



GEANT TF-EDU EDUCATION – COMMUNITY DISCUSSION LEARNING ANALYTICS IN CARNET

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CARNET
znanje povezuje

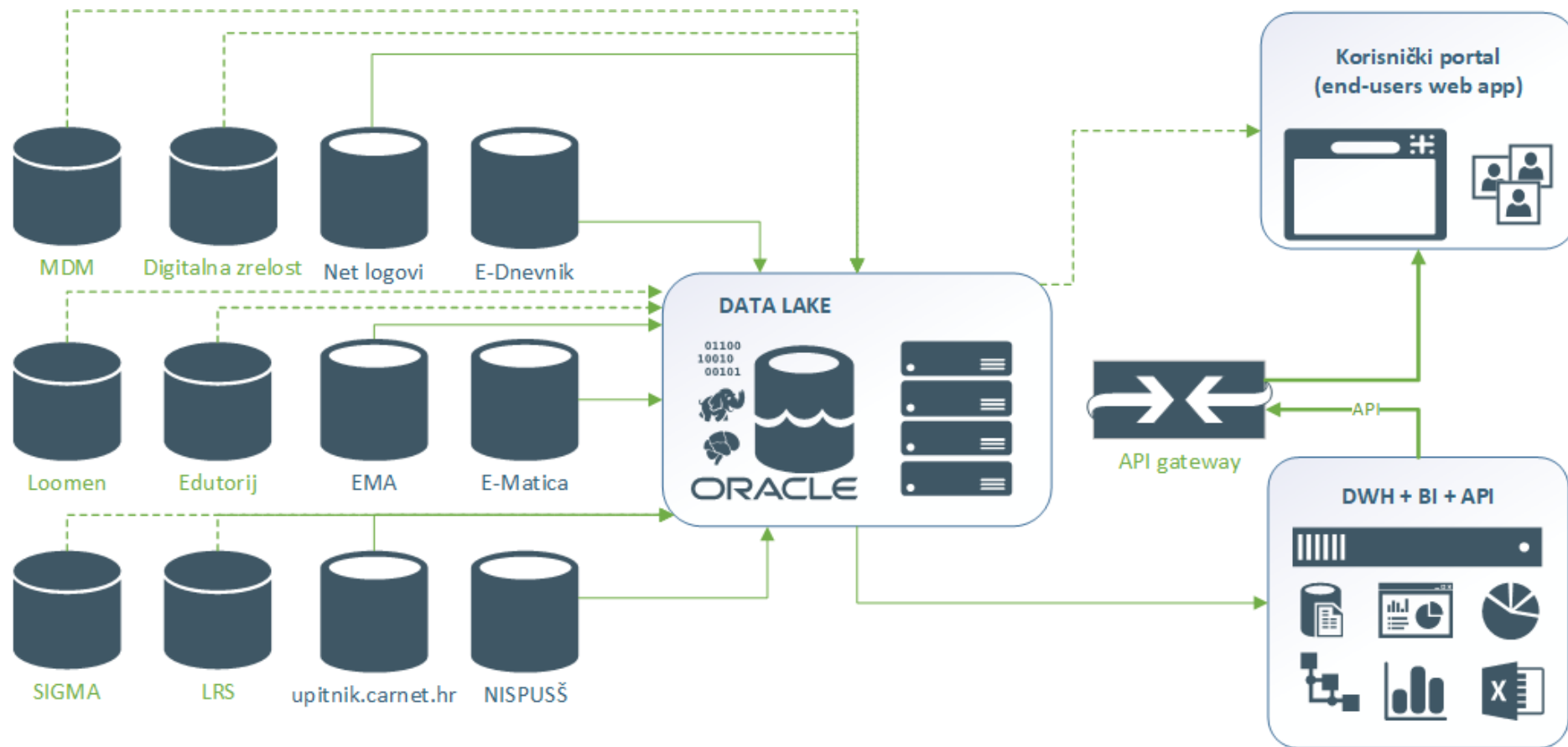
Agenda

- Motivation behind the LA in CARNET
- Short overview of LA in CARNET
- LA use cases
- Ethical dilemmas
- The way forward

Motivation behind the LA (delta)

- Developed within the e-Schools project in CARNET
- CARNET delta aims to improve, among others:
 - Informed decision making
 - Evidence based policies making
 - Overall learning outcomes
- Advantages: having digitalized data for all schools in Croatia
- Shortcomings: relying heavily on students' grades

LA architecture



Učitelji / [Ime]

Diplomirani profesor geografije
Razrednik: 3.C

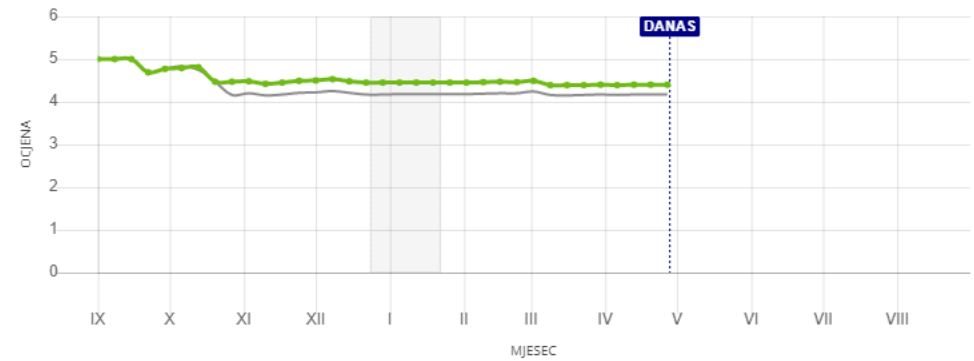
RAZREDI

- ▶ 3.A
- ▶ 3.C (razrednik)
- ▶ 3.D
- ▶ 3.E

SATNICA

- GEO (2)
- SR (1)

Analiza uspjeha Geografija (3. razredi kojima predaje)



796 OPRAVDANI IZOSTANCI:	5 NEOPRAVDANI IZOSTANCI:	801 UKUPNO IZOSTANCI:
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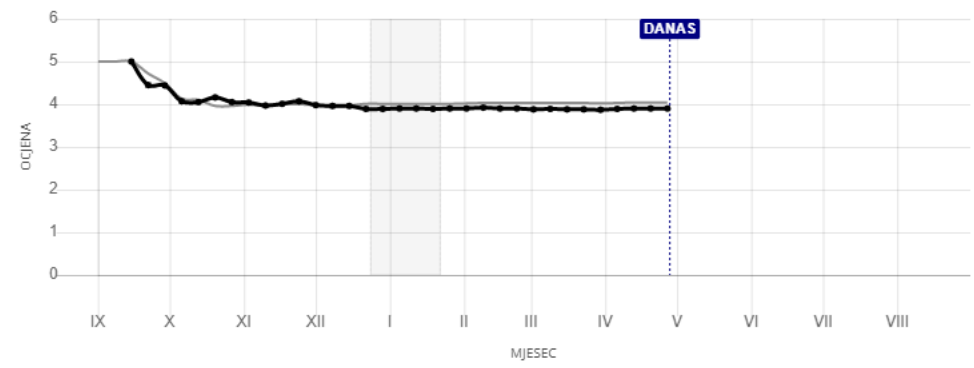
3. Razredi

Svi predmeti Geografija Sat razrednika



Analiza uspjeha

Svi predmeti (3.C)



3184 OPRAVDANI IZOSTANCI:	48 NEOPRAVDANI IZOSTANCI:	3232 UKUPNO IZOSTANCI:
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- Svi predmeti
- Kemija
- Etika
- Vjeronauk
- Psihologija
- Astronomija
- Glazbena umjetnost
- Fizika
- Biologija
- Informatika
- Glazbena radionica
- Filmska umjetnost
- Matematika
- Hrvatski jezik
- Logika
- Sociologija
- Geografija
- Likovna umjetnost
- Povijest
- Tjelesna i zdravstvena kultura
- Njemački jezik
- Engleski jezik



Razredi / 3.C /

IZOSTANCI

28	0	28
OPRAVDANI:	NEOPRAVDANI:	UKUPNO:



UKUPAN PROSJEK

PREDMETI



GLAZBENA UMJETNOST ▶



ETIKA (IZBORNI) ▶



GEOGRAFIJA ▶



TJELESNA I ZDRAVSTVE... ▶



ENGLISKI JEZIK ▶



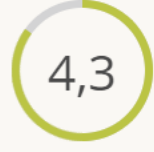
POVIJEST ▶



SOCIOLOGIJA ▶



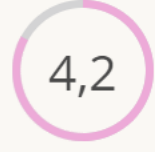
PSIHOLOGIJA ▶



BIOLOGIJA ▶



LIKOVNA UMJETNOST ▶



LOGIKA ▶



HRVATSKI JEZIK ▶



MATEMATIKA ▶



FIZIKA ▶



NJEMAČKI JEZIK ▶



KEMIJA ▶



MATEMATIKA ▶



FIZIKA ▶



NJEMAČKI JEZIK ▶

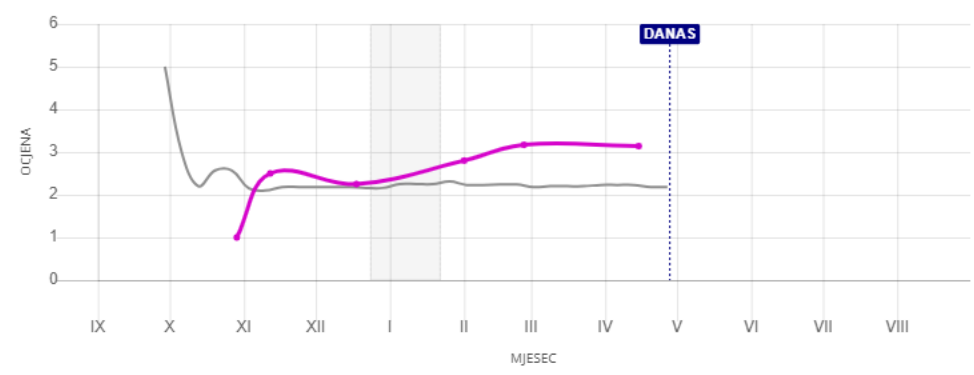


KEMIJA ▶

Analiza uspjeha Fizika



0 OPRAVDANI IZOSTANCI:	0 NEOPRAVDANI IZOSTANCI:	0 UKUPNO IZOSTANCI:
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- Svi predmeti
- Hrvatski jezik
- Engleski jezik
- Njemački jezik
- Glazbena umjetnost
- Likovna umjetnost
- Psihologija
- Logika
- Sociologija
- Povijest
- Geografija
- Matematika
- Fizika
- Kemija
- Biologija
- Tjelesna i zdravstvena kultura
- Etika
- Sat razrednika

LA use cases

- Successful teachers – those teachers whose students successfully enrolled in secondary school or faculty of their first choice*
- Questions:
 - **How many students enroll in secondary school or faculty of their first choice?**
 - **Who are the teachers of those successful students?**
 - **Which training courses successful teachers take?**

LA use cases II

- Identifying: the number of students
- In: school class, school generation, school year, school, city, county, country, enrolled program, various groups (optional course,...), with certain success
- Identifying: the number of teachers
- In: school class, school generation, school year, school, city, county, country, enrolled program, success based on students' grades

LA use cases III

- Identifying: the classroom equipment (number of computers, number of sports halls, number of specialized classrooms for conducting the experiments)
- In: school class, school generation, school year, school, city, county, country, enrolled program...

Ethical and pedagogical aspects of LA

- In order to ensure the use of LA in education with pedagogical justification and according to the highest ethical standards having in mind students' welfare as the highest priority, we formed/developed
 - Committee for ethical and pedagogical dilemmas in LA
 - Guidelines for using LA in education
 - Guidelines for available data use, interpretation and representation

Way forward

- Inclusion of new data sources in data lake
- Education for all stakeholders on using CARNET delta
- Engagement of more schools
- Further development of the ethical and pedagogical guidelines
- Cooperation with project partners
(Ministry of Science and Education, educational agencies and institutions)
- Cooperation with scientific and research community

Thank you for your attention!

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