FINCONS GROUP

TUSP

RAILWAY CLOSURE DIGITALIZATION

TUSP is a tool for railway workers who need to orientate themselves in the field, request closures for objects they interact with and document any work done.

TUSP

RAILWAY CLOSURE DIGITALIZATION

FOCUS ON CONSTRUCTION SITE SAFETY

A PRODUCT BUILT FOR A DEMANDING CUSTOMER

TUSP was developed for the Swiss Federal Railways (SBB CFF FSS) – one of the most sophisticated railway operators in the world. At the same time Switzerland is home to the densest railway network worldwide. In a network that is so intensively used, maintenance work has to be managed in a way that combines efficiency and safety.

A PRODUCT BUILT FOR THE PEOPLE AT WORK

The application is aimed at railway workers in the field, helping both with the location and closure of objects they interact with (tracks, switches, derailers, etc). TUSP further helps reduce errors, by adding a visual communication channel to the closure process as well as enabling the electronic documentation of any work done.

A PRODUCT BUILT WITH THE LATEST TECHNOLOGY

The TUSP application is built using the latest technology stacks. New iOS and web technology features are continually being incorporated. State of the art backend cloud solutions ensure robustness and scalability.

A PRODUCT BUILT SIDE BY SIDE WITH THE USER

Users are at the core of TUSP development. Triweekly demonstrations of the latest improvements and features and continual incorporation of feedback have led to a product with high user acceptance.

SOLUTION SPECIFICATIONS

- **Corporate master data** (e.g. infrastructure objects) are imported and then referenced in closures & presented in maps
- Visualization and execution of the **closure process** *(Fig 1)*
- Traffic controllers are enabled to monitor the ongoing closure process **in real time** *(Fig 1)*
- Support for **flat and fillable forms**, as well as hand drawn entries *(Fig 2)*
- Access to **form templates** stored in application's own repository
- Forms can be **sent by email or transferred by local Bluetooth** handover
- **All filled in content is stored automatically online** and is accessible for all users with corresponding rights
- Extensive filtering options for **search of archived documents**
- **Filtering options** for the trafic controller view
- Scalable & layered **GIS map** *(Fig 3)*
- Individual objects represented as **clickable markers on the map** *(Fig 3)*
- All parties have access to a **rich map feature set**, such as pending construction *(Fig 3)*
- Incorporates **corporate login**
- Incorporates **access and rights management**
- Currently supports German, French and Italian **localized versions**

Fig 1

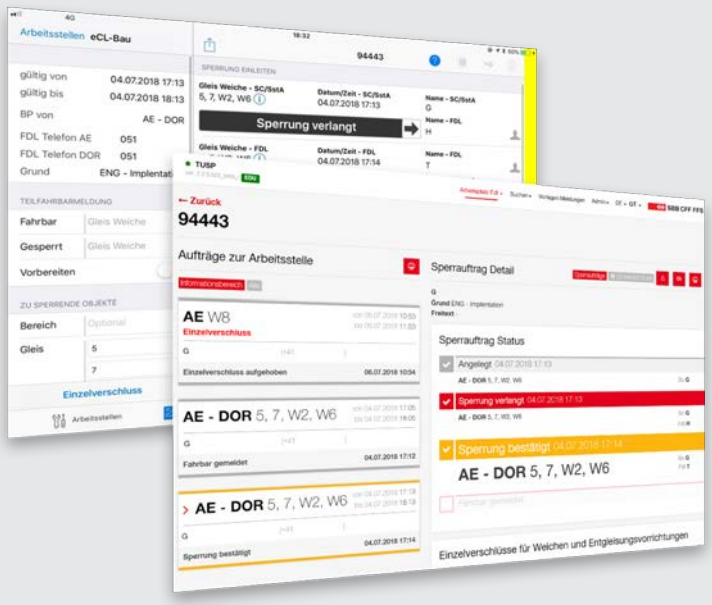
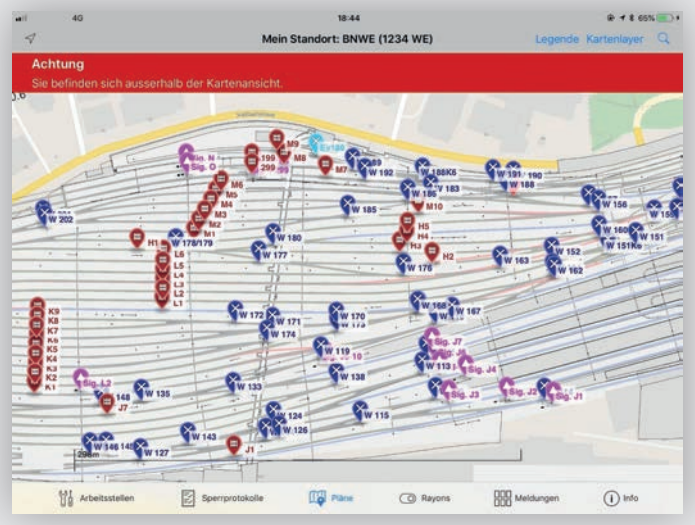


Fig 2

Fig 3



TUSP's four core purposes improve user safety

Reliable and traceble information
TUSP helps reduce communication errors when managing closures, leading to fewer dangerous situations.

Focus on safety
TUSP makes the activities of railway workers safer by adding a visual communication channel to the closure process.

Visualization and execution of the closure process
By enabling the localization of the user as well as relevant objects by means of an interactive map, TUSP supports work and geographical orientation in the field.

Electronic documentation made easy
The electronic filling out and signing of documentation is facilitated, reducing the need for paper and other obstructions to be carried into the field as well as weatherproofing them.

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