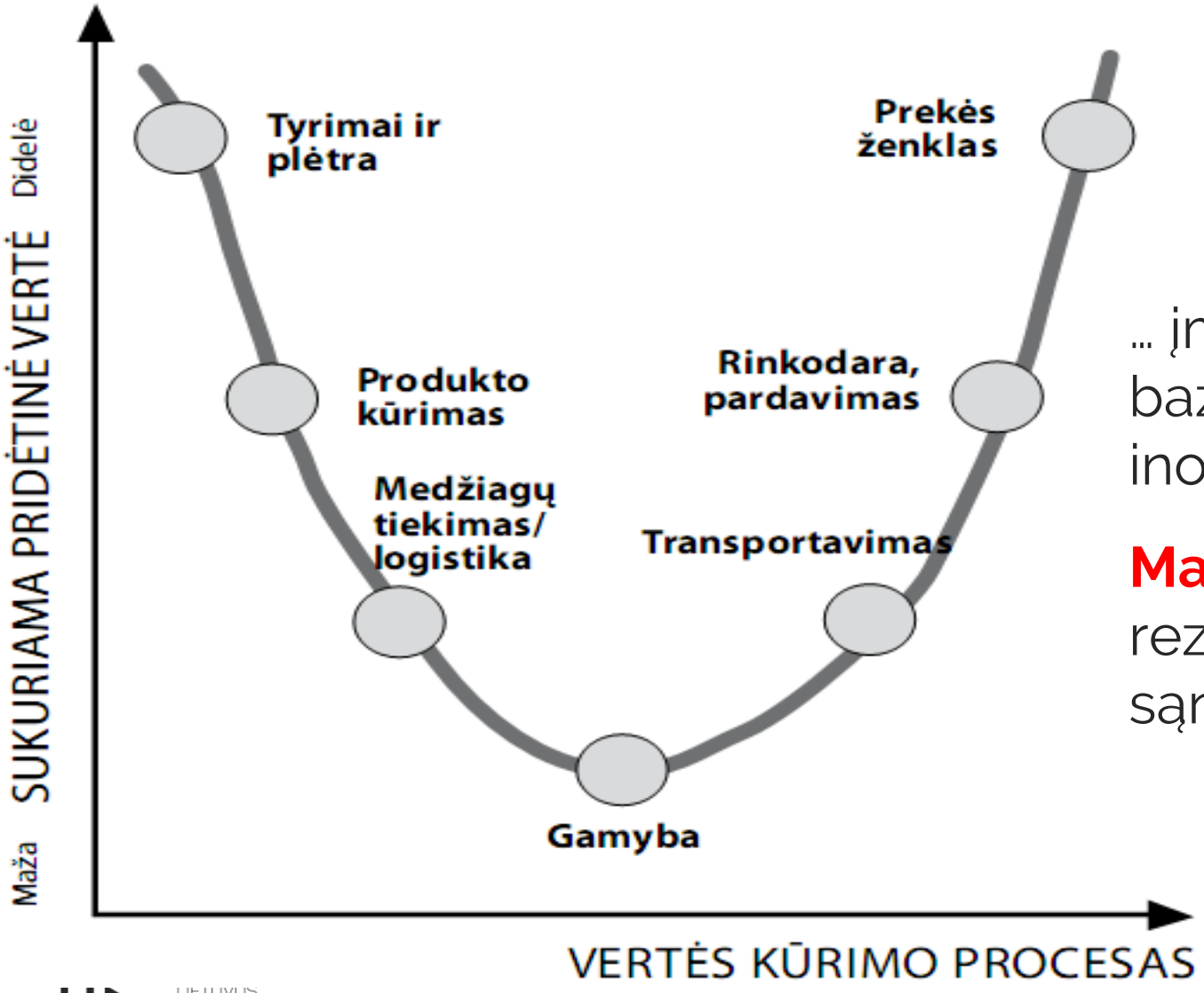
Vietoj įvado . . .

LIETUVOS
INOVACIJŲ
CENTRAS

Verslo plėtros dedamosios



Pridėtinė vertė

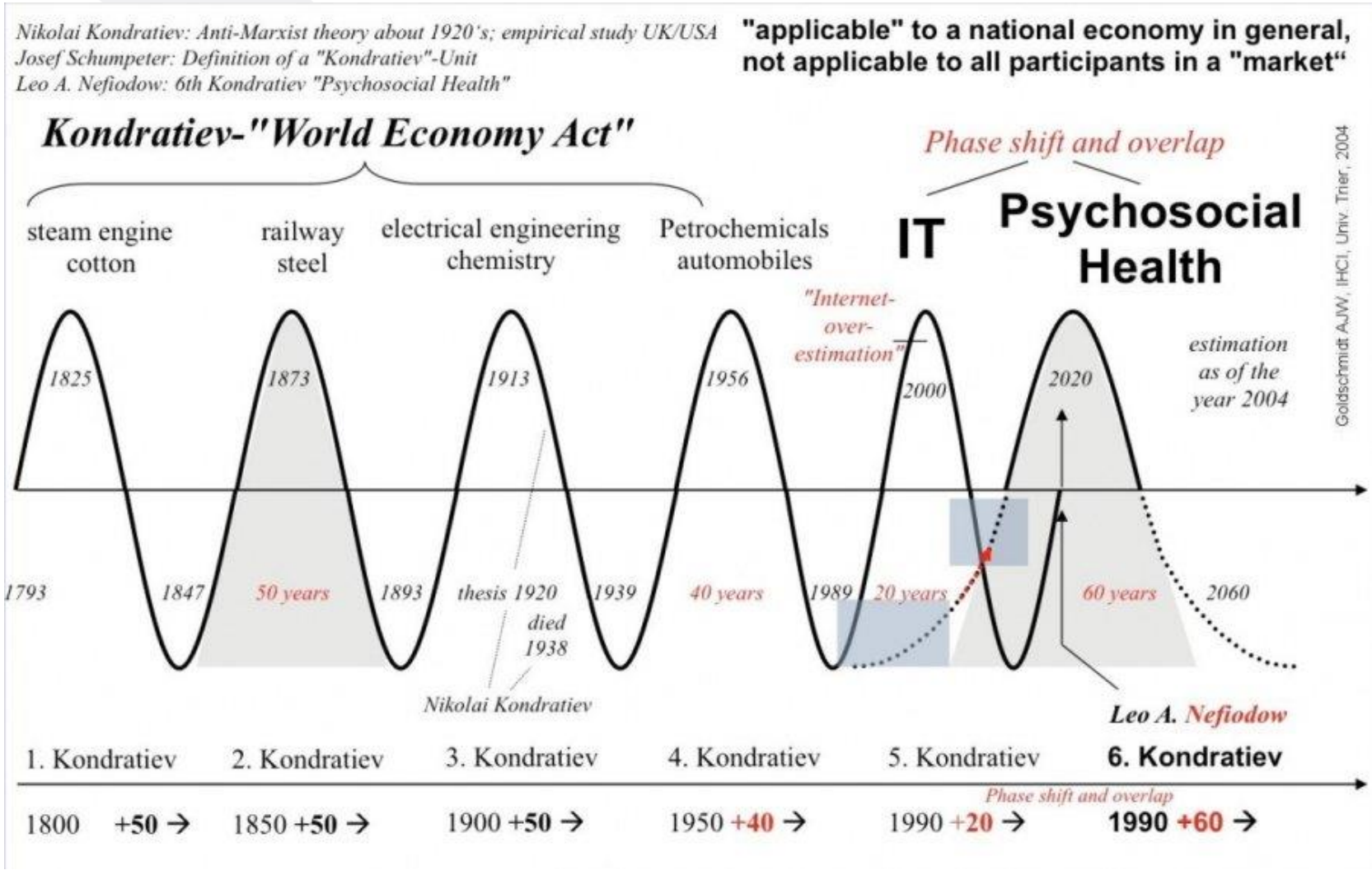


… įmonei būdingos dvi – ir tik dvi – bazinės veiklos: marketingas ir inovacijos.

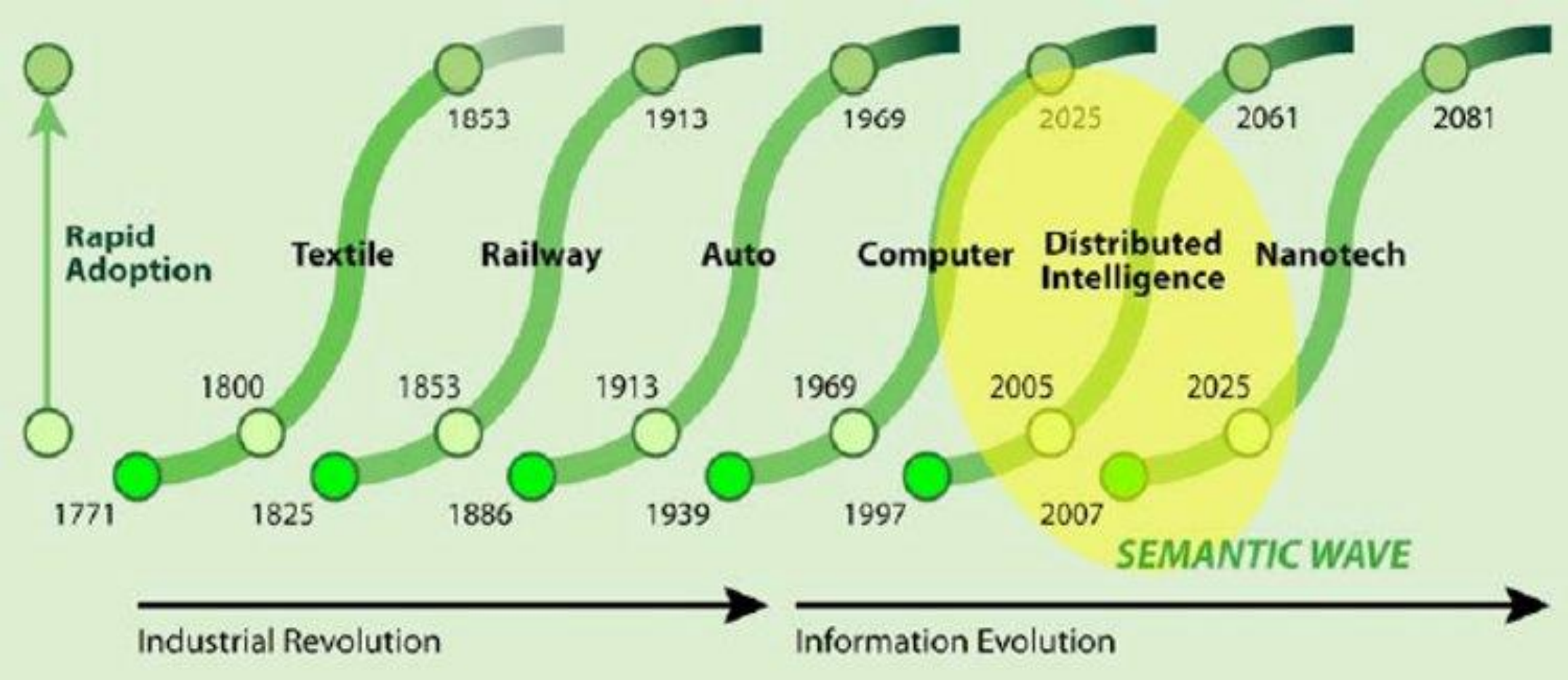
Marketingas ir **inovacijos** duoda rezultatus, visa kita yra tik sąnaudos.

Peter Drucker

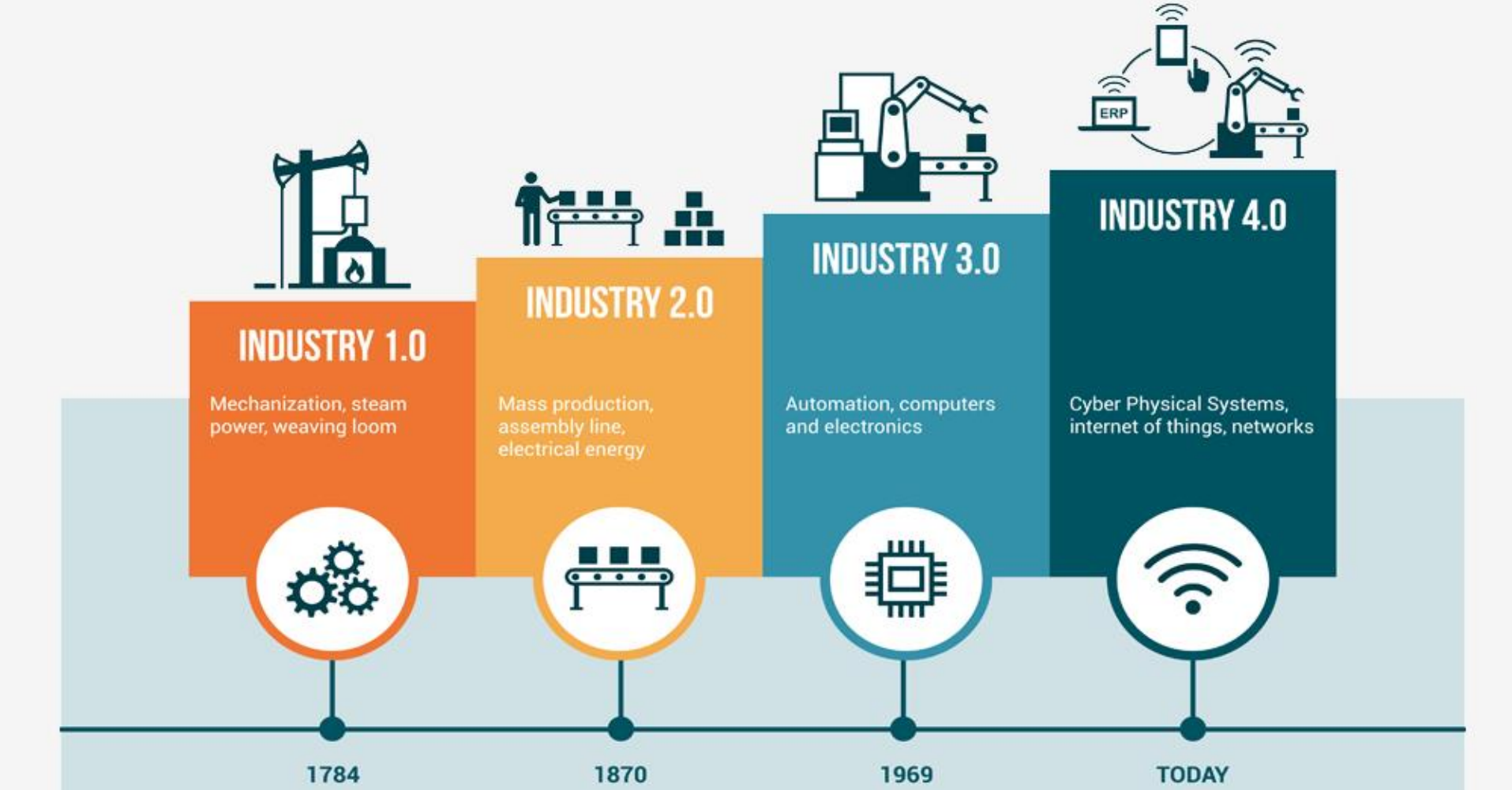
Nikolai Dmitriyevich Kondratiev (1892 - 1938)



Joseph Alois Schumpeter (1883 – 1950)



Pramonės (r)evoliucija



Pramonė 4.0: skaitmeninės technologijos

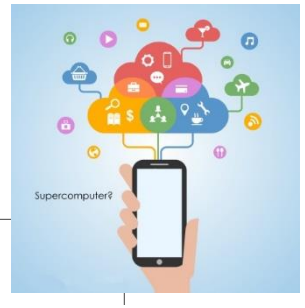
IMPLANTUOJAMOS TECHNOLOGIJOS

VIRTUALUS GYVENIMAS

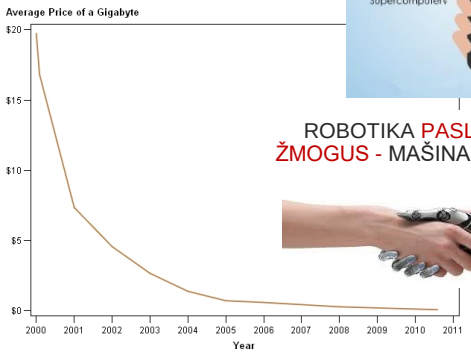
NEUROTECHNOLOGIJOS

REGOS SĄSAJOS

SUPER KOMPIUTERIS KIŠENĖJE



DIDELI DUOMENYS



ROBOTIKA PASLAUGOS, ŽMOGUS - MAŠINA SĄSAJA

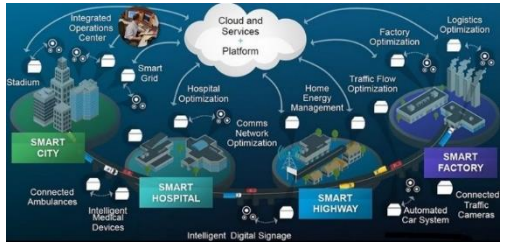
INTERNETAS APRANGOJE

DAIKTŲ INTERNETAS

DIDELI DUOMENYS SPRENDIMAMS PRIIMTI

IŠMANŪS NAMAI

IŠMANŪS MIESTAI



SAVAEIGIAI AUTOMOBILIAI

3D SPAUSDINIMAS

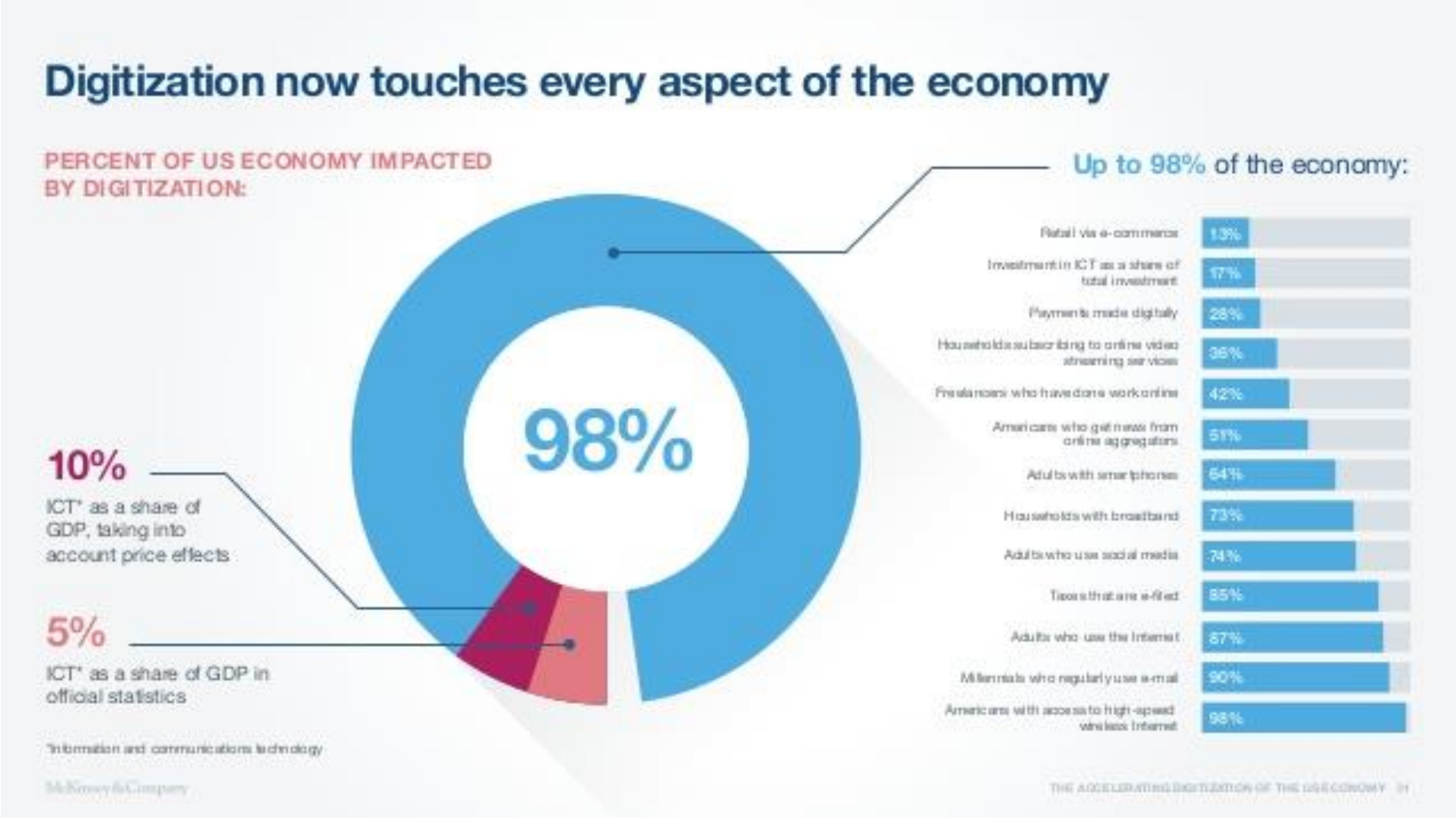
DALIJIMOSI EKONOMIKA

ŠALTINIS: WORLD ECONOMIC FORUM, 2016

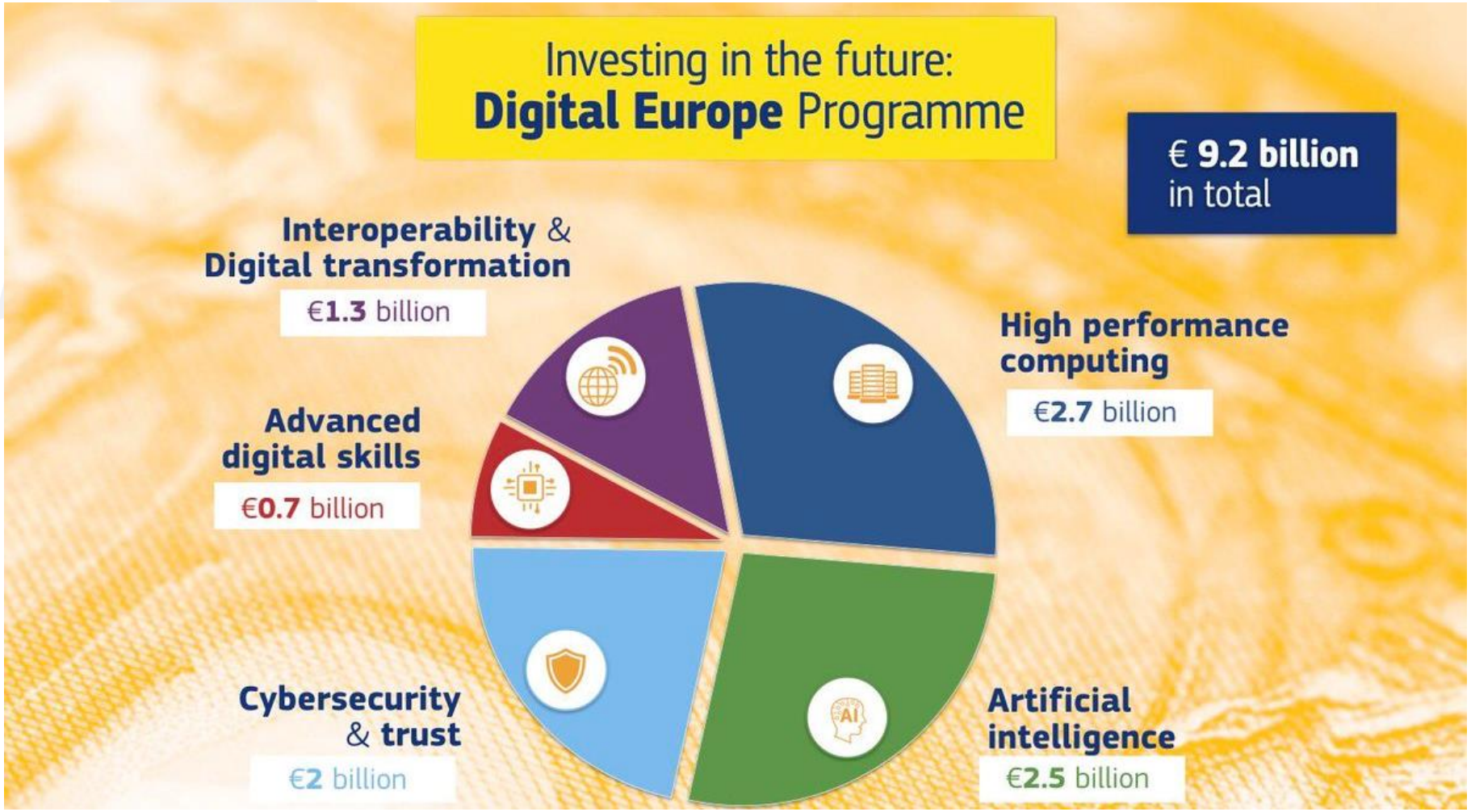
Skaitmeninė Europa

LIETUVOS
INOVACIJŲ
CENTRAS

Skaitmeninimas → ekonomika/visuomenė



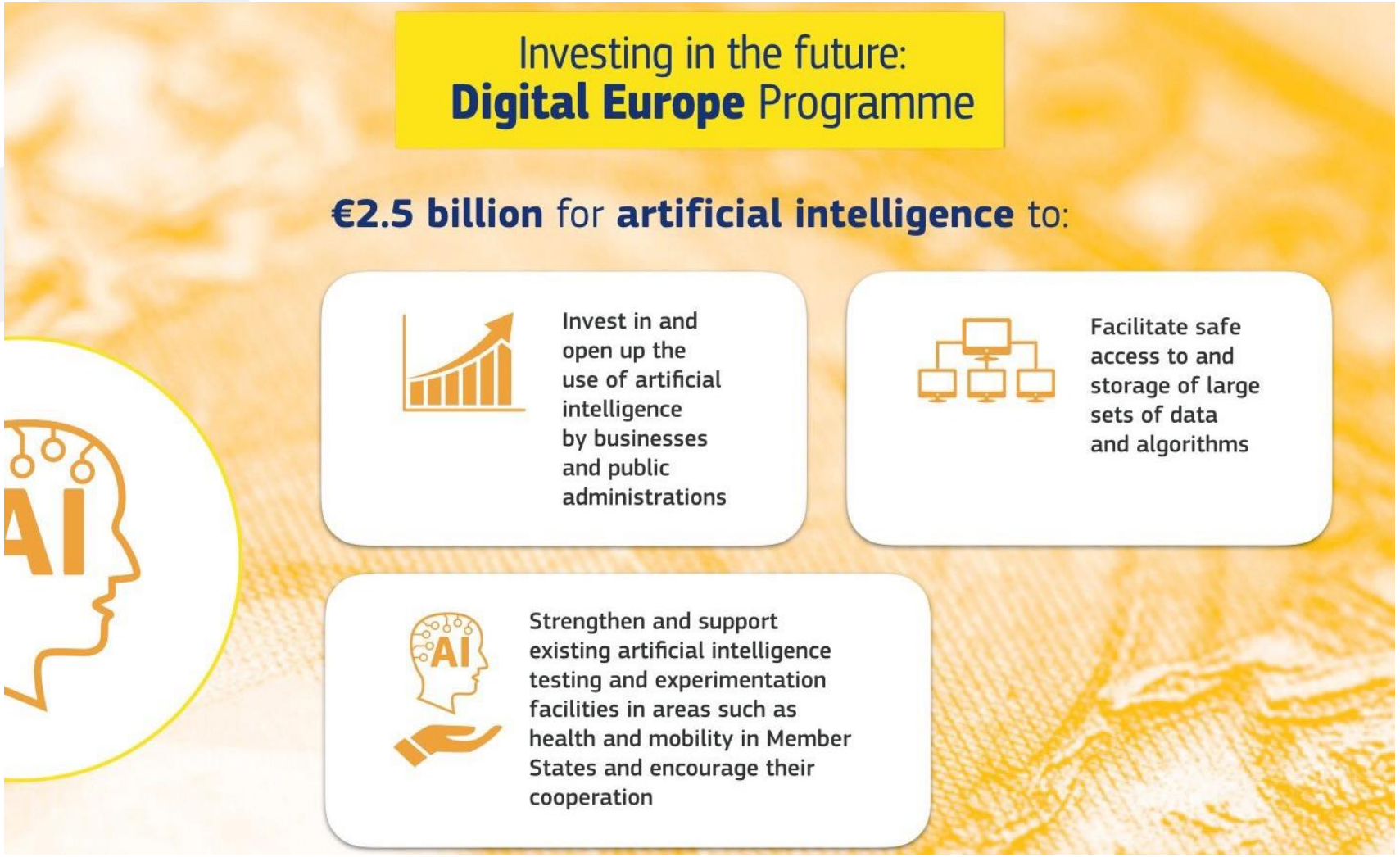
Skaitmeninė Europa (1)



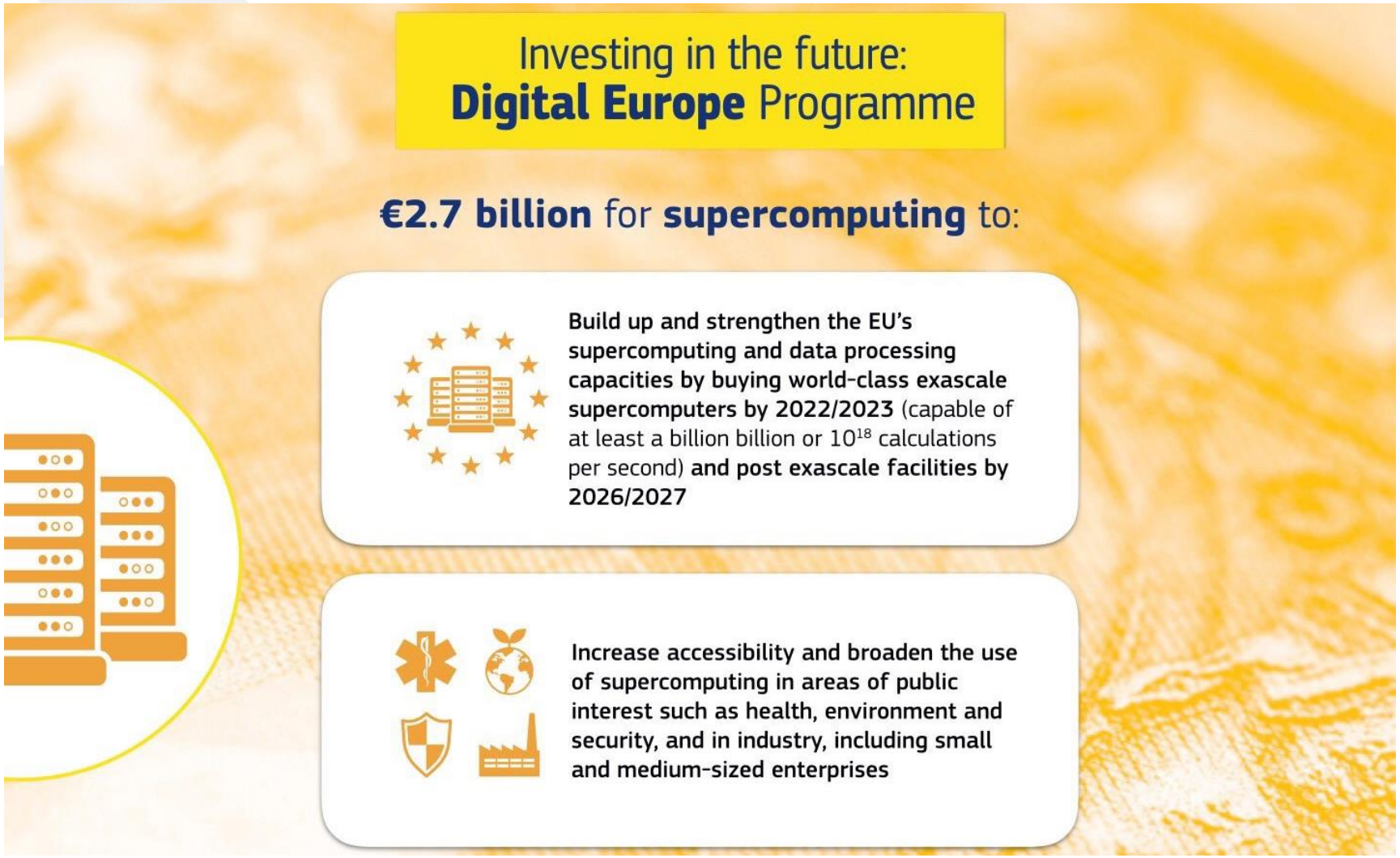
Skaitmeninė Europa (2)

Skaitmeninė Europa (3)

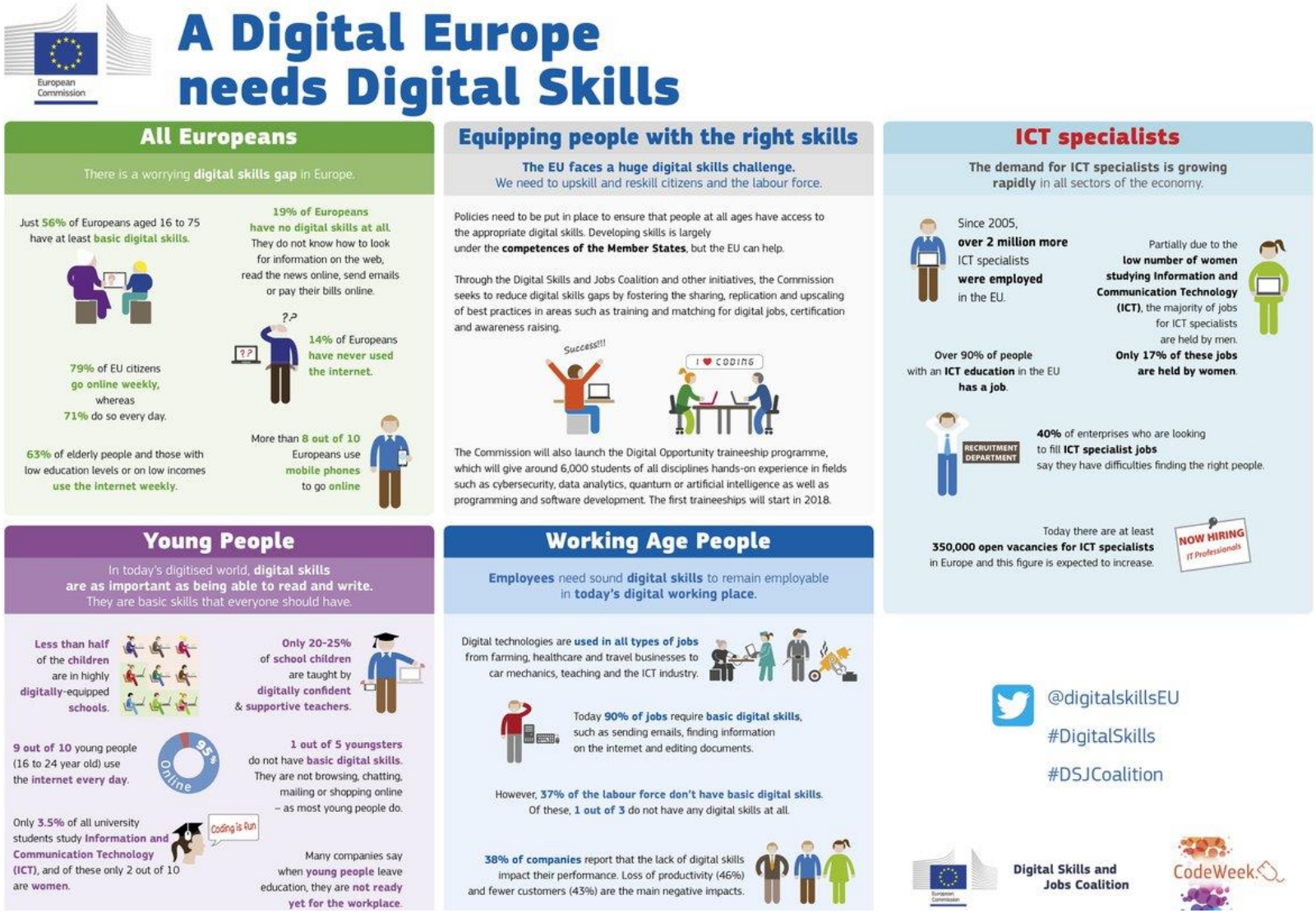
Skaitmeninė Europa (4)



Skaitmeninė Europa (5)



Skaitmeninė Europa (6)



ES biudžetas ?

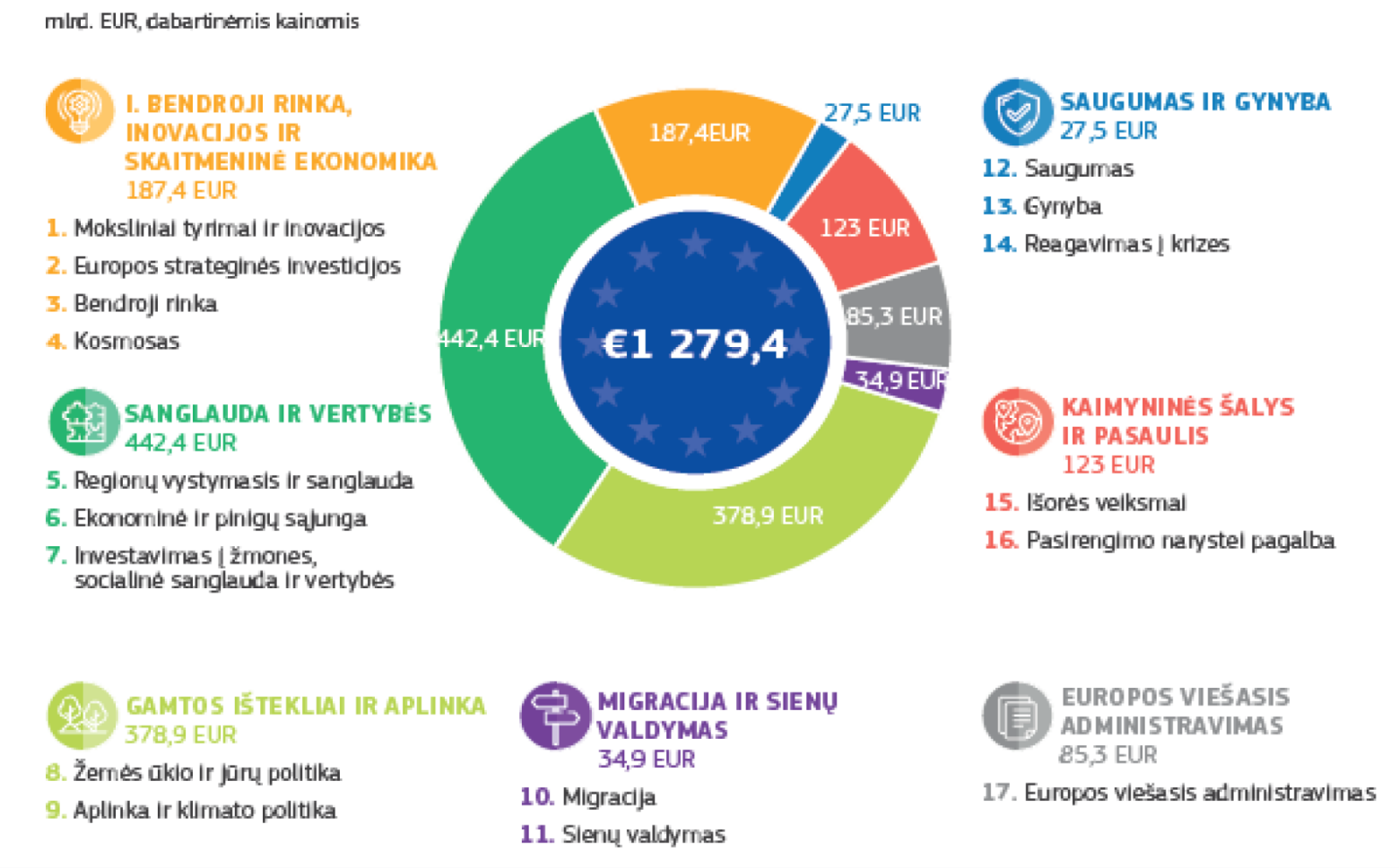
Tame tarpe:

- Europos regioninės plėtros fondas
- Europos socialinis fondas
- Sanglaudos fondas
- Europos žemės ūkio fondas kaimo plėtrai
- Europos jūrų reikalų ir žuvininkystės fondas
- FP7 / Horizon2020 / Horizon Europe
- ...

Kiek pasiimsime?

LIC LIETUVOS INOVACIJŲ CENTRAS

2021-2027 M. ES BIUDŽETAS



Šaltinis: Europos Komisija

Europos pramonės prioritetai 2030

ŽIEDINĖ EKONOMIKA

SKAITMENINIMAS

SEKTORIAI:

- **GAMYBA**
- **SVEIKATA**
- **ŽEMĖS ŪKIS**
- **ENERGETIKA**

Skaitmeninimas - visur

DIGITAL IN THE NEXT MFF: OVERVIEW

Digital Europe
Capacities & roll out

1. High Performance Computing (HPC)
2. Artificial Intelligence (AI)
3. Cybersecurity
4. Advanced digital skills
5. Digital transformation and interoperability

Digital in Horizon Europe
R&D&I

1. Digital under "global challenges"
   - Digital and industry cluster
   - Digital in other clusters - health, mobility, energy, environment,..
2. Open Innovation
3. Research Infra under Open Science

Connecting Europe Facility - Digital
Connectivity

- 5G roll out
- BB 4EU, Connecting communities
- Synergies with Transport /Energy

Creative Europe
MEDIA

Invest EU
Research, innovation & digitisation

European Regional Development Fund/ Cohesion Fund

2021–2027 M. SF INVESTICIJŲ TIKSLAI

Cohesion Policy Objective 1: 2021-27 A smarter Europe by promoting innovative and smart economic transformation

Enhancing **R&I** capacities + uptake of advanced technologies

Digitisation for citizens, companies and governments

Smart Specialisation Strategies

Developing **skills** for S3, industrial transition and entrepreneurship

Growth and competetitiveness of **SMEs**

start-up/scale-up

Interregional innovation investments

European Commission

Policy objective 2: A greener, low-carbon Europe, by promoting clean and fair energy transition, green and blue investment, the circular economy, climate adaptation and risk prevention and management

- **(i)** promoting energy efficiency measures;
- **(ii)** promoting renewable energy;
- **(iii)** developing smart energy systems, grids and storage at local level;
- **(iv)** promoting climate change adaptation, risk prevention and disaster resilience;
- **(v)** promoting sustainable water management;
- **(vi)** promoting the transition to a circular economy;
- **(vii)** enhancing biodiversity, green infrastructure in the urban environment, and reducing pollution;

=> PO2 allows for integrated, cross-sectorial approaches

=> PO2 provides important support/opportunities for transition towards climate neutral, circular economy

European Commission

Policy Objective 3: A more connected Europe by enhancing mobility and regional ICT connectivity

Specific Objectives from CF/ERDF

- (i) enhancing digital connectivity;
- (ii) developing a sustainable, climate resilient, intelligent, secure and intermodal TEN-T;
- (iii) developing sustainable, climate resilient, intelligent and intermodal national, regional and local mobility, including improved access to TEN-T and cross-border mobility;
- (iv) promoting sustainable multimodal urban mobility;

Priorities:

=> Better physical and digital connectivity

=> Balanced development of the transport network (all layers)

=> More sustainability; reducing externalities (safety, air quality, CO2)

European Commission

Policy Objective 4 - A More Social Europe – Implementing the European Pillar of Social Rights

ESF+ Specific Objectives

EMPLOYMENT	EDUCATION TRAINING	SOCIAL INCLUSION
• (i) Access to employment of all jobseekers • (ii) Modernising labour market institutions and services • (iii) Women's labour market participation, work/life balance, well-adapted working environment, adaptation of workers & enterprises, active & healthy ageing	• (iv) Improving the quality, effectiveness and labour market relevance of education and training systems • (v) Promoting equal access to and completion of, quality and inclusive education • (vi) Lifelong learning, upskilling, anticipating change and new skills requirements	• (vii) Active inclusion • (viii) Socio-integration of migrants and marginalised communities e.g. Roma • (ix) Equal and timely access to services; social protection healthcare systems and long term care • (x) Social integration of people at risk of poverty; • (xi) Addressing material deprivation

Gender equality, equal opportunity & non-discrimination

Also contributes to other policy objectives, in particular, to PO 1 a Smarter Europe; PO 2 A Greener, low-carbon Europe

European Commission

Policy objective 5

The objective

Foster economic, social, and environmental sustainability and resilience in all places.

- **Urban context:** to benefit from agglomeration economies and positive spill-overs towards the wider functional urban and rural areas close to cities
- **Other territories:** To build on the potentials and specific assets of remote rural areas and local communities (beyond compensatory)

European Commission

Šaltinis: LRV

LIETUVOS INOVACIJŲ CENTRAS

Vietoj išvadų ...

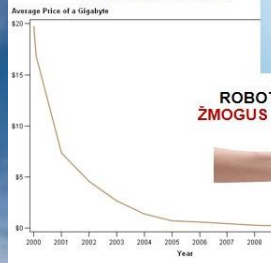
LIETUVOS
INOVACIJŲ
CENTRAS

Gero (konkurencingo) gyvenimo belaukiant

IMPLANTUOJAMOS TECHNOLOGIJOS

SUPER KOMPIUTERIS KIŠENĖJE

DIDELI DUOMENYS



ROBOTIKA PASLAUGOS, ŽMOGUS - MAŠINA SĄSAJA

INTERNETAS APRANGOJE

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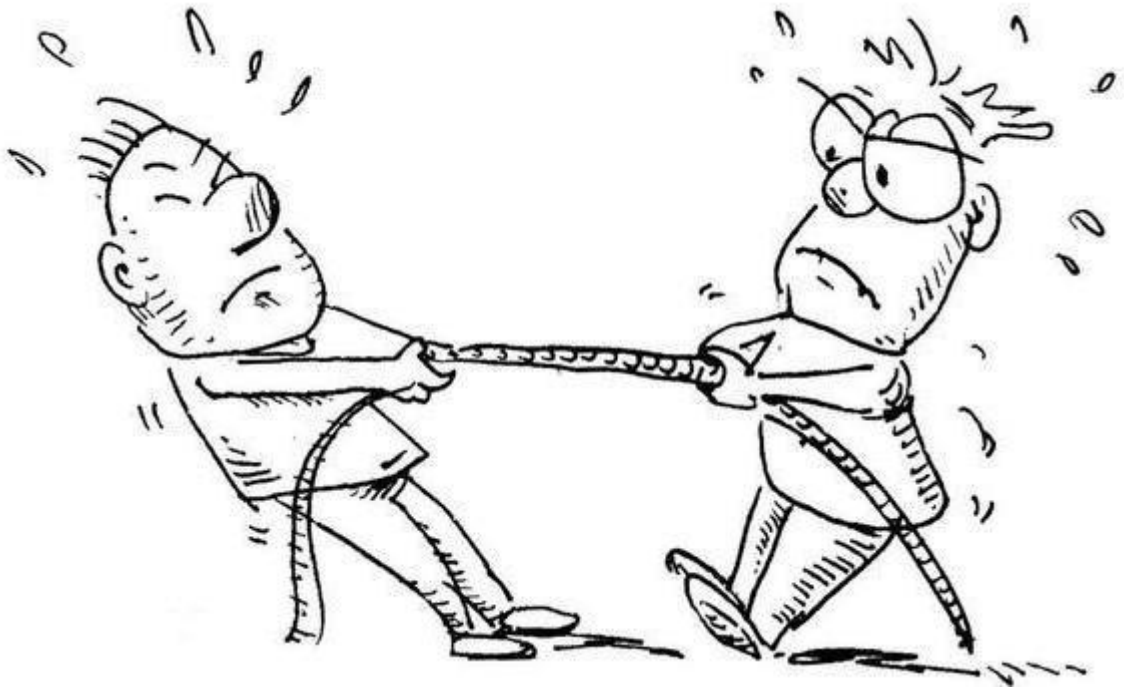
DALIJIMOSI EKONOMIKA

LIC LIETUVOS INOVACIJŲ CENTRAS

Skaitmeninimas: iššūkiai ir galimybės

- Skaitmeninimas – konkurencingas rytojus
- Skaitmeninimas: traukinys .... nelaukia
- ES formuoja skaitmeninimo paskatų mechanizmą
- EIM remia/rems skaitmeninimo iniciatyvas

Pramonė 4.0 ⇒ skaitmeninimas neišvengiamas



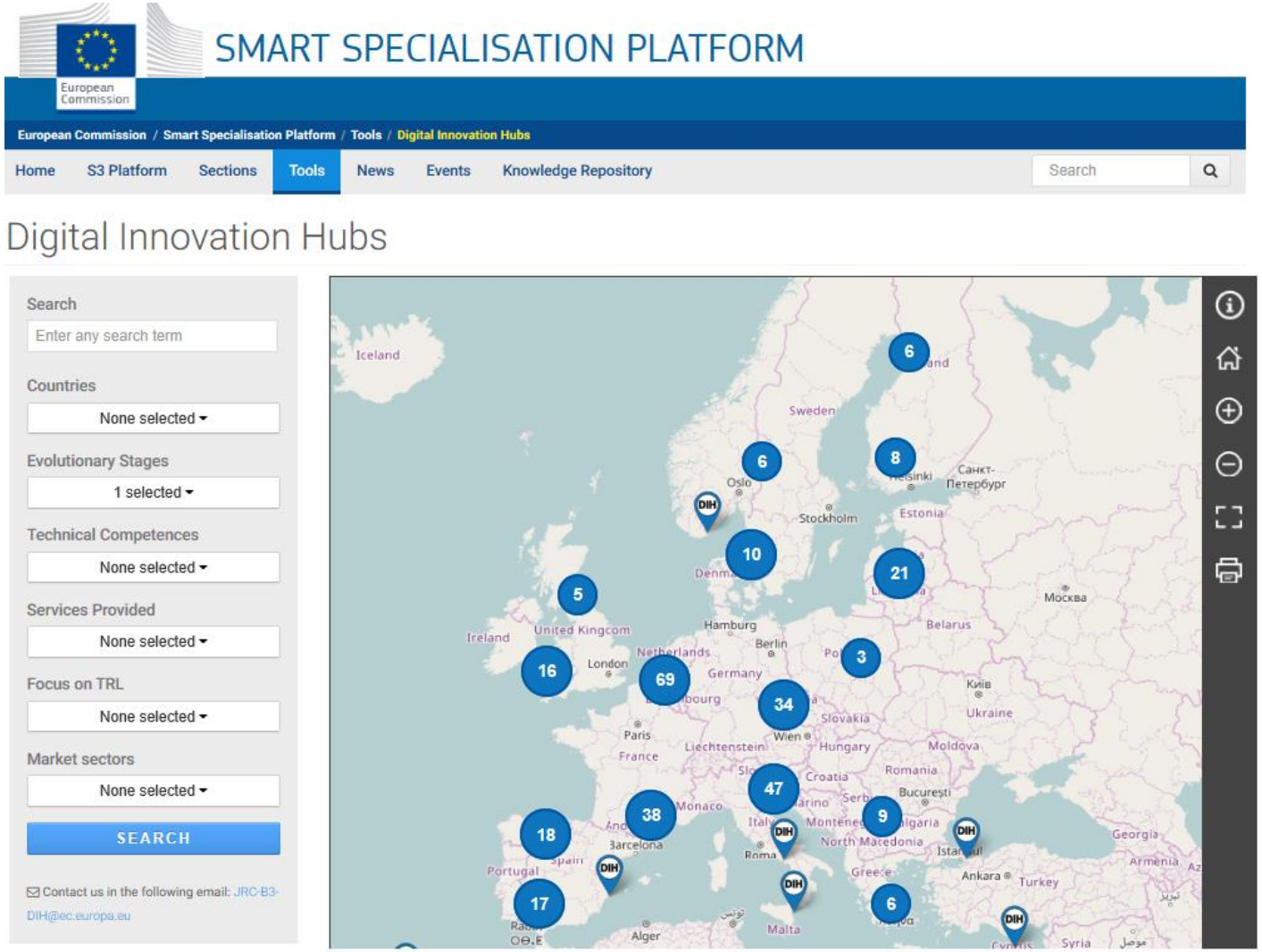
↔

Aš užteks visiems vietos po saule? Kas priešai? Kas partneriai? Kas ...

Skaitmeniniai inovacijų centrai

https://s3platform.jrc.ec.europa.eu/digital-innovation-hubs-tool

SIC – organizacija ar organizacijų susivienijimas (klasteris), kurio pagrindinė veikla yra teikti paslaugas ūkio subjektams, diegiant naujas skaitmenines technologijas, siekiant skaitmeninti produktus ir procesus.



Europoje – 532:

- 212 (in preparation);
- 320 (fully operational)

Lietuvoje – 15:

- 1 (in preparation);
- 14 (fully operational)

LIETUVOS INOVACIJŲ CENTRAS

Išlikti negalima išnykti !

Kur padėsime kablelį?

Šviesaus rytojau belaukiant:

- MTEP ir inovacijos
- Skaitmeninių technologijų diegimas
- „Žalių“ technologijų diegimas
- Darbuotojų mokymas
- Integracija į tarptautines vertės kūrimo grandines
- Nepamiršti, kad „geras gaspadorius vasarą taiso roges, o žiemą – ratus“

Išlieka ne stipriausios ir net ne protingiausios rūšys, o tos, kurios geriausiai prisitaiko prie pokyčių

Č.Darvinas

LIETUVOS INOVACIJŲ CENTRAS

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+370 687 36632
a.jakubavicius@lic.lt

LIETUVOS
INOVACIJŲ
CENTRAS

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lic@lic.lt