

Railway Projects worldwide where FoREM™ methods & tools have been implemented:

INESS Project (INtegrated European Signalling System), EU FP7 programme

AlpTransit Gotthard Project, Switzerland

EURO-INTERLOCKING Project, European Railways / UIC

Requirement Based Enterprise Infotainment Module, Volkswagen, Germany

Introduction of a Multiproject Requirements Reuse Culture, Swisscom, Switzerland

Requirement Based Healthcare Management, Dräger, Lübeck, Germany

SwISS Standardised Interlocking Interfaces, SBB, Switzerland

TANGO Project, Schenker Logistics, Germany & Sweden

Bangalore Monorail/LRT Project, BARL, India

SwissRapide Express Project, Switzerland



Das FoREM™ Programme
Formal Requirements Engineering
and Management
for Railway Projects



SRE GmbH, Zurich Switzerland, www.SwissRailwayEngineering.com
Tel. +41 44 540 77 00, info@SREng.ch

In co-operation with its partner companies:



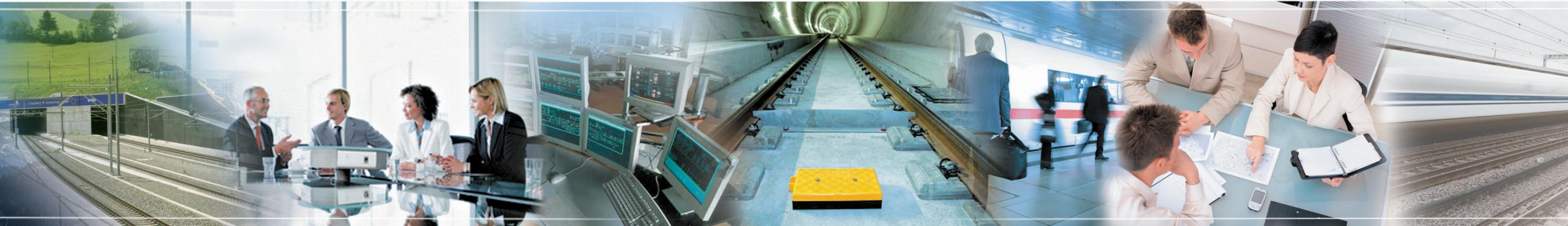
In co-operation with:



Are your projects delivering what your customers need?

The complexity of railways systems has grown by more than a 10-fold in the last 15 years. This, together with the demands of the CENELEC rail safety standards, has placed high demands on project managers, project teams as well as the processes within railway organisations.

FoREM™ Formal Requirements Engineering and Management for Railway Projects



Has your company kept pace with these developments?

- Do your projects consistently meet your time and budget requirements?
- Do the systems developed function as you expect?
- Do your projects meet the requirements of the CENELEC railway standards?
- Are you sure that your systems meet today's safety requirements?
- Are important project deliverables being reused by other projects?
- Are the project management processes clearly defined within your organisation?
- Do you feel that your projects are being managed efficiently?

Today's Project Management Challenges:

- Are your customer's requirements captured in detail?
- Do you have to deal with hidden or not explicitly expressed requirements?
- Do your project teams manage requirements changes consequently?
- Are you able to trace project and systems costs back to requirements?
- Are your validation and acceptance tests derived from your requirements?
- Do your project teams apply state-of-the-art project management and requirements engineering techniques and tools?

**We have the solutions
for your projects...**

The future of your project management!

The FoREM™ Programme

We can support you on the path to professional Requirements Management for your projects:

- **Assessment** of your current project management and requirements processes, methods and tools
- Introduction of **professional processes** for safety critical systems based on CENELEC standards
- Introduction of a **requirements management and reuse culture**
- **RETrain™**: Training, consulting and coaching in the state-of-the-art FoREM™ **requirements management methods** for your teams
- Requirements and system modelling with **UML (Unified Modelling Language)** and **SysML (Systems Modelling Language)**
- Utilisation of **executable specifications** to validate complex functional requirements
- Implementation and configuration of state-of-the-art tools for:
 - ▶ Professional **Requirements Management**
 - ▶ **Modelling Requirements** in SysML and UML
 - ▶ **Formal Validation** of requirements

The benefits of FoREM™

- Improvement in the **quality of system procurement documents**
- Significantly **reduce the risk** of project running behind schedule
- Increase the **cost efficiency** of your projects
- **Reuse standardised requirements and documents** in multiple projects
- Significantly **improve the competence and knowledge base** of your project managers and project team members
- **Formal system validation and verification** to meet national and CENELEC safety and reliability standards
- **Satisfied customers** since their requirements and needs have been met