initCOSEERail

What future for passenger transport in the SEERAIL

Ljubljana, 04. – 05.12.2018
Content of research

Interview Research

- Interview guideline
- Transcripts
- Key points

Desktop Research

- Statistics/KPI
- Timetable Research
- Ongoing projects
Content: setting the surroundings

initCOSEERail ... Initial Research and Design for COSEERail

1: Pilot survey
2: Project concepts
3: Consortium
4: Project budget
5: Funding
6: Dissemination

Future: COSEERail

Desktop research
Interview research

Scheme of deterioration
Frequency of pax services
Speed of pax services
Pax trip lengths
Efficiency & productivity
Stop distance

Interview guideline
Transcripts
Key points

in-depth full area coverage

1) COSEERail: Challenges in improved Organization in South-Eastern European RAILways
“If you ask me, a strong railway in the political sense would mean strong state. Currently, that's not easy to achieve, but we should strive towards achieving it.” (Croatia, Infrastructure operator, HŽ Infrastructure LLC)
Desktop Research – Statistics / KPIs
1985 – 2015

- Length of the railway
- Length of the lines classified by max. speed
- Railway crossing
- Stations, signal points, etc
- Rolling materials
- Number of employees: using the same age cohorts as in the statistics
- Passenger
- Freight
- Average commercial speed
KPIs calculated and compared

Average trip length

- HRV
- FBiH
- RS

Average length [pass. km/pass.]

Year:
- 1985
- 1990
- 1995
- 2000
- 2005
- 2010
- 2015

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Schematic map: 4 lines under scrutiny

1. Ljubljana – Zagreb – Beograd
2. Zagreb – Banja Luka – Doboj – Sarajevo
3. Ogulin – Knin
4. Doboj – Tuzla

Presentation of pilot research results
Timetable Research

LJ - ZG - BG: Development of train numbers

WAR

2018: n=3
Trajectory: Ljubljana - Zagreb - Beograd (1985)

- $v_{201}^{*}=57.2 \text{ km/h}$
- $v_{233}^{*}=58.1 \text{ km/h}$
- $v_{253}^{*}=72.6 \text{ km/h}$

$V_{\text{MIN}}=42.4 \text{ km/h (B1615)}$

$V_{\text{MAX}}=75.8 \text{ km/h (P101)}$
Timetable Research


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- B 211 Sava
- B 315/411
- EN 415
- EC 213 Mimara
- EN 499

$V_{315} = 64.2 \text{ km/h}$
Timetable Research

Commercial speed boxplot: Ljubljana - Zagreb - Beograd
Ongoing projects and plans

Slovenia
Croatia
Bosnia and Hercegovina
Serbia
Kosovo
Montenegro
Macedonia
Albania
Presentation of results

Scientific paper in September 2018 - ICTTE conference in Belgrade

„Barriers to trans-national passenger rail services in the Western Balkans – The quantitative background”
Thank you for your attention!

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