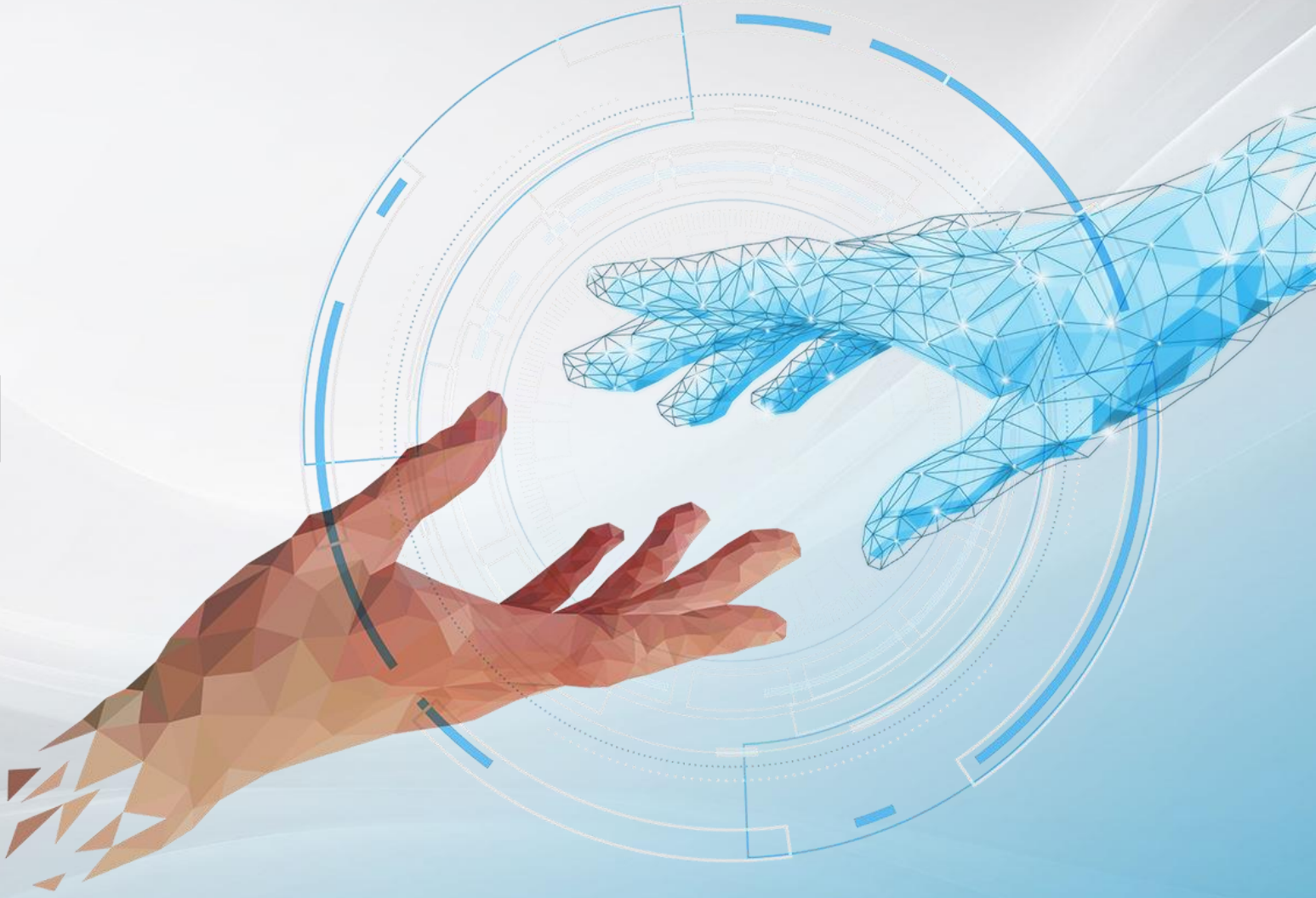
PANTHEON 25 YEARS ANNIVERSARY

PANTHEON CONFERENCE 2022

INTERNATIONAL CONFERENCE 2022

PANTHEON HANDS-ON



WHEN

SEPTEMBER 29–30, 2022

WHERE

GRAND HOTEL ADRIATIC, OPATIJA, CROATIA

PANTHEON 25 YEARS ANNIVERSARY 25

PANTHEON CONFERENCE 2022

INTERNATIONAL CONFERENCE 2022

KEYNOTE

25. let razvoja PANTHEON-a ter Datalab-a

Andrej Mertelj ter Mateja Cejan,
Datalab Tehnologije d.d.

PANTHEON HANDS-ON

Z nami že 25. let

PANTHEON CONFERENCE 2022

N-21 d.o.o.

Xenon Forted.o.o.

CHIPY d.o.o.

Cps d.o.o.

Dar d.o.o.

Donar d.o.o.

Maitim d.o.o.

Mobicom d.o.o.

MSP, Miha Kerže s.p.

Ustanovitev podjetja Datalab

TOMAŽ & ANDREJ

Logotip

PANTHEON CONFERENCE 2022

DATALAB

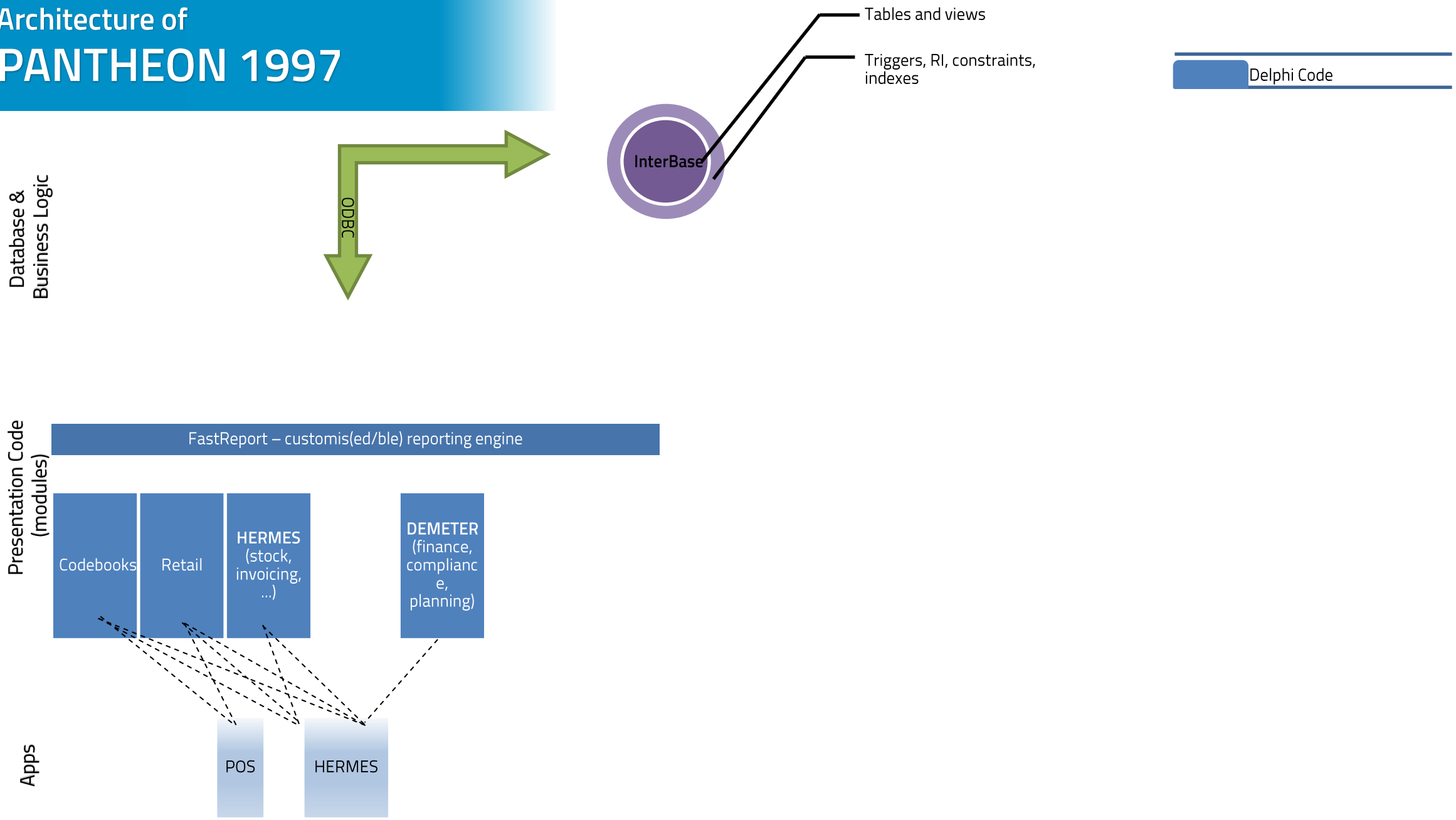
Spreminjamo podatke v dobiček!

Zametek PANTHEON-a - HERMES

DATALAB

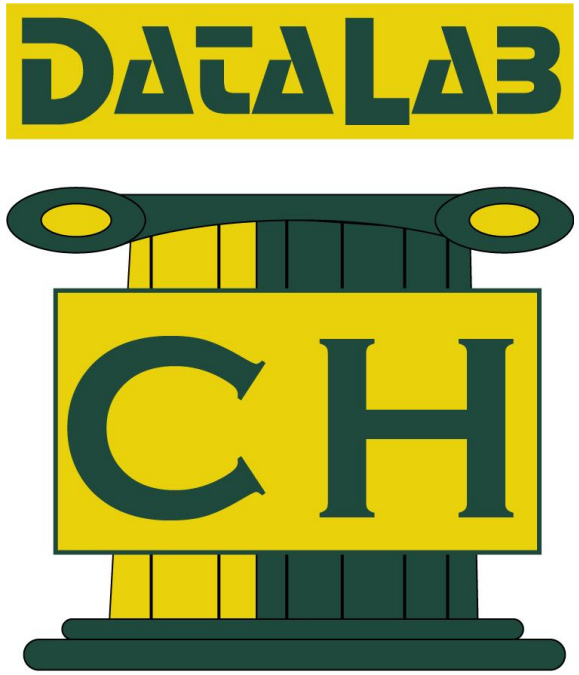
HERMES

Architecture of PANTHEON 1997

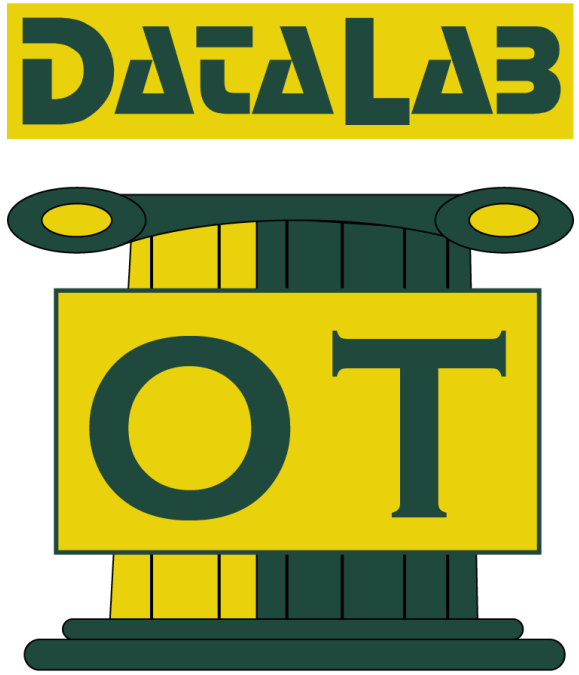


Hera, Chronos, OTOS

HERA

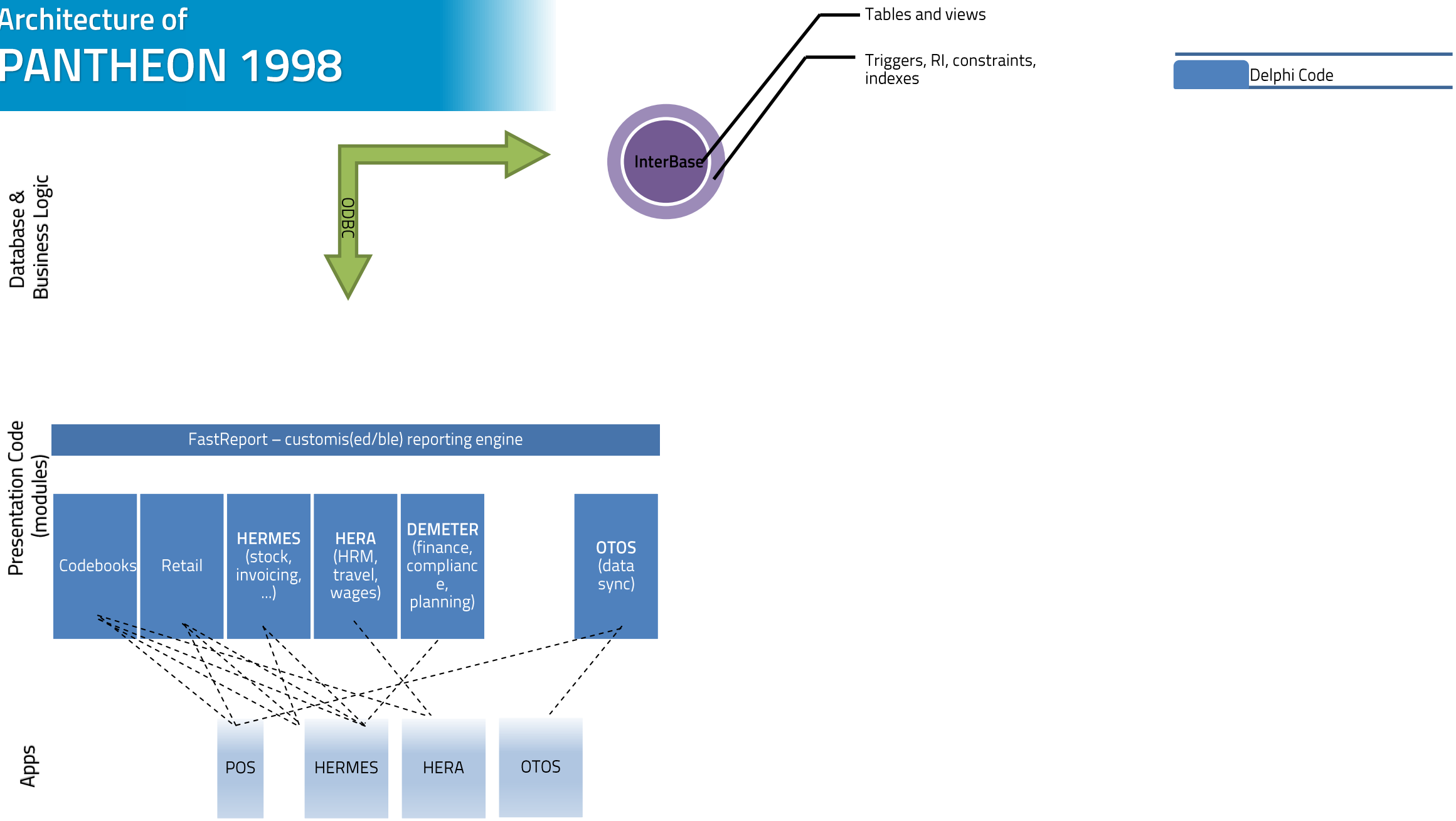


CHRONOS



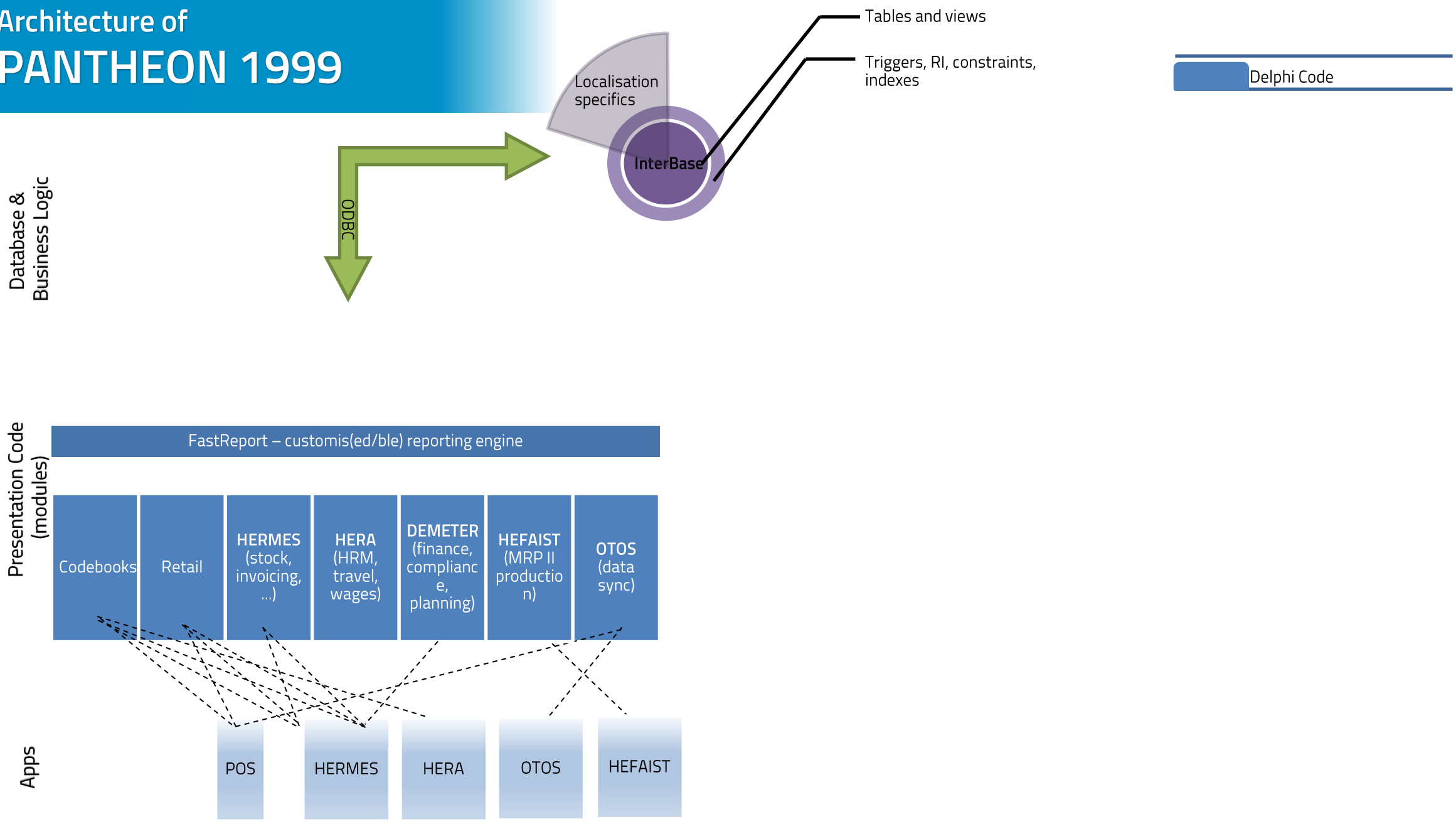
OTOS

Architecture of PANTHEON 1998



Hefaist, Atena

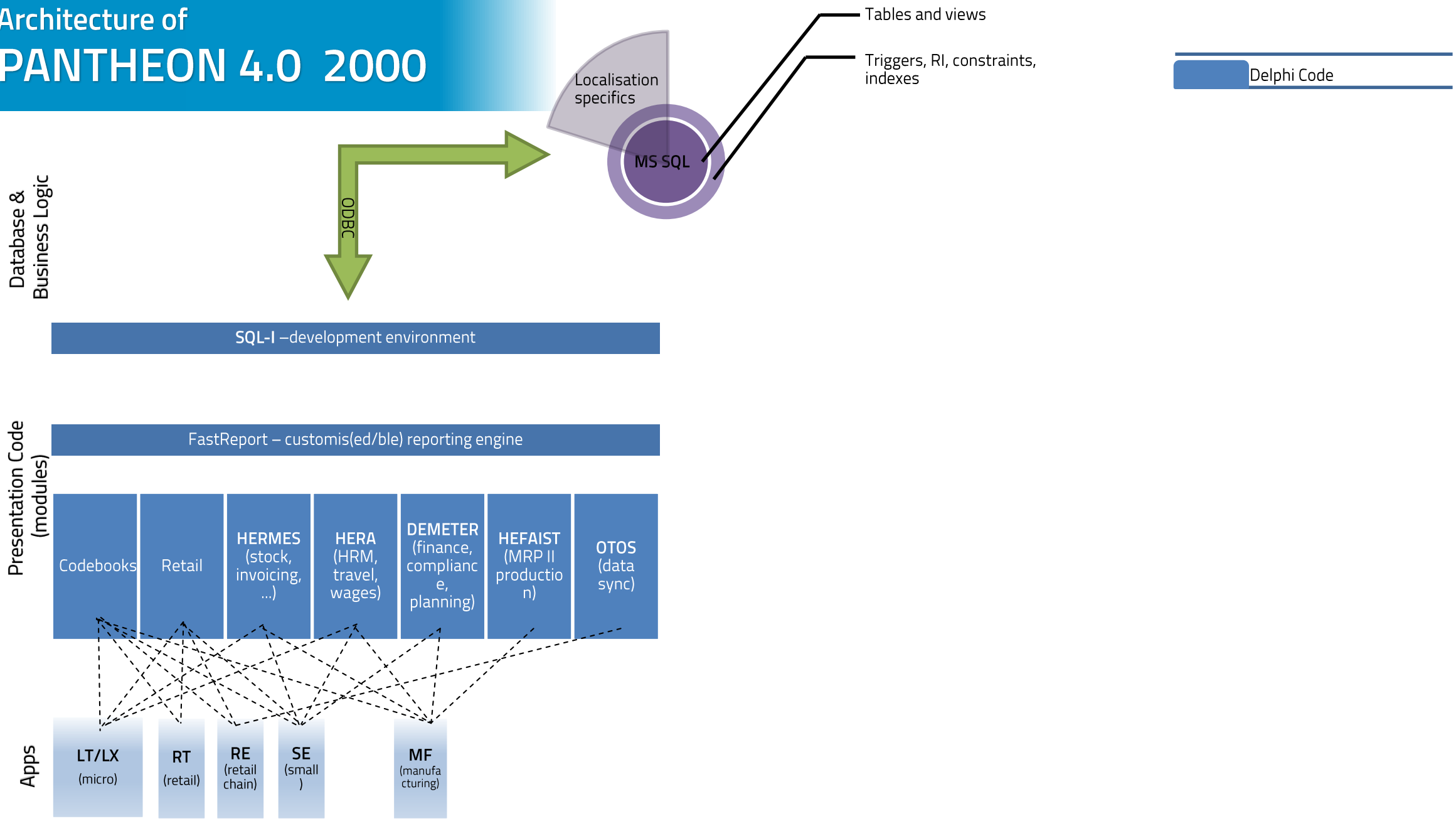
Architecture of PANTHEON 1999



PANTHEON 4.0

PANTHEON CONFERENCE 2022

Architecture of PANTHEON 4.0 2000



Ustanovitev partnerske mreže

PANTHEON CONFERENCE 2022

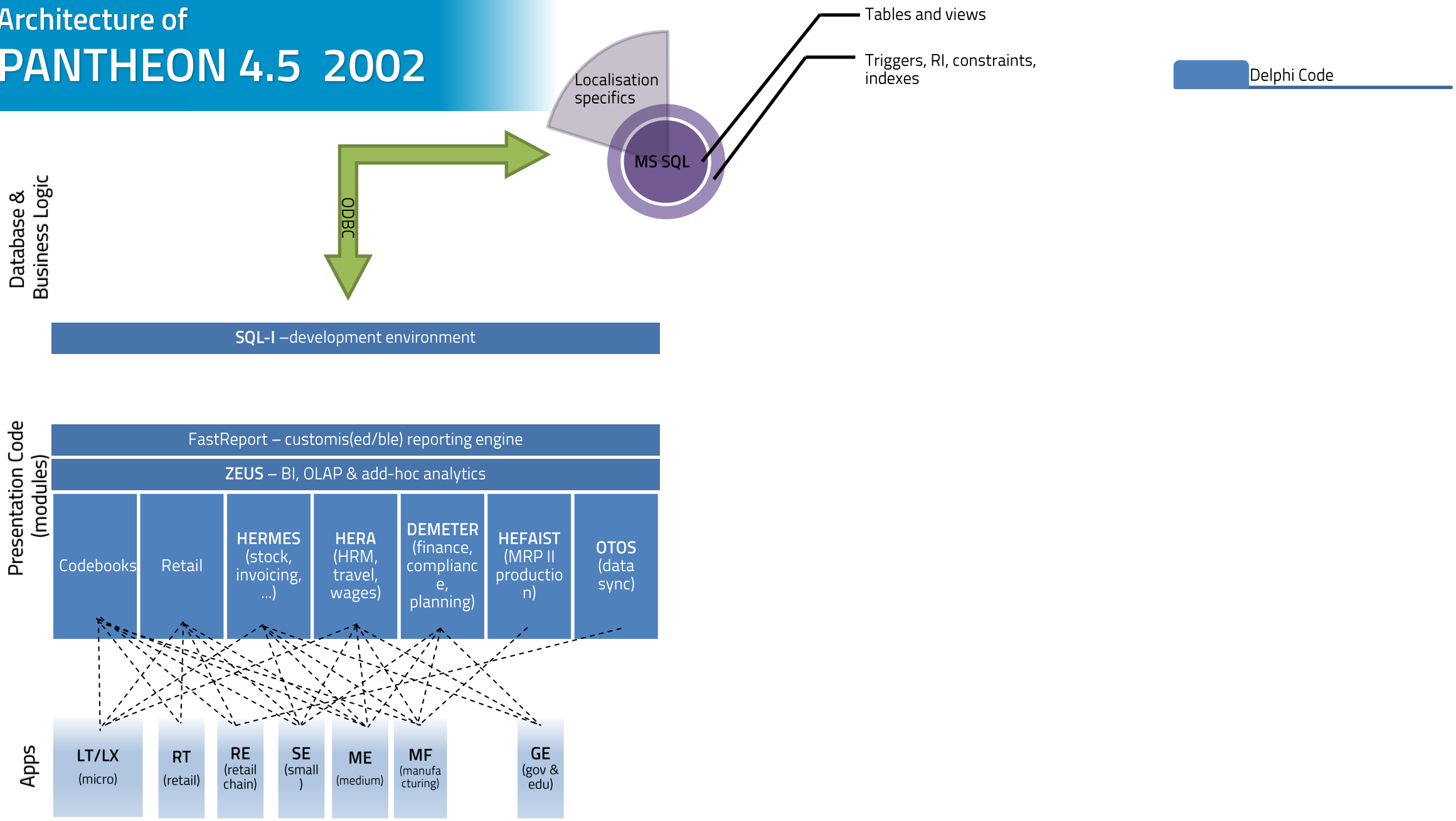
NetLab

JAMADA

e-pos group
INFORMACIJSKE TEHNOLOGIJE d.o.o.

DATALAB
Spreminjamo podatke v dobiček!

Architecture of PANTHEON 4.5 2002

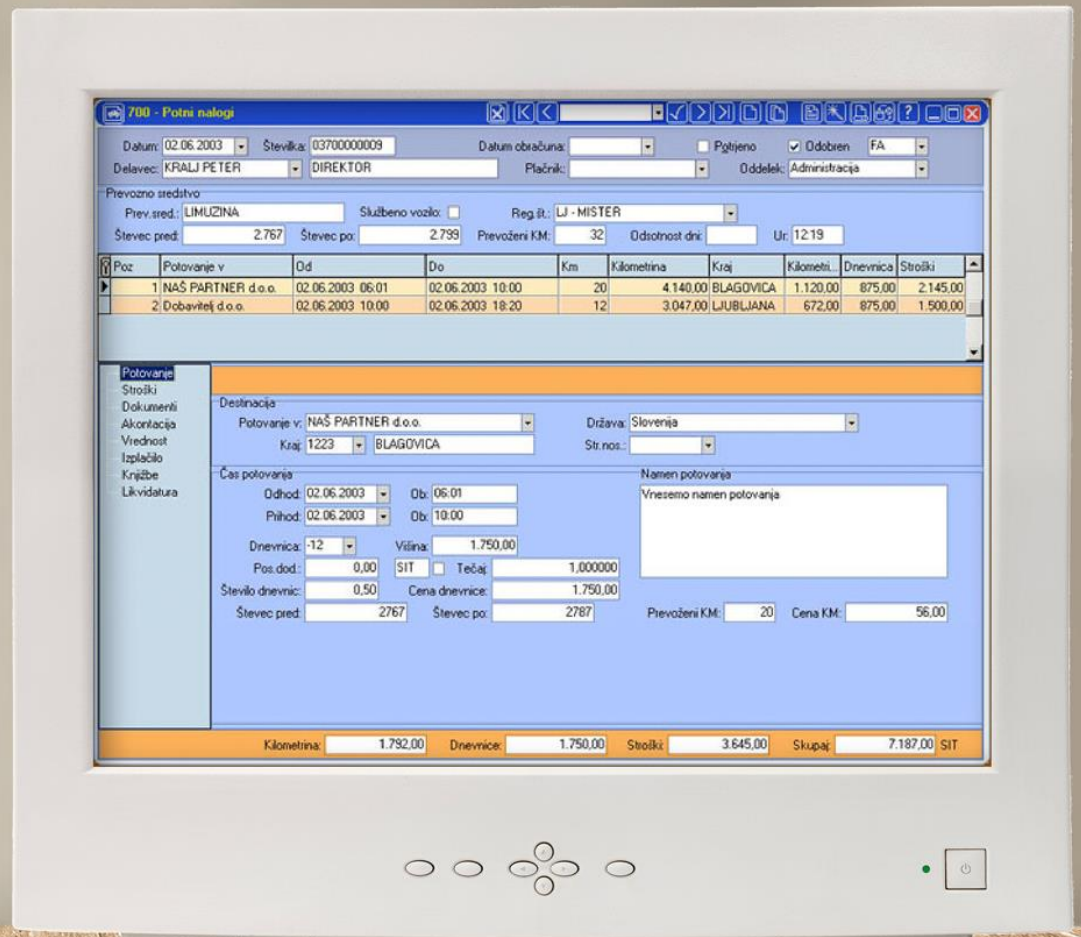


PANTHEON 4.5

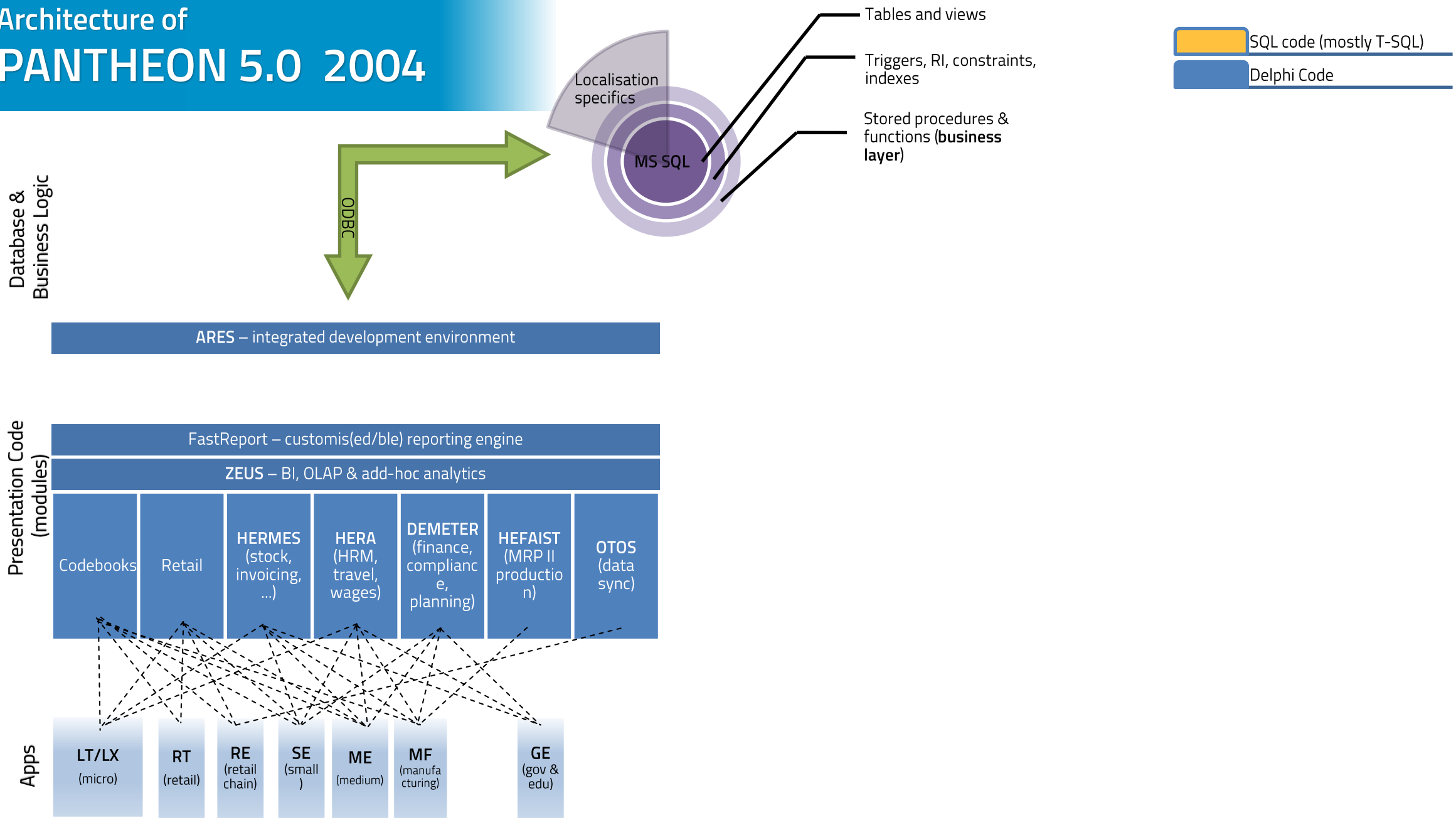
PANTHEON
CONFERENCE 2022

PANTHEON 5.0

PANTHEON CONFERENCE 2022



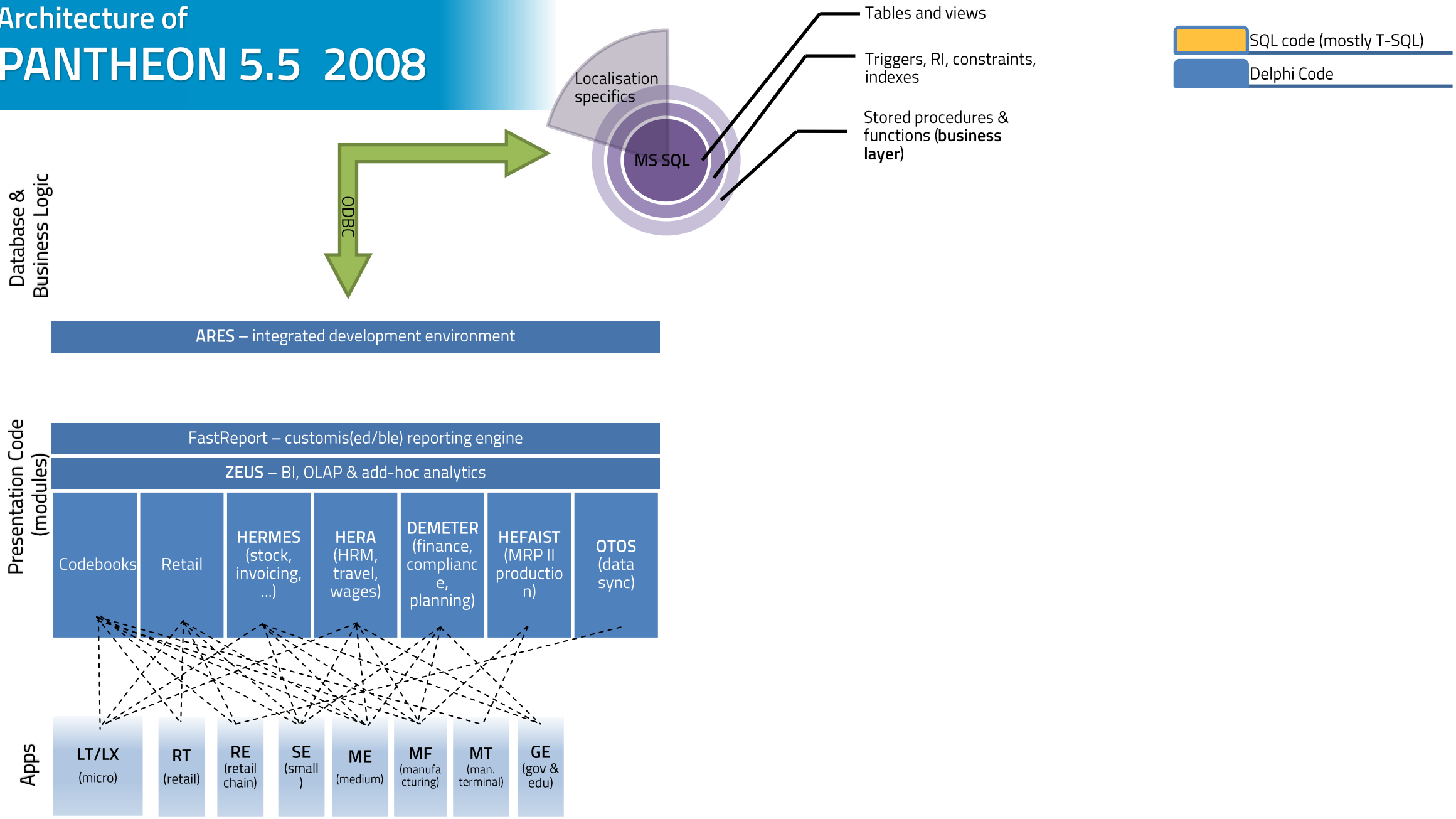
Architecture of PANTHEON 5.0 2004



PANTHEON 5.5

PANTHEON CONFERENCE 2022

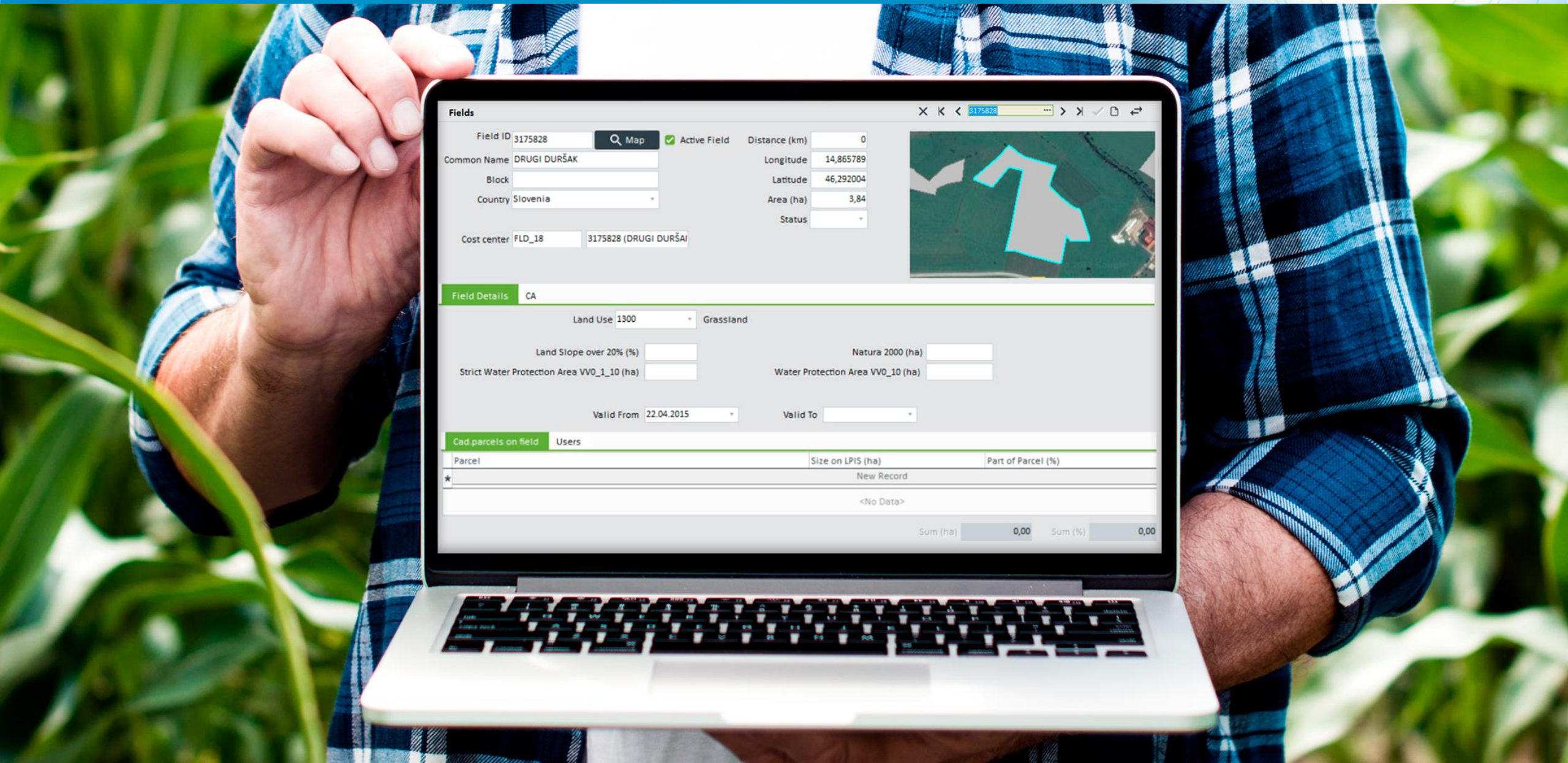
Architecture of PANTHEON 5.5 2008



Kotiranje na borzi

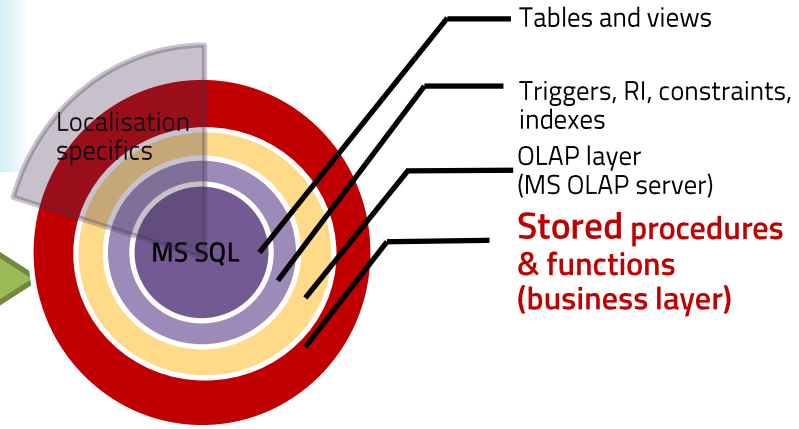
PANTHEON Farming

PANTHEON CONFERENCE 2022



PANTHEON 5.5 (Cloud) 2013

PANTHEON Cloud with business logic in DB



ODBC

ARES – integrated development environment

FastReport – customis(ed/ble) reporting engine

ZEUS – BI, OLAP & add-hoc analytics

Codebooks	Retail	**HERMES** (stock, invoicing, ...)	**HERA** (HRM, travel, wages)	**DEMETER** (finance, compliance, planning)	**HEFAIST** (MRP II production)	**OTOS** (data sync)

LT/LX (micro)	**RT** (retail)	**RE** (retail chain)	**SE** (small)	**ME** (medium)	**MF** (manufacturing)	**MT** (man. terminal)	**GE** (gov & edu)

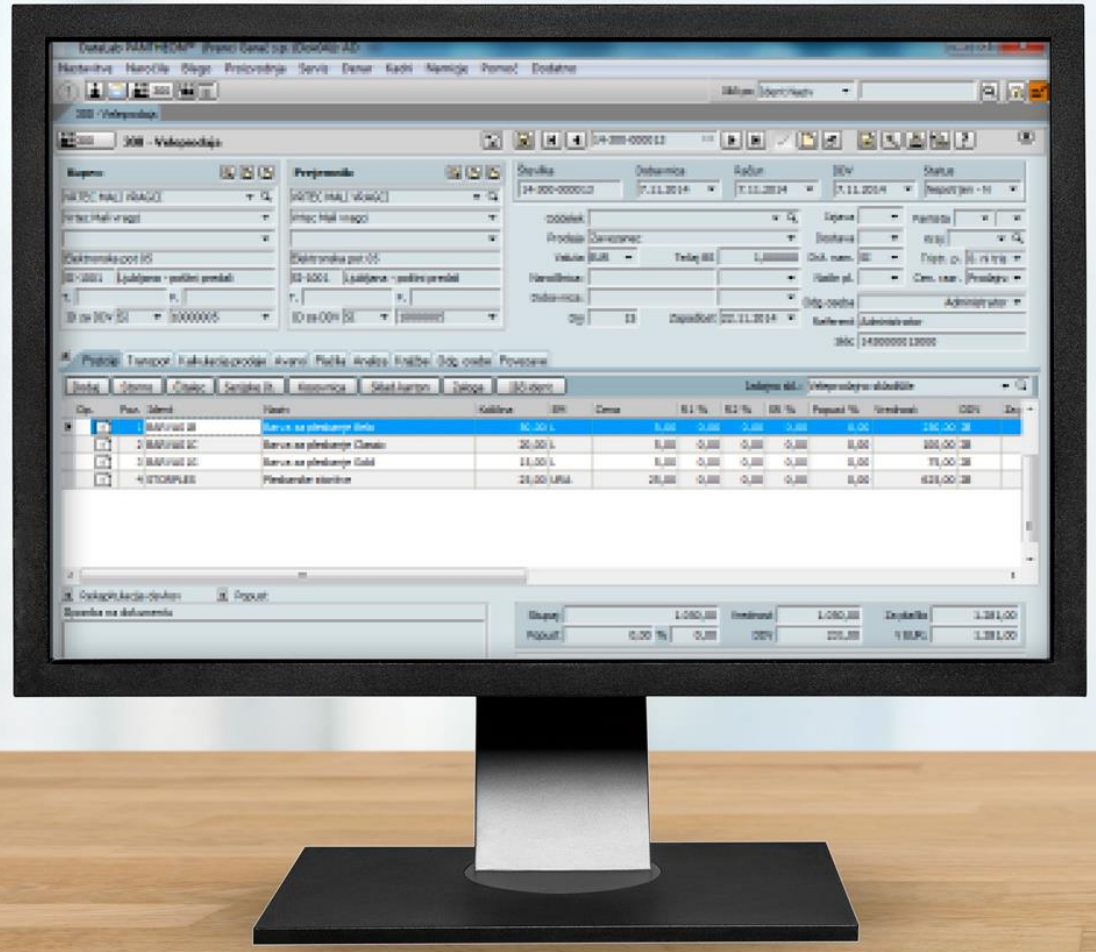
Telekom Slovenija & Datalab AG, Švica

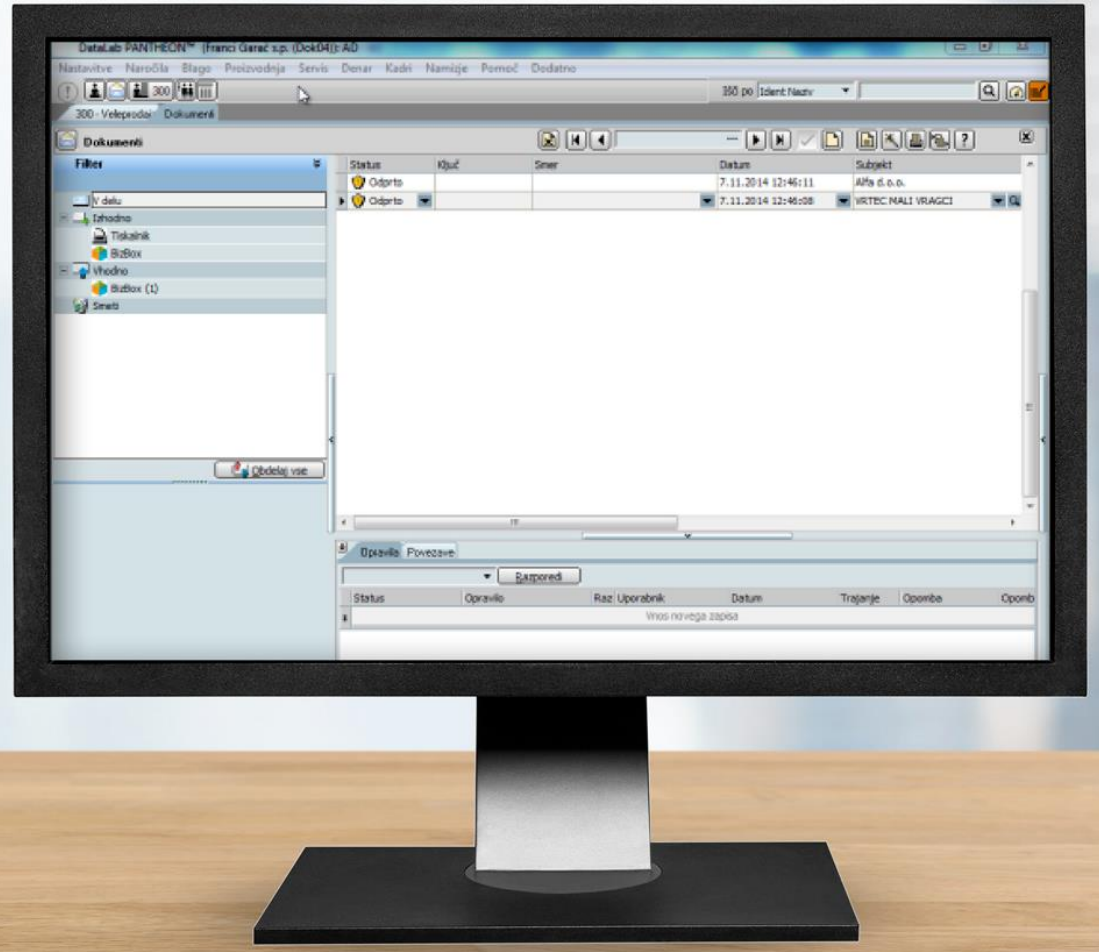
TelekomSlovenije

datalab agro

eRačuni

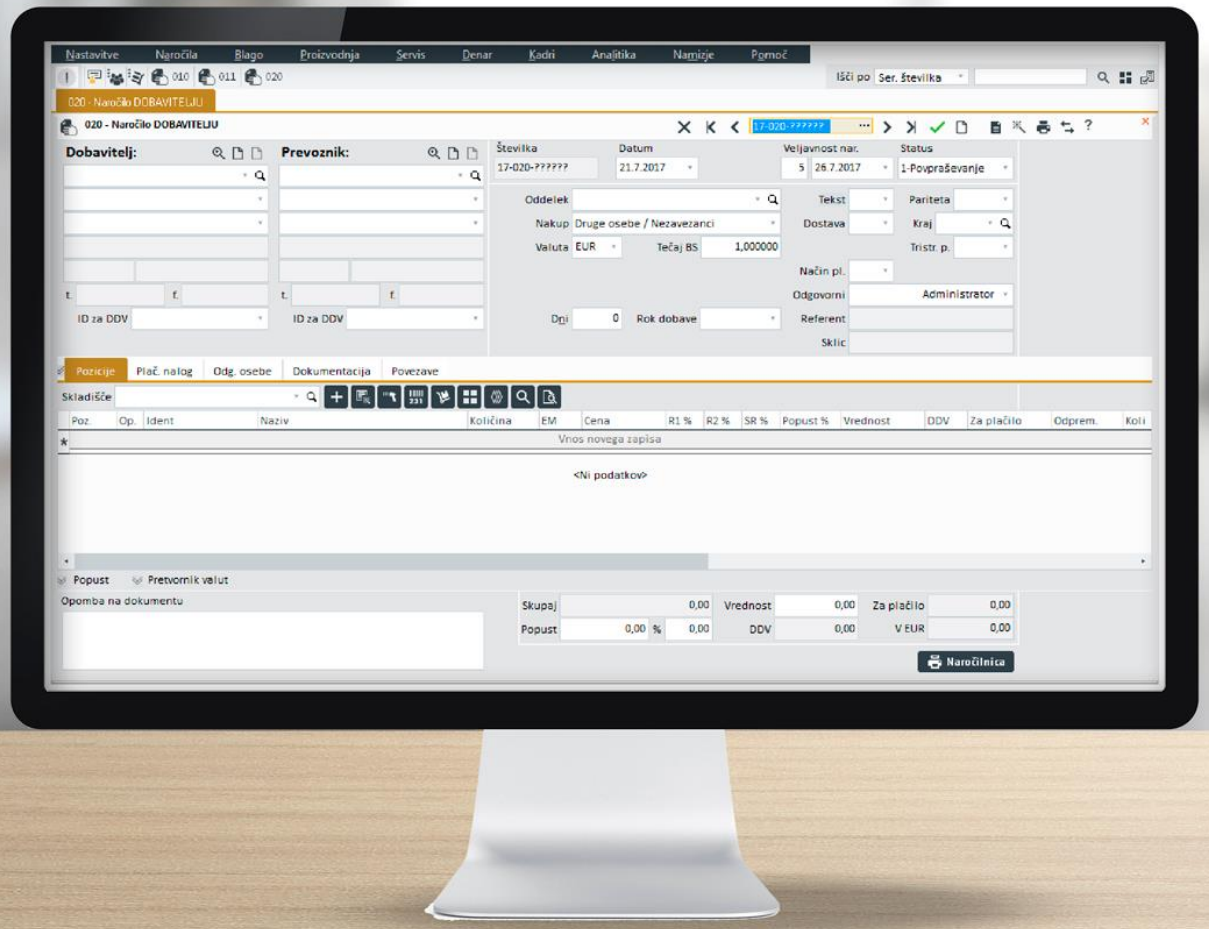
PANTHEON CONFERENCE 2022

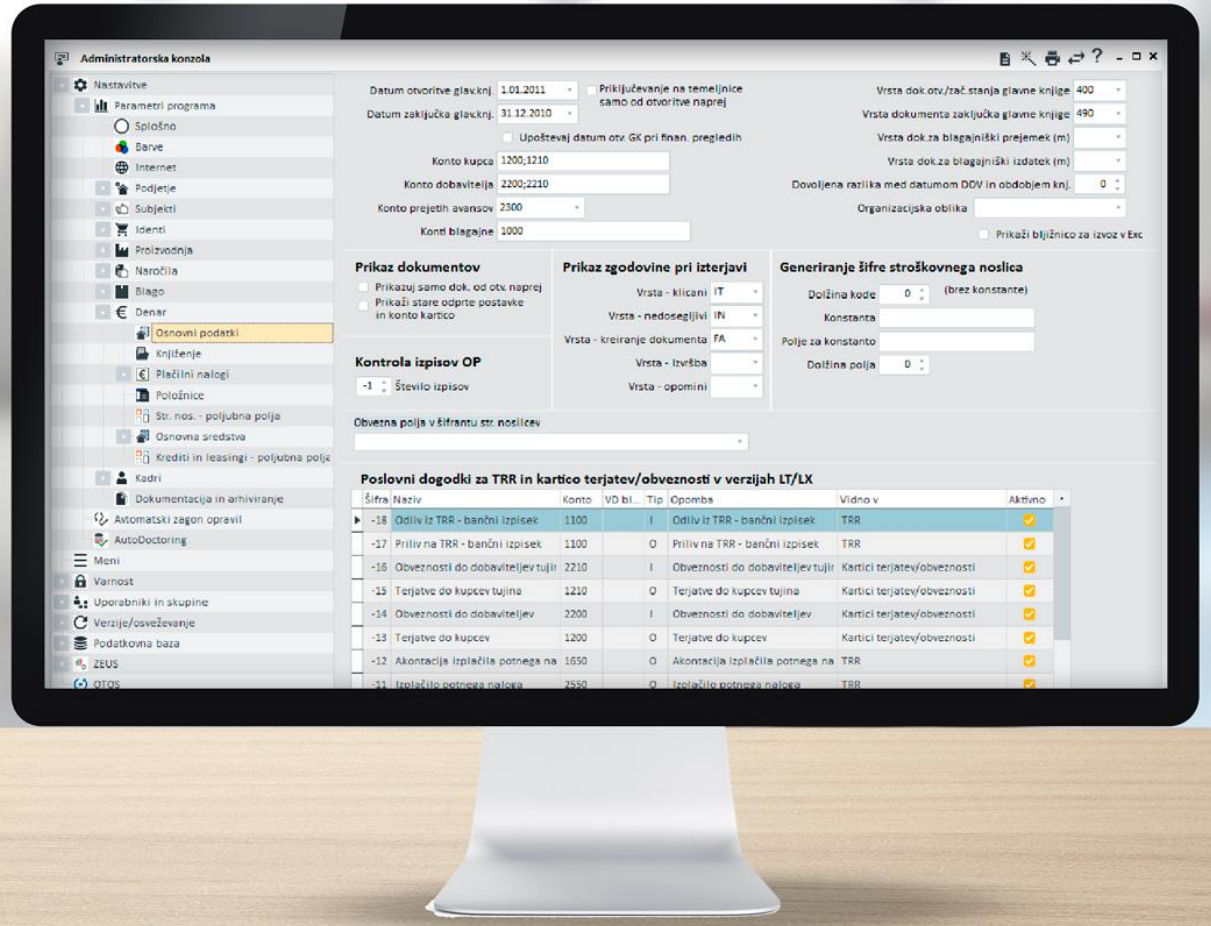




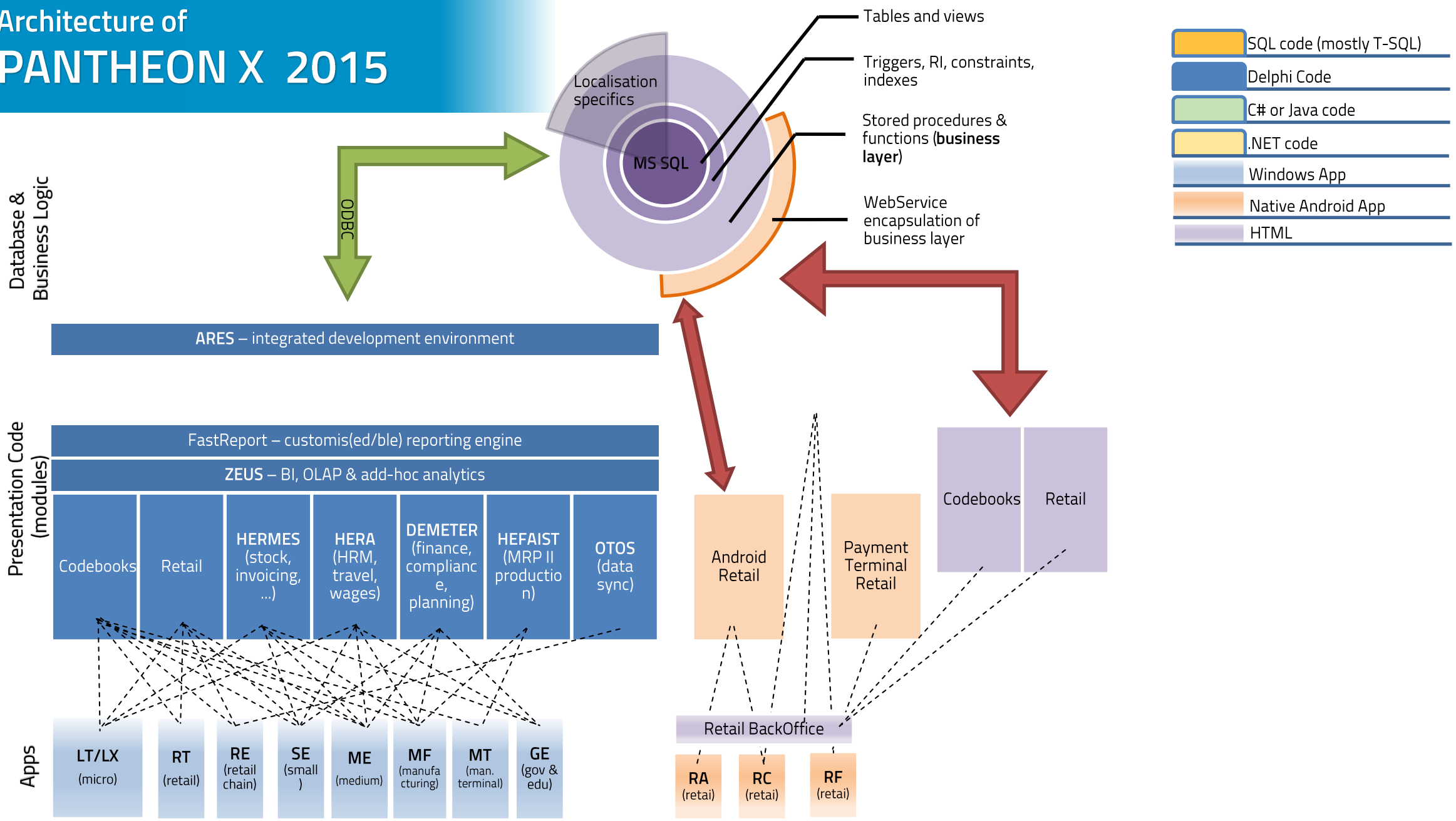
PANTHEON X

PANTHEON CONFERENCE 2022



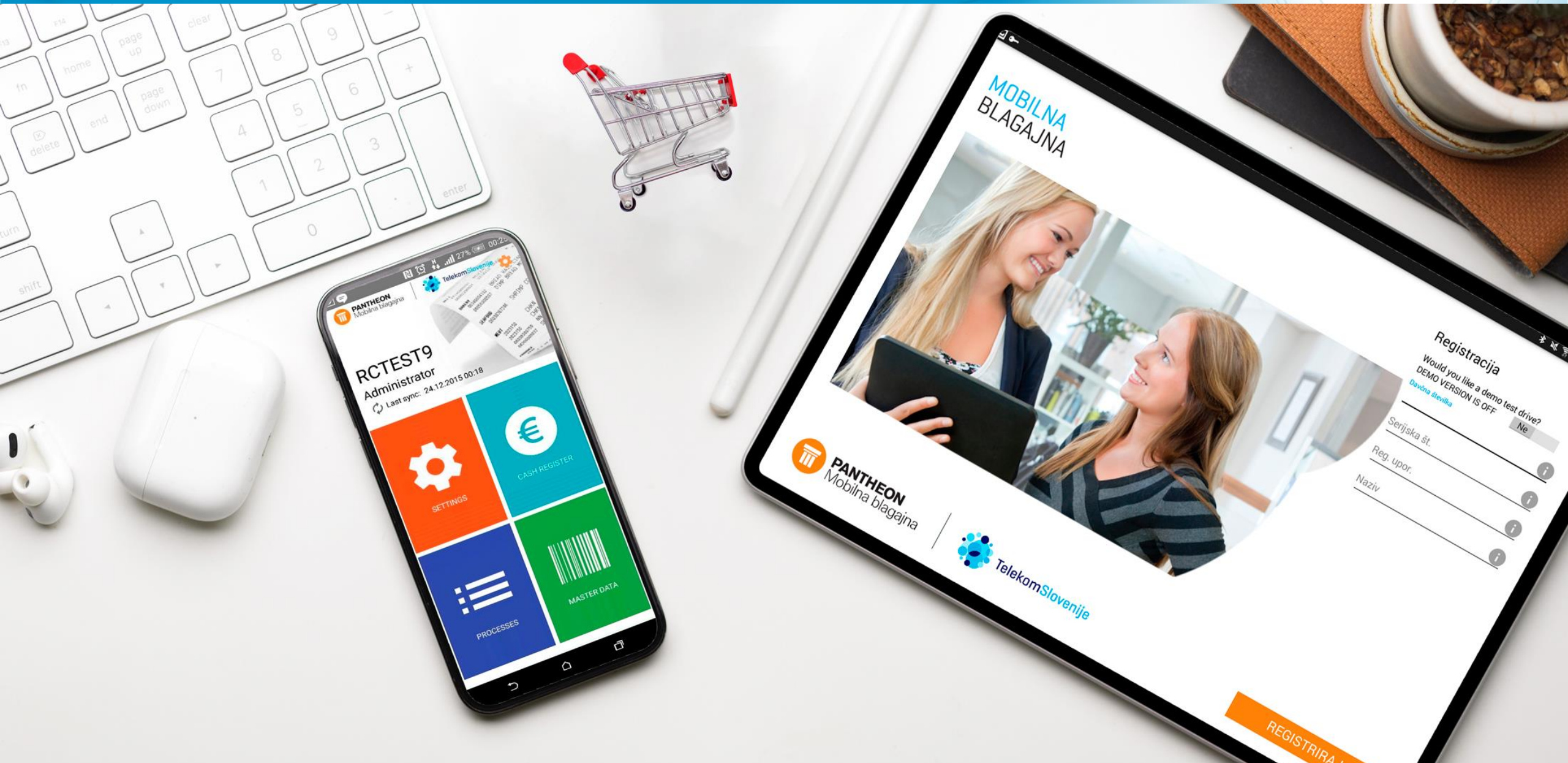


Architecture of PANTHEON X 2015



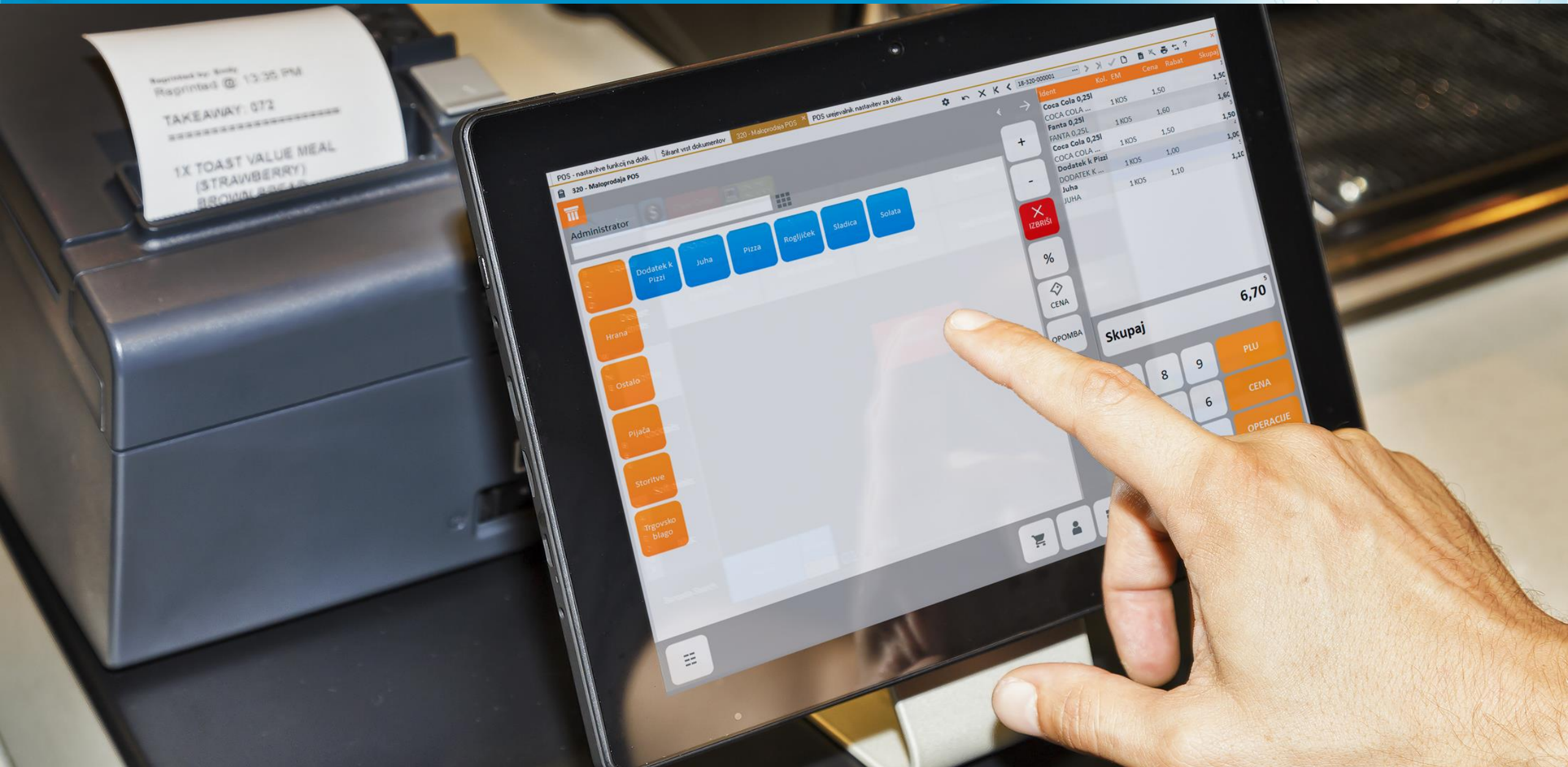
PANTHEON RA/RC

PANTHEON CONFERENCE 2022



PANTHEON POSX

PANTHEON CONFERENCE 2022



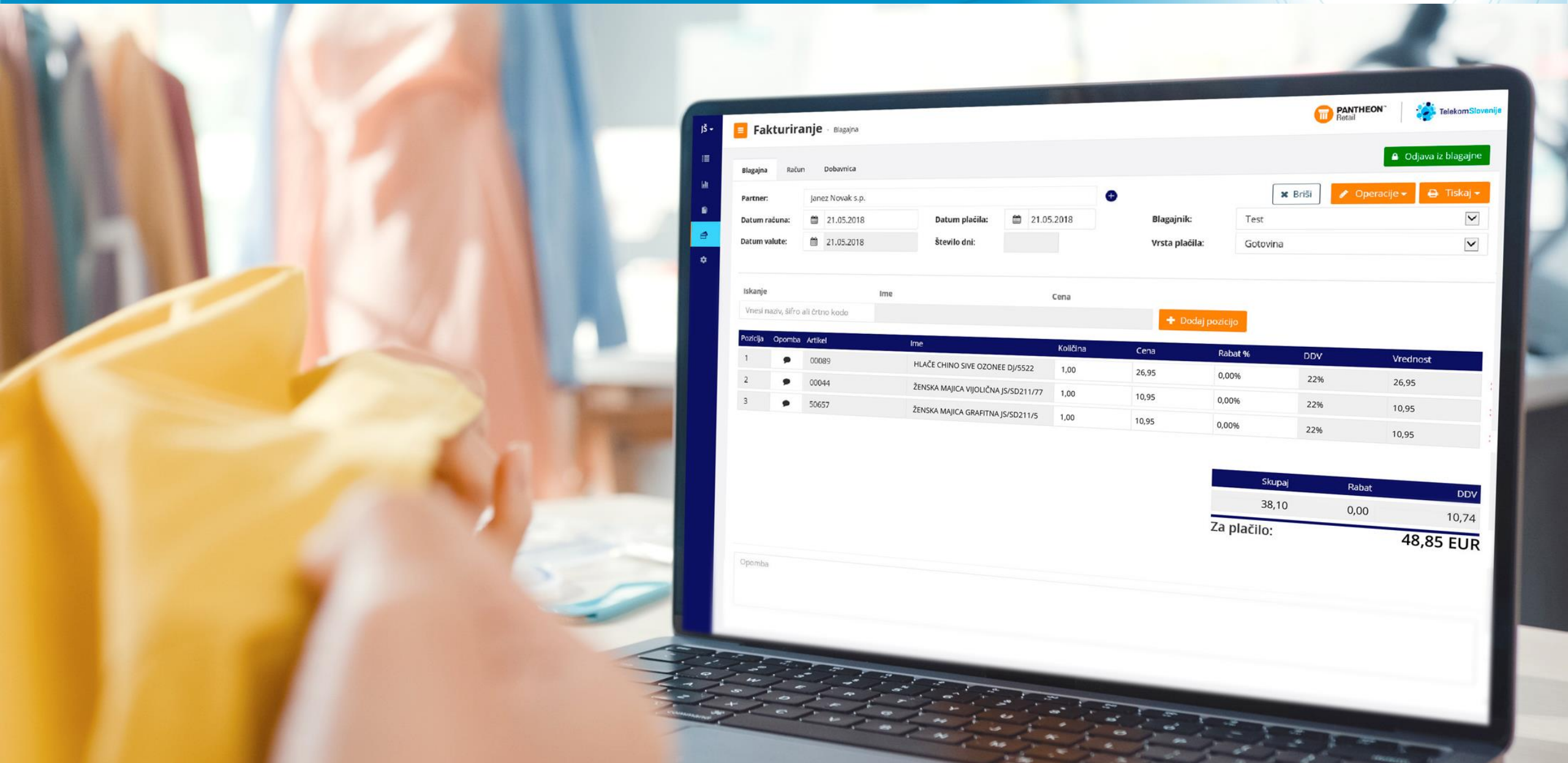
2017 – 20. let Datalab-a

Sodelovanje s Telecom-i v regiji

PANTHEON CONFERENCE 2022

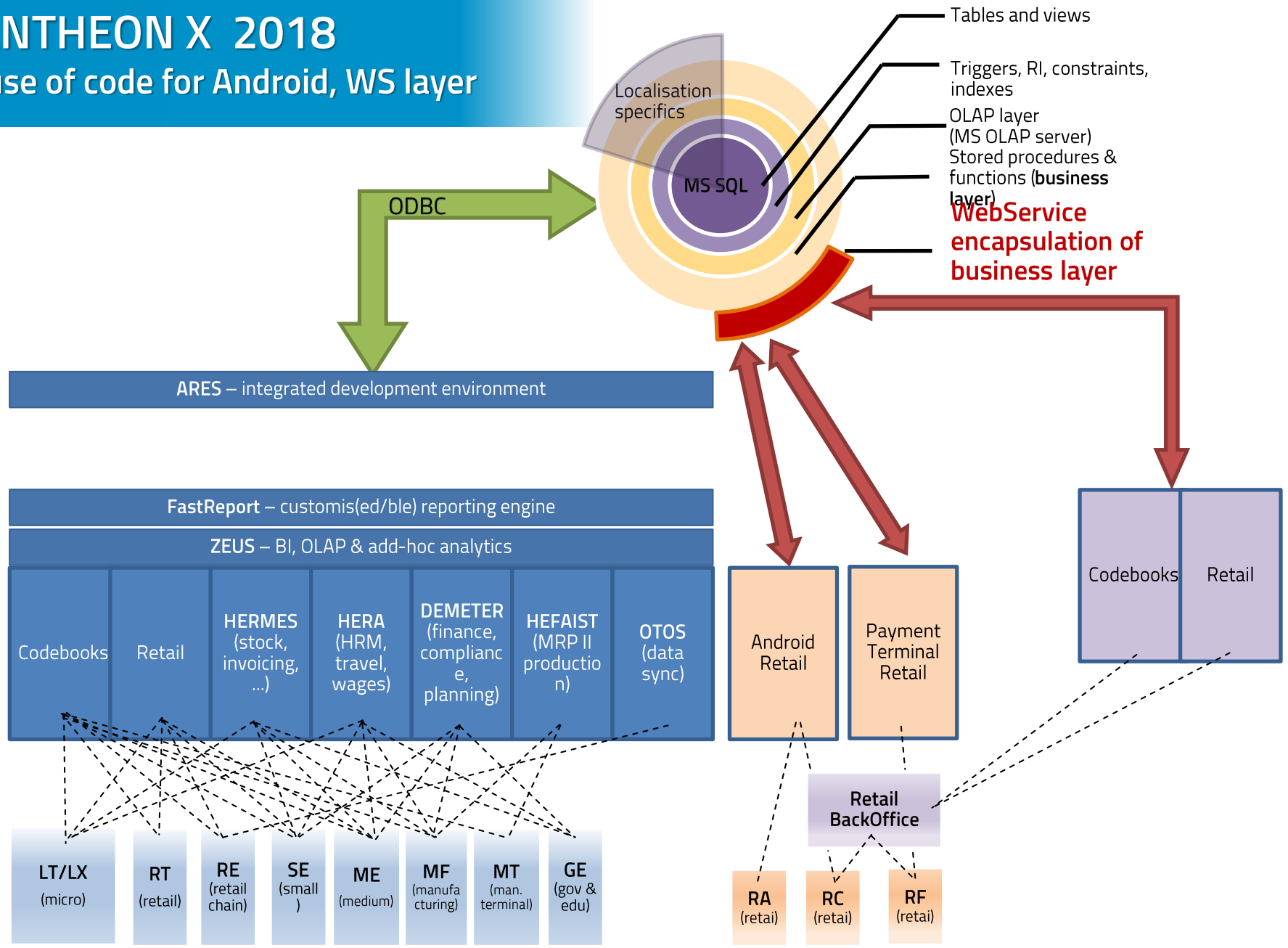
PANTHEON RW

PANTHEON CONFERENCE 2022

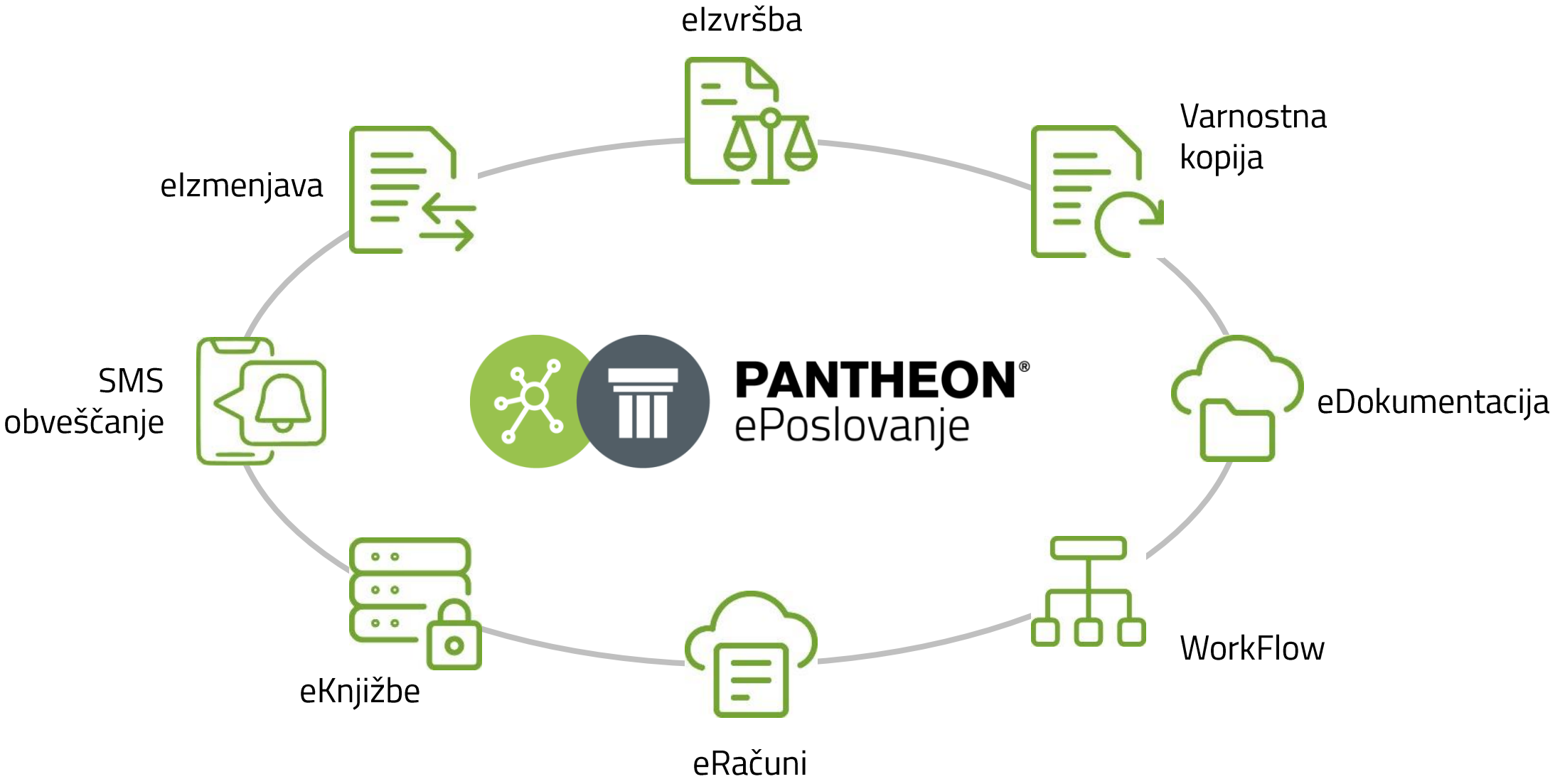


PANTHEON X 2018

Reuse of code for Android, WS layer

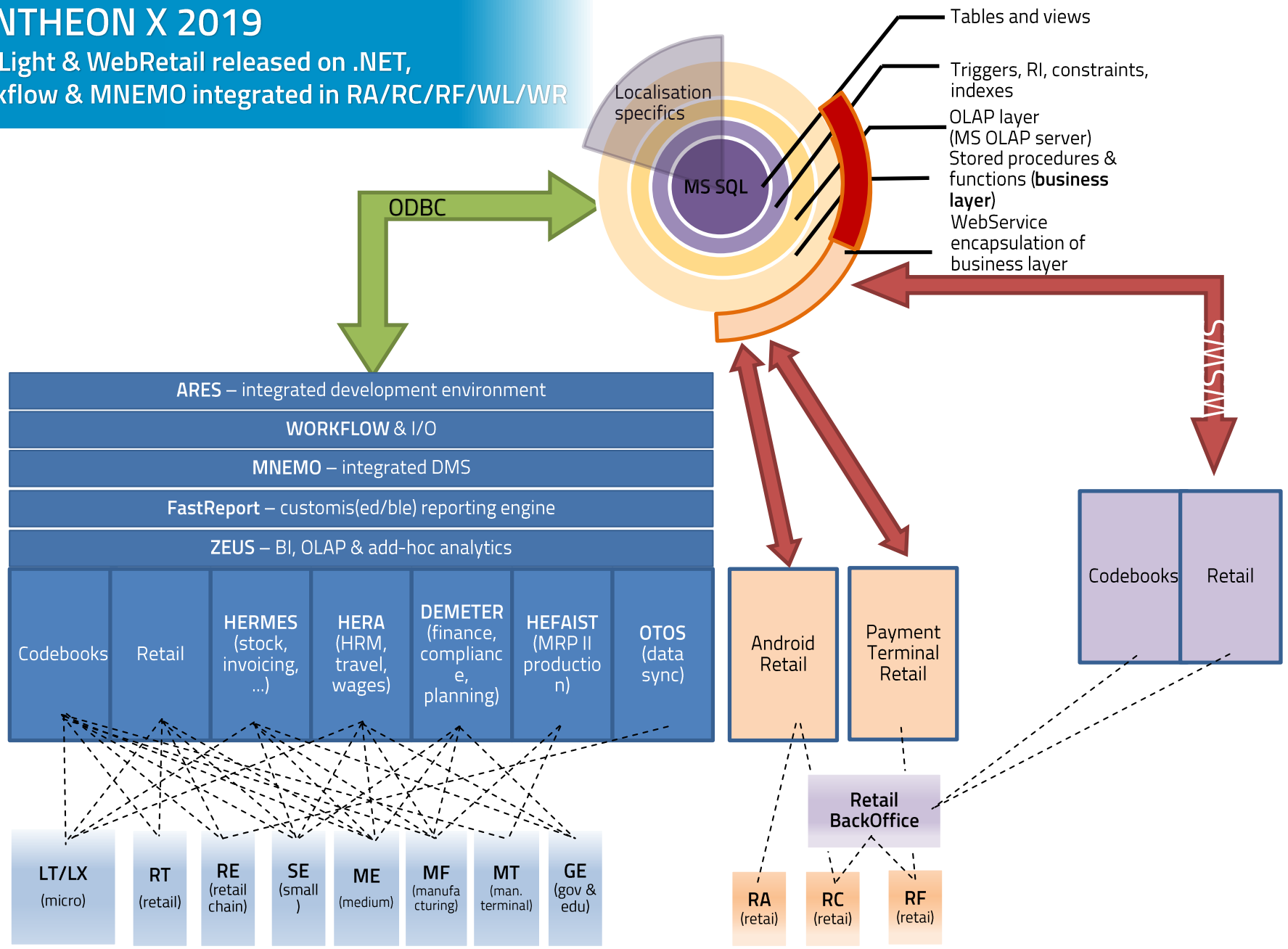


ePoslovanje in PANTHEON DMS



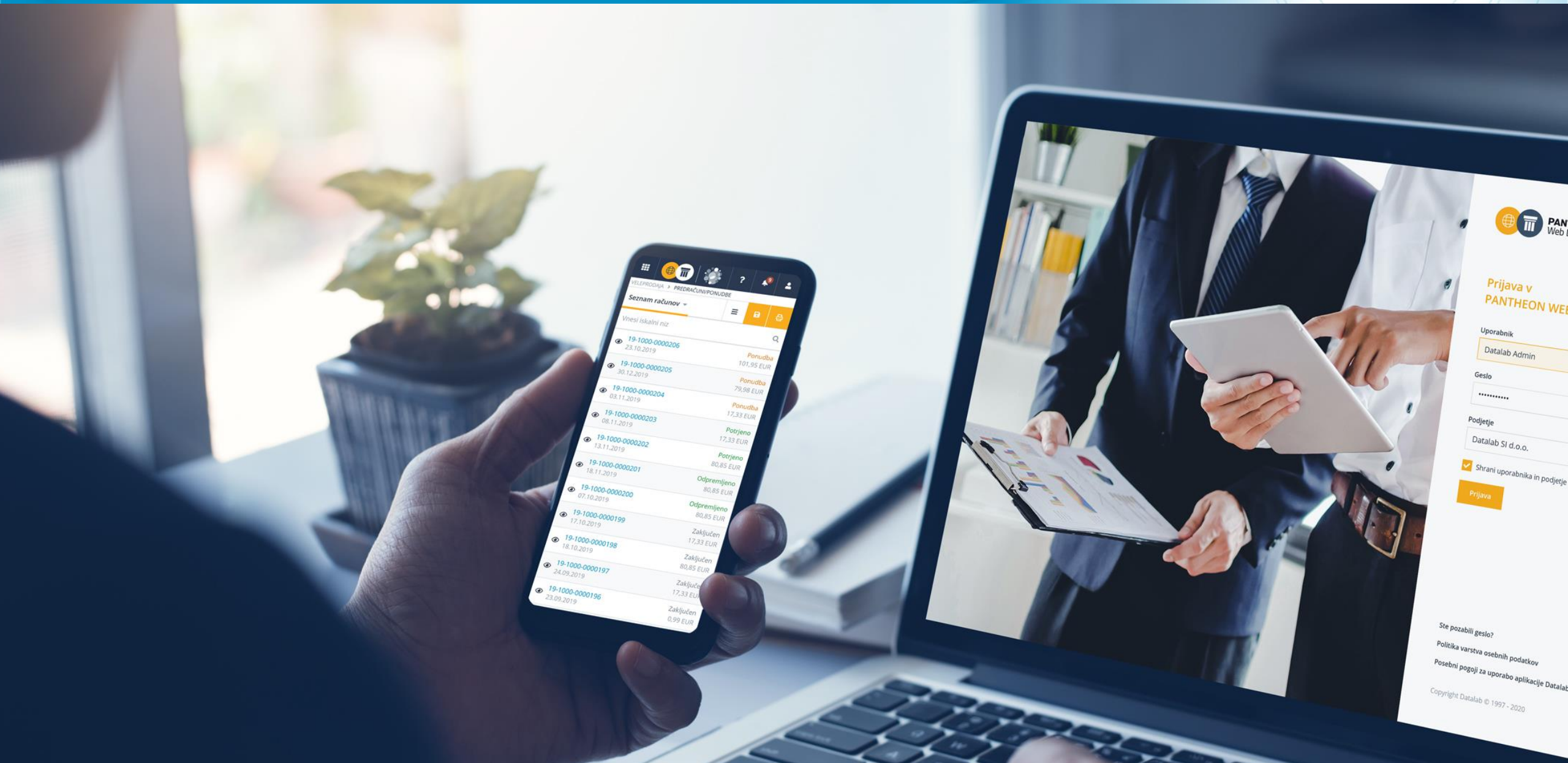
PANTHEON X 2019

WebLight & WebRetail released on .NET, Workflow & MNEMO integrated in RA/RC/RF/WL/WR



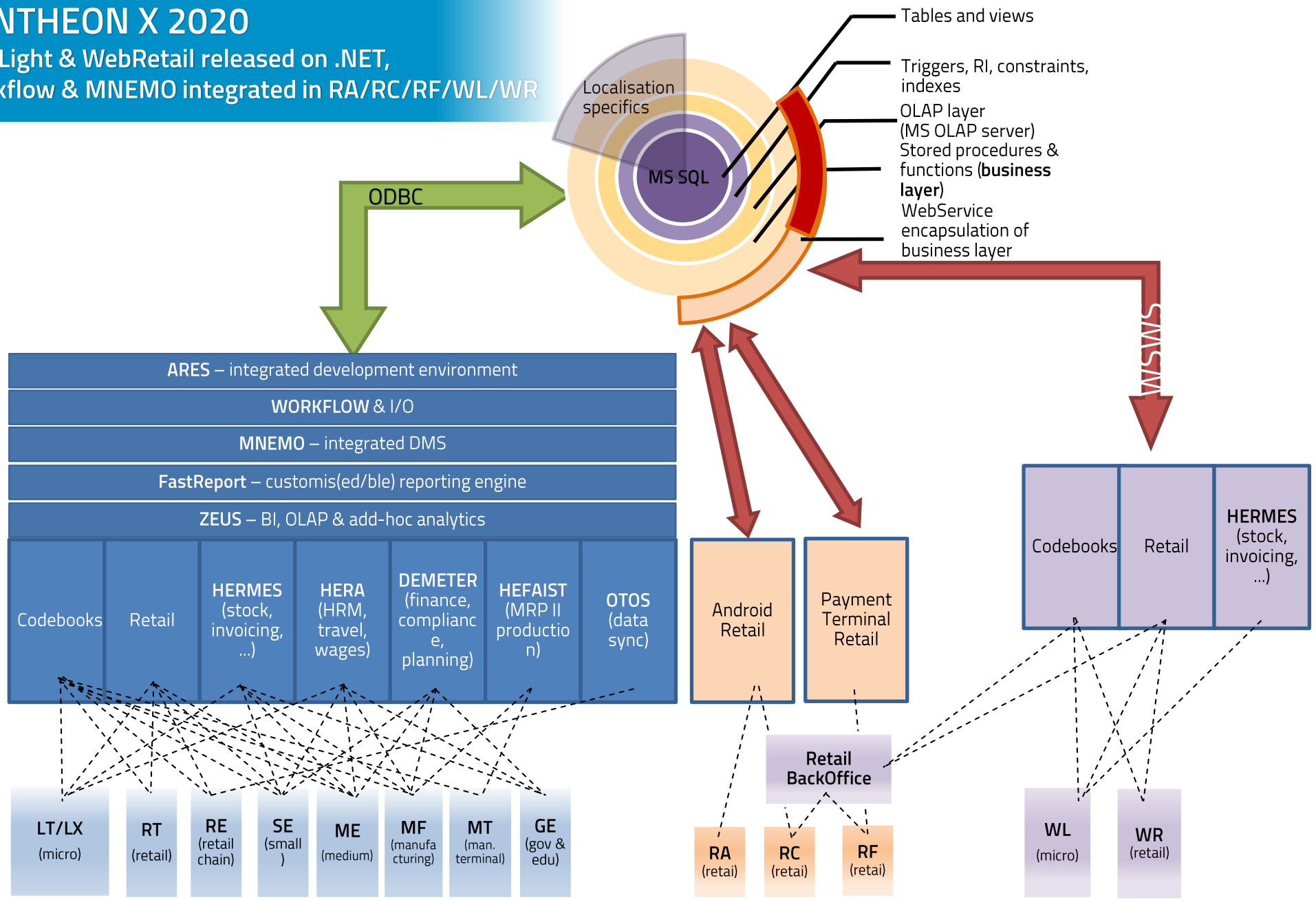
PANTHEON Web Light

PANTHEON CONFERENCE 2022



PANTHEON X 2020

WebLight & WebRetail released on .NET, Workflow & MNEMO integrated in RA/RC/RF/WL/WR

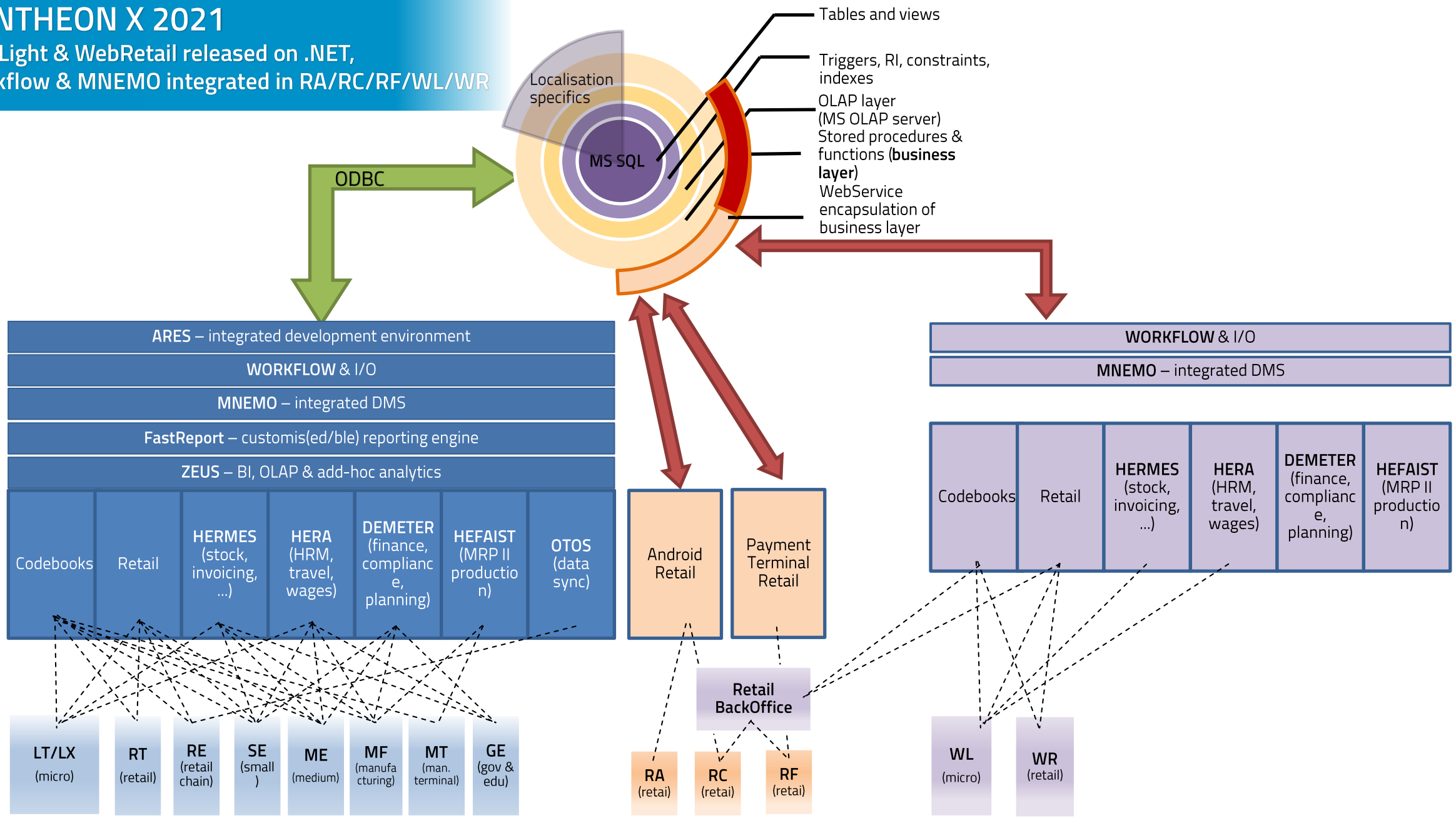


PANTHEON kjerkoli

PANTHEON
CONFERENCE 2022

PANTHEON X 2021

WebLight & WebRetail released on .NET, Workflow & MNEMO integrated in RA/RC/RF/WL/WR



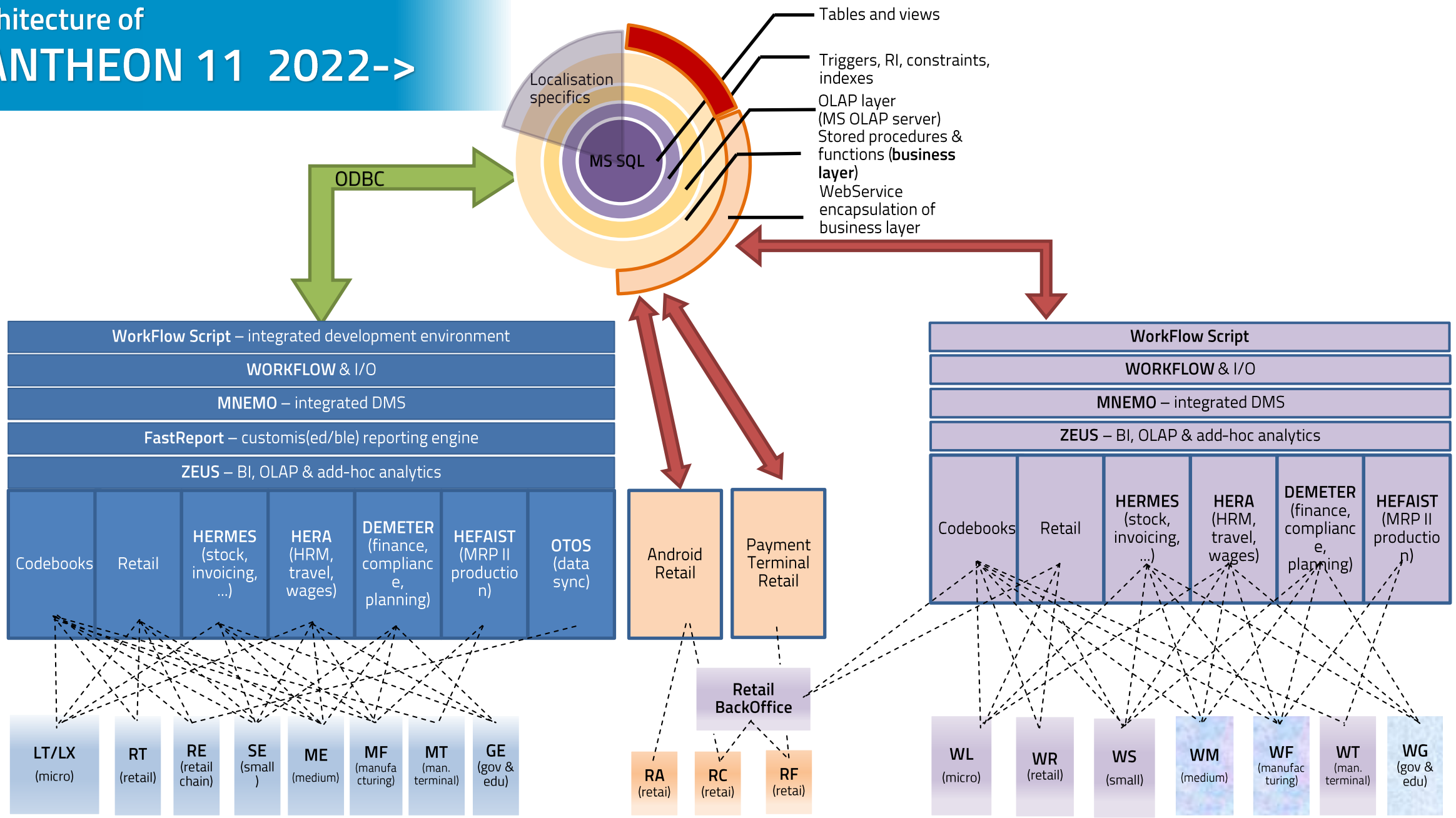
PANTHEON Web potrjevanje in podpisovanje

PANTHEON CONFERENCE 2022

PANTHEON 11

PANTHEON
CONFERENCE 2022

Architecture of PANTHEON 11 2022->



PANTHEON 11 – Zeus & Wx

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PANTHEON 25 YEARS ANNIVERSARY

PANTHEON CONFERENCE 2022

INTERNATIONAL CONFERENCE 2022

KEYNOTE

Hands-on PANTHEON v praksi

Andrej Mertelj, CEO
Datalab Tehnologije d.d.

PANTHEON 25 YEARS ANNIVERSARY

PANTHEON CONFERENCE 2022

INTERNATIONAL CONFERENCE 2022

KEYNOTE

OPTIMIZACIJA V PANTHEON-U

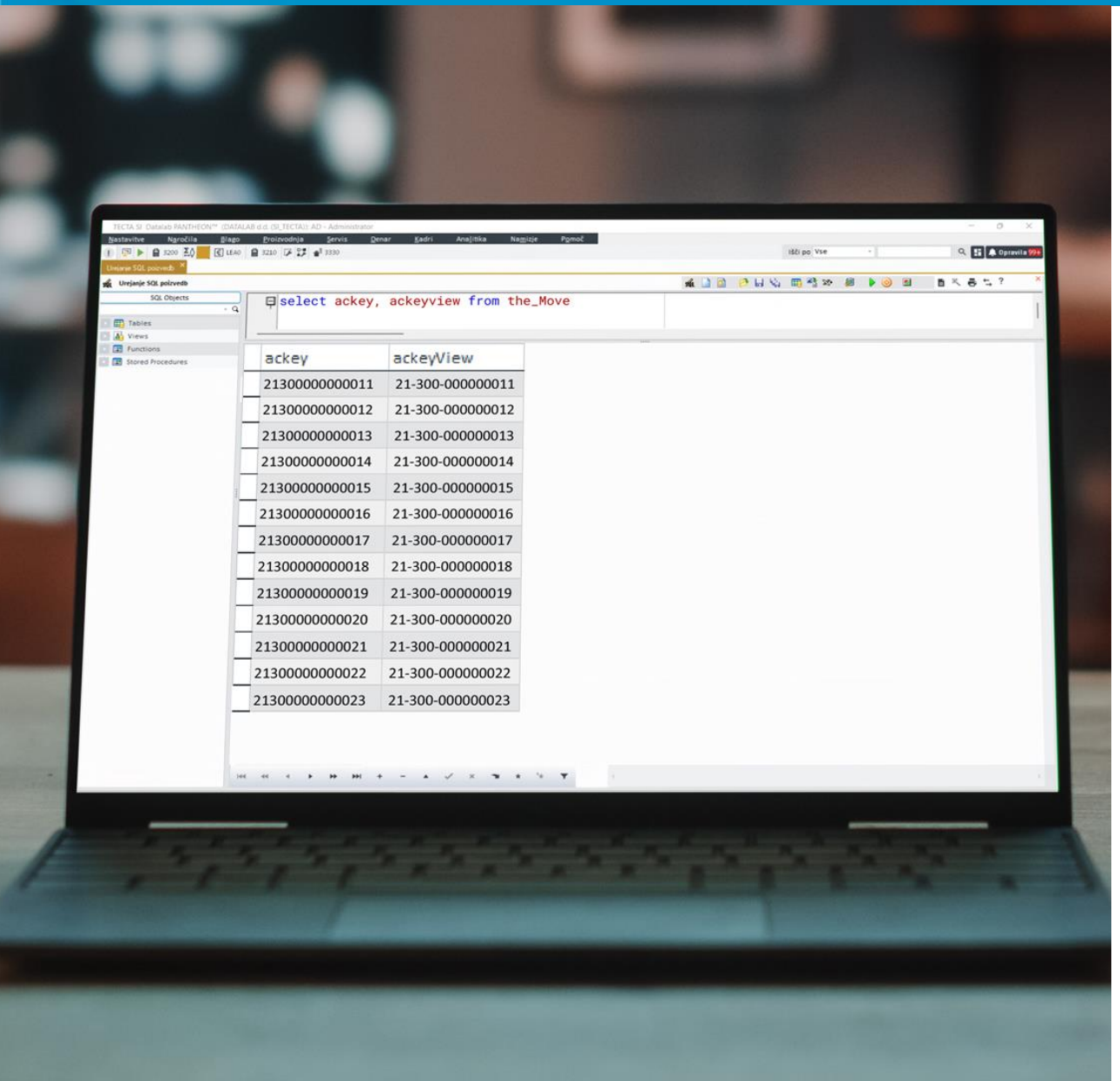
Domen Lukančič,
Datalab SI

PANTHEON HANDS-ON

Optimizacija v PANTHEON-u

PANTHEON
CONFERENCE 2022

Optimizacija kode



- Dodan nov argument PERSISTED
- Odstranitev JOIN-ov za formatiranje ključev

Optimizacija poizvedb

PANTHEON CONFERENCE 2022

Optimizacija vseh poizvedb za izračun dnevnih tečajev

- Napolnitev tabele s podatki za 5 let v prihodnost
- Poizvedba se izvede ≈ 84% hitreje

PREJ

```
if exists(Select acDoctype from tPA_SetDoctype where acDocType = @p_cKey and acSetOf = 'C')
  Select @v_nRate = IsNull(E.anRate, 1) from
  tPA_SysParam SP
  CROSS JOIN tPA_SysParamSys SPS
  CROSS APPLY [dbo].[fpa_primary_currency](@v_dDate) PC
  CROSS APPLY dbo.fpa_currency_exchange(@v_dDate, SP.acBankDutySufix, PC.acPrimCurrency, CASE SP.acBankDutyPrefix
  WHEN 'M' THEN 0 WHEN 'B' THEN 1 ELSE 2 END,
  acBankDutySufix, @v_cCurrency, CASE SP.acBankDutyPrefix WHEN 'M' THEN 0 WHEN 'B' THEN 1 ELSE 2 END) E
else
  Select @v_nRate = IsNull(E.anRate, 1) from
  tPA_SysParam SP
  CROSS JOIN tPA_SysParamSys SPS
  CROSS APPLY [dbo].[fpa_primary_currency](@v_dDate) PC
  CROSS APPLY dbo.fpa_currency_exchange(@v_dDate, SP.acBankPriceSufix, PC.acPrimCurrency, CASE SP.acBankPricePrefix
  WHEN 'M' THEN 0 WHEN 'B' THEN 1 ELSE 2 END,
  acBankPriceSufix, @v_cCurrency, CASE SP.acBankPricePrefix WHEN 'M' THEN 0 WHEN 'B' THEN 1 ELSE 2 END) E
```

POTEM

```
if exists(Select acDoctype from tPA_SetDoctype where acDocType = @p_cKey and acSetOf = 'C')
  Select @v_nRate = FX.anRate from
  tPA_SysParam SP
  CROSS JOIN tPA_SysParamSys SPS
  JOIN [dbo].[tHE_SetFXRate] R on R.acBank = @v_cBankPrimarySufix AND R.acCurrency = @v_cCurrency AND R.adDate = @v_dDate
  CROSS APPLY dbo.fPA_CalcCorrectRateForDate(@v_dDate, @v_nRateType, R.anFXRate, R.anFXRateBuy, R.anFXRateSale) FX

else
  Select @v_nRate = FX.anRate from
  tPA_SysParam SP
  CROSS JOIN tPA_SysParamSys SPS
  JOIN [dbo].[tHE_SetFXRate] R on R.acBank = @v_cBankPrimarySufix AND R.acCurrency = @v_cCurrency AND R.adDate = @v_dDate
  CROSS APPLY dbo.fPA_CalcCorrectRateForDate(@v_dDate, @v_nRateType, R.anFXRate, R.anFXRateBuy, R.anFXRateSale) FX
```

Tabelarične funkcije

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- Zamenjava skalarnih funkcij s tabelaričnimi funkcijami
- paralelnost SQL poizvedb -hkratni izračun podatkov

```sql
-- Skalarna funkcija
ALTER function [dbo].[fMN_MailboxEmptyId]()
returns int
as
begin
  Declare @v_nMailboxId integer;

  Select @v_nMailboxId = M.anQId
  from tMN_Mailbox M
  where M.acName = '';

  Return @v_nMailboxId;
end;
```

```sql
 -- Tabelarična funkcija
ALTER FUNCTION [dbo].[fMN_MailboxEmptyId]()
RETURNS TABLE
AS
  RETURN(
  Select M.anQId
  from tMN_Mailbox M
  where M.acName = ''
);


Declare
  @v_nMailboxEmptyId integer

set @v_nMailboxEmptyId =  dbo.fMN_MailboxEmptyId()
print @v_nMailboxEmptyId

select * from  dbo.fMN_MailboxEmptyId_2()
```

Uporaba MS SQL funkcije

PANTHEON CONFERENCE 2022

PREJ

```sql
CREATE FUNCTION [dbo].[fPA_SplitString](
  @p_value varchar(4000)
, @p_delimiter varchar(10)
)
RETURNS TABLE
--WITH SCHEMABINDING
AS
RETURN (
  WITH E1(N) AS (
    SELECT 1
    UNION ALL SELECT 1
    UNION ALL SELECT 1
    UNION ALL SELECT 1
    UNION ALL SELECT 1
    UNION ALL SELECT 1
    UNION ALL SELECT 1
    UNION ALL SELECT 1
    UNION ALL SELECT 1
    UNION ALL SELECT 1
    UNION ALL SELECT 1
  ) --10E+1 or 10 rows
  , E2(N) AS (SELECT 1 FROM E1 a CROSS JOIN E1 b) --10E+2 or 100 rows
  , E4(N) AS (SELECT 1 FROM E2 a CROSS JOIN E2 b) --10E+4 or 10,000 rows max
  , cteTally(N) AS (
    --==== This provides the "base" CTE and limits the number of rows right up front
        -- for both a performance gain and prevention of accidental "overruns"
    SELECT TOP (ISNULL(DATALENGTH(@p_value),0)) ROW_NUMBER() OVER (ORDER BY E4.N) FROM E4
  )
  --===== Do the actual split. The ISNULL/NULLIF combo handles the length for the final element when no delimiter is found.
  SELECT
    ROW_NUMBER() OVER(ORDER BY l.N1) AS anNo
  , SUBSTRING(ISNULL(@p_value,''), l.N1, ISNULL(NULLIF(CHARINDEX(@p_delimiter,@p_value,l.N1),0)-l.N1,8000)) AS acItem
  FROM
    (
      SELECT 1 AS N1
      WHERE
        @p_value IS NOT NULL
      AND @p_value <> ''
      UNION ALL
      SELECT t.N+delimiter.length AS N1
      FROM
        cteTally t
        CROSS JOIN (
          SELECT
            LEN(@p_delimiter + '_') - 1 AS length
        ) delimiter
      WHERE
        SUBSTRING(@p_value,t.N,delimiter.length) = @p_delimiter
    ) l
);
```

SEDAJ

```sql
create FUNCTION [dbo].[fPA_SplitString](
  @p_value varchar(MAX)
, @p_delimiter char(1))
RETURNS TABLE
AS
RETURN
(
  SELECT  ROW_NUMBER() OVER(ORDER BY GETDATE()) AS anNo,
      VALUE AS acItem
  FROM  string_split(@p_value, @p_delimiter)
  WHERE LEN(LTRIM(RTRIM(@p_value))) > 0
);
```

Nadomestitev fPA_SplitString z MS SQL funkcijo string_split

Odstranitev skoraj 50 vrstic kode za preračunavanje vrstic!

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KEYNOTE

RAZVOJNO OKOLJE ARES

Domen Lukančič,
Datalab SI

PANTHEON HANDS-ON

Razvojno okolje ARES

- Pax Compiler je kupilo podjetje Apex Data Solutions
- ***Apex Athena*™** se prodaja v paketu **Apex Olympos™** brez source kode in tako ne sledi več novim verzijam Delphi-ja
- Vključevanje Workflow Scripter-ja v poslovne procese
- Zamenjava jedra ARES-a v prihodnjih letih – deloval z Workflow Scripter-jem
- Vzdrževanje Pax Compiler-ja do zamenjave jedra ARES-a
- Razširitev Workflow Scripter-ja z dodatnimi registracijami

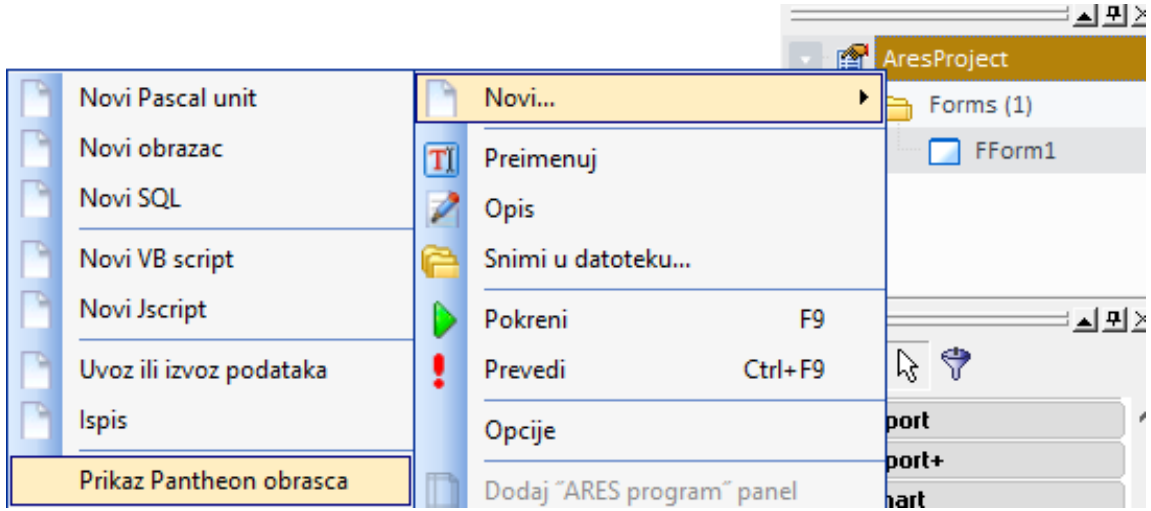
Za že obstoječe uporabnike se sam ARES <u>ne spremeni</u>, saj ARES ostane takšen kot je!

Razlika med Pax Compiler in Workflow Scripter

PANTHEON CONFERENCE 2022

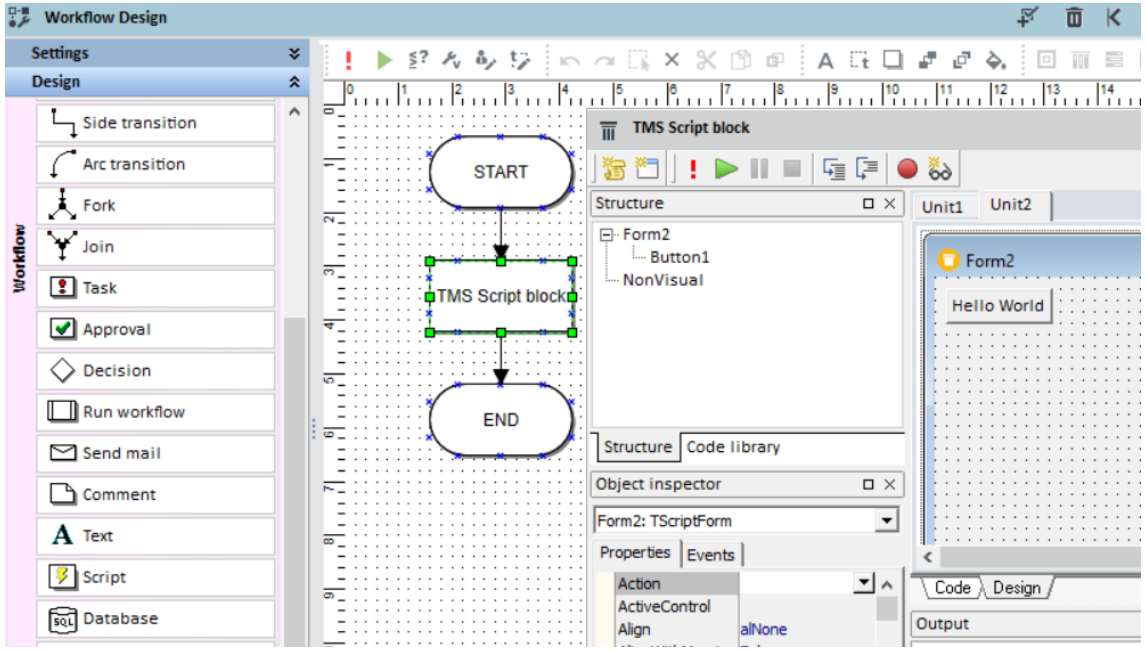
PaxCompiler

- prevaja izvorno kodo v izvršljivo kodo in jo šele nato izvaja



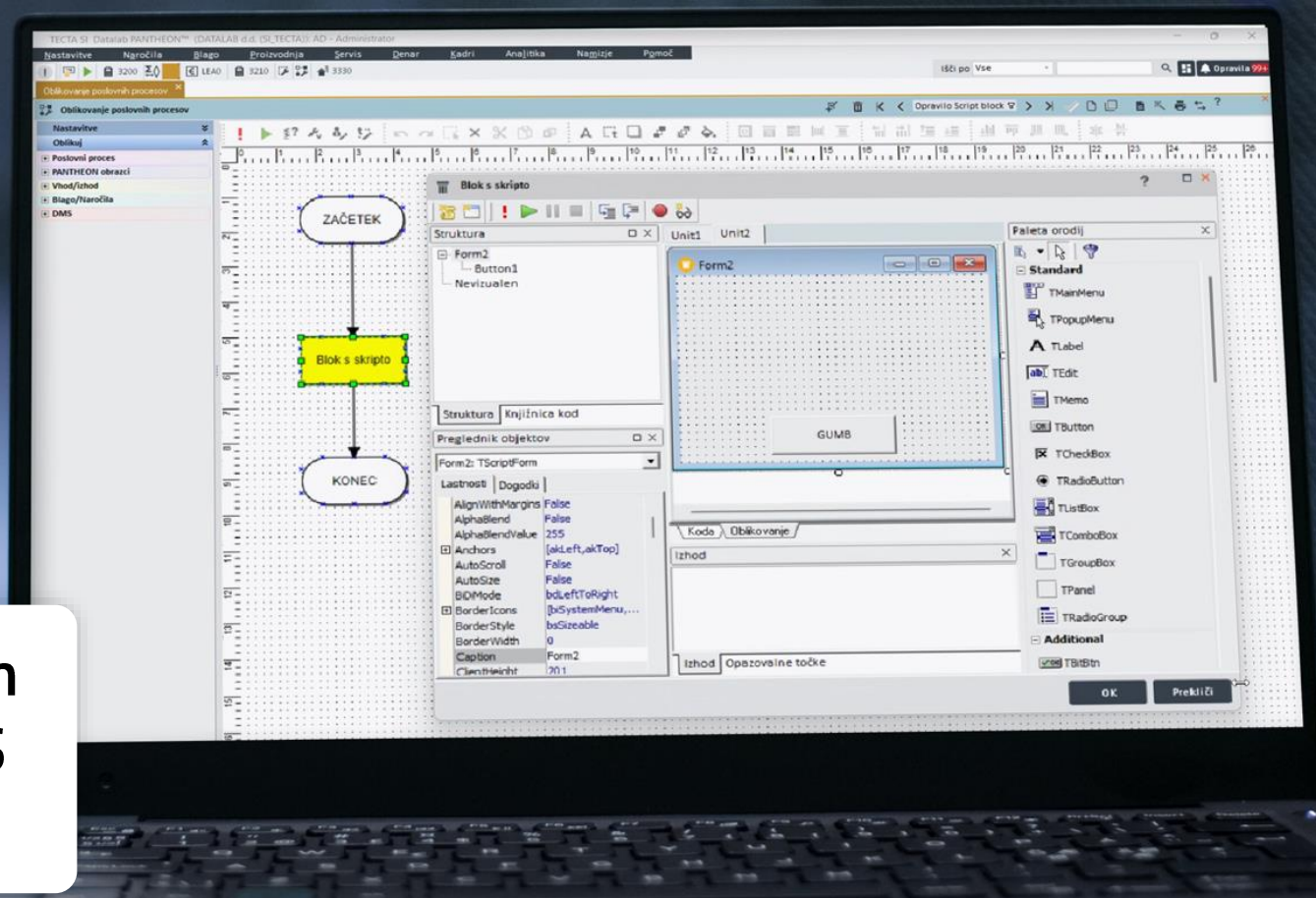
Workflow Scripter

- bere izvorno kodo ukaz za ukazom in jo istočasno izvaja
- hitrejši zagon in izvajanje skriptnega programa



Oblikovanje form v Script block

PANTHEON CONFERENCE 2022



Vsak Script block v poslovnem procesu bo enak enemu ARES postopku

PANTHEON 25 YEARS ANNIVERSARY

PANTHEON CONFERENCE 2022

INTERNATIONAL CONFERENCE 2022

KEYNOTE

PAAS

Pantheon Automation Server

Domen Lukančič,
Datalab SI

PANTHEON HANDS-ON

PAAS = PANTHEON-ov strežnik za avtomatizacijo

PANTHEON CONFERENCE 2022

PANTHEON Automation

PANTHEON REST

PANTHEON CONFERENCE 2022

PANTHEON Automation

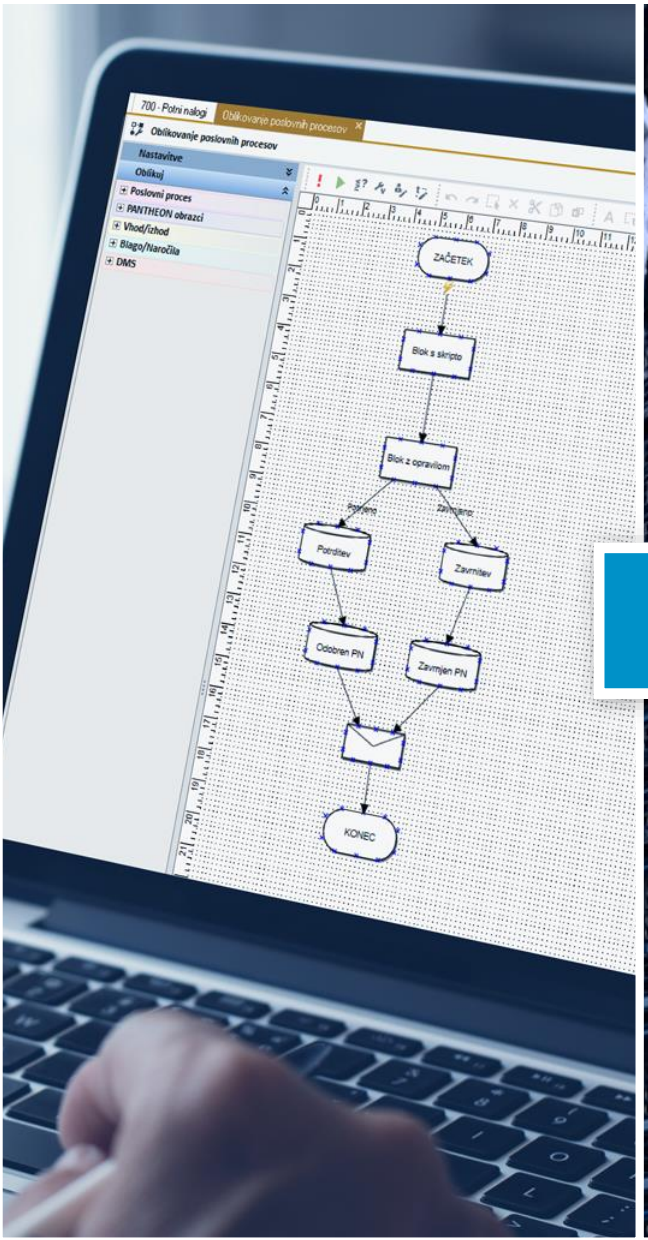
- Samodejno izvajanje opravil na PAAS-u
- Avtomatizacija opravil, ki se izvajajo dlje časa oz. bolj obremenjujejo sistem:
  - izmenjava podatkov
  - Autodoctoring
  - generiranje ZEUS poročil
  - računanje OLAP kock
  - specifična ARES opravila
- Izvajanje 24/7

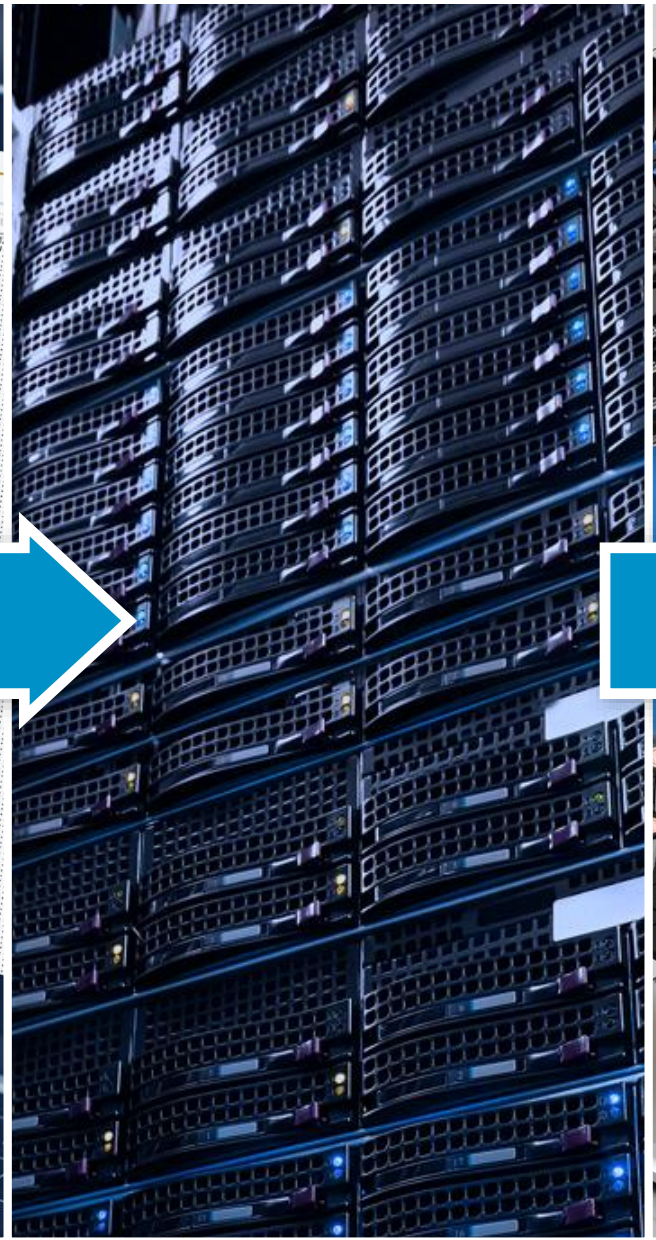
PANTHEON REST

- Vsako zahtevo obdela PANTHEON
- Dostopa do metod za
  - dokumentni sistem
  - poslovnimi procesi
  - državnime službe (fiskalizacija, evidence, ...)
- REST API podpora v PANTHEON Workflow-u

PAAS as Workflow API komponenta

PANTHEON CONFERENCE 2022





PANTHEON PAAS licenca

PANTHEON PAAS (osnovna različica)

Je že vključena v PANTHEON Web Light licenco.

PANTHEON PAAS PRO (napredna različica)

- Trenutno **brezplačna**.
- Za aktivacijo / uporabo je potrebna konektor licenca.
- Funkcionalnosti:
  - Periodično izvajanje poslovnih procesov in zagon ARES postopkov
  - Periodično izvajanje AutoDoctoringa
  - Prejemanje in pošiljanje preko nabiralnikov
  - Izvajanje različnih opravil v čakalni vrsti (tiskanje itd.)
  - Priprava OLAP kock in generiranje ZEUS poročil
  - Avtomatizacija proizvodnje in logističnih procesov
  - Izvajanje delovnega procesa brez uporabnika ali delov procesa, ki ne zahtevajo uporabniške intervencije

PANTHEON 25 YEARS ANNIVERSARY

PANTHEON CONFERENCE 2022

INTERNATIONAL CONFERENCE 2022

KEYNOTE

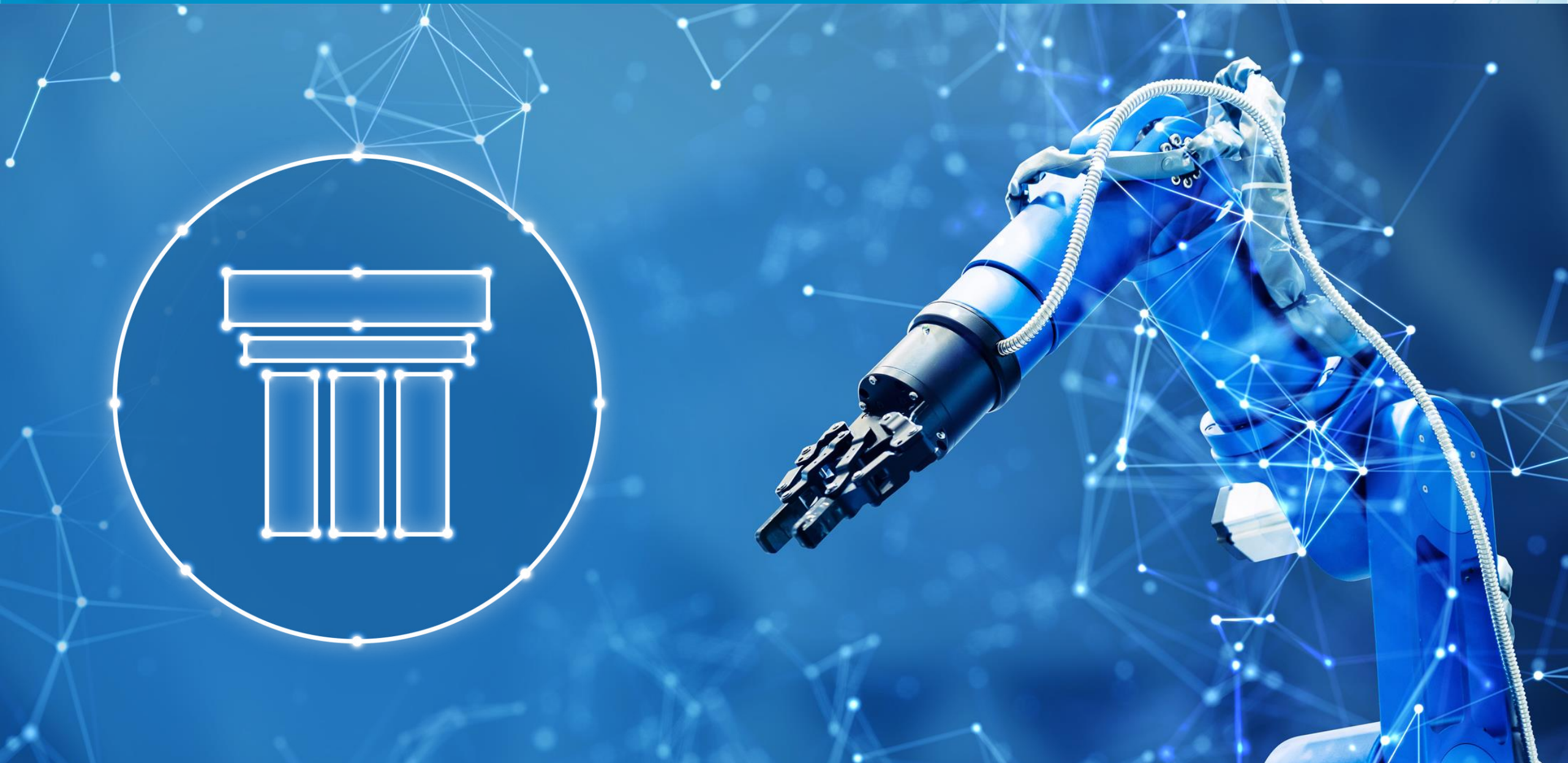
AVTOMATIZACIJA V PROIZVODNJI

Jasna Rihter,
Datalab Tehnologije d.d.

PANTHEON HANDS-ON

PANTHEON povezava s strojem

PANTHEON
CONFERENCE 2022



Projekt sodelovanja Datalab in Razvojni center Novo mesto

PANTHEON CONFERENCE 2022

datalab

razvojni center novo mesto

Novi projekti

PANTHEON 25 YEARS ANNIVERSARY

PANTHEON CONFERENCE 2022

INTERNATIONAL CONFERENCE 2022

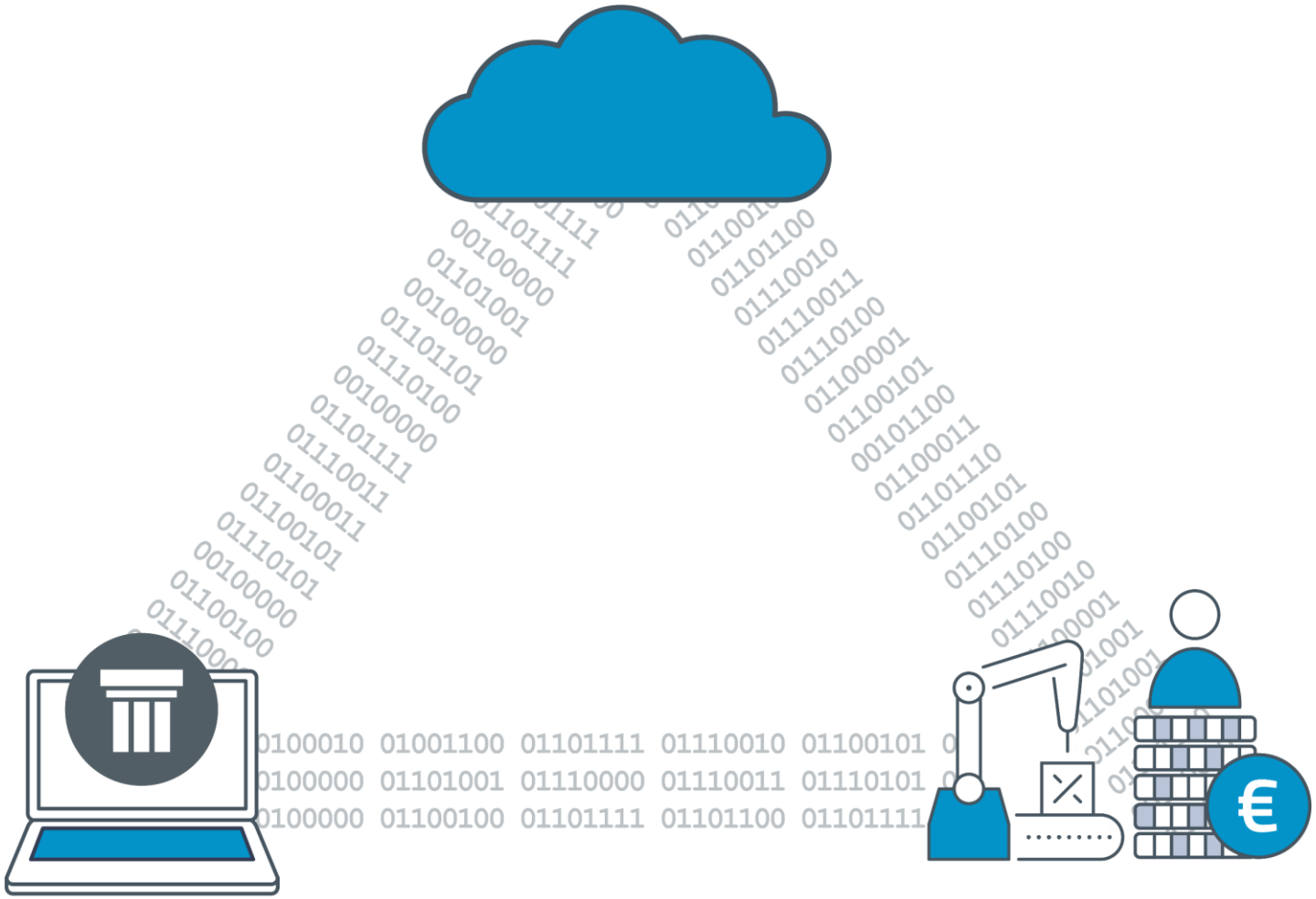
KEYNOTE

PANTHEON SPLETNI SERVISI (PAWS)

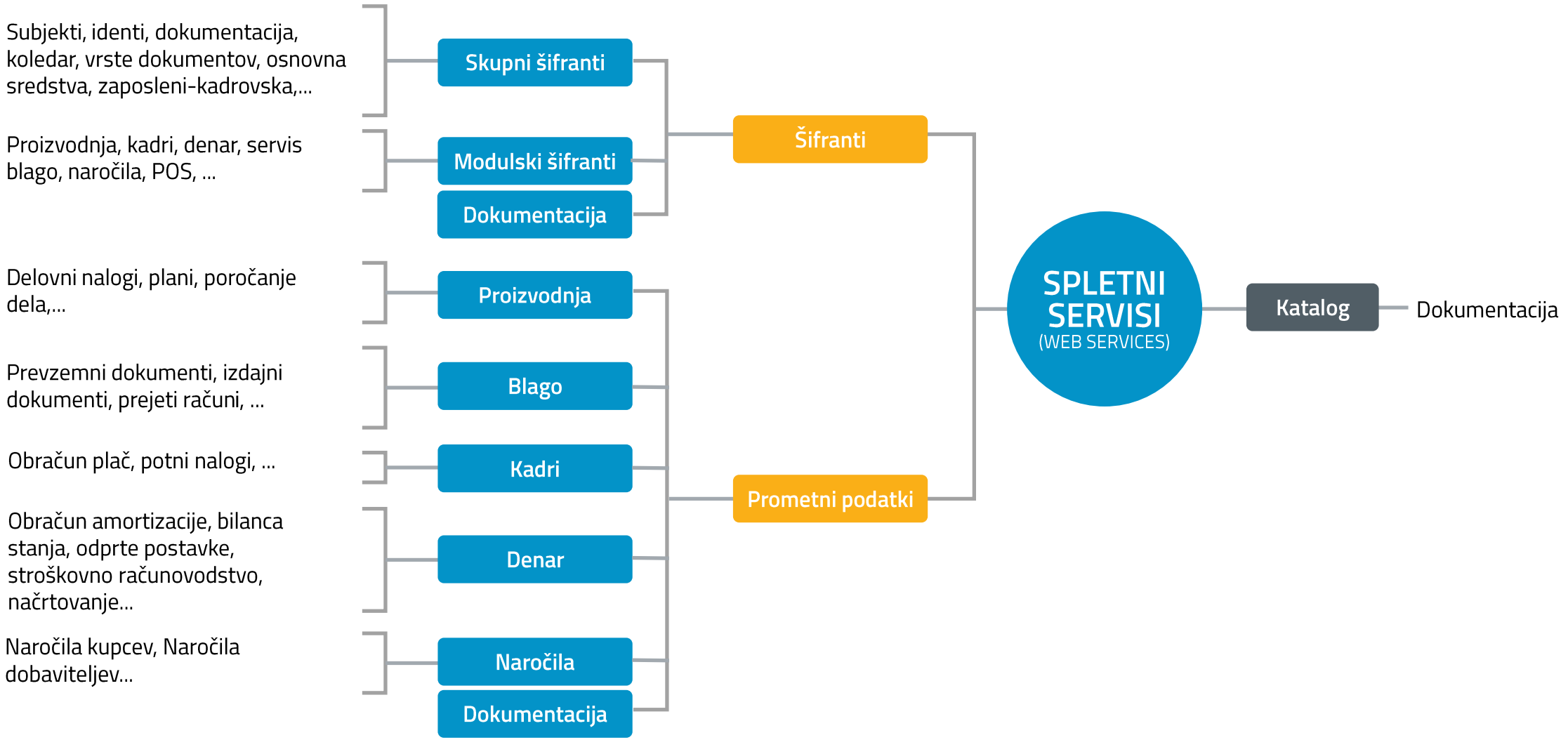
Jasna Rihter,
Datalab Tehnologije d.d.

PANTHEON HANDS-ON

PAWS kot orodje za izmenjavo podatkov

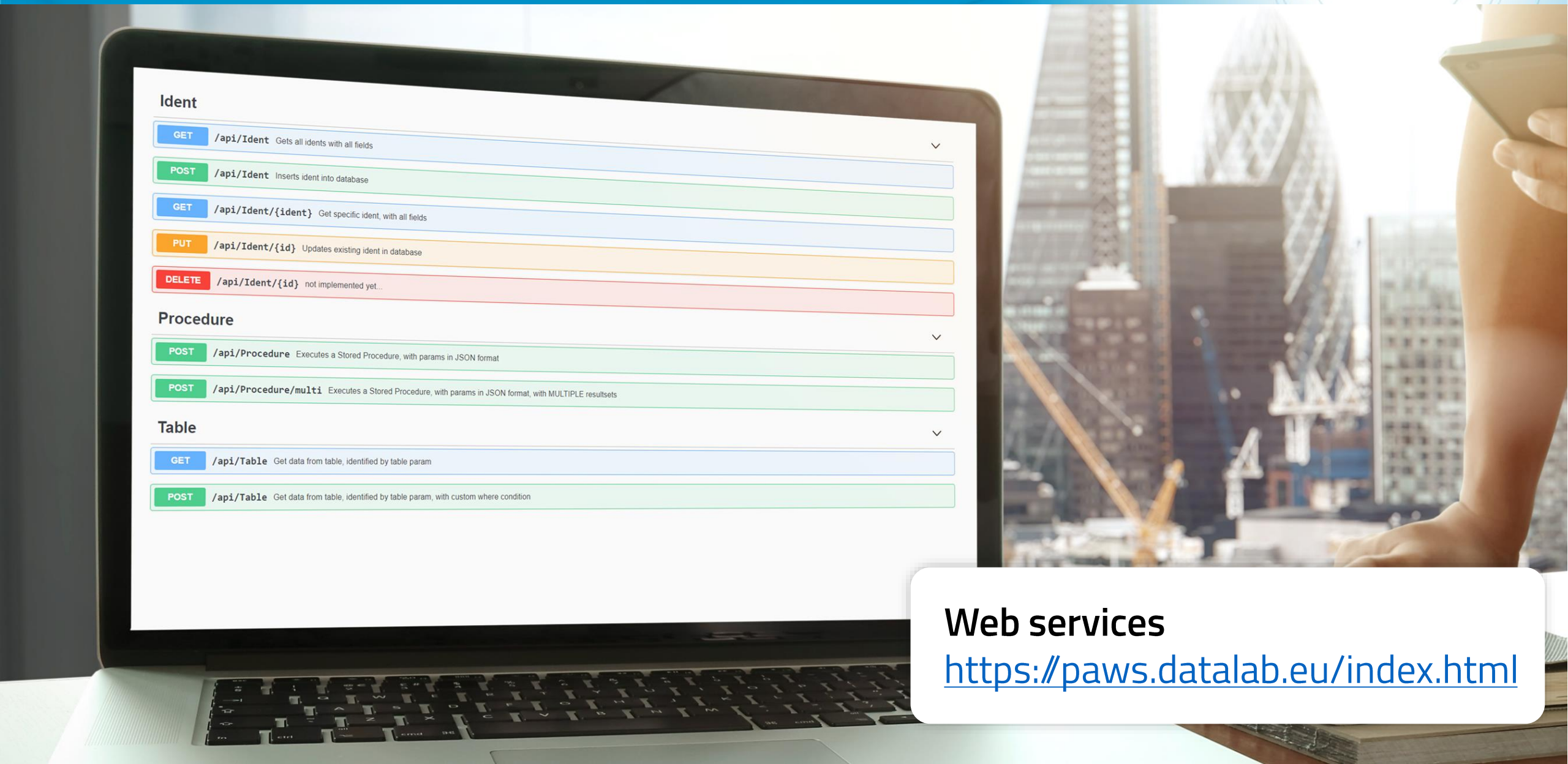


Podatki


Subjekti, identi, dokumentacija, koledar, vrste dokumentov, osnovna sredstva, zaposleni-kadrovska,...
Proizvodnja, kadri, denar, servis blago, naročila, POS, ...
Delovni nalogi, plani, poročanje dela,...
Prevzemni dokumenti, izdajni dokumenti, prejeti računi, ...
Obračun plač, potni nalogi, ...
Obračun amortizacije, bilanca stanja, odprte postavke, stroškovno računovodstvo, načrtovanje...
Naročila kupcev, Naročila dobaviteljev...
Skupni šifranti
Modulski šifranti
Dokumentacija
Proizvodnja
Blago
Kadri
Denar
Naročila
Dokumentacija
Šifranti
Prometni podatki
SPLETNI SERVISI
(WEB SERVICES)
Katalog
Dokumentacija

PANTHEON Spletni Servisi (PAWS)

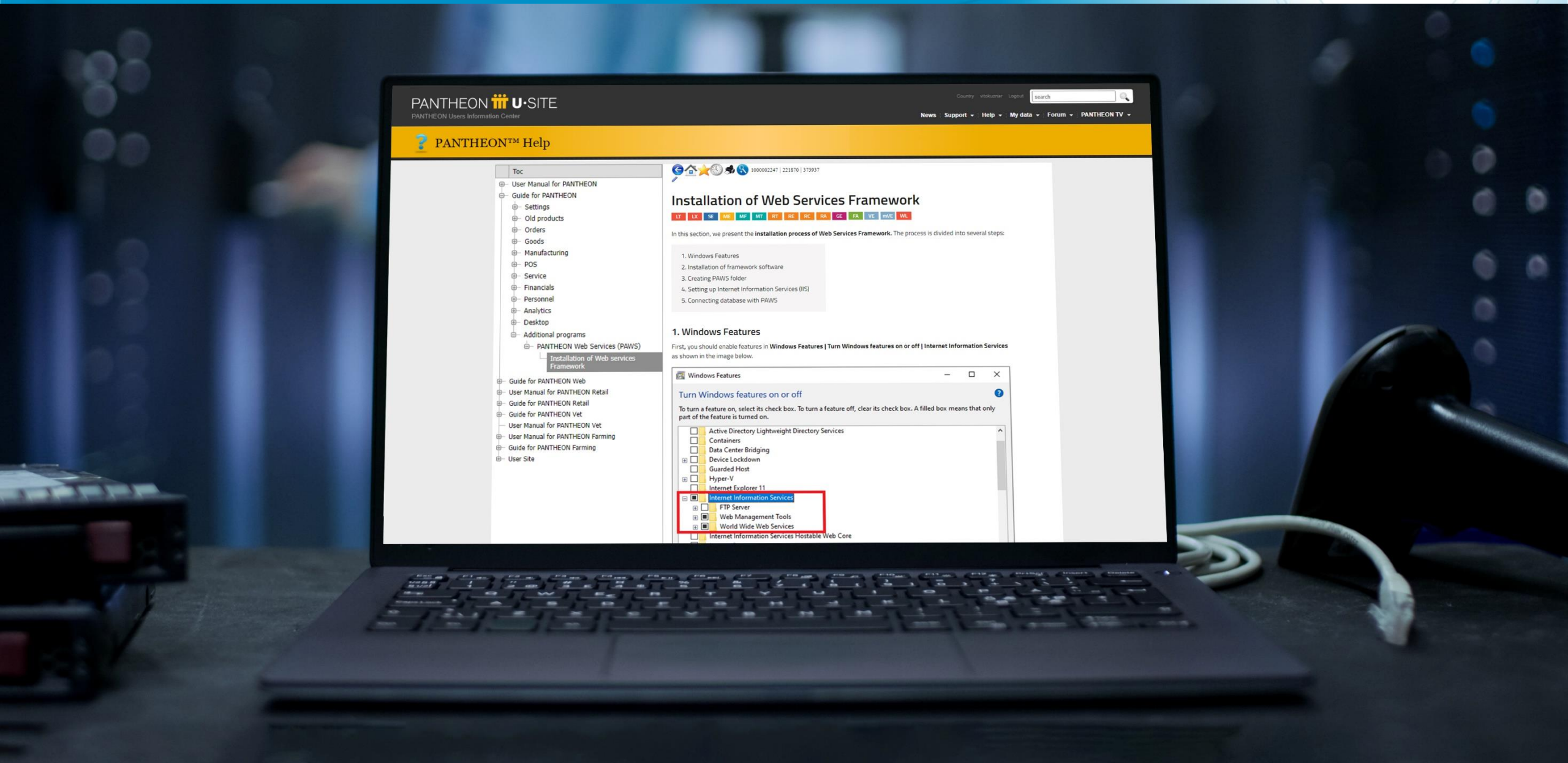
PANTHEON CONFERENCE 2022



Web services

https://paws.datalab.eu/index.html

Instalacija Swagger okolja

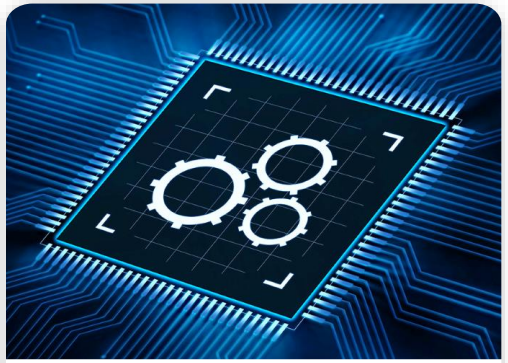


Prednosti

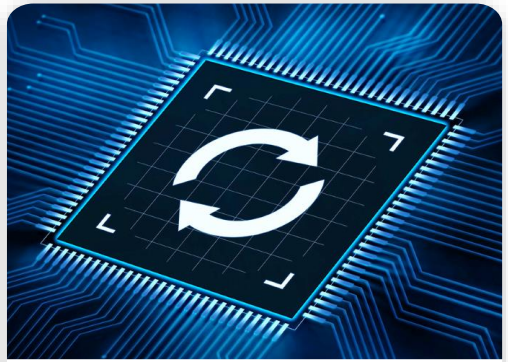
Uporaba obstoječih funkcij

Odprtost

Standardizacija



Enostavnost uporabe



Enostavnost ponovne uporabe

Zmogljivost

Agilnost

Kvaliteta

Integracija PANTHEON-a s sistemom za upravljanje proizvodnje - MES

PANTHEON CONFERENCE 2022

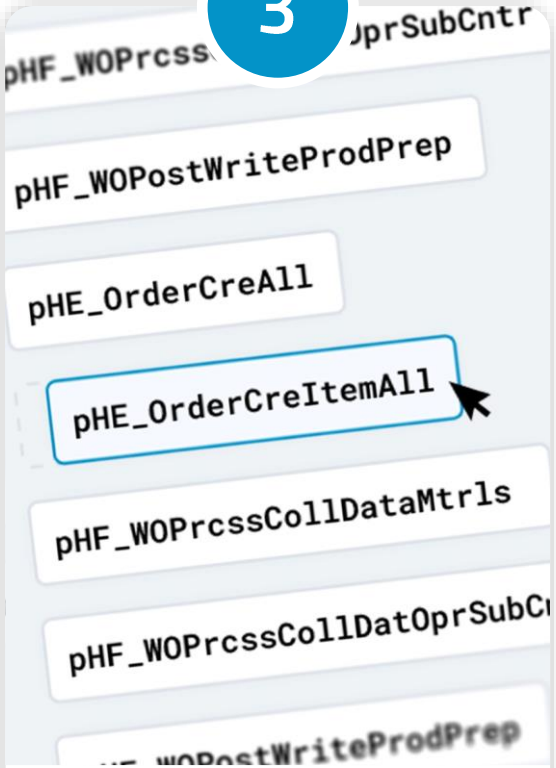
1

https://paws.datalab.eu

2

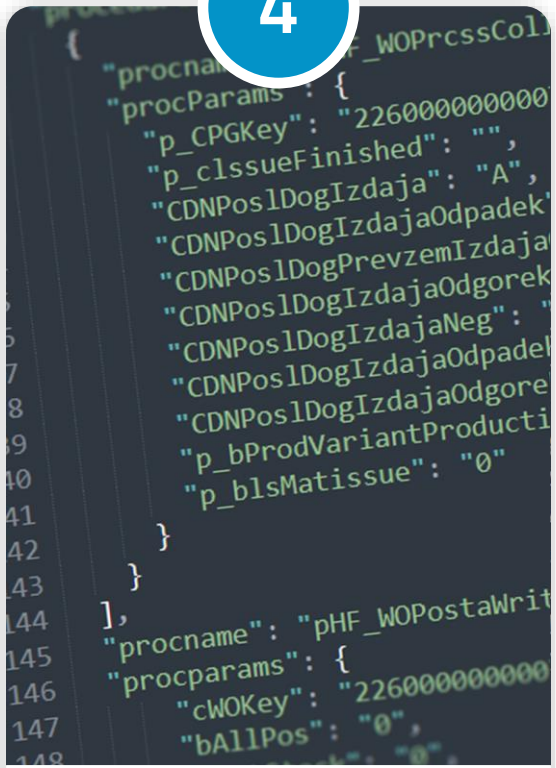
Izbira API metode

3



Možnost uporabe že obstoječih PA funkcij

4



Prilagodimo API za svoje potrebe

Vabilo na delavnico

PANTHEON CONFERENCE 2022

DEVELOPER SESSION

PAWS

Thursday, 17.30–18.00

PANTHEON Web Services

Jasna Rihter,
Datalab Tehnologije d.d.

PANTHEON 25 YEARS ANNIVERSARY

PANTHEON CONFERENCE 2022

INTERNATIONAL CONFERENCE 2022

KEYNOTE

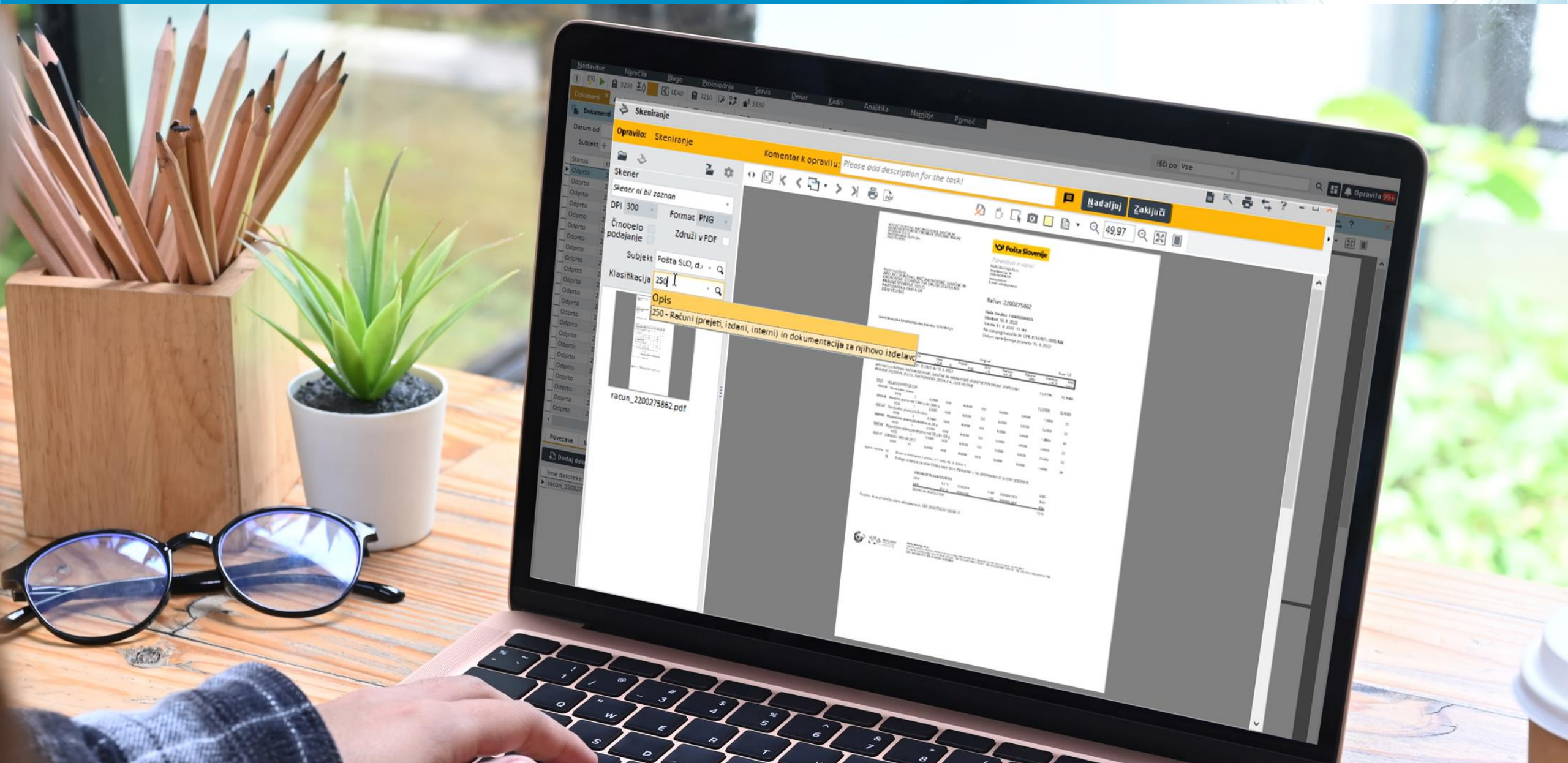
UČINKOVITO OBVLADOVANJE DOKUMENTACIJE V PODJETJU

Simon Pangeršič, Datalab SI

PANTHEON HANDS-ON

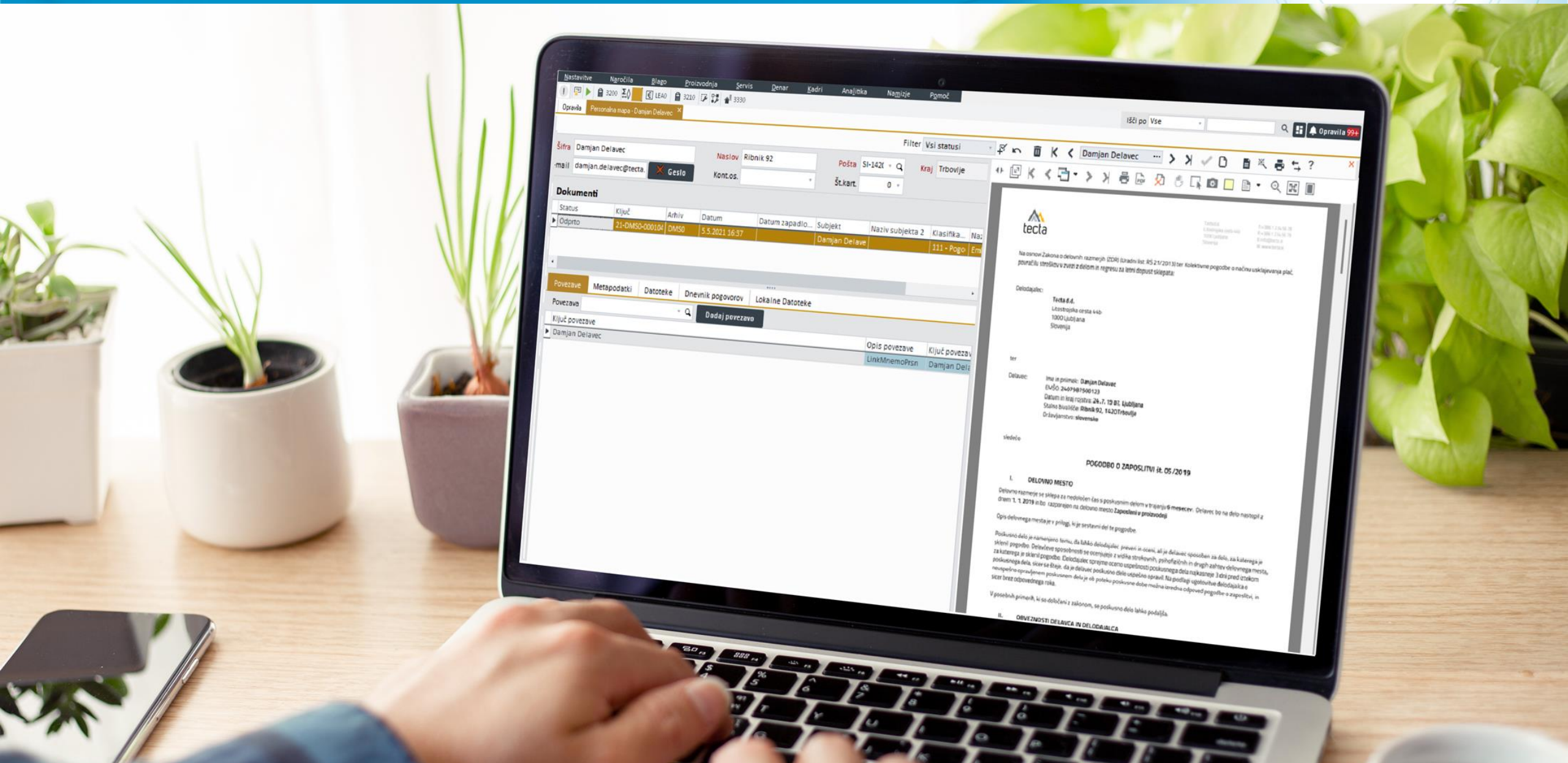
Enostavna obdelava in klasificiranje dokumentov

PANTHEON CONFERENCE 2022



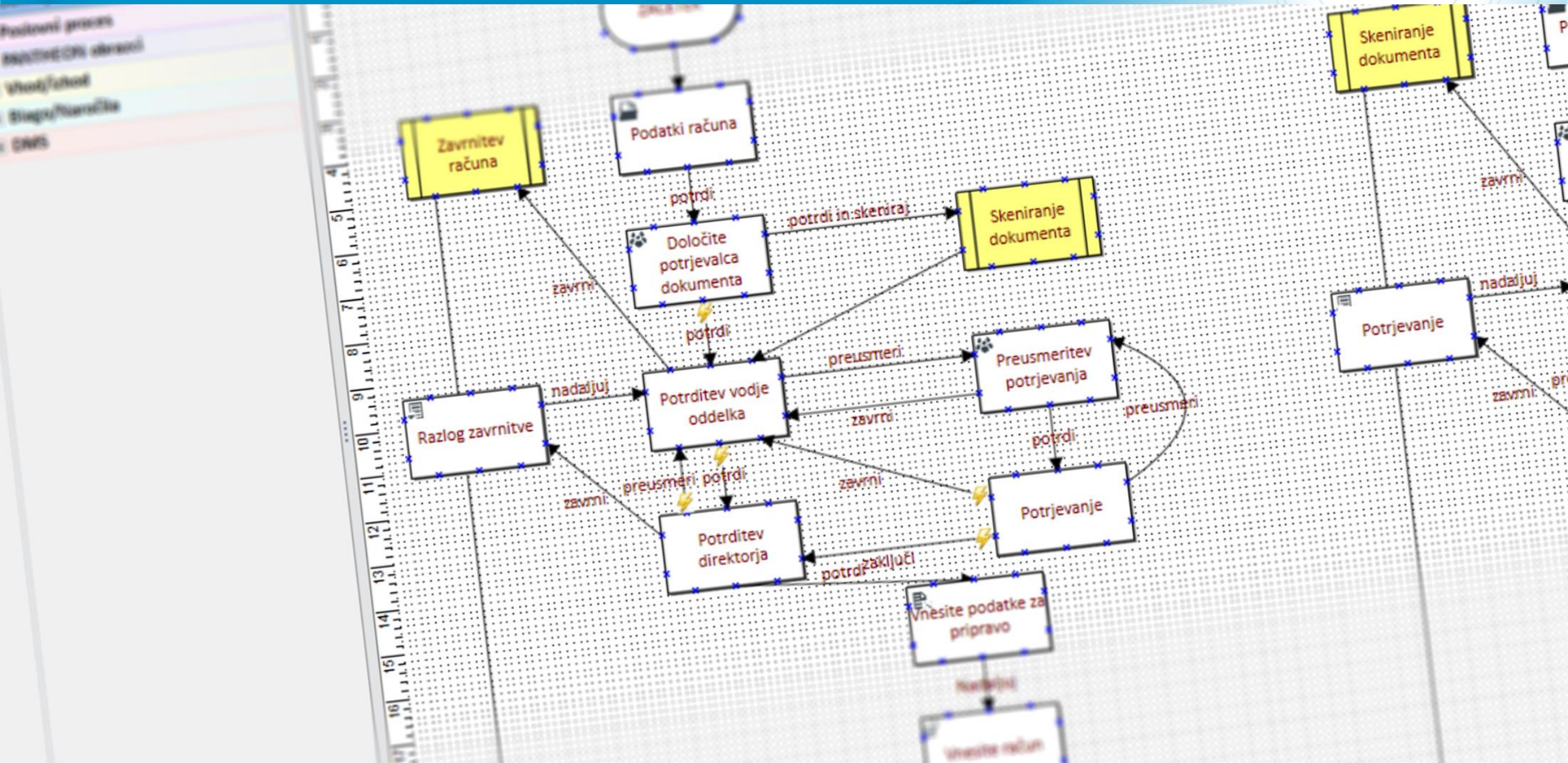
DMS integriran na vse forme v PANTHEON-u

PANTHEON CONFERENCE 2022



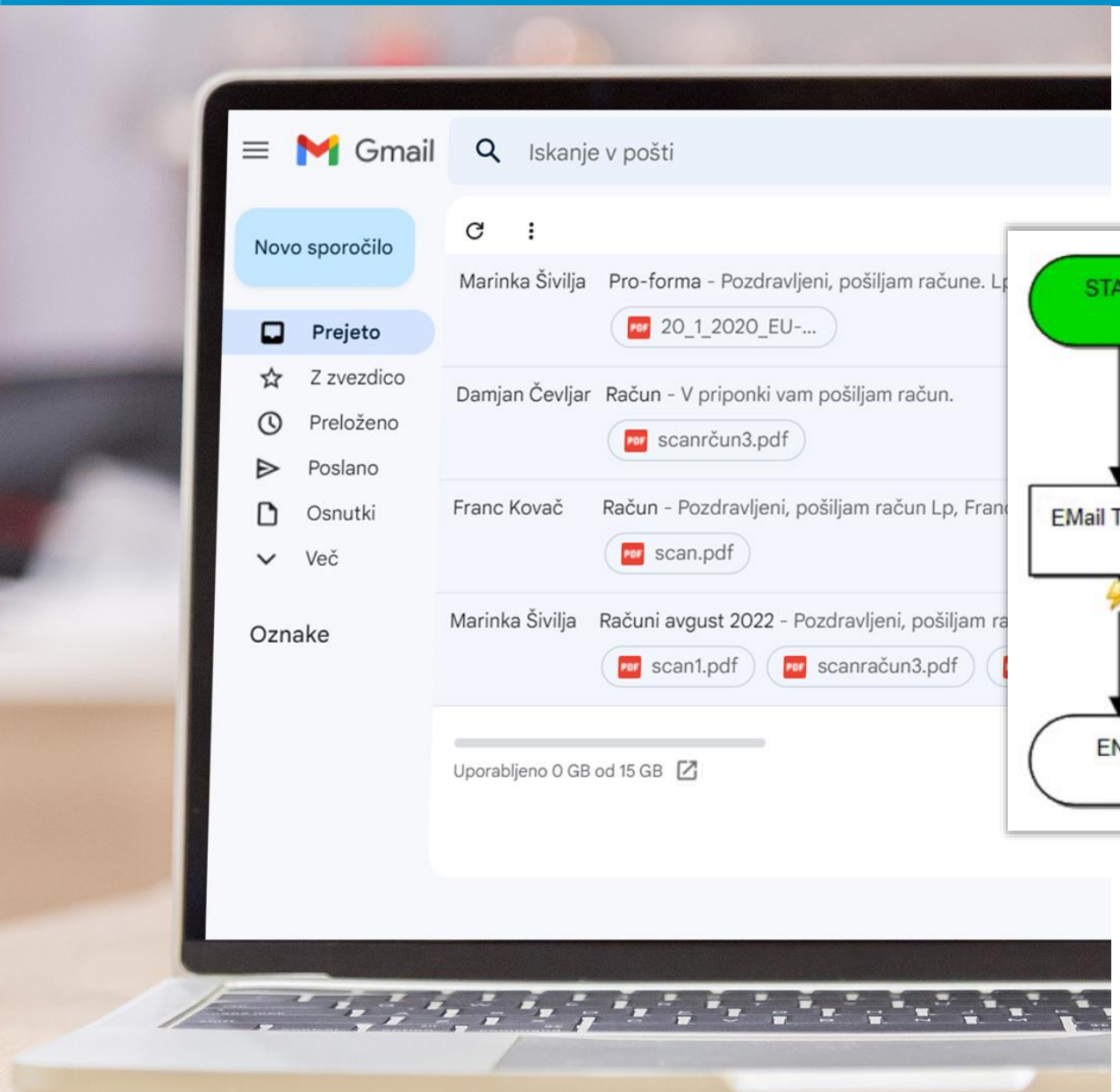
Poslovni procesi prilagojeni potrebam podjetja

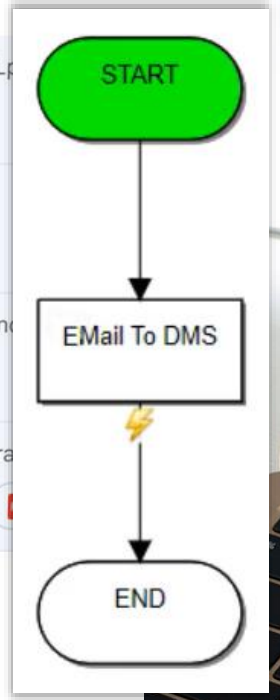
PANTHEON CONFERENCE 2022

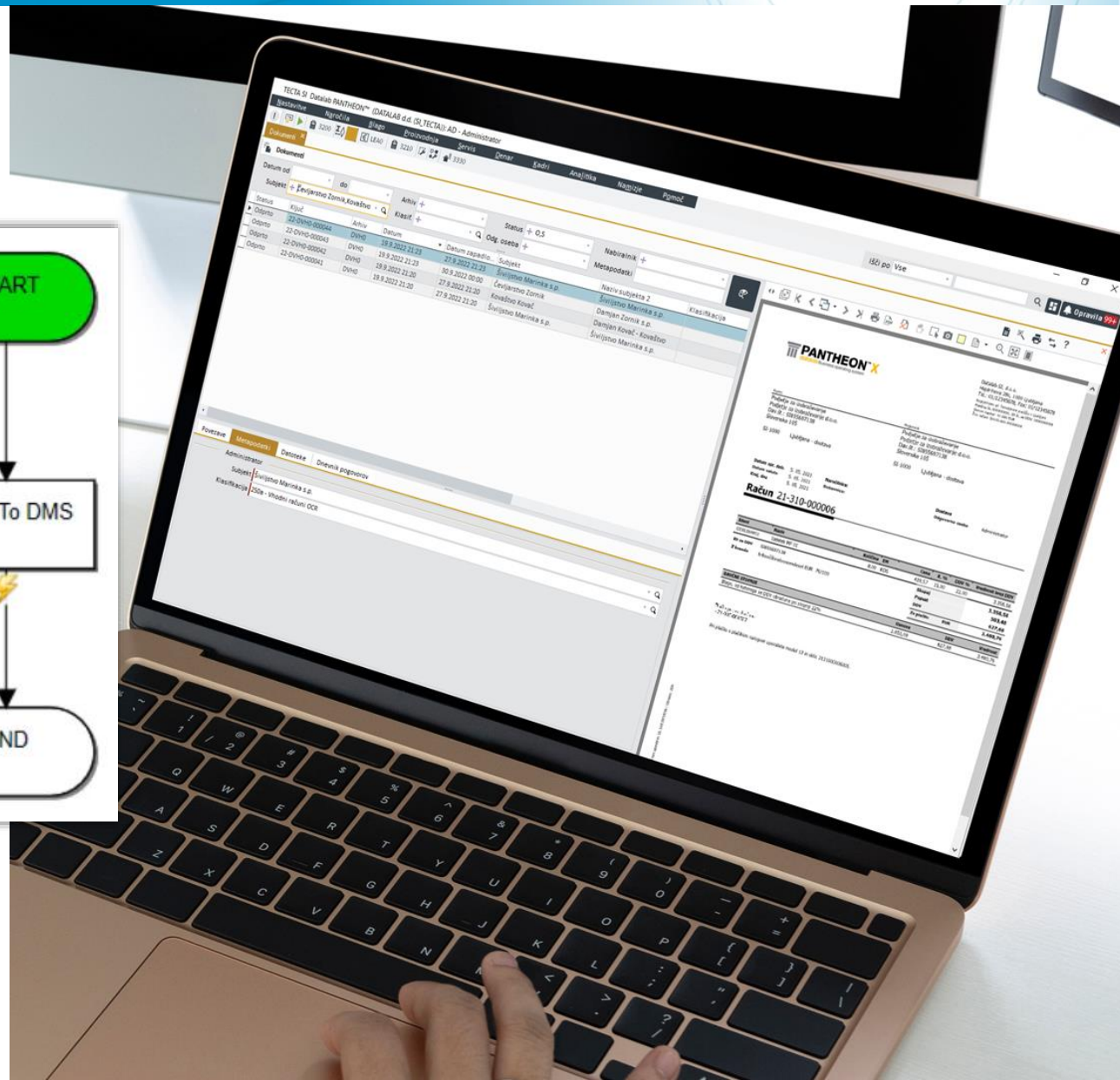


Prevzem elektronske pošte v DMS

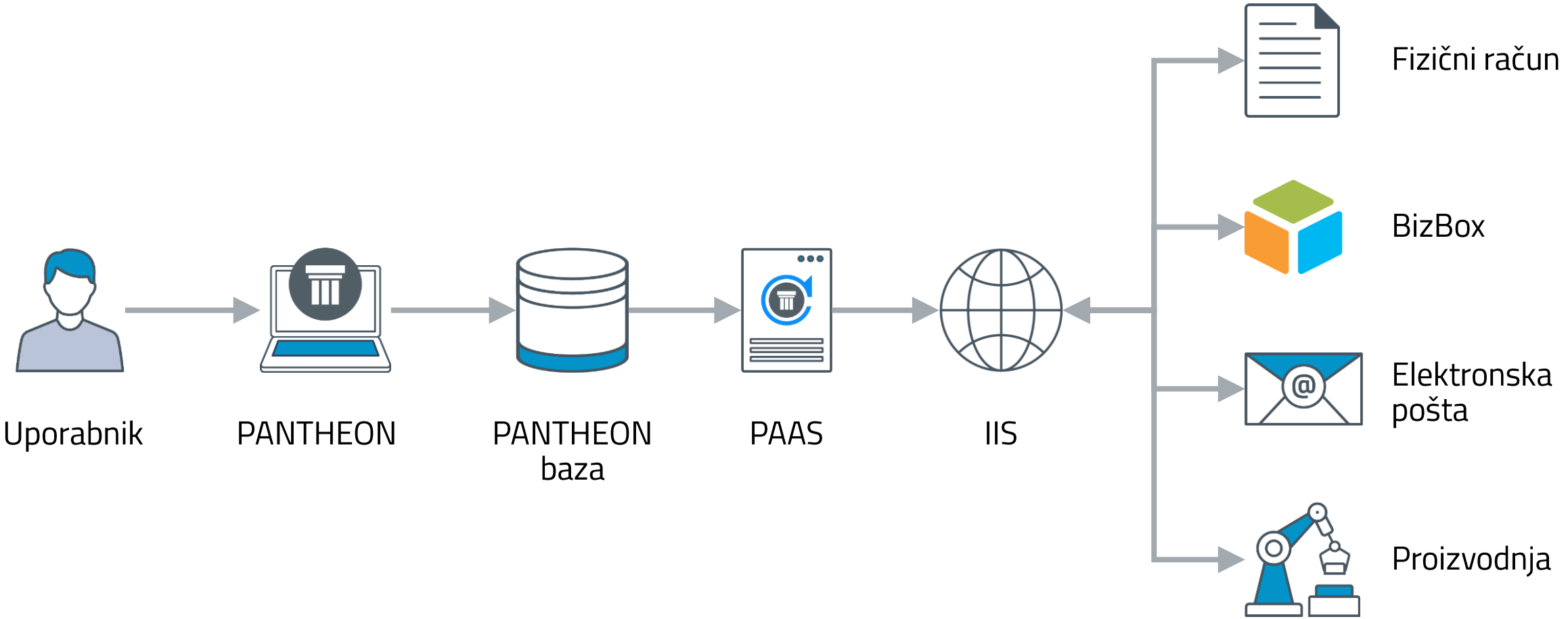
PANTHEON CONFERENCE 2022







Nabiralniki



Paketi za hrambo dokumentov

PANTHEON CONFERENCE 2022

Naročnina in izbran paket hrambe:

Naročnina eDokumentacija	Paket eDokumentacija	Paket Certificirana eDokumentacija*	Paket Lokalna eDokumentacija
9,90 € /mesec	OD 2,90 € /mesec	OD 9,90 € /mesec	OD 129,90 € /mesec

Potrebna je samo **ena naročnina na podjetje**, ne glede na izbrane pakete.

Naročila na Uporabniških straneh > Moji podatki > Naročila dodatnih storitev > ePoslovanje > **eDokumentacija**

* Na voljo v Sloveniji.

Paketi za izmenjavo elektronskih dokumentov*

PANTHEON CONFERENCE 2022

Mesečni paketi	Predplačniški paketi
OD	OD
9,90 €	**20,00 €**
/mesec	/paket

Predplačniški paket
ni časovno omejen.

V paketih so zajete transakcije različnih dokumentov od **eRačuna, eNaročila, eDobavnice** …

Naročila na Uporabniških straneh > Moji podatki > Naročila dodatnih storitev > ePoslovanje > **eRačuni**

*Navedeni paketi in cene veljajo za Slovenijo. Za ostale države so informacije o paketih dostopne na lokalni spletni strani Datalaba.

PANTHEON 25 YEARS ANNIVERSARY

PANTHEON CONFERENCE 2022

INTERNATIONAL CONFERENCE 2022

KEYNOTE

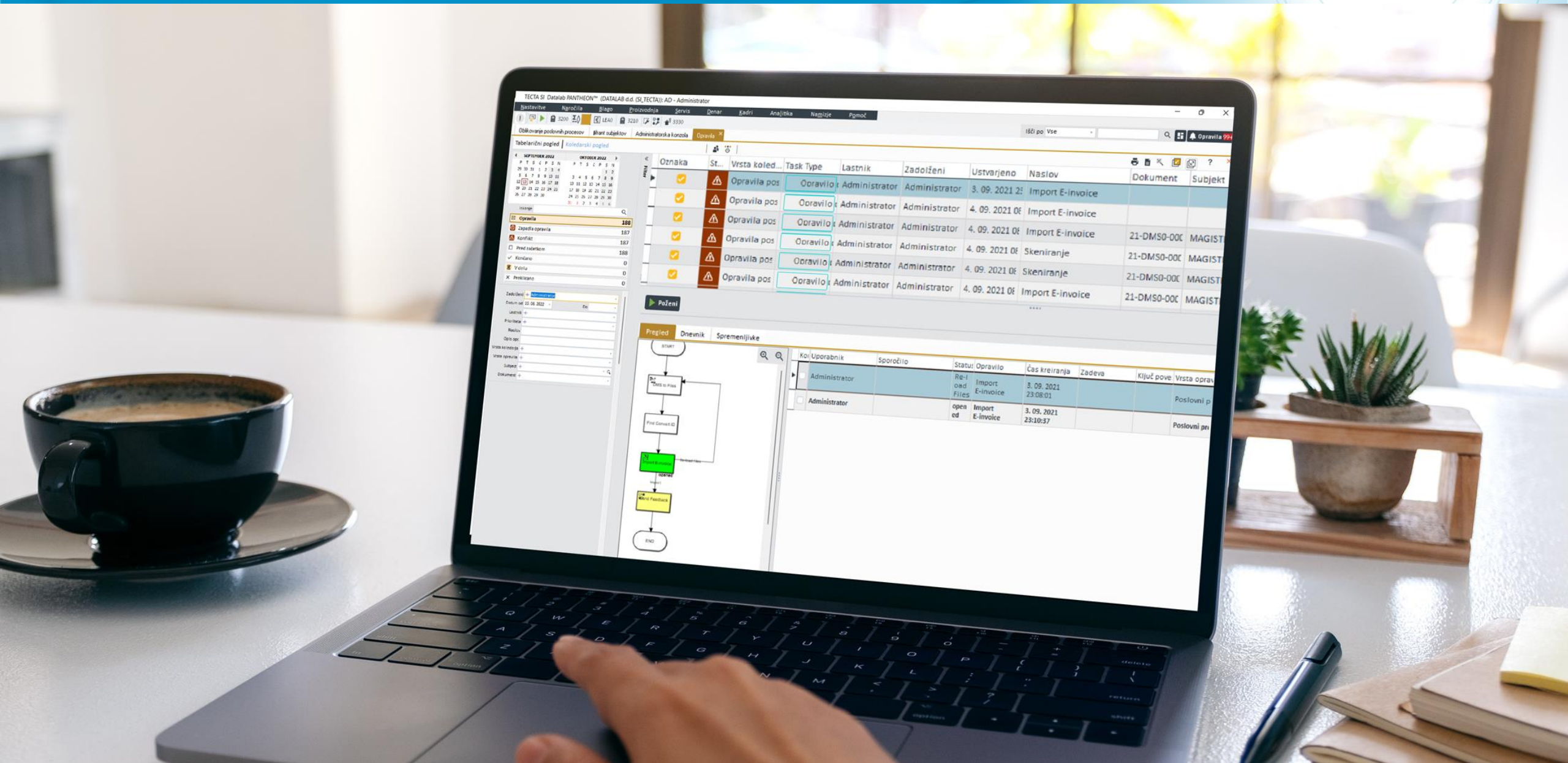
ENOSTAVNO UPRAVLJANJE OPRAVIL V PODJETJU

Simon Pangeršič, Datalab SI

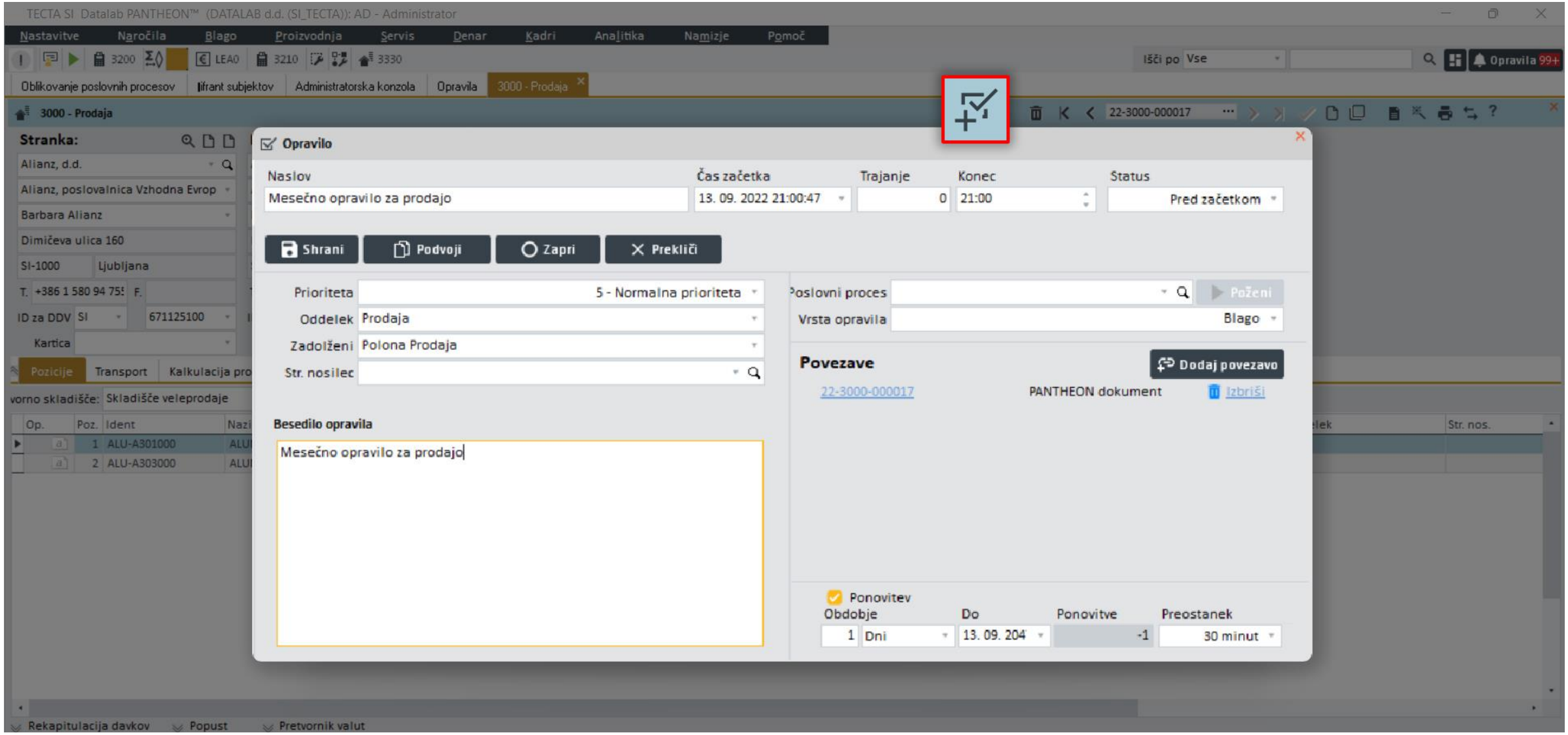
PANTHEON HANDS-ON

Prenovljena forma opravil

PANTHEON CONFERENCE 2022

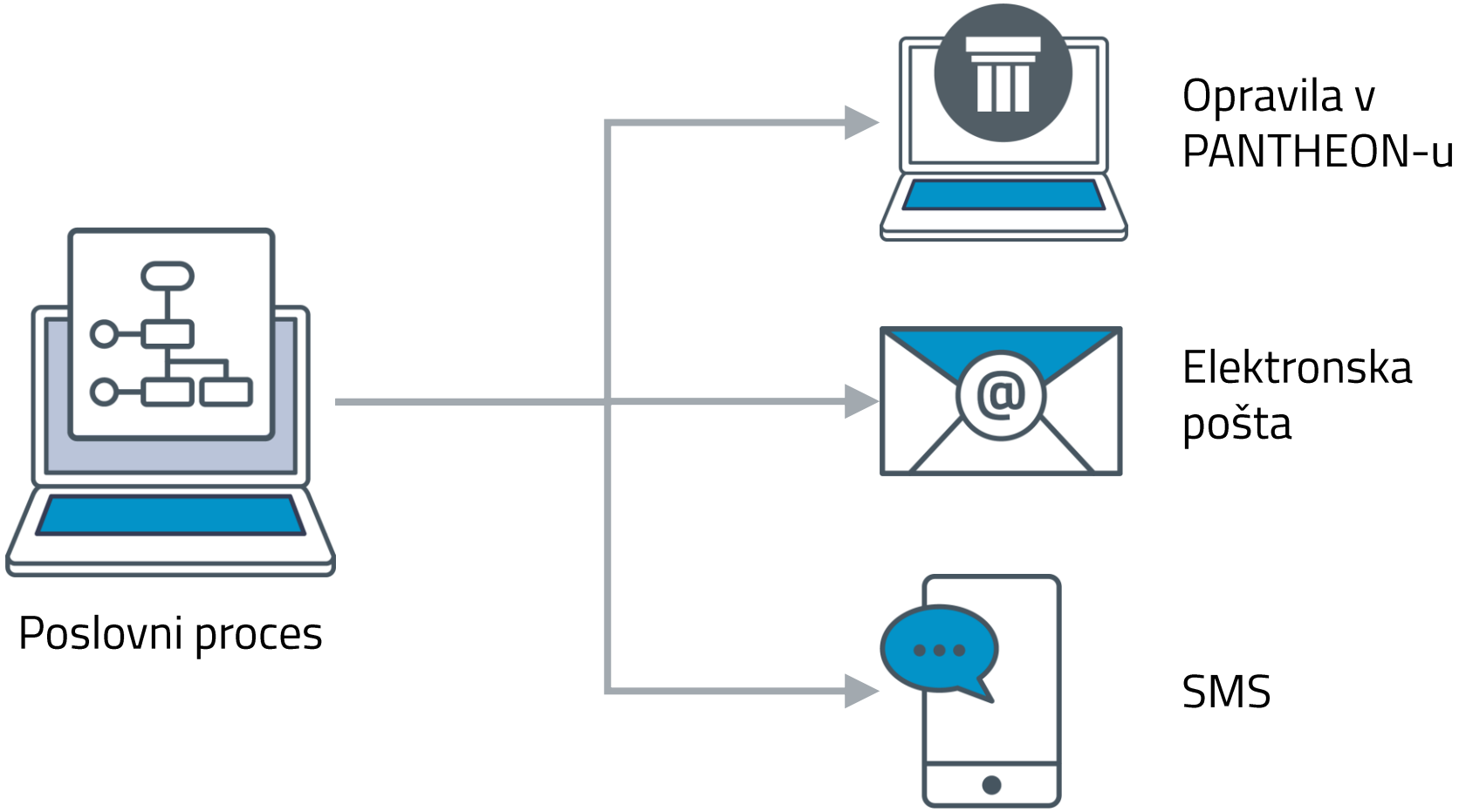


Kreiranje opravil



Obveščanje o odprtih opravilih

Preko poslovnega procesa je obveščanje omogočeno preko opravil, e-pošte ali SMS sporočil.



eSMS paketi

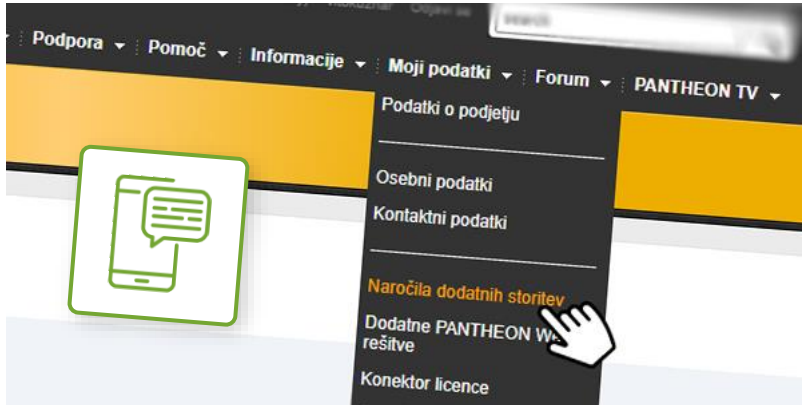
PANTHEON CONFERENCE 2022

eSMS Mikro	eSMS Mini	eSMS custom
100 SMS-ov	500 SMS-ov	Za naročilo večje količine kontaktirajte Datalab
10,00 €	**45,00 €**	

Predplačniški paket
Ni časovno omejen.

Aktivno obveščanje uporabnikov o zapadlih terjatvah, zaključenem servisnem nalogu...

Naročila na Uporabniških straneh > Moji podatki > Naročila dodatnih storitev > ePoslovanje > **eSMS**



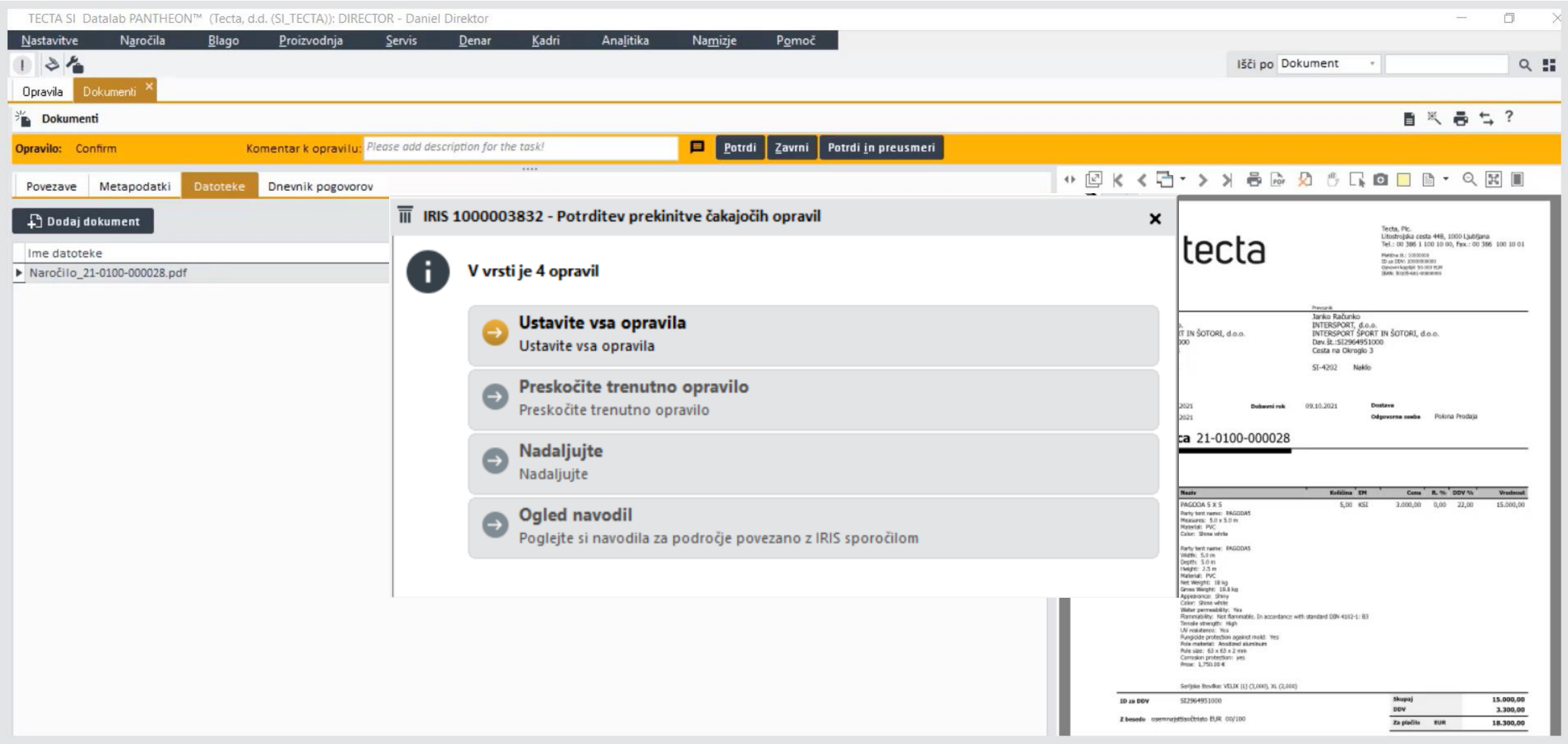
Zagon opravil

PANTHEON CONFERENCE 2022

Oznaka	Sta...	Vrsta kole...	Task Type	Lastnik	Zadolženi	Ustvarjeno	Naslov	Dokument	Subjekt	Znesek	Prioriteta	Rok
☑	⚠	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 0ᑊ	Skeniranje				5 - Normali	4.09.2021
☐	✓	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 0ᑊ	Import E-invoice				5 - Normali	4.09.2021
☑	⚠	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 0ᑊ	Import E-invoice				5 - Normali	4.09.2021
☑	⚠	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 0ᑊ	Import E-invoice				5 - Normali	4.09.2021
☐	✓	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 0ᑊ	Import E-invoice				5 - Normali	4.09.2021
☐	✓	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 0ᑊ	Import E-invoice				5 - Normali	4.09.2021
☐	✓	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 0ᑊ	Import E-invoice				5 - Normali	4.09.2021
☐	✓	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 1(	Import E-invoice				5 - Normali	4.09.2021
☑	⚠	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 1(	Import E-invoice				5 - Normali	4.09.2021
☐	✓	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 1(	Import E-invoice				5 - Normali	4.09.2021
☑	⚠	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 1(	Import E-invoice				5 - Normali	4.09.2021
☐	✓	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 1(	Import E-invoice				5 - Normali	4.09.2021
☑	⚠	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 1ᑊ	Uvoz bančnih izpiskc				5 - Normali	4.09.2021
☑	⚠	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 1ᑊ	Uvoz bančnih izpiskc				5 - Normali	4.09.2021
☑	⚠	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 1ᑊ	Uvoz bančnih izpiskc				5 - Normali	4.09.2021
☑	⚠	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 1ᑊ	Uvoz bančnih izpiskc				5 - Normali	4.09.2021
☐	✓	Opravila pc	Opravilo	Administratc	Administratoı	4.09.2021 1ᑊ	Uvoz bančnih izpiskc				5 - Normali	4.09.2021

Poženi

Zaustavitev čakajočih opravil



Vabilo na delavnico

PANTHEON CONFERENCE 2022

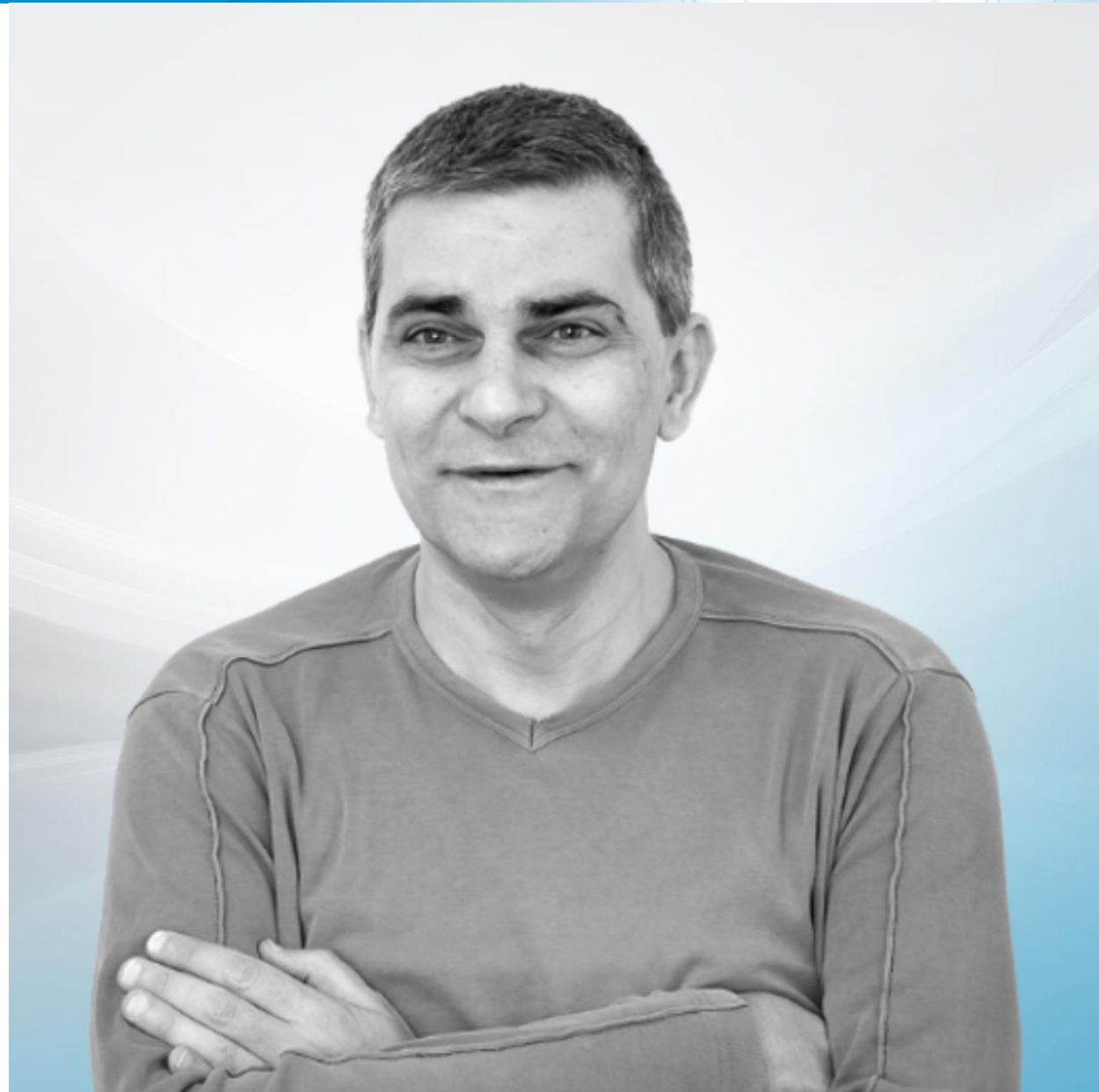
HALL 2

MANAGEMENT AND BEST PRACTICE

Friday, 10:40–11:25

ORGANIZING AND APPROVING DOCUMENTATION USING WORKFLOW IN THE UNIJA ACCOUNTING PRACTICE

Vladimir Paunović, Datalab SR



PANTHEON 25 YEARS ANNIVERSARY

PANTHEON CONFERENCE 2022

INTERNATIONAL CONFERENCE 2022

KEYNOTE

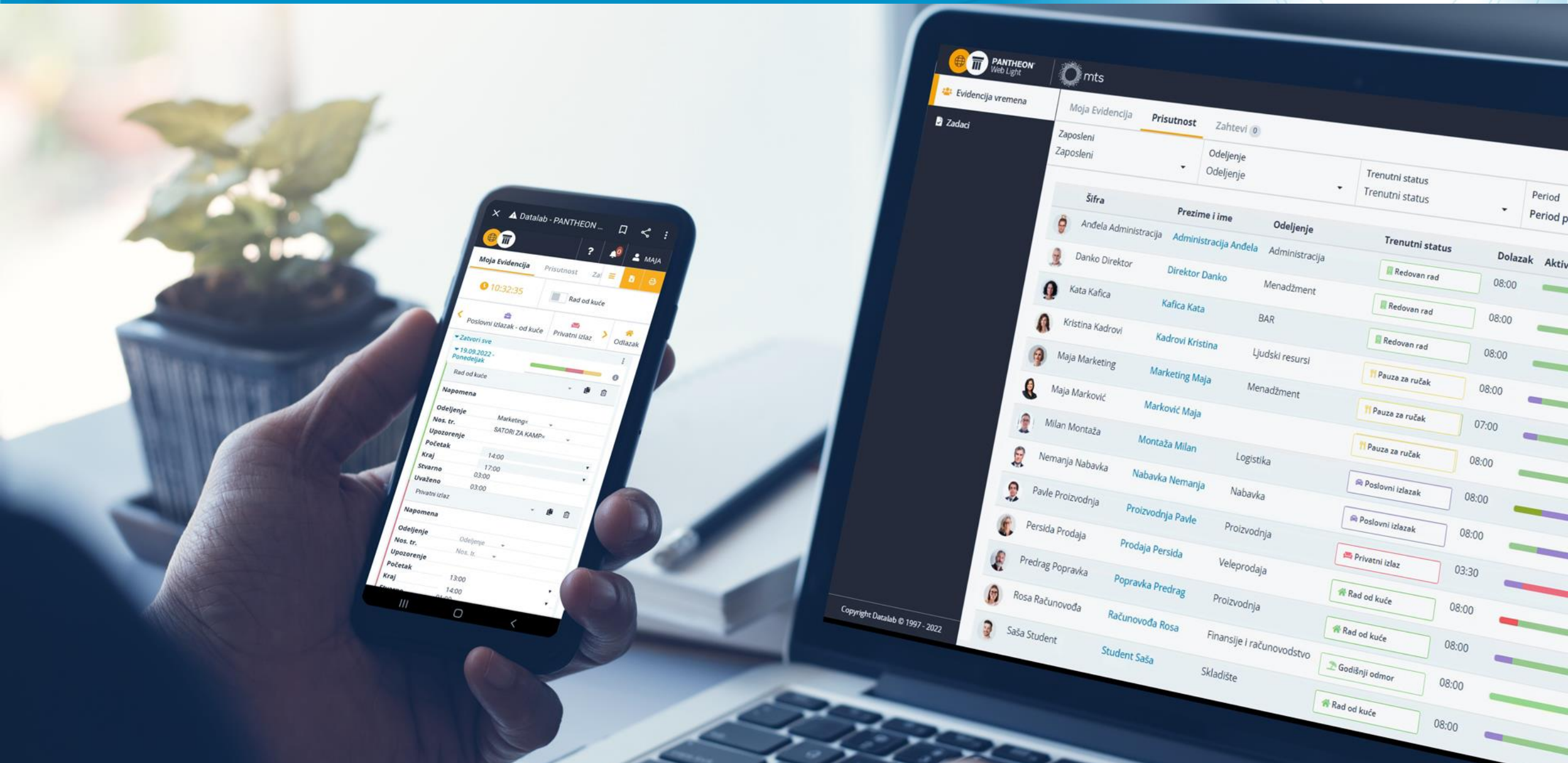
SA BILO KOG MESTA, U BILO KOJE VREME, POSLOVANJE UZ WEB LIGHT

Dejan Kontić,
Datalab RS

PANTHEON HANDS-ON

Opšte o Web Light granulama

PANTHEON CONFERENCE 2022



Vrste granula i cene

PANTHEON CONFERENCE 2022

GRANULE

Evidencija radnog vremena

Putni nalozi

Dokumenti i zadaci

ZEUS izveštaji i analize

B2B naručivanje

2,00 € / mesečno / korisnik

POSEBNA PONUDA

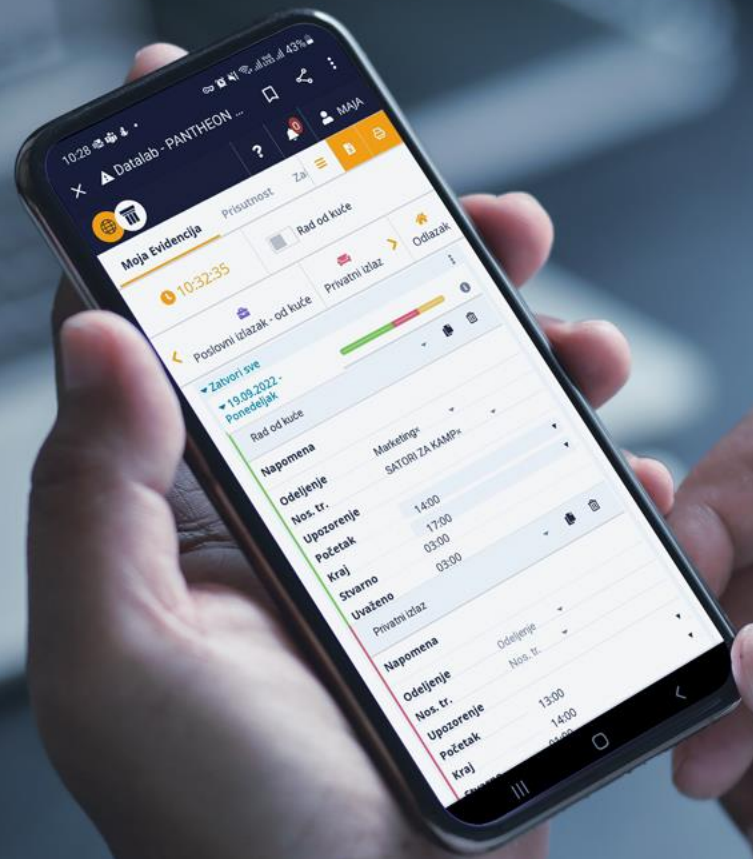
- **Besplatna upotreba GRANULA** do 30.6.2023
- **Besplatno WebLight** licenca do 31.12.2022.

Za naručivanja do 15.10.2022.

GRANULA:

Evidencija radnog vremena

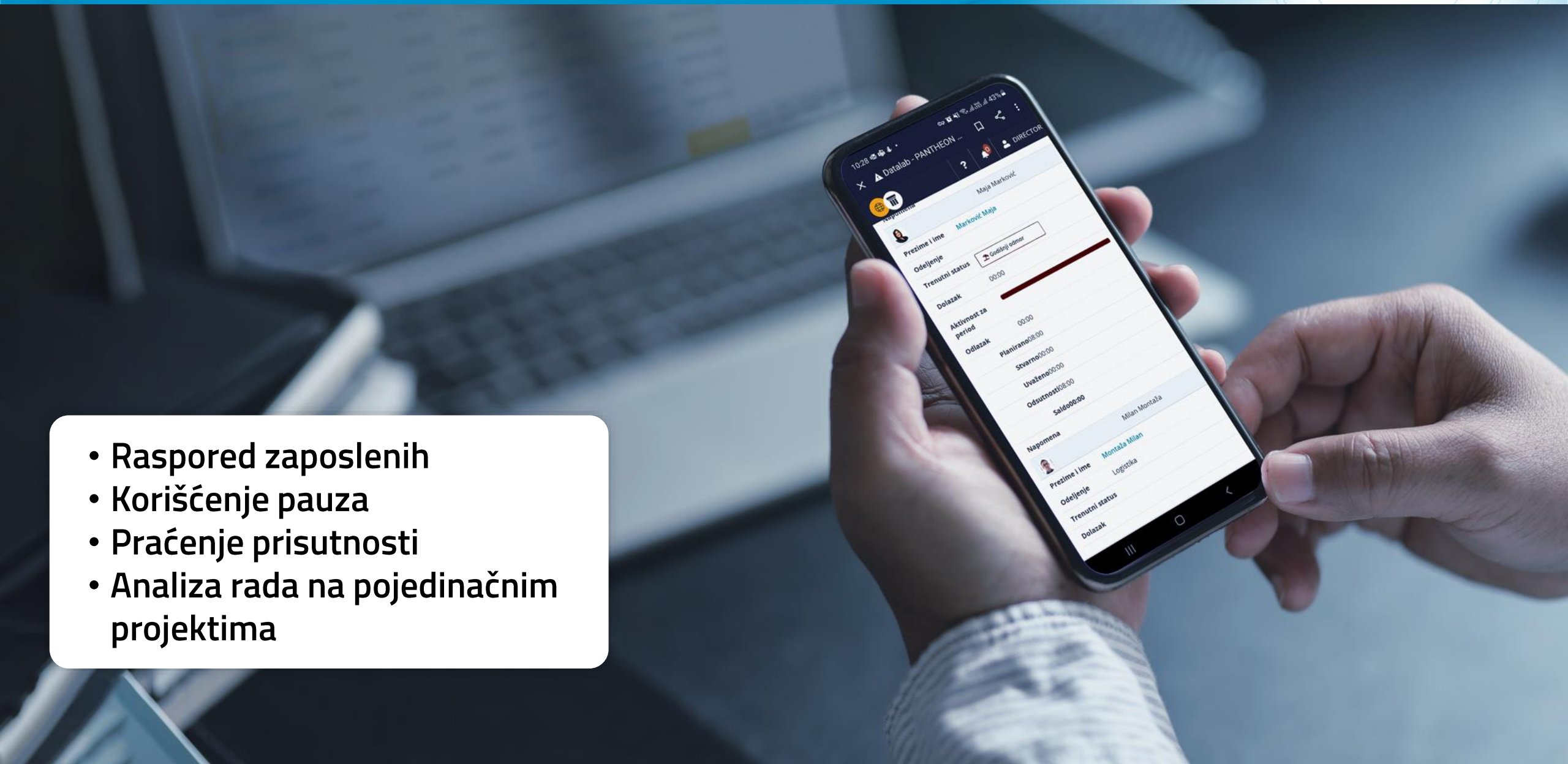
PANTHEON CONFERENCE 2022



- Elektronska evidencija radnog vremena
- U bilo koje vreme i sa bilo kog mesta
- Prilagođeno za rad od kuće
- Pregled u realnom vremenu

Pregled prisutnosti

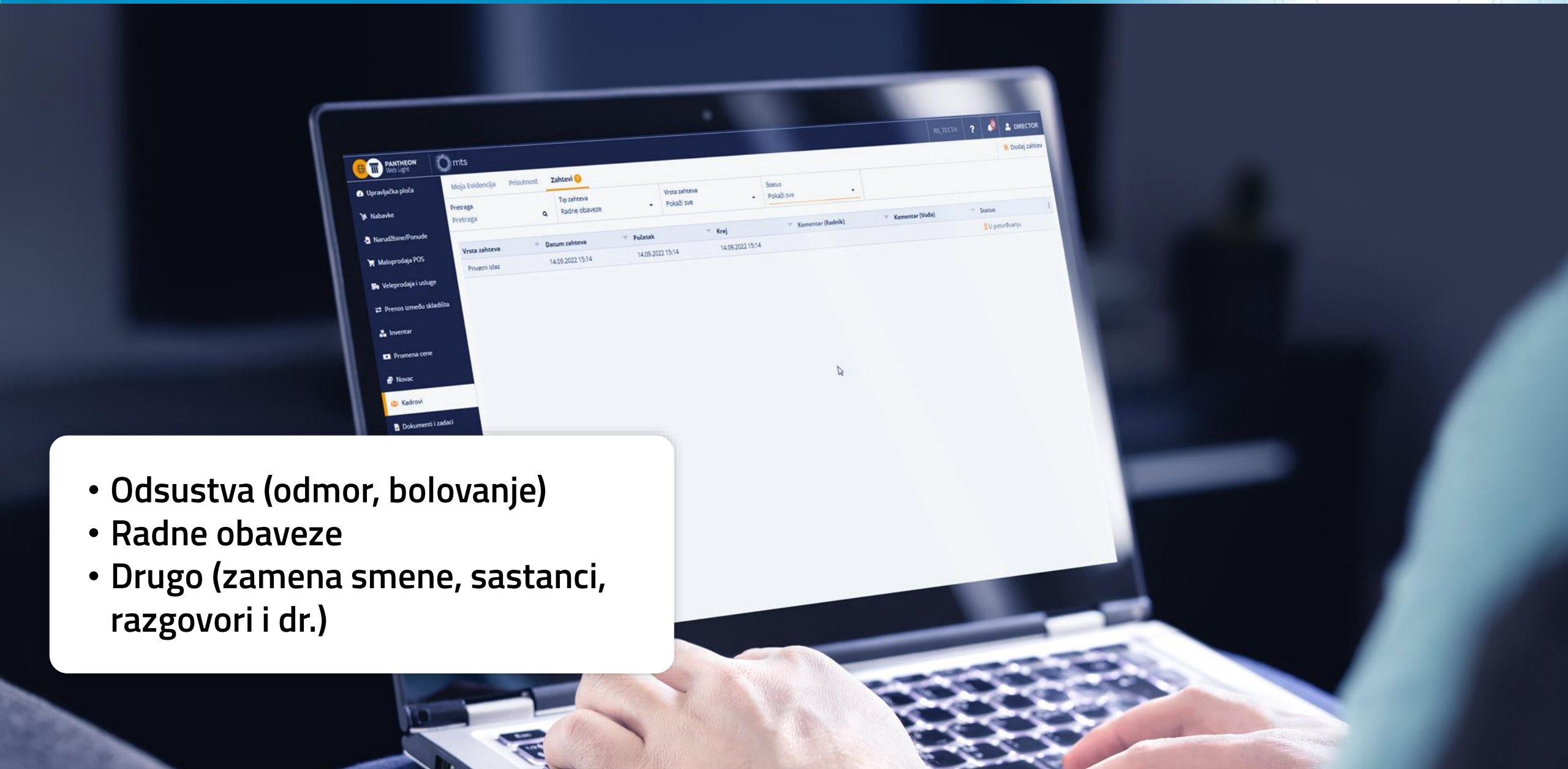
PANTHEON CONFERENCE 2022



- Raspored zaposlenih
- Korišćenje pauza
- Praćenje prisutnosti
- Analiza rada na pojedinačnim projektima

Potvrđivanje zahteva u Evidenciji radnog vremena

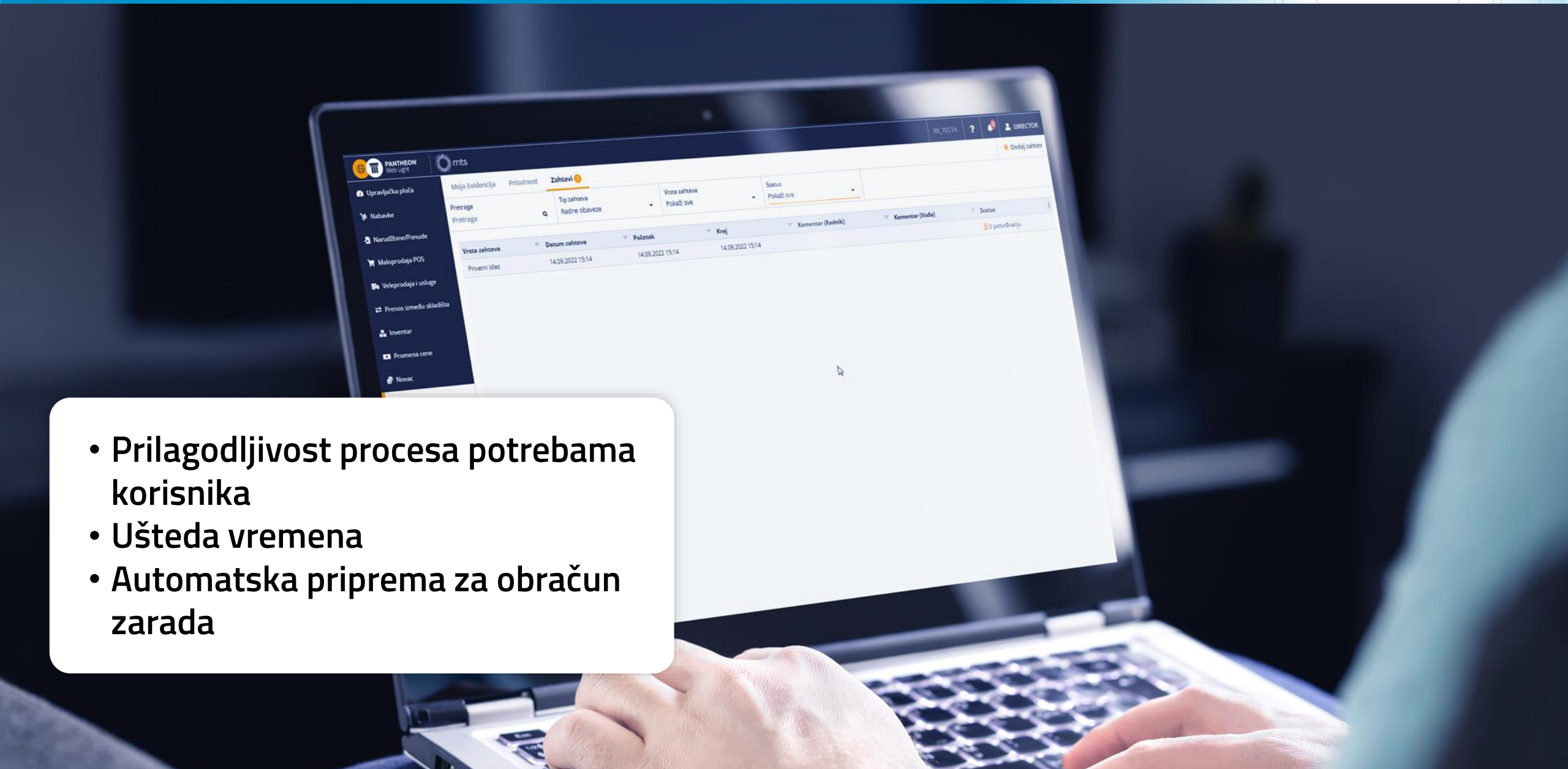
PANTHEON CONFERENCE 2022



- Odsustva (odmor, bolovanje)
- Radne obaveze
- Drugo (zamena smene, sastanci, razgovori i dr.)

Potvrđivanje zahteva u Evidenciji radnog vremena

PANTHEON CONFERENCE 2022

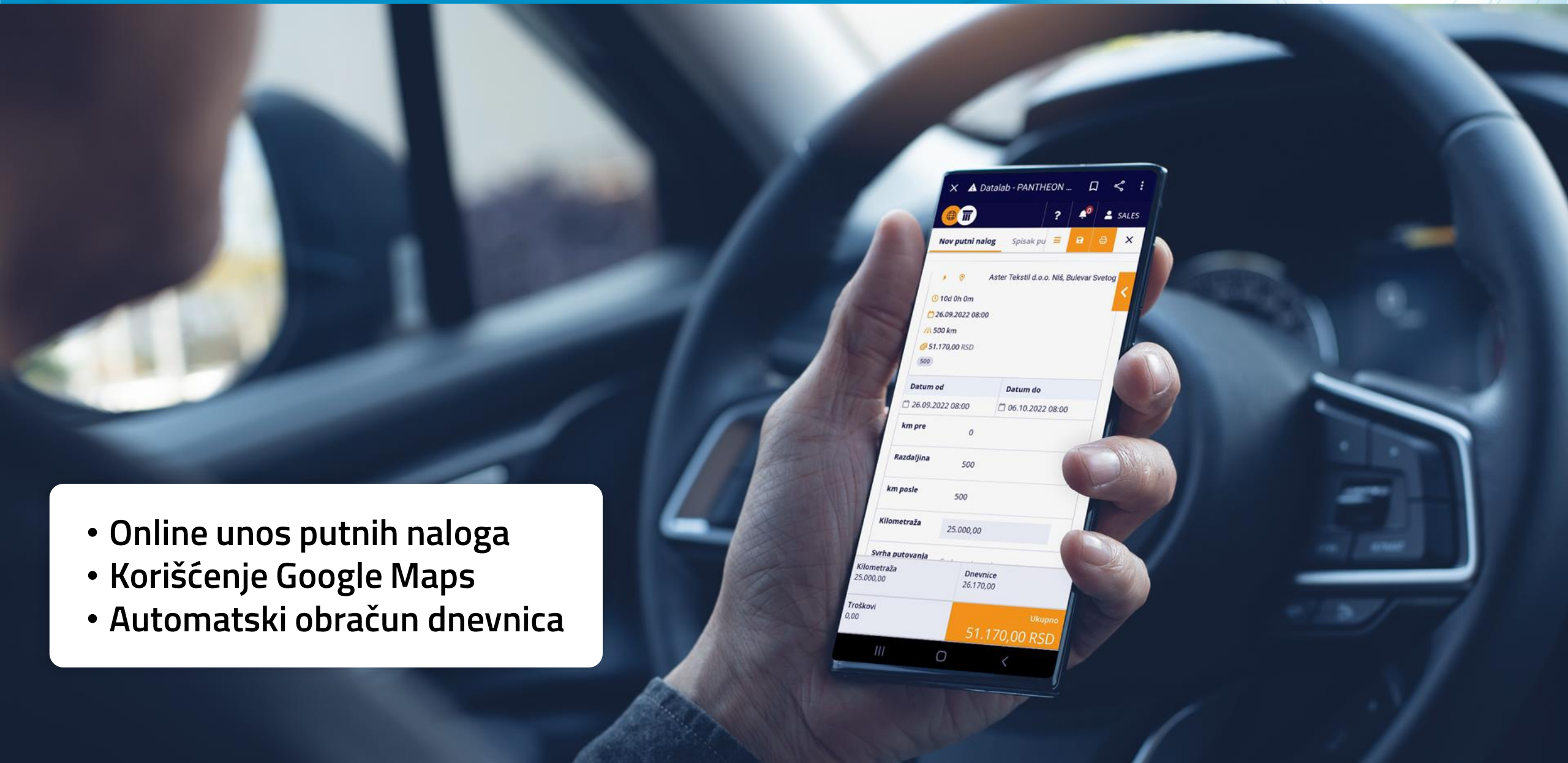


- Prilagodljivost procesa potrebama korisnika
- Ušteda vremena
- Automatska priprema za obračun zarada

GRANULA:

Putni nalozi

PANTHEON CONFERENCE 2022



- Online unos putnih naloga
- Korišćenje Google Maps
- Automatski obračun dnevnica

GRANULA:

Dokumentacioni sistem

PANTHEON CONFERENCE 2022

- Čuvanje dokumenata u DMS (računi, ugovori, putni nalozi)
- Slikanje dokumenata telefonom
- Potvrđivanje računa i dokumenata

GRANULA:

Dokumentacioni sistem

PANTHEON CONFERENCE 2022

- Skeniranje i čuvanje (računi, ugovori, putni nalozi)
- Slikanje dokumenata telefonom
- Potvrđivanje računa i dokumenata

GRANULA:

Kontrolne table

PANTHEON CONFERENCE 2022

- Izveštaji i grafikoni na telefonu
- Dostupno sa bilo kog mesta u bilo koje vreme
- Prilagođavanje potrebama menadžmenta

GRANULA:

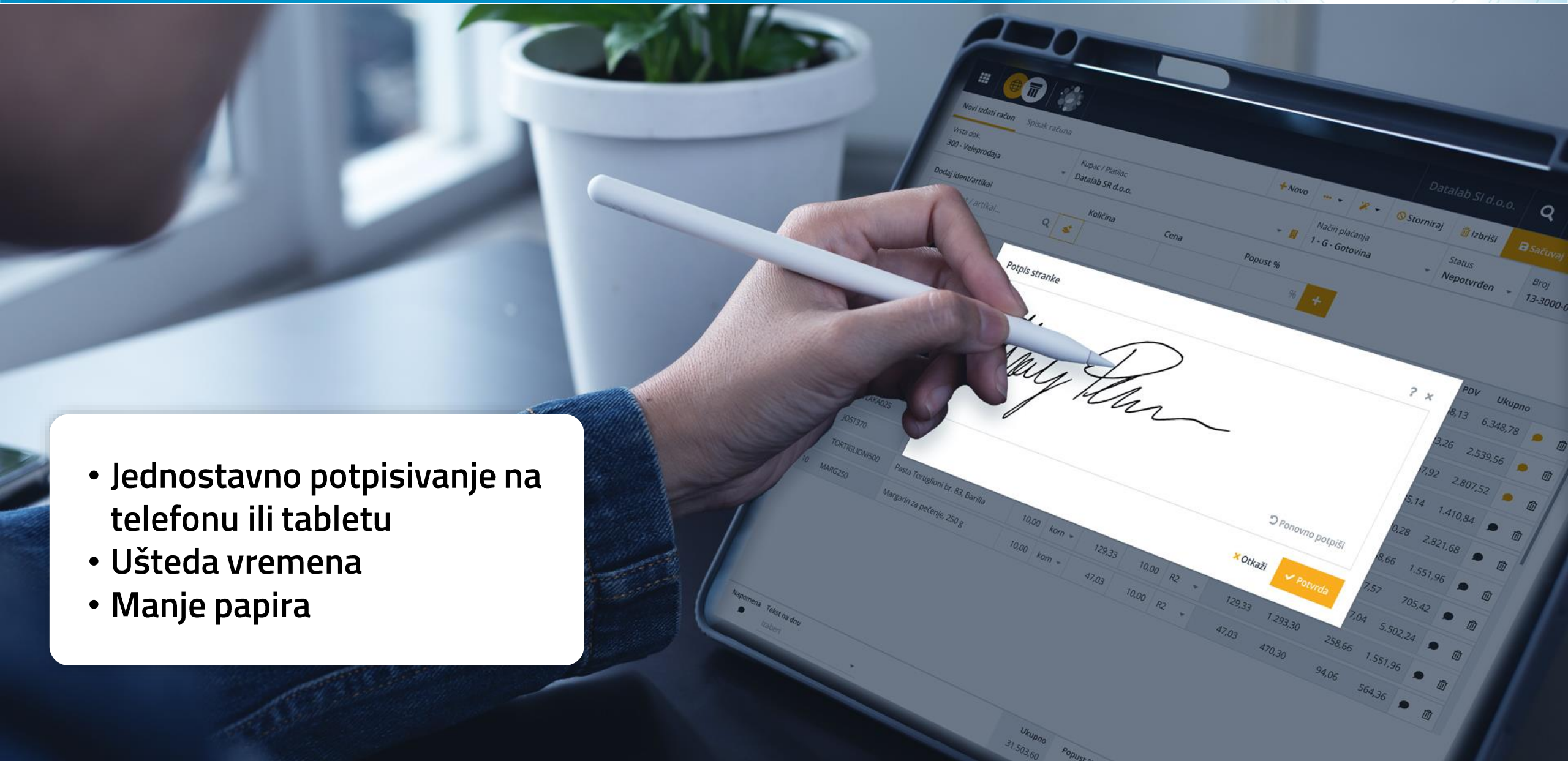
B2B

- Direktno poručivanje robe
- Online uvid u zalihe
- Automatizacia potvrđivanja porudžbenice

GRANULA:

Potpisivanje dokumenata

PANTHEON CONFERENCE 2022

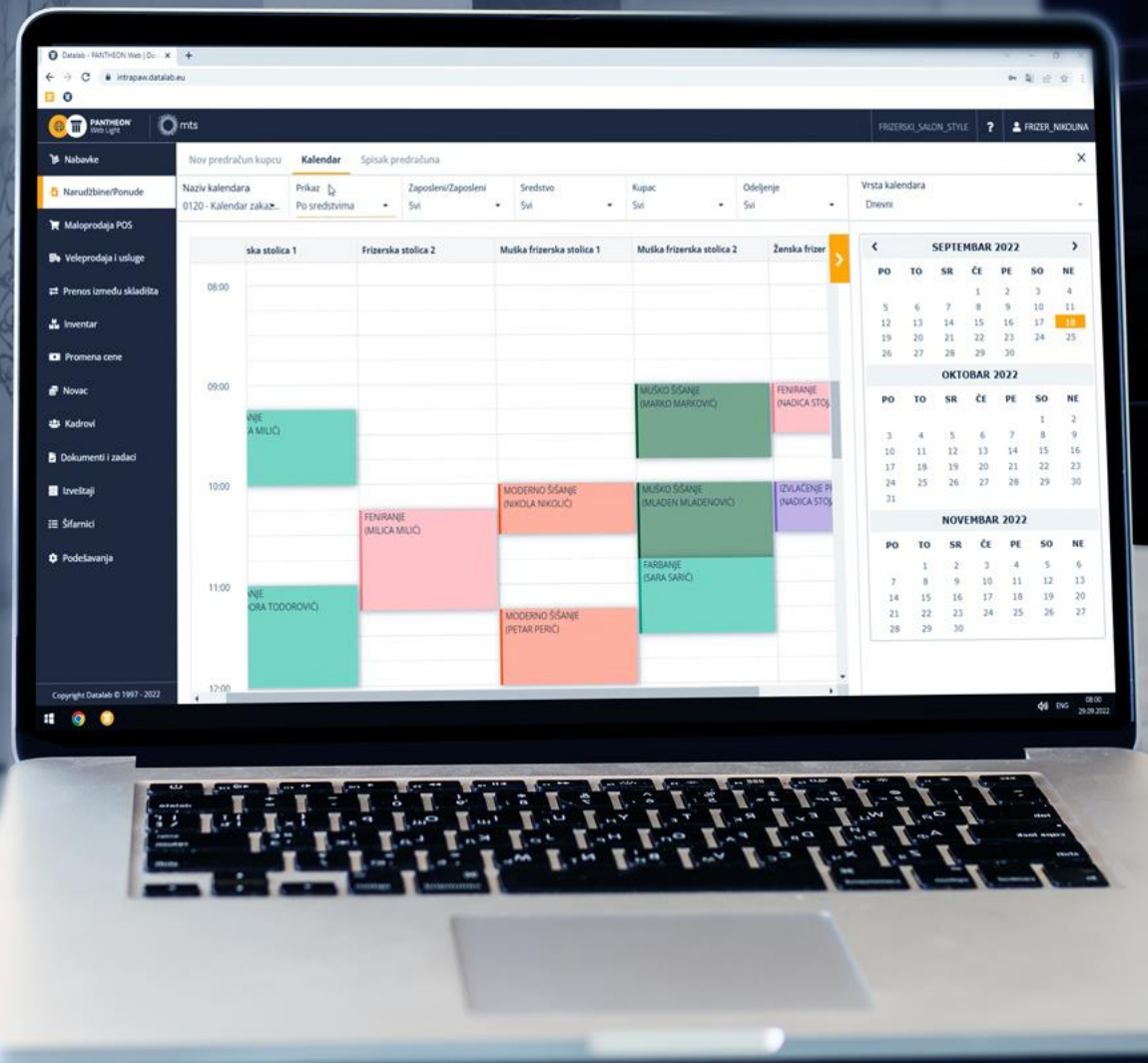


- Jednostavno potpisivanje na telefonu ili tabletu
- Ušteda vremena
- Manje papira

Kalendar naručivanja

PANTHEON CONFERENCE 2022

- Za različite delatnosti
- Jednostavno zakazivanje
- Dnevni, nedeljni, mesečni kalendar
- Pregled po zaposlenima
- Pregled po sredstvima za rad
- Jednostavna naplata usluge iz kalendara



PANTHEON 25 YEARS ANNIVERSARY

PANTHEON CONFERENCE 2022

INTERNATIONAL CONFERENCE 2022

KEYNOTE

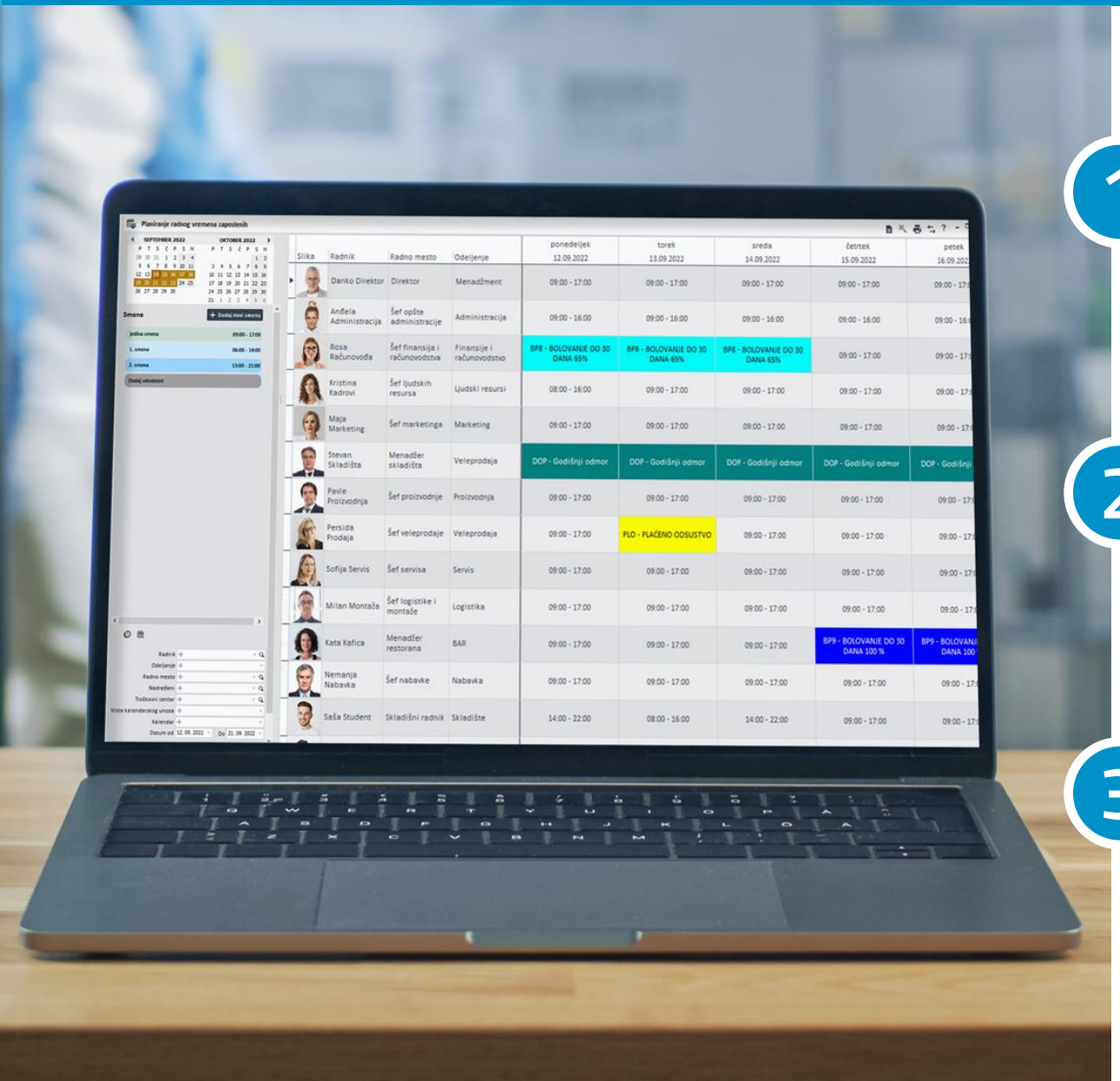
EFIKASNO PLANIRANJE U PREDUZEĆU (KALENDARI)

Bojan Popović,
Datalab SR

PANTHEON HANDS-ON

Planiranje radnog vremena

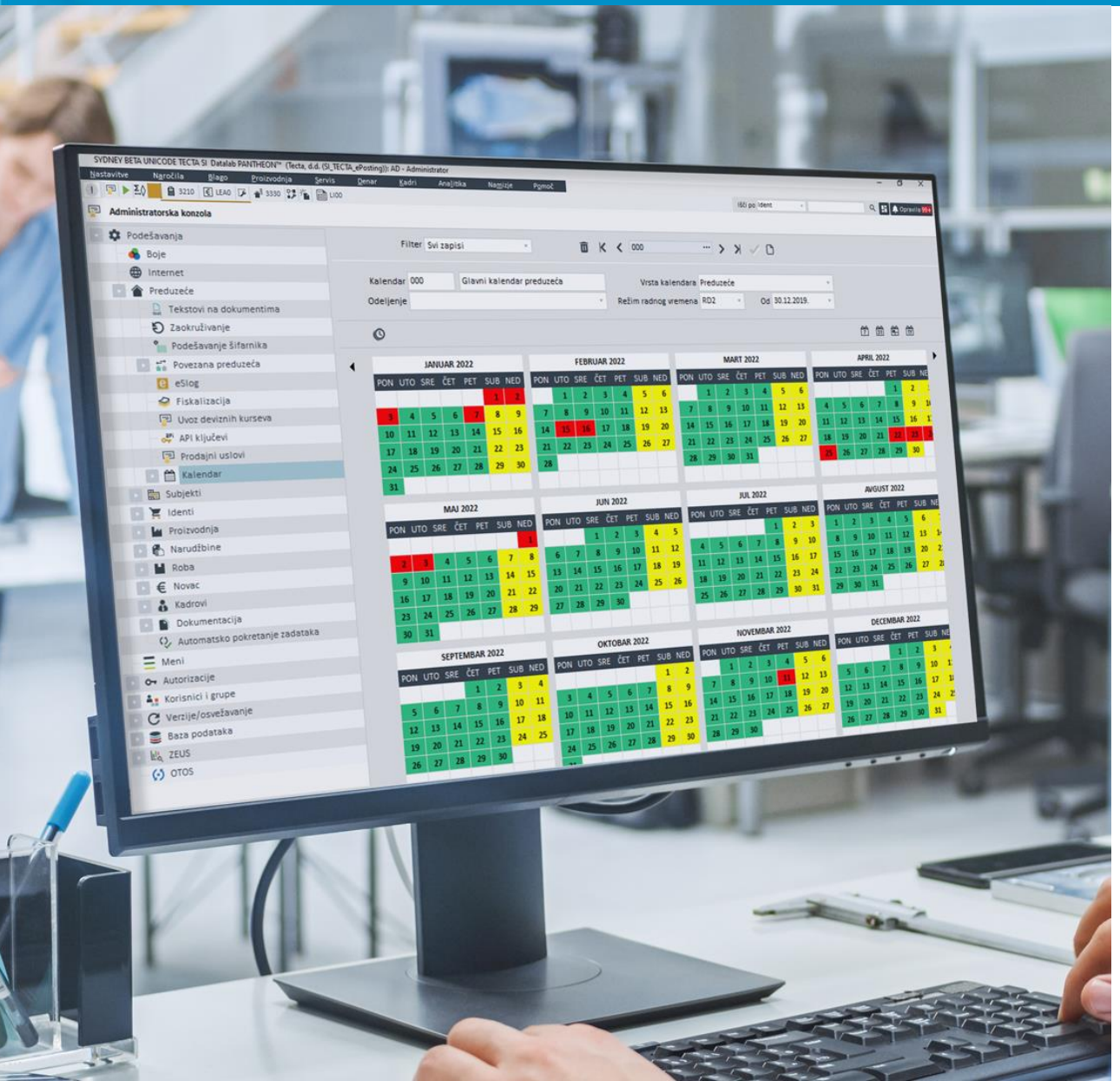
PANTHEON CONFERENCE 2022

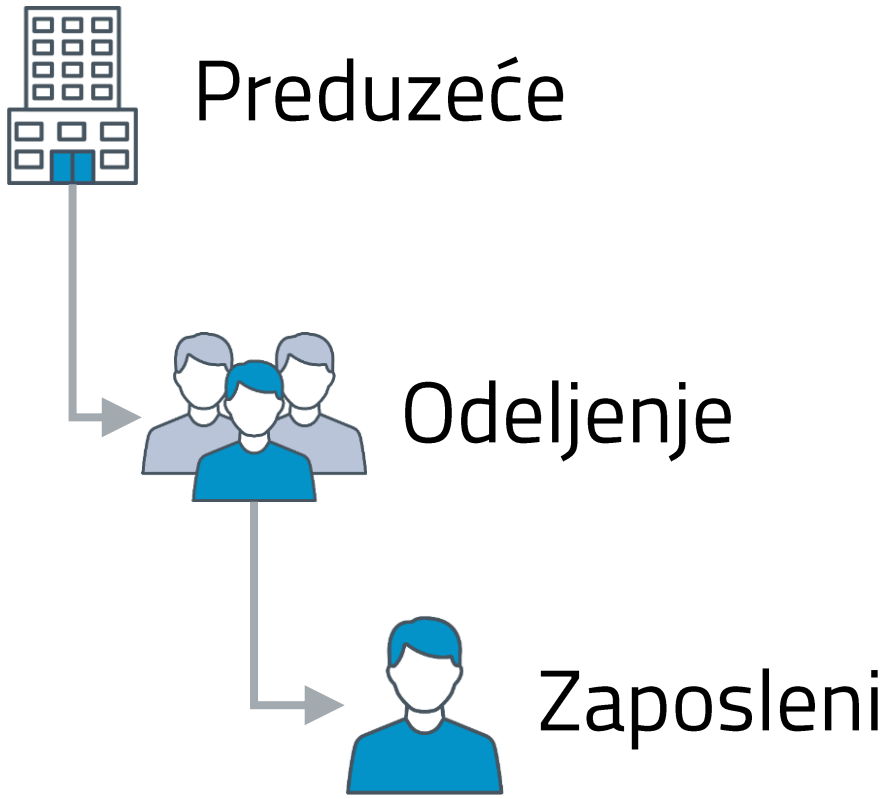


1. Javljeno bolovanje
2. Zamena zaposlenog
3. Planiranje novog zaposlenog

Kalendari zaposlenih i hijerarhijsko planiranje

PANTHEON CONFERENCE 2022





PANTHEON 25 YEARS ANNIVERSARY

PANTHEON CONFERENCE 2022

INTERNATIONAL CONFERENCE 2022

KEYNOTE

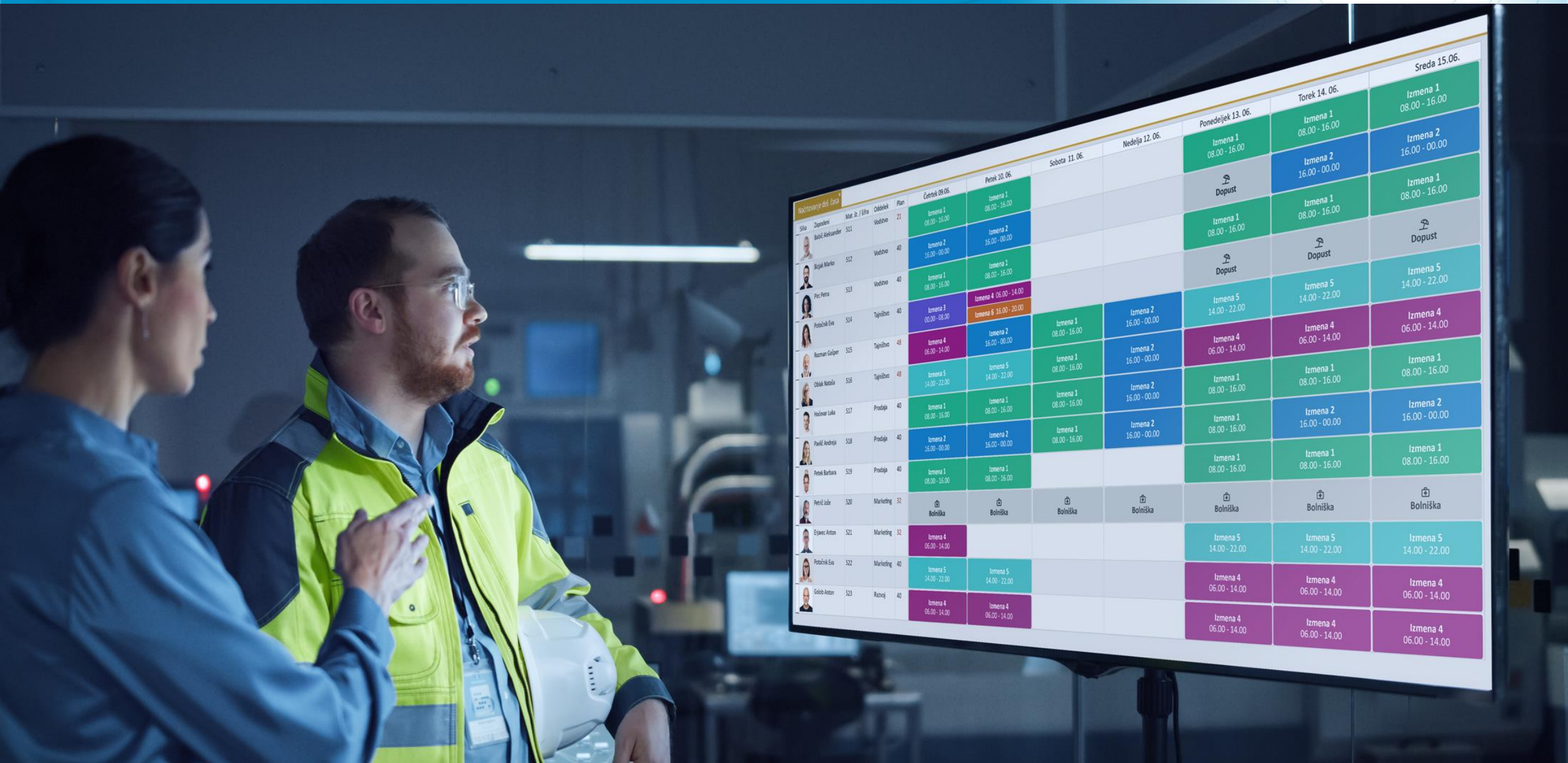
PLANIRANJE V PROIZVODNJI

Jasna Rihter,
Datalab Tehnologije d.d.

PANTHEON HANDS-ON

Načrtovanje dela zaposlenih v proizvodnji

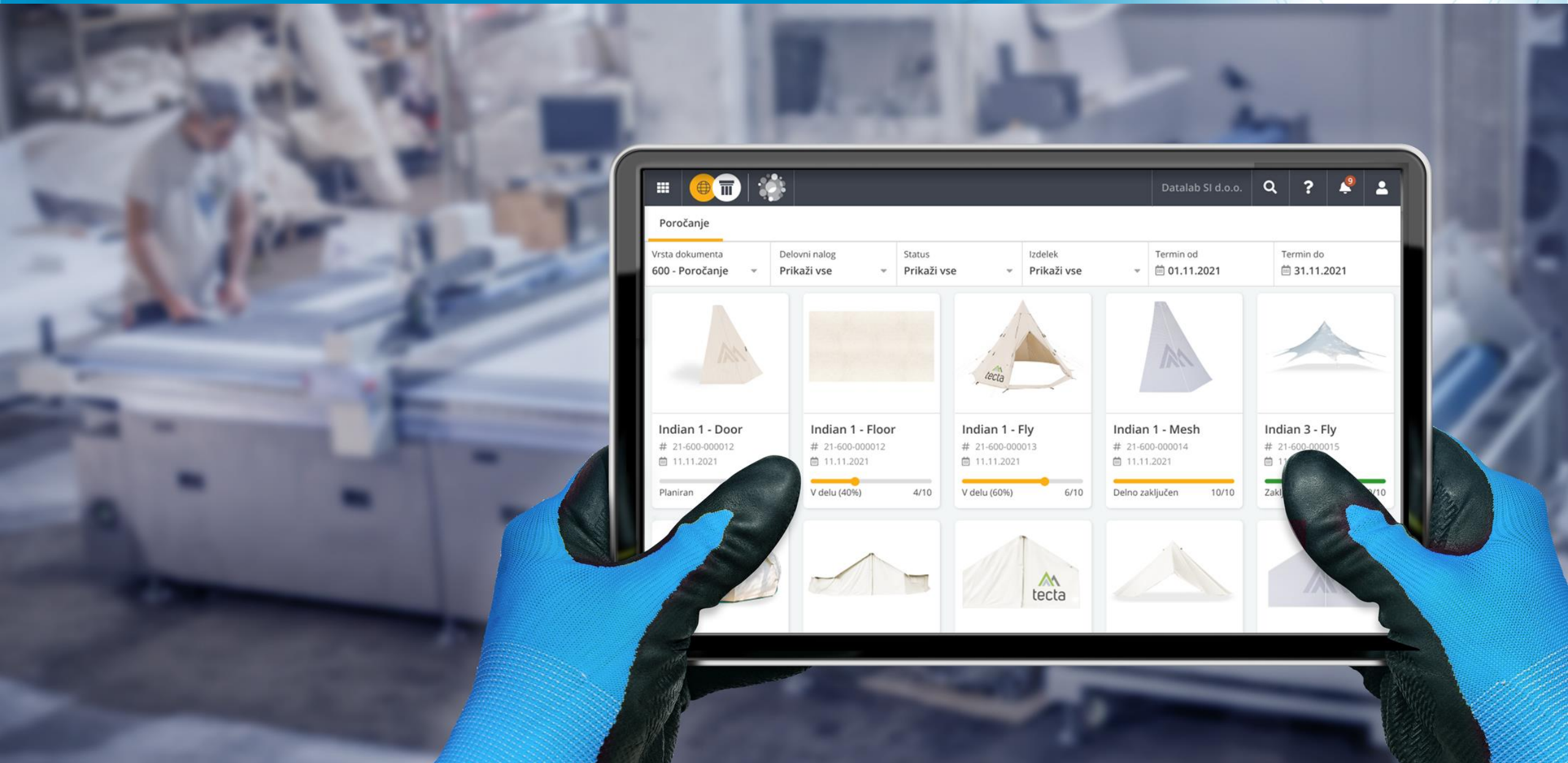
PANTHEON CONFERENCE 2022



Dnevni plan

PANTHEON CONFERENCE 2022

RESURS	1. IZMENA	Prenos	2. IZMENA	Prenos	3. IZMENA

Izdelava delovnih nalogov v modulu PANTHEON MT

PANTHEON CONFERENCE 2022