



South-East Europe Strategic Alliance for Rail Innovation (SEESARI)

11th TC on Railways, Skopje 10.02.2022

SEESARI - South-East Europe Strategic Alliance for Rail Innovation

SEESARI is the initiative for supporting rail and transport development in South East Europe with focusing on railway research, development and innovation

Partnership:

=> currently **more than 70 members from 18 countries** (railway transport operators and infrastructure managers, manufacturers and suppliers of technical equipment, financial institutions, research institutions, associations and interest groups connected with (rail) transport, national and regional authorities,..)



SEESARI – MAIN PRIORITIES

HIGH SPEED RAIL
NETWORK

INTERGATION OF
PASSENGER
TRANSPORT

REGIONAL RAILWAY
NETWORK

RAILWAY ROLLING
STOCK

INTEROPETABILITY
AND TECHNICAL
STANDARDS

SOCIAL COMPONENT/
HUMAN RESOURCES

COOPERATION IN
FREIGHT TRANSPORT

DIGITALIZATION
ENERGY EFFICIENCY
SUSTAINABILITY

SEESARI – concrete project proposals

SEESARI - Innovation and development projects

- Ticketing and reservation system (SEPA)
- Electronic timetable and optimization
- Real-time tracking of trains
- Regional education centre for the development of knowledge of managers and experts
- Maintenance and standardization based on rail diagnostics
- Integrated railway traffic management

SUPPORT/COOPERATION WITH INTERNATIONAL ORGANIZATIONS

=> Full support of International Union of Railways

- Special group
- Technical support, promotion, leadership EU projects



=> Support of Community of European Railways



*The Voice
of European
Railways*



=> Support and cooperation with SHIFT2RAIL



“SEESARI – FASILITATION ROLE”



WORKING MATERIALS
INTERNATIONAL TRAINS IN BALKAN PENINSOLA

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IMMEDIATELYCAN BE ADD TO TIMETABLE

„EXTEND“ EXISTING TRAIN

210/211 : **BEOGRAD** - VINKOVCI – LJ - VILLACH

SUGGESTED COMPOSITION: 2 B (HŽ) + 2 B (SŽ) + 1 AB (SŽ)

CAN BE EXTEND TO BEOGRAD

BEOGRAD :	07:00
ZAGREB:	12:39
LJUBLJANA:	15:06
VILLACH:	17:08

VILLACH:	12:53
LJUBLJANA:	14:31
ZAGREB:	17:07
BEOGRAD:	23:00

FROM JULY 2022**CAN BE ADD TO TIMETABLE** NEW TRAN, ADD TO „EXTEND“ EXISTING TRAIN

410/411 : **BEOGRAD – ZAGREB - LJ - VILLACH**

SUGGESTED COMPOSITION: **1 AB (HŽ) + 2 B (SŽ) + 2 B (HŽ)**

na relaciji Dobova – Beljak / **3 B(SŽ) + 1BC(Optima**)** na relaciji Beograd – Dobova*

CAN BE EXTEND TO BEOGRAD THROUGH ZAGREB

BEOGRAD :	22:00
ZAGREB:	04:45
LJUBLJANA:	07:17
VILLACH:	09:03

VILLACH:	18:48
LJUBLJANA:	20:33
ZAGREB:	23:30
BEOGRAD:	06:00

*vlak vozi v obdobju 10.12 – 15.01 ter 24.06 – 15.09., **BC vozi le v obdobju 24.06. – 15.09.; vlak vozi v obdobju 10.12 – 15.01 v kolikor ga ponudijo druge železniške uprave

2022/2023**CAN BE ADD TO TIMETABLE**

„EXTEND“ EXISTING TRAIN

414/415 RELATION : **BEOGRAD** - ZAGREB – LJ - ZURICH

SUGGESTED COMPOSITION: 1 B (SŽ/HŽ) + 3 B (SŽ) + 2 B (HŽ)

CAN BE EXTEND TO BEOGRAD

BEOGRAD :	10:34
ZAGREB:	18:11
LJUBLJANA:	20:54
VILLACH:	22:49

VILLACH:	06:28
LJUBLJANA:	08:09
ZAGREB:	10:40
BEOGRAD:	17:38

2022/2023CAN BE ADD TO TIMETABLE

NEW TRAIN

BUSINESS RELATION : **LJUBLJANA - BEOGRAD**

SUGGESTED COMPOSITION: **1 A (SŽ) + 2 B (SŽ) + WB (SŽ)**

ALL AIR CONDITIONED

LJUBLJANA :	05:15
ZAGREB:	07:25
BEOGRAD:	12:00

BEOGRAD:	18:00
ZAGREB :	22:35
LJUBLJANA:	00:45

NUMBER OF STOPS LIMITED :

SLO ZIDANI MOST, SEVNICA, DOBOVA

CRO ZAGREB, NOVSKA, SLAVONSKI BROD, VINKOVCI

SRB ŠID, RUMA, STARA PAZOVA



*South East Europe
Strategic Alliance for Rail Innovation*

SEPA –
OPPORTUNITIES AND CHALLENGES IN PUBLIC TRANSPORT

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EUROPEAN RESERVATION SYSTEMS

European railways' reservation systems are all interconnected and create a network which, for the end user, looks like a single reservation system.

Besides being reservation systems (for selling inventory), they are able to handle IRT tickets (tickets with integrated reservation). Thus, they also act as ticketing systems.

SEPA INITIATIVE AS SEESARI PROJECT

SEESARI officially launched SEPA initiative on April 18th, 2019 in Ljubljana

Digital platform for railway reservations model

Fully functional replacement for EPA

Reliable support for all SEPA partners

1

Railway reservation system

2

SEPA as a **full IRIS member**

3

SEESARI as top governance body

Open architecture ready for future extension to OSDM and other areas

Full support for existing (and future) industry standards

Former EPA partners can use connection interface compatible to EPA

SEPA NOW IS NOT ONLY YET ANOTHER RESERVATION SYSTEM

SEPA is a platform which can act not only as a reservation system, but also as a connectivity tool or standalone ticketing system.

FOR EXAMPLE.. SEPA CAN :

1. Providing connectivity to other ticketing systems (e.g. DB Webservices)
2. Providing services of UIC backed projects (ETCD electronic tickets)
3. Providing services of other companies (EURAIL, other transport modes)
4. Providing centralized NRT ticketing solution using OSDM

SEPA FEATURES

Takes care of all accounting and reporting

Supports graphic reservation mode

Enables Internet and mobile sales, electronic tickets

Enables personal data exchange

Integrated and multicity ticketing, OSDM, yielded prices

Supports also other modes of transport

Direct connectivity to other ticketing systems

SEPA HELP ..

OUR SOLUTION IS OPEN FOR PARTNERSHIP

OUR PARTNERS/MEMBERS CAN USING SEPA:

- host their inventory in SEPA reservation system
- connect their ticketing systems to SEPA
- enables its partners to use the new connection interface taking full advantage of new standards, requirements and guidelines
- offers EPA compatible connection interface


SEPA SIMPLY ...

SEPA is designed to support multiple ticketing systems and inventory from different railway undertakings


SOLUTION ALLOW OUR PARTNERS/MEMBERS TO :

- cuts the expenses of running the system
- offers inherent scalability
- offers other services besides reservation system
- online reporting and tools for inventory management
- Share „important” information and news exchange among SEPA „world”

SEESARI – SEPA OBJECTIVES ARE NOW ACHIEVED

1st objective SEESARI will allow „location“ to host, maintain and manage the entire future SEPA solution. SEPA infrastructure will be physically located in Cloud solution and SEESARI take full business control over it – significantly reduced operating costs 

2nd objective is enabling „our“ partners to use full advantages of new standards, requirements and UIC guidelines without programming it in their systems 

3rd objective is to make the new reservation system flexible enough to be able to host trains from other national railway companies (like Greece,..) 

4th objective is to have a flexible accounting and reporting system as part of platform 

WHY BE/BECOME A MEMBER OF SEESARI/SEPA FAMILY

- ✓ FUNCTIONALLY REPLACES EPA AND ADDS NEW FUNCTIONALITIES (GRAPHICS, IMPROVED TARIFFS)
- ✓ **ENABLES** INTERNATIONAL INTERNET AND MOBILE SALES, ELECTRONIC TICKETS
- ✓ SOLVES ISSUES (GDPR ISSUE, PERSONAL DATA PROTECTION REQUIREMENTS)
- ✓ INTEGRATED AND MULTICITY TICKETING, OSDM ARCHIVED
- ✓ **NATIONAL TARIFFS** (LOCAL TICKETING BACKUP OR REPLACEMENT)
- ✓ **INCREASES PARTNERS' PROFIT, SIGNIFICANTLY CUT EXPENSES**

Thank you for your attention.

Dr. Peter Verlič, chairman

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Any questions?

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<http://www.seesari.org>