

Impact of the Digitalization on the Railway Sector.

Florence School of Regulation November 27th, 2015.

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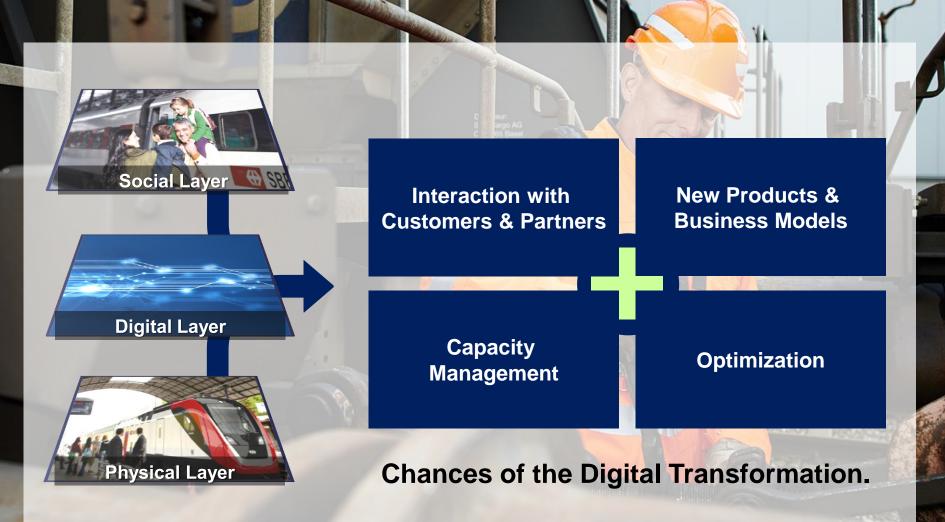


The Digitalization Enables New Forms of Competition.



The Potential of the Digital Transformation Goes Beyond New Business Models.

SBB CFF FFS



Increased System Capacity Through Advanced Capacity / Traffic Management Systems.

Rail Control System Traction Power Network Hub Optimization Technology Demand Side Management / Peak Shaving Network Bottleneck [MW] Peak Shaving x[MW] - Max1 - Max2 27% Increase in Capacity. - 25 MEUR CAPEX for Capacity Expansion.

Interconnection of Infrastructure and Rolling Stock **Multiplies the Potential for Optimization.**

\$

Acceleration Chart without ADL.

Energy Consumption: 350 kWh. Time of Travel 651 s.

Acceleration Chart with ADL.

Energy Consumption: 204 kWh. Time of Travel: 626 s

Faster. More Comfort.

Reduction of >70 GWh/a.



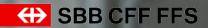
Increased Efficiency Through Process Support Systems.

Resource & Information Management System for Field Force Staff. Predictive Maintenance on Railway Infrastructure.



Access to Public Transportation at Your Fingertip.

bfahrt Départ Partenza **Touch Fahrplan** 4 ٠ by ubique 🗘 SwissPass Ankunft Arrivée / Wylerpark Kocherpark Wankdorf W200 140+ Companies. Revenue Share. Luzerr Burgermeister Katrin leaensto Lohn-Lüterkofer Stade 10.04.1969 F QYM677 010-636-393-4 Solothurn **Biberist** zentrum Hardbrücke Altstetten Anderer Startort Zielort Enabled by Open Data. Stadelhofen Herrl etter To 0 Solothurn 7 \mathbf{T} Bern, 0 0 Bern, Wyleregg Haldenstrasse Trip Planning / Train Train Train Booking Transfer Transfer **Post Care** Information Station Journey Station



It's the Data, Stupid.

Partner Ecosystem Customer Insights Data **Business Model**

Different Nature of Competition in Different Markets.

•••

Intermodal Competition.

Attractiveness &

Level Playing Field.

.

vs.

Over the Top Competition.

VS.

Business Model.

Think Beyond the Railway Track.



Deep Understanding of the Mobility Needs of Our Customers.

Ability to Design the User Experience Across Layers. Expertise on Plan, Build & Run Complex Mobility Systems.

Strong Partner Network & Access to Mobility Hubs (Train Stations). Ideal Prerequisites & Plenty of Room to Shape Tomorrow's Joint Mobility Solution.

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Act Now.

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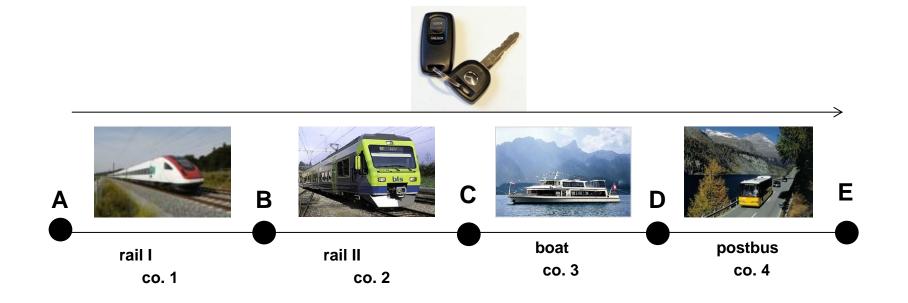
Get in Touch.



Backup.



A single key for the entire journey



SBB CFF FFS

ONE journey, ONE ticket:

- 140 companies, including SBB, share a common fare system
- 12,740 stops, including 819 SBB stops
- Tickets for each company can be bought at any point of sale
- Revenues are shared.



Travel cards.

Strong takeup



430,000 GA travel cards

1.3 million regional & point to point travel cards

libero

010-636-393-4

Katrin Burgermeister 10.04.1985



2.5 million half-fare travel cards

1/4 of the population doesn't care about tickets for (most) of their trips.

2/3 of customers are identifiable and thus accessible for personal marketing but also committed to the system.

Trends zur individuell begleiteten Mobilitätsträger übergreifenden Reise.

