

Umetna inteligenca in prihodnost vseživljenskega učenja

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Mehanistični (Taylorjev) sistem



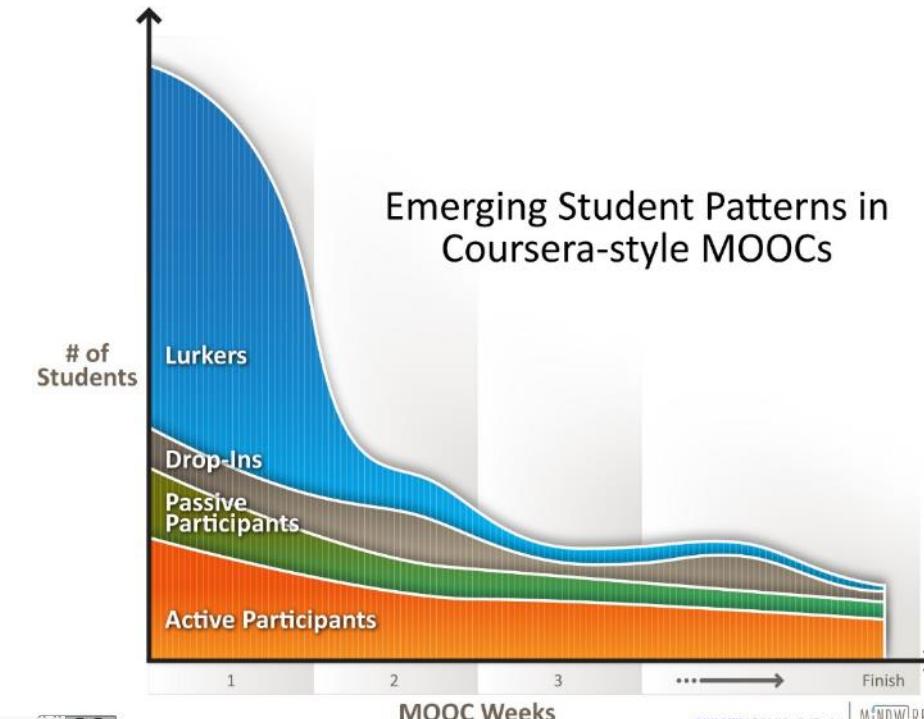
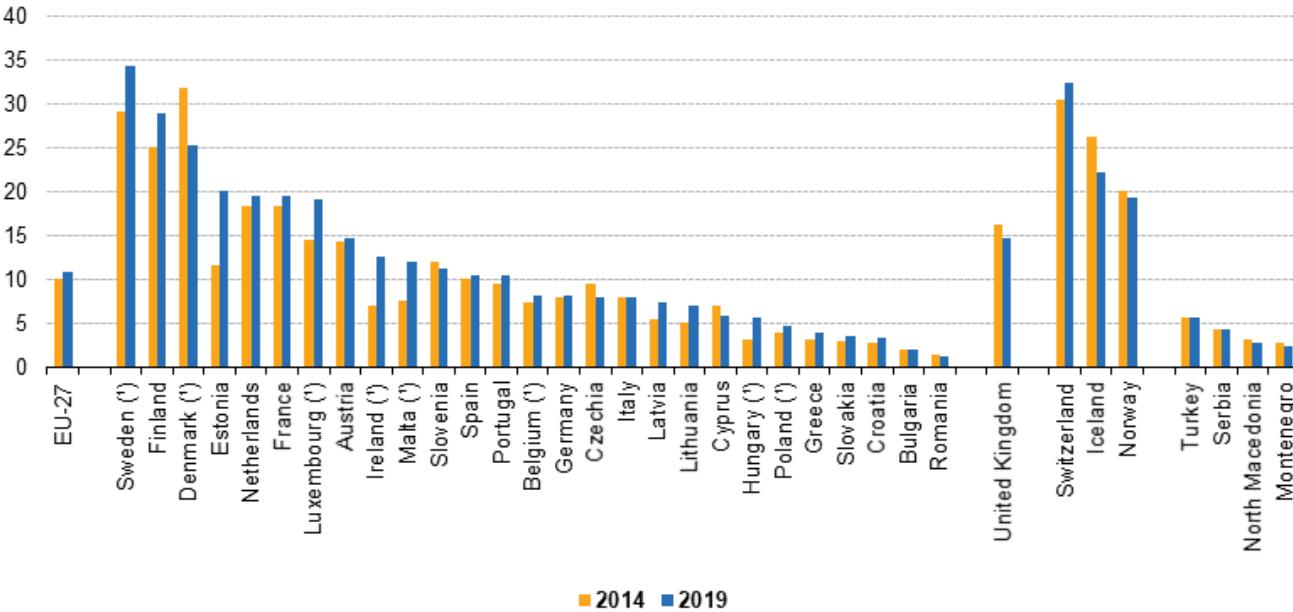
Izzivi vseživljenjskega izobraževanja

- Učni izzivi:
 - Motivacija: nuja proti želji
 - Relevantnost in veljavnost potrdil o znanju
 - Težave pri razumevanju vsebine in pomankjanje predznanja
 - Tesnobjnost učencev glede uspešnosti, pomanjkanje samozavesti in vztrajnosti
- Planiranje časa – delo, družina, prosti čas, izobraževanje
- Tehnični izzivi:
 - pomanjkanje digitalnih kompetenc
 - otežen dostop do primernih učnih vsebin, ItKT infrastrukture in orodij
- Izzivi povezani z delom in službo:
 - Preobremenjenost na delu
 - Organizacijske ovire
- Izzivi povezani z učiteljem/predavateljem
 - Nizka učinkovitost in pogostost komunikacije
 - Pomanjkanje motiviranja in usmerjanja
 - Občutek izolacije: samoučenje vs. skupinska in socialna interakcija

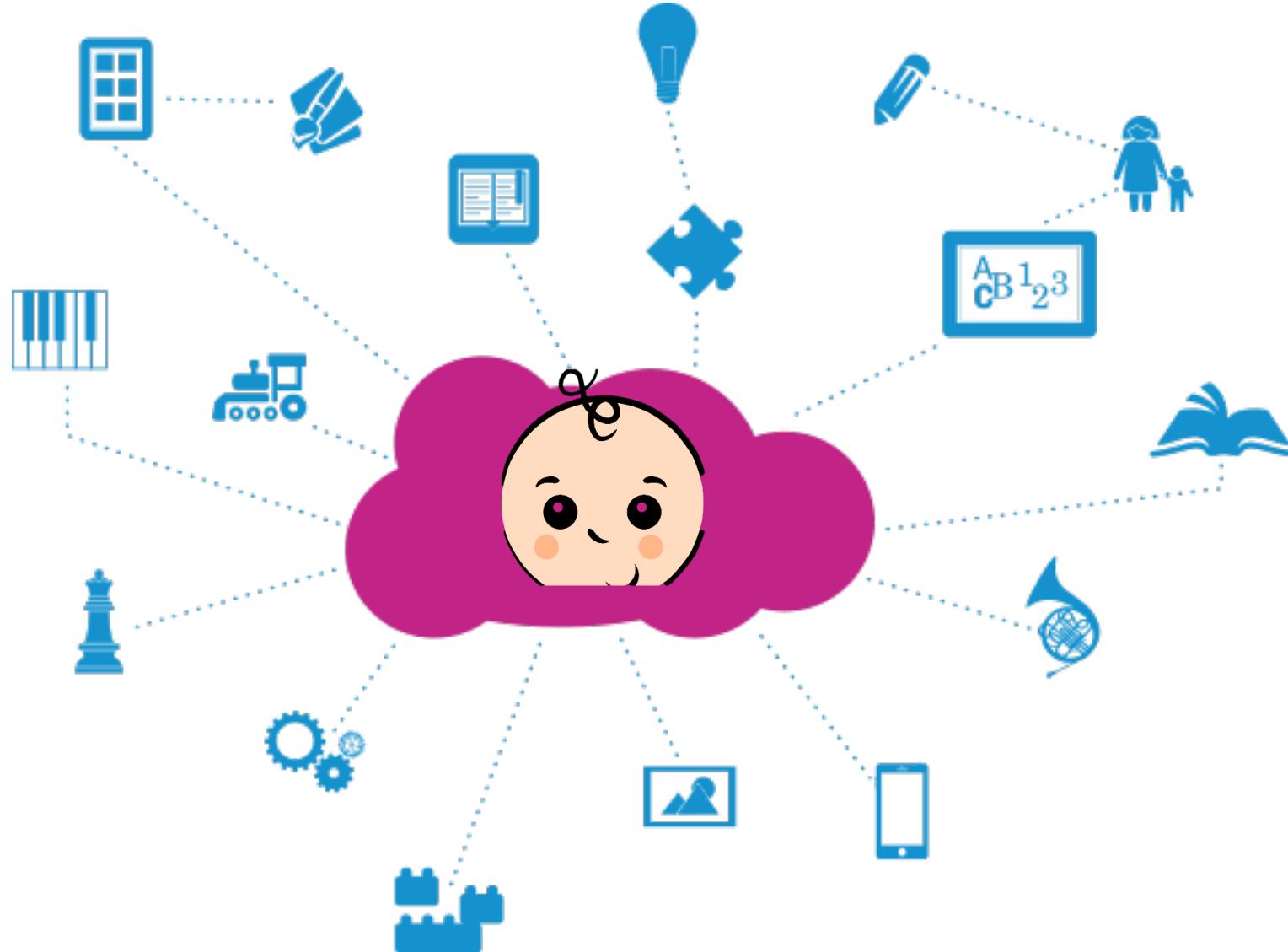


Posledice

Adult participation in learning, by country, 2014 and 2019
(% of population aged 25 to 64)



Adaptivno (socialno) učno okolje



Nivoji: Internet izobraževanja

Politike

Formalno okolje, pravila, organizacija, zagotavljanje in ocenjevanje kakovosti, financiranje ...

Modeli dodane vrednosti

Certificiranje, kvalifikacije, competence,...

Programi

Učni programi, učni načrti, akreditacije, ...

Metode in storitve

Izobraževalna orodja in storitve, orodja za sodelovanje in izmenjavo, učna analitika, didaktika, metodologije, učni prisopi in modeli,...

Vsebina

E-vsebine, učbeniki in učna gradiva, podatki in referenčna gradiva, TV oddaje, audio knjige, članki, ...

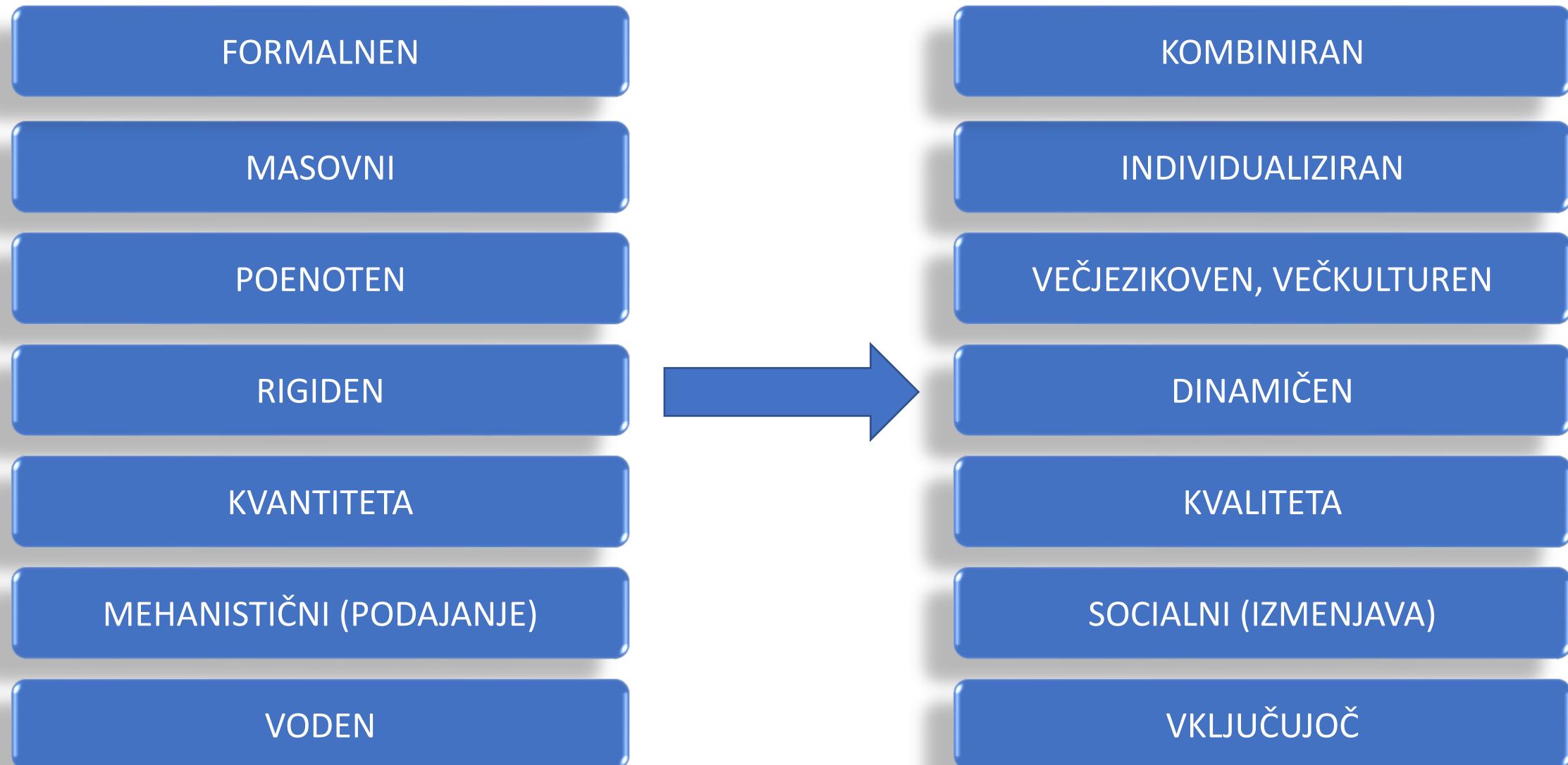
Infrastruktura

Informacijska infrastruktura, stavbe, inštitucije, učna okolja,, naprave in senzorji, laboratoriji, ...

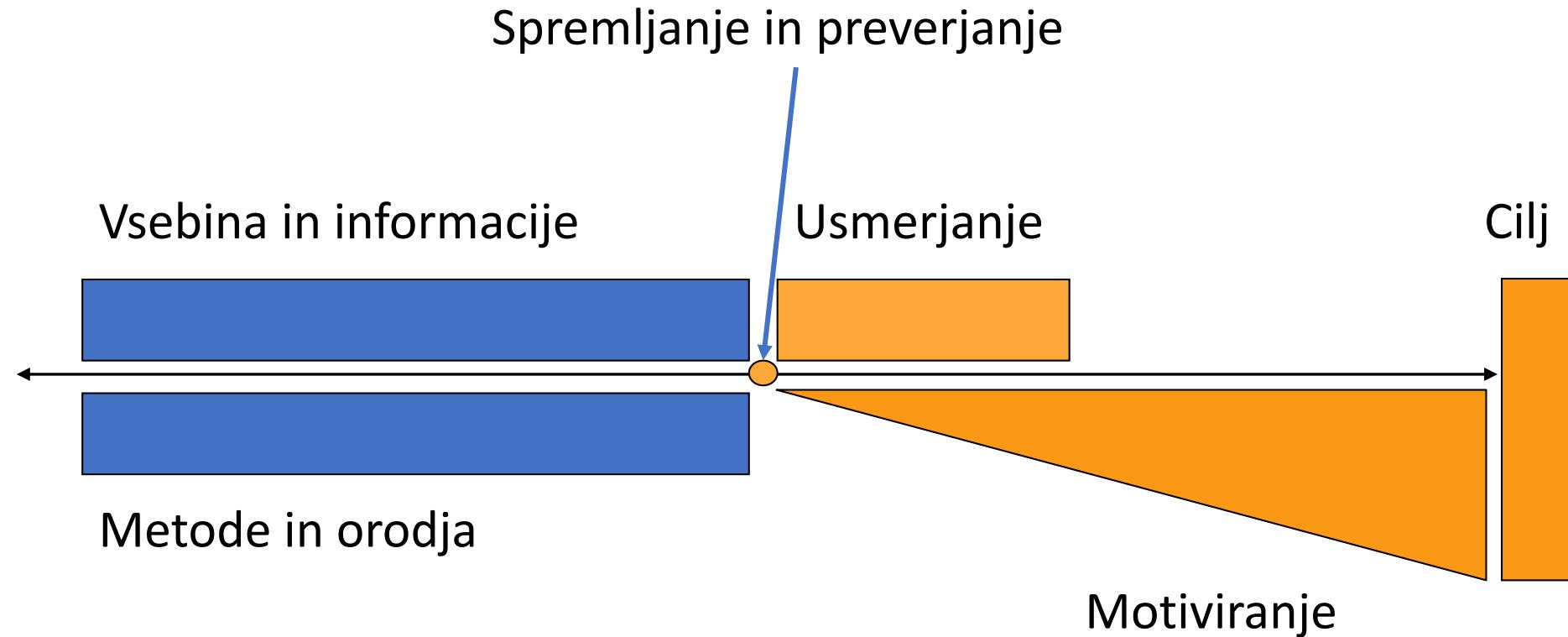
Količina: Infrastruktura na svetu (ocene)

Število šol: 1.2 million	Registered sites	101,943
Število visokošolskih inštitucij: >20.000	Countries	229
Število učiteljev: >80 million	Courses	16,046,801
Število komercialnih učnih okolij: >700	Users	138,286,280
Število oddaljenih laboratoriјev: >1500	Enrolments	620,032,477
Število knjižnic: >400.000	Forum posts	291,154,649
Število knjižnih naslovov: 130 million / 1.5 million učenikov	Resources	141,972,412
Število odprtih izoraževalnih virov: >2 miliarde	Quiz questions	983,250,787
Število Wikipedia člankov: >5.7 million		
Število DBpedia entitet: >4.5 million, >4.2 million in ontology, >5 billion RDF		
Število Cyc konceptov: 450.000		
Število znanstvenih člankov na leto: >2.5 million		
Število člankov v medijih na dan: >2 million		
Število online učnih repozitorijev: > 8.000		
Število TV kanalov: > 27.000		
Število spletnih strani: >1.8 miliarde		
Število.....		

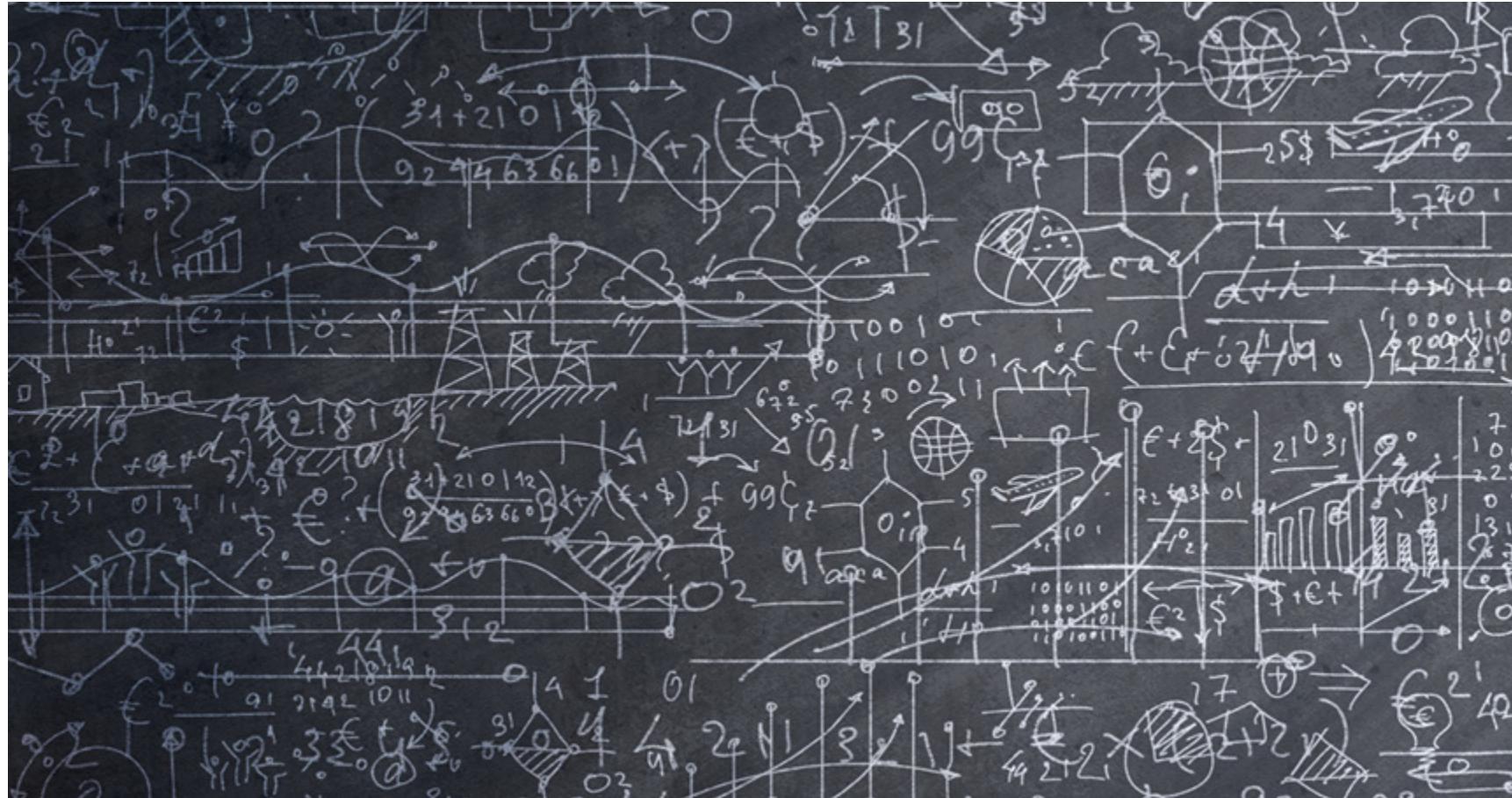
Dinamika: Transformacija izobraževanja



Mehke vsebine: Personalizacija



Kako obvladovati vso to kompleksnost?



UI na pomoč...

Inteligentni asistent



Modeliranje in preverjanje

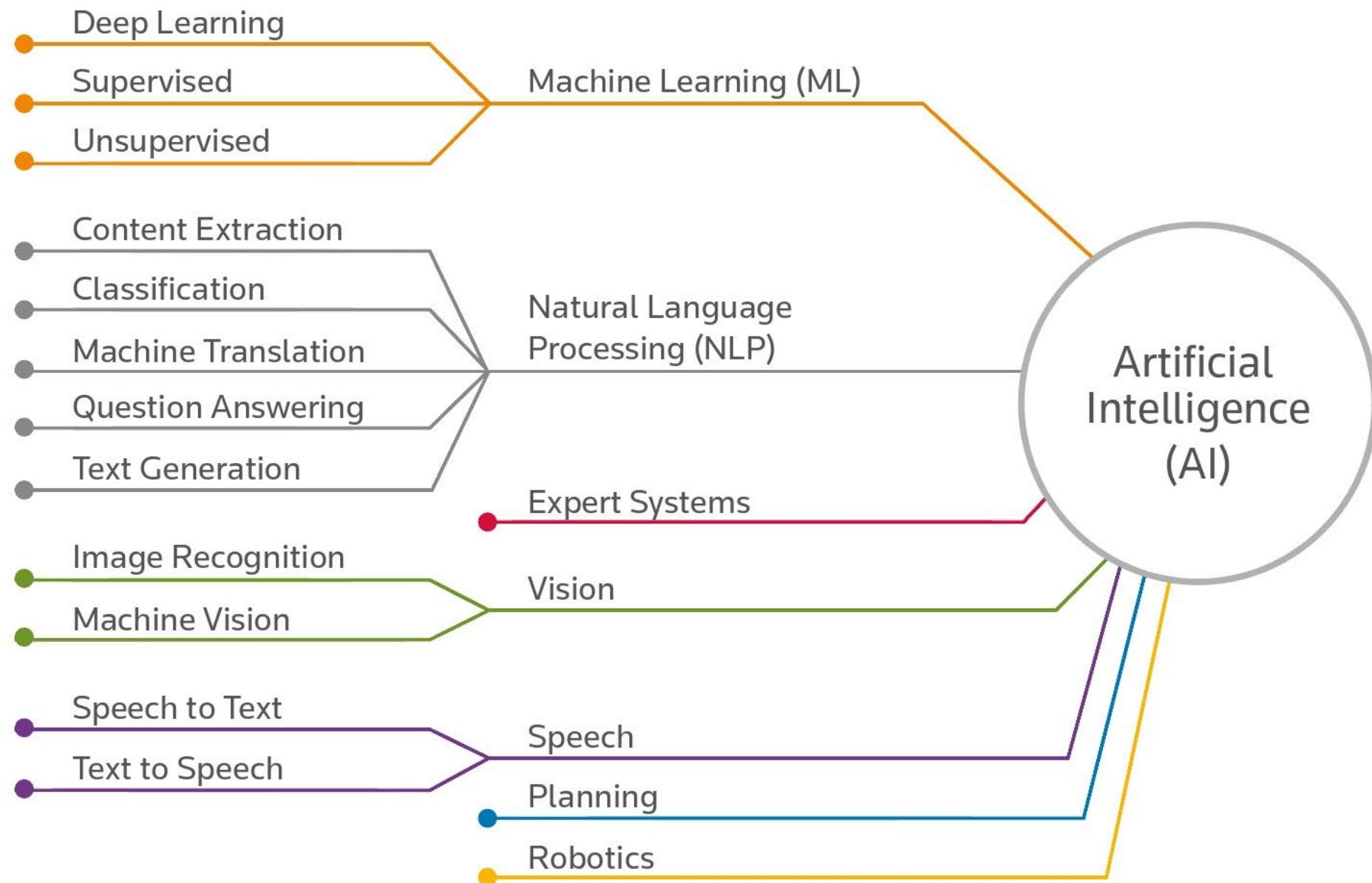
Učitelj
Človek/ Stroj

Sočasna
personalizacija

Učni kanal

Informacija/
vsebina

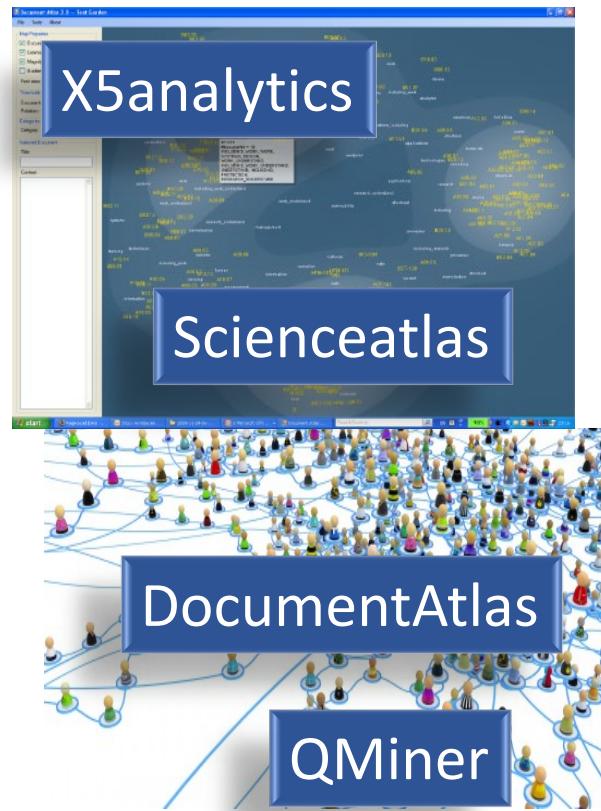
Procesiranje vsebin in
razumevanje informacij



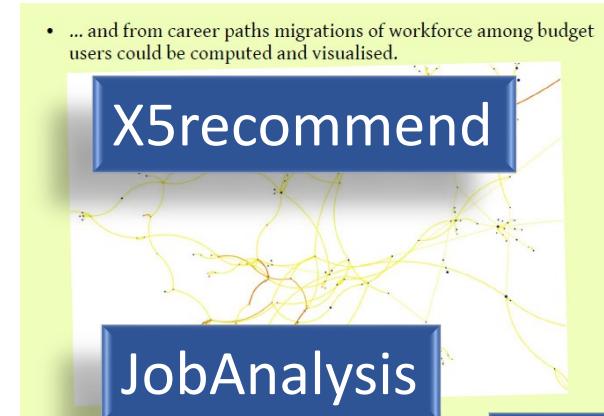
Kaj pa če....



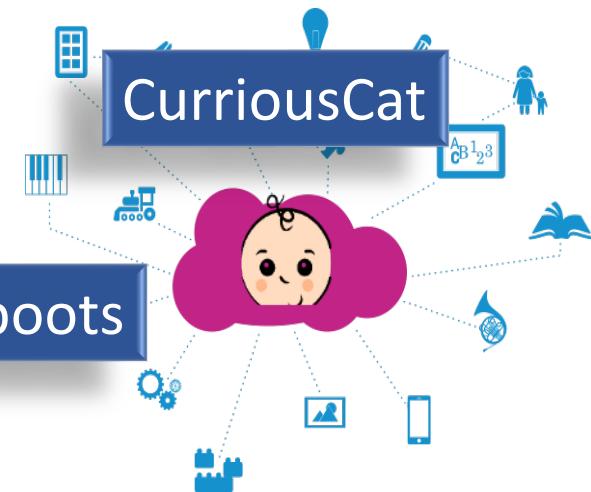
Automatic ingestion,
 cleaning, fusion , structuring,
 preprocessing



User modelling and
 understanding,
 social network modelling



Career path

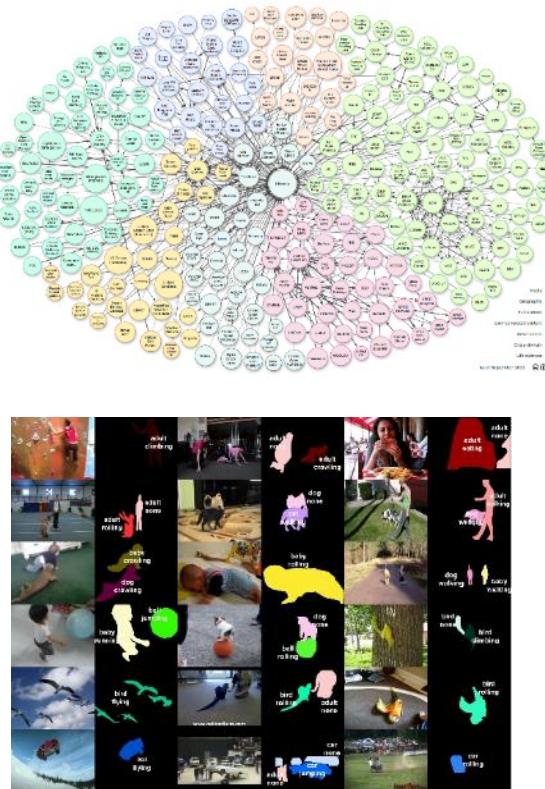


Adaptive learning,
 education and social
 environment

Odprta knjižnica izobraževalni virov



Automatic ingestion, cleaning,
fusion, preprocessing



Cross-lingual, cross-modal
Semantic processing

vi - 24ur.c... RTVSLO.si - Najboljši s...

OUR PRODUCTS

Solutions for all Needs

Powered by one content recommendation technology

TOP AUTHORS

- Walter H. G. Lewis, 517078 views
- Erik Demaine, 161742 views
- Gilbert Strang, 124173 views
- Charles E. Leiserson, 120220 views
- David Mackay, 104394 views
- Donald R. Sadsky, 89141 views
- Jure Leskovec, 58515 views
- Mikaela Keler, 72976 views
- Sam Roweis, 68891 views
- Arthur Mattuck, 61487 views
- Michael Berthold, 59461 views
- Christopher Bishop, 59390 views
- Ian Murray, 58225 views
- Geoffrey E. Hilton, 58553 views
- Marko Gradišek, 55370 views
- Zoubin Ghahramani, 51454 views
- Michael I. Jordan, 43699 views
- Yee Whye Teh, 43117 views

What Does QTI Do?

QTI End User Features & Benefits

- Interoperable: enables the exchange of a wide range of rich questions & tests.
- Accessible: supports accessible features to accommodate users with disabilities.
- Open: open format gives users full ownership of their test content.
- Formative: provides formative quizzes to support learning.
- Device Independent: transitions to digital assessments.

QTI

IMS GLOBAL Learning Consortium

Recommend
Show your content in a network of other sites
[LEARN MORE](#)
[TRY NOW](#)

Analytics
Understand the trends of your content usage
[LEARN MORE](#)
[TRY NOW](#)

Discovery
Search and find materials from all over the world
[LEARN MORE](#)
[TRY NOW](#)

Translate
Translate your content in every format
[LEARN MORE](#)
[TRY NOW](#)

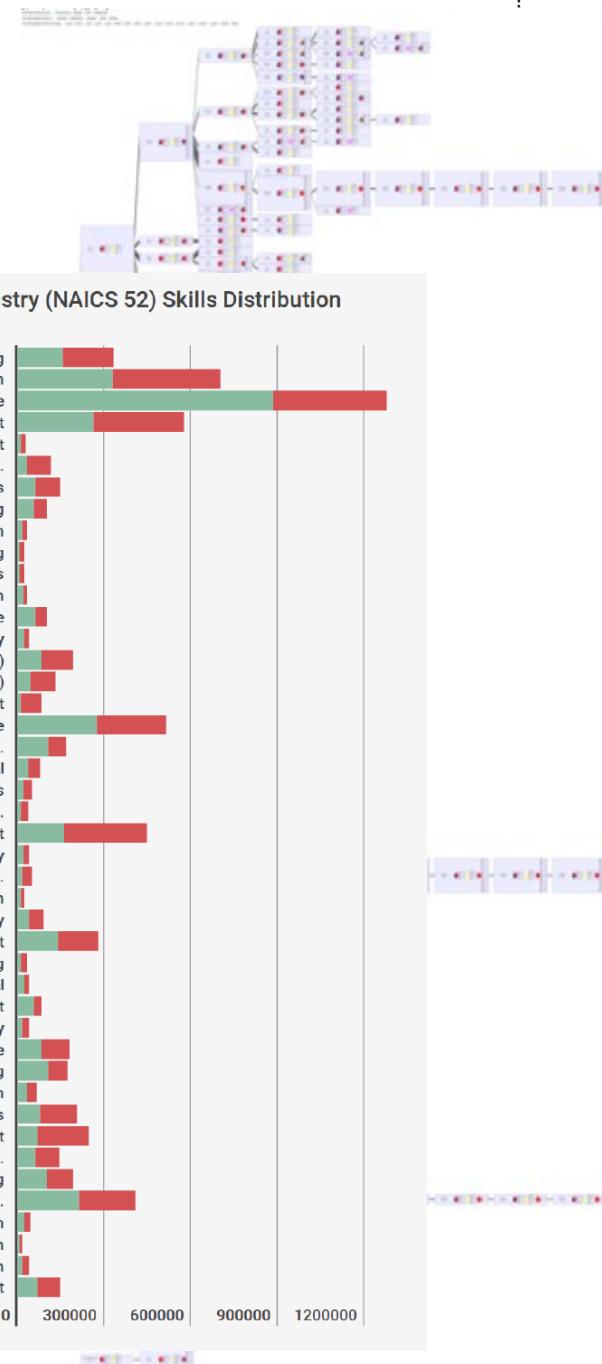
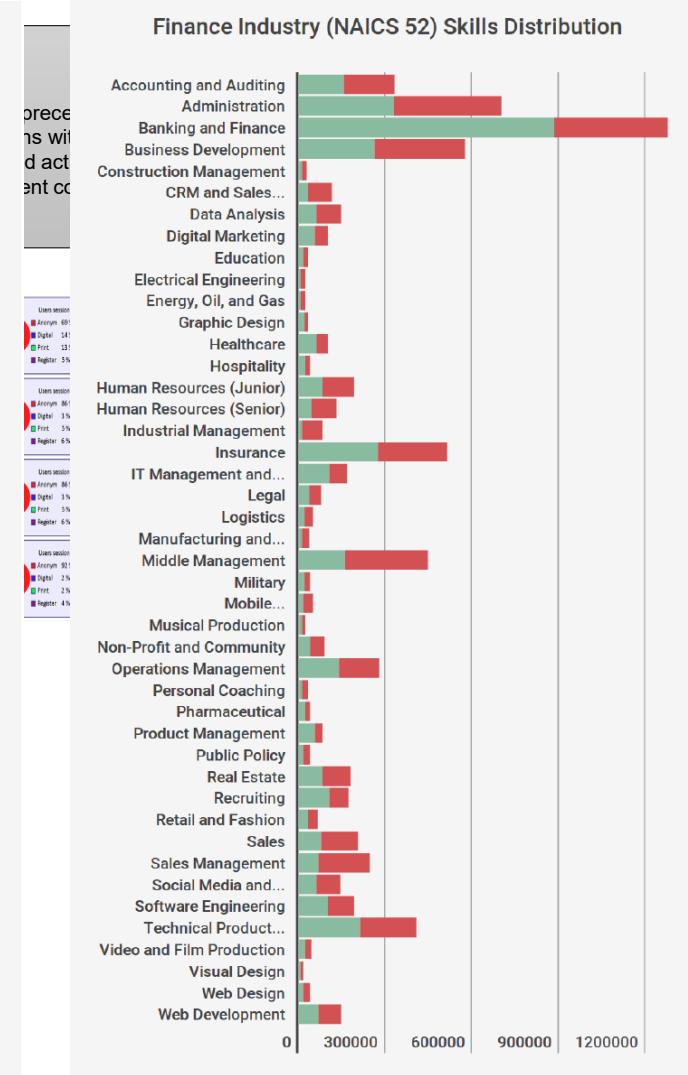
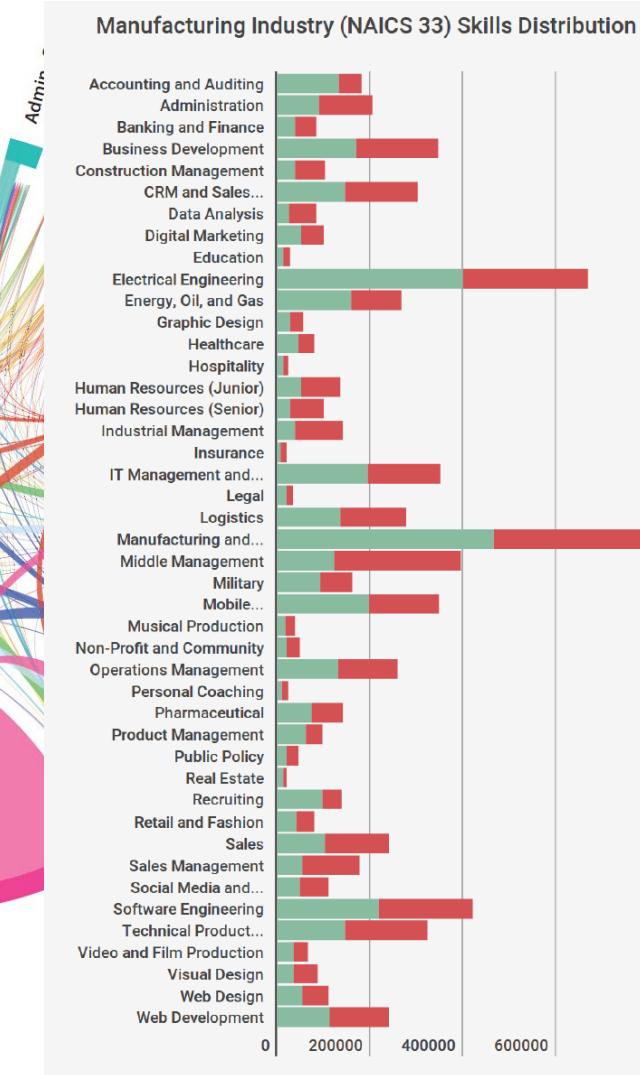
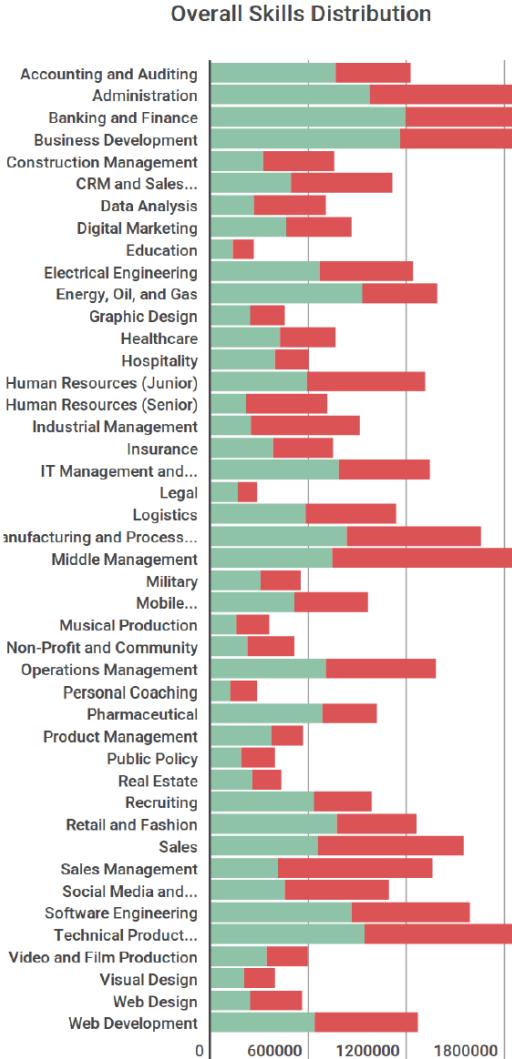
Connect
Connect users with OER sites in Moodle
[LEARN MORE](#)
[TRY NOW](#)

Feed
Provide data for all stakeholders via API
[LEARN MORE](#)
[TRY NOW](#)

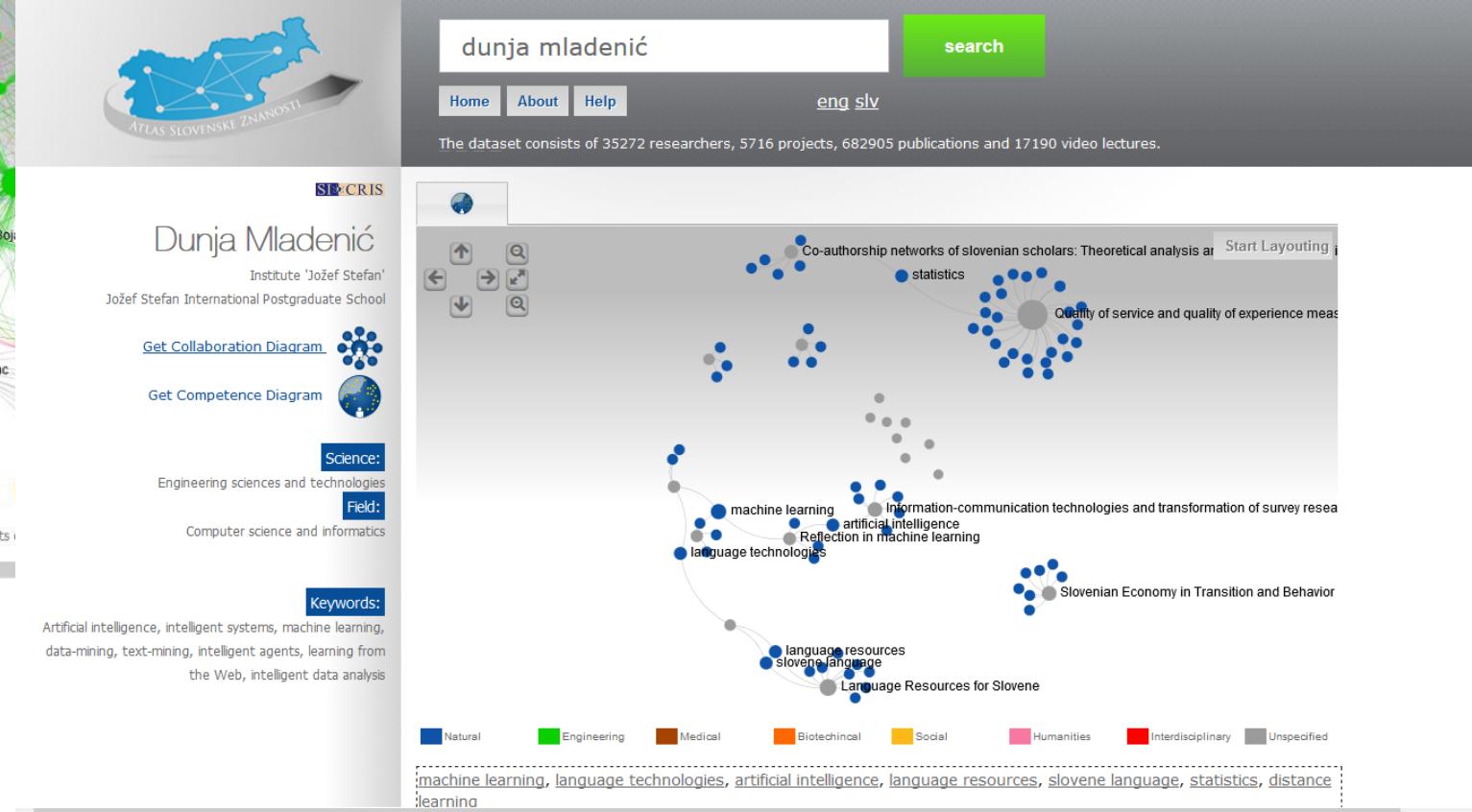
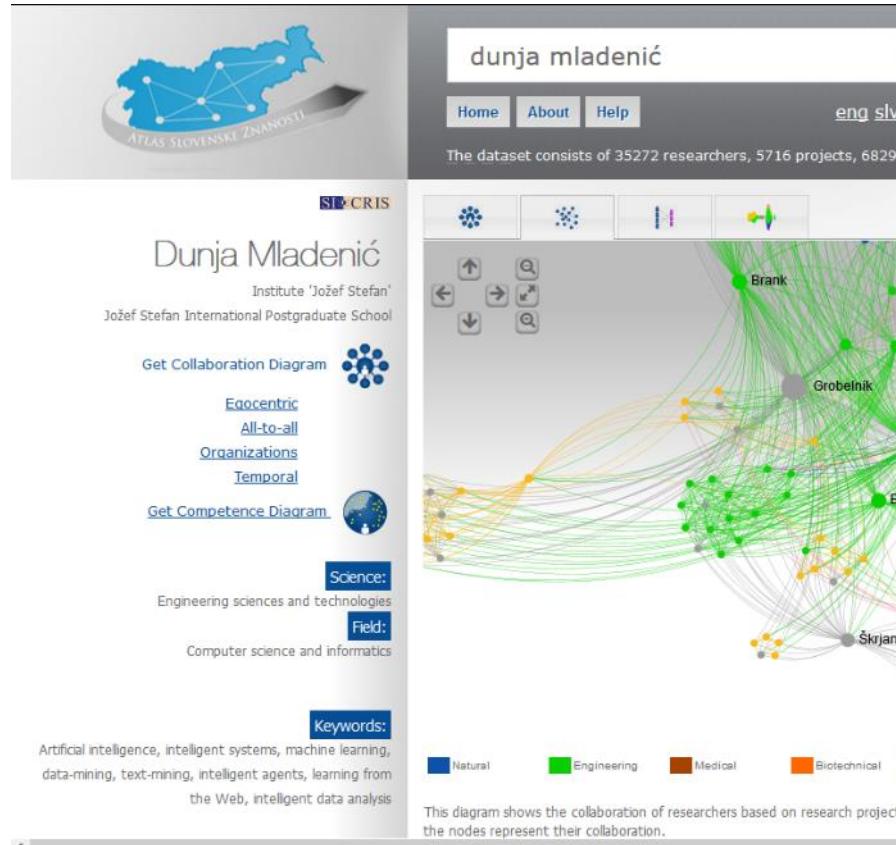
Windows Mail Firefox Microsoft Edge Powerpoint

Innovation

Modeliranje posameznikov



Izračunavanje kompetenc



Avtomatsko generiranje učnih poti

LEARNING PATHWAYS

The learning pathway is showing the courses that will give you the skills related to the query.

PERSONALIZE YOUR PATHWAY

Mathematics of computing

- Data Science Math Skills



Computing methodologies

- Data Scientist Basic



Big Data (Data Science) applications design

- Open Data Science



Business Process Management

- Process Mining: Data science in Action



EUROPEAN
 — DATA SCIENCE —
 ACADEMY



ONLINE COURSES

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Home » Courses » Learning pathways

Learning pathways

Data Analytics

[Data Science Engineering](#)

Data Management

[Business Process Management](#)

[All pathways »](#)

Latest courses

Fundamentals of Data Science (Non-Technical)

Data Science for Digital Marketing

Process Mining in Healthcare

Fundamentals of Machine Learning

[All courses »](#)

Data science learning pathways

Here you can find selected data science learning pathways that lead to certain data science roles and teach the essential skills associated with these roles. You can follow these learning pathways, track your progress, customise them and add your reflections.

Data Analytics

Use appropriate statistical techniques and predictive analytics on available data to deliver insights and discover new relations.

Data Science Engineering

Use engineering principles to research, design, develop and implement new instruments and applications for data collection, analysis and management.

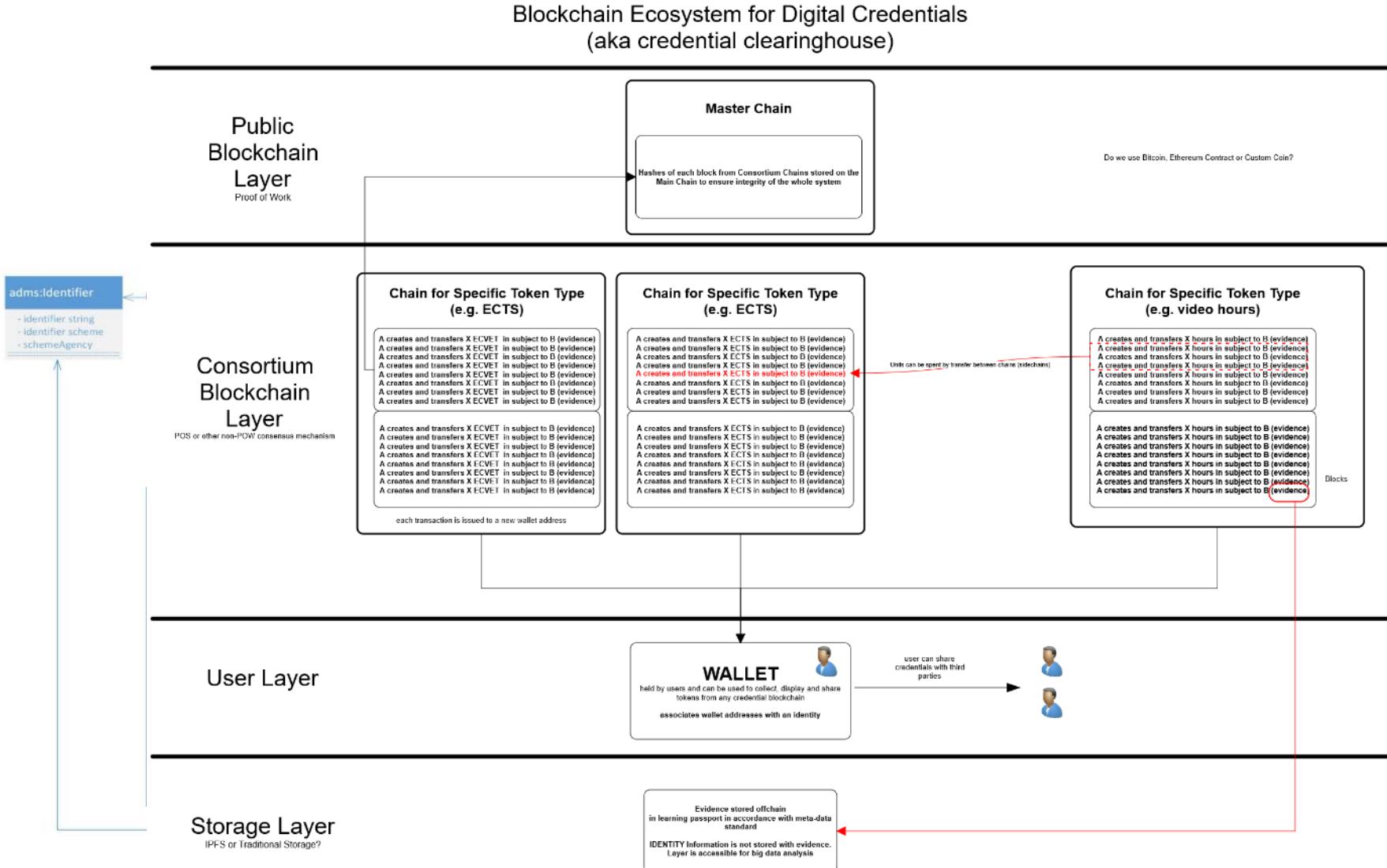
Data Management

Develop and implement a data management strategy for data collection, storage, preservation, and availability for further processing.

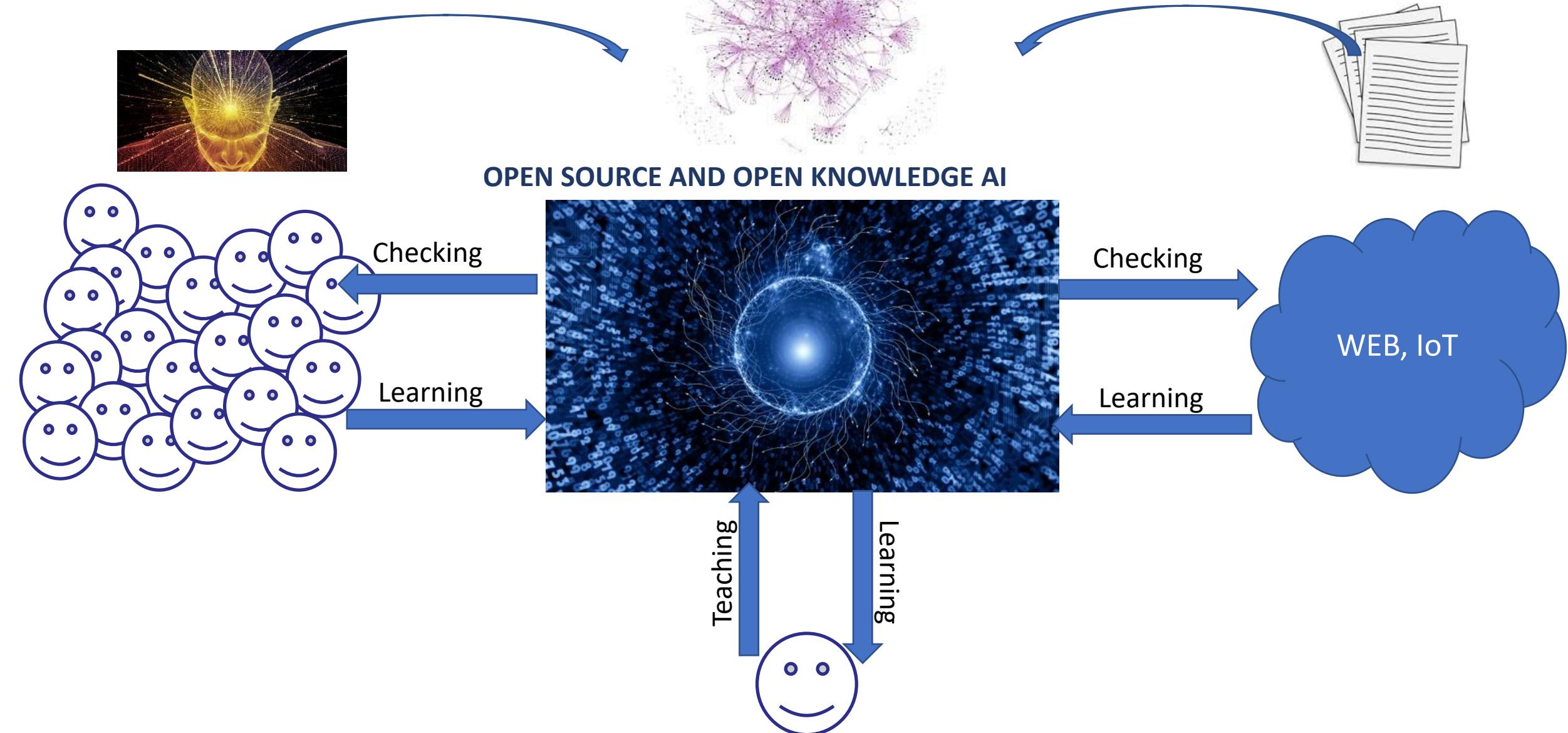
Business Process Management

Use data management and mining techniques in order to analyse and improve business processes.

Micro-credentials and Qualifications



UI asistent



Nekaj dodatnih informacij in povezav

- <http://unesco.ijs.si>, <http://ircrai.org>,
- <http://ailab.ijs.si>, <http://ct3.ijs.si>,
- <http://www.ouslovenia.net>
- <http://www.ung.si/en/study/school-of-engineering-and-management/study/2NVOI/>
- <https://platform.x5gon.org/join/>
- <http://eventregistry.org>, <http://newsfeed.ijs.si>
- <http://videolectures.net>, <http://opencast.org/matterhorn/>
- <http://searchpoint.ijs.si>, <http://scienceatlas.ijs.si>
- <http://qminer.ijs.si>
- mitja.jermol@ijs.si