



INTERNATIONAL UNION
OF RAILWAYS

Safety at UIC

*One of the fundamental values within UIC
Rail the safest land transport mode*

- » System Safety Management / Safety Culture
- » Organisational and Human Factors
- » Safety Performance / Safety Database
- » Safety at Level Crossings
- » Occupational Health and Safety
- » International Safety Workshops and Seminars



Railway safety

Safety is at the core of the rail activity and belongs to the fundamental values within UIC

SAFETY is a transverse subject. It plays a crucial role in the work of UIC activities: Passenger, Freight and Rail System.

Key elements of the safety unit's remit are to:

- » Identify risks posing threats to safety of the rail system
- » Develop recommendations for controlling/mitigating/eliminating identified risks for rail operations and rail community worldwide
- » Establish safety common management tools that will ensure that collectively the rail sector is all pulling in the same direction.
- » Exchange best practices on safety culture within the 'railway family'.

We do it by:

Dividing work into 4 core principles of: Policy, Process, People, Performance



- » Working with other UIC bodies/working groups to ensure safety is in everything we do
- » Developing links with other active associations within the rail community

UIC Safety Unit

- » Safety activities at UIC are undertaken by the Safety Unit and also in close cooperation with other UIC departments.
- » The Safety Unit is responsible of running the daily business of the UIC Safety Platform and beyond (European projects, level crossing and safety issues on a global level).

ISBN 978-2-7461-2665-0

Warning

No part of this publication may be copied, reproduced or distributed by any means whatsoever, including electronic, except for private and individual use, without the express permission of the International Union of Railways (UIC). The same applies for translation, adaptation or transformation, arrangement or reproduction by any method or procedure whatsoever. The sole exceptions – noting the author's name and the source – are "analyses and brief quotations justified by the critical, argumentative, educational, scientific or informative nature of the publication into which they are incorporated".

(Articles L 122-4 and L 122-5 of the French Intellectual Property Code).

© Copyright International Union of Railways (UIC) - Paris, 2017.

UIC Safety Platform

- » The Safety Platform is an advisory body for UIC activities in the field of safety. The Safety Platform has as its core objective to put in place recommendations and actions to help control, mitigate or eradicate the risks and eliminate their underlying causes and effects.
- » The Safety Platform brings together safety directors (or employees with a comparable remit in line with the job titles used and corporate structure) from member companies of the UIC. Amongst these is a mixture of Infrastructure Managers and Railway Undertakings as well as a number of organisations.



Purpose:

- » Help identify any type of measure or activity (related to system safety within the rail sector) likely to enable safety standards to be maintained or enhanced and, in parallel, boost the volume of international rail traffic (operating systems, organisational structures and remits of companies and bodies, legal and regulatory texts, methods, etc.).
- » Promote overall coherence of system safety of the railway sector by cooperating with other UIC Forums or Platforms whilst not interfering with their projects. In particular be available to these Forum Platforms and their Study Groups and provide, upon request, advice on the potential impact of their project proposals on overall levels of system safety.
- » Focus on user behaviour and put forward key aspects: engagement of key stakeholders, education of users, enforcement

Safety Platform Advisory Groups missions and purposes

SSMG - Safety System Management Group

UIC/CER joint working group

- » Since the programme of work of the European Union Agency for Railways (EUAR) is very wide-ranging and is time-critical given the need to comply with the Commission's timescales, this group generally meets once a month.
- » SSMG assists the UIC Safety Platform (Safety Directors) and experts (CER-appointed "Speakers") sitting on the working groups in charge of safety issues at the EUAR, assess topics and suggest position papers to be adopted by the CER EUAR Steering Unit.



- » SSMG/CER Safety Support Group also regularly organizes specific meetings with EIM, ILGGRI (National Safety Authorities: NSAs) and EUAR, to exchange points of view about these topics and prepare common understanding about the European legislation and work.

Main work items:

- » Ongoing process about the implementation of the 4th railway package (technical pillar) on safety issues: EUAR "Practical Arrangements" for granting "Single Safety Certificate" (SSC), EUAR IT tool "One Stop Shop" (OSS) for SSC and Vehicle Authorisation (VA),
- » Common Safety Method on Risk Assessment, (CSM RA)
- » Revision of the Common Safety Method on Conformity Assessment (CSM CA) and CSM on Supervision (CSM SUP),
- » CSM on Monitoring (CSM M)
- » Safety Performance/Safety Indicators,
- » Common Occurrence Reporting (COR)/Safety alert (SAIT),
- » Joint Network Secretariat (JNS),
- » Safety Culture and Human Factors.

OHSG - Occupational Health & Safety Group

- » Promoting effective management of occupational health and safety throughout UIC member organisations.
- » Seeking and sharing examples of best practice to encourage mutual learning and convergence in occupational health and safety management practices.
- » Identifying and, where it is in the railways' interest, seeking to influence relevant European directives and standards affecting occupational health and safety.
- » Considering methods for implementing occupational health and safety directives and standards appropriately within the railway context.

HFVG - Human Factors Working Group

- » Supports UIC members in integrating Organisational and Human Factors in their safety systems as appropriate tools for enhancing efficiency, safety and reliability
- » Benchmarks and shares experience to improve the common knowledge and the current best practices
- » Identifies the possible problems and assesses the risks through in-depth analysis of the Safety, Organisational and Human Factors
- » Makes recommendations for UIC members and presents them in widely targeted publications
- » Provides with strong arguments from UIC members with regard to the intrinsic relationship between Human Factors and Safety matters



In addition, specific issues have been tackled by three temporary multidisciplinary Task Forces under the supervision of the UIC Safety Platform:

① “Improving health and safety when working with contractors on the railway”:

The guidance prepared under the supervision of the UIC Occupational Health and Safety Group (OHSG) will assist in improving the health and safety practice of leaders, managers, and health and safety practitioners working in procurement, project management, and supply chain management.

It is intended to be:

- » A useful tool to assist companies in complying with relevant health and safety legislation
 - Applicable to contractual relationships within the rail industry
 - Flexible enough to be applied to internal as well as external contractors
- » Equally applicable to subcontractors (via main contractors)
- » Based on general principles rather than focusing on specific types of contracts
- » A signpost document for organisations including where to find good practices.

② “Signals Passed At Danger” (SPADs):

The issue is addressed from a «human factors» point of view.

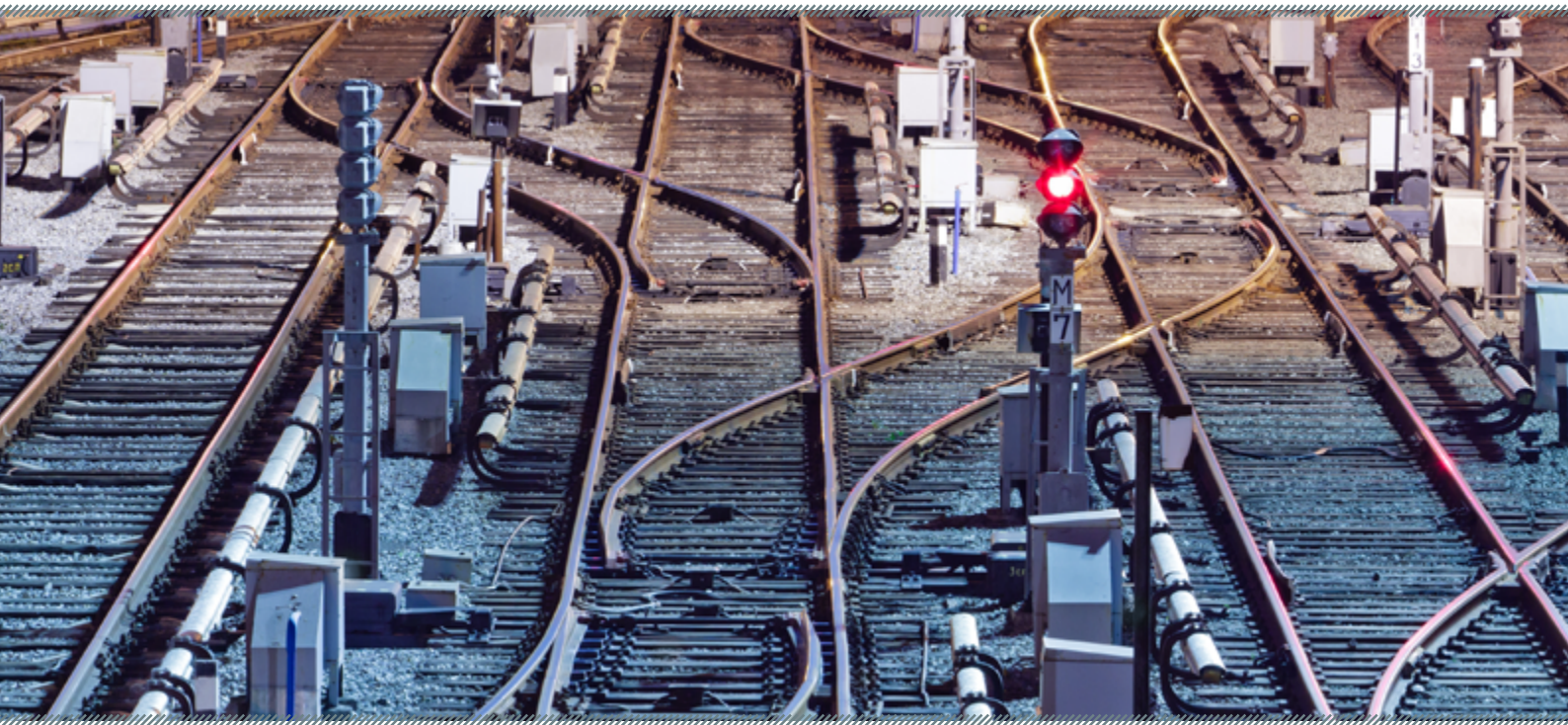
Four specific topics are presented:

- » Processes of SPAD investigation: common aspects, best practices (based on a questionnaire sent to Safety Platform Members)
- » Role of the infrastructure managers
- » New methods of training and management implemented by the railway undertakings
- » What lessons can be learned from non-events (SPADs that didn't occur)?

③ “Safety management and safety culture”:

The purpose of the work is to identify practical factors and good practice in implementing the safety management system which contributes to a healthy safety culture. The report proposes:

- » A detailed description of a model of strong safety culture comprising 9 points, ranging from staff commitment and involvement in issues of safety to change management
- » For each stage of management, recommendations aiming to make all those involved in safety management a standard bearer for reinforcing a culture of safety
- » Indicators to measure the progress achieved and the weaknesses to be remedied



Dissemination workshop on 22 February 2017 at UIC HQ.



IRSN - International Rail Safety Network aims at fostering safety for Railways by:

- » Exchanging safety experiences and backgrounds
- » Learning from each other
- » Facilitating good and trusting relations among railway safety experts
- » Elaborating questionnaires on specific safety issues and sharing the results.



Safety Performance/Safety Database

The group coordinates the work of the UIC Safety Database and the annual Safety Report. It offers:

- » A unique stocking place for information on accidents
- » Harmonisation of definitions and perimeters
- » Possibility of cross-criteria quantitative analysis
- » Time-series and trends of indicators
- » Focus on causes and consequences
- » Benchmarking between infrastructure managers
- » Mapping
- » Online access
- » A yearly public report (<http://safetydb.uic.org/>)



Level crossings

- » Level crossing: a complex issue affecting (but not caused by) the rail community
- » Level crossing accidents represent 1/3 of all rail accidents
- » Almost all accidents are caused by road users/pedestrians either by mistake or deliberately
- » Shared responsibility and multimodality to develop mitigation
- » Rail working together with other stakeholders:
 - UIC is a member of the UNECE Working Party (WP1) on Road Traffic Safety <http://www.unece.org/trans/roadsafe/wp1age.html>
 - UIC is also a member the UNECE Group of Experts (GE1) on Improving Safety at Level Crossings http://www.unece.org/trans/roadsafe/eg_level_crossings_09.html
 - UIC jointly published with the International Road Transport Union (IRU www.iru.org) and Operation Lifesaver Estonia (OLE: <http://ole.ee/en/operation-lifesaver-estonia/mission/>) three Level Crossing Safety Checklists in 12 different languages to raise awareness of professional drivers (truck/coach, bus drivers), on the issue and reduce related casualties. Visit <http://www.ilcad.org/LC-Safety-Tips.html>



Also to mention that UIC acts as secretariat of the European Level Crossing Forum (ELCF) and has been coordinating the International Level Crossing Awareness Day (ILCAD) worldwide since 2009.

International Level Crossing Awareness Day (ILCAD)

Since 2009 the International Level Crossing Awareness Day (ILCAD) campaign has been spearheaded by the International Union of Railways (UIC) with the support of the railway community around the world. A growing number of road sector organizations, international institutions (UNECE, IRU...) has also been involved in raising awareness of the risks at level crossings in order to change road users' and pedestrians' behaviour to "Act safely at level crossings".

9th edition of ILCAD to take place on 2 June 2017 in Montréal, Canada, hosted by the Railway Association of Canada (RAC)

www.ilcad.org



ILCAD videos



ILCAD 2010 video "Just in time" awarded second prize (in the "communication & campaigns" category) among 70 other films at the European Road Safety Film festival "Life in the city" on 14 September 2015 in Brussels



ILCAD 2012 video
"Don't play with real trains!"

<https://youtu.be/MR93VrUY6ZQ>



ILCAD 2014 video
"Saving Lives at Level Crossings" (co-produced by UIC/UNECE/BAV)

<https://youtu.be/aGK0B1Wo2u8>



ILCAD 2015 video
"Take your time don't risk your life!"

<https://youtu.be/yXTR-C7Zp-I>



ILCAD 2016 video
(co-produced by UIC/LDZ)
"Do not overestimate your abilities near railway tracks!"

https://youtu.be/w_gwagAqCi0



UIC Safety publications: Guidance, guidelines, reports, safety database



Study on the contribution of psychology to railway operation safety



Management of distressing events and prevention of post-traumatic stress + Checksheets



Guidance on safety of persons working on or near railway lines



Organisational and human aspects of safety in border crossings



Guidance on managing safety risks related to the Influence of Alcohol, Drugs and/or Psychoactive Medication



Guidance on the safe use of mobile phones and other portable electronic communication devices by railway workers



The analysis of the Human, Organizational and Social Dimensions of an incident



Guidelines: improving health and safety when working with contractors on the railway



Guidance on high visibility clothing and Personal Protective Equipment (PPE) for track workers



Study on local management safety checks



Focus «Human Factors»



Safety Database Activity Report 2016

Significant Accidents 2015



All publications available on ETF shop: shop-ETF.com/

Main safety events

Global level crossing and trespass prevention symposium (GLXS)



This is a biennial event that brings together safety professionals from road, rail, enforcement and regulatory authorities around the world, to exchange information and share good practice for improving the way in which the at-grade interface between road and rail systems is managed.

14th edition of the Global level crossing and trespass prevention symposium (GLXS) hosted by TRAFI in Helsinki from 12 to 16 June 2016. <http://www.trafi.fi/en/GLXS2016>.

Date and location of the 2018 edition to be determined.

Conference to launch the International Level Crossing Awareness Day (ILCAD) 2017

2 June 2017, Montreal, Canada

to submit an abstract to the conference or to participate in the worldwide campaign, contact fonverne@uic.org ; visit www.ilcad.org



UIMC Congress (Railway doctors)

27-29 September 2017, York, UK

The UIMC, the International Union of Railways Medical Services, is an autonomous special group under the aegis of UIC. Each year UIMC organises an International Railway Medical Congress in a different country at the invitation of the railways to exchange on best practices in the railway medical field.



The UIMC performs the following tasks:

- » Promotion and dissemination of medical progress in the railways
- » Promotion of professional contacts between railway medical officers with the aim of exchanging information and medical knowledge
- » Promotion of medical research specific to the railways and application of the results in day-to-day practice
- » Attainment of the highest possible level of railway operating safety and the best possible care of railway staff.

Visit <http://www.uic.org/UIMC-Medical>

International Rail Safety Council (IRSC)

22-27 October 2017, Intercontinental, Hong Kong

Co-hosted by MTR <http://www.mtr.com.hk/en/customer/main/index.html>

and EMSD http://www.emsd.gov.hk/en/railway_safety/index.html

The "International Railway Safety Council" (IRSC) provides a platform for rail safety professionals to come together to share their knowledge and experiences in a global forum.

Visit <http://www.irsc2017.org>





INTERNATIONAL UNION
OF RAILWAYS

**INTERNATIONAL UNION OF
RAILWAYS (UIC)**
Safety Unit
16 rue Jean Rey
F-75015 PARIS
<http://www.uic.org>

UIC SAFETY WEBSITES
<http://www.uic.org/safety>
<http://safetydb.uic.org>
<http://www.ilcad.org>

UIC SAFETY UNIT

FEBRUARY 2017

Printed by
International Union of Railways
16, rue Jean Rey 75015 Paris - France
February 2017

ISBN 978-2-7461-2665-0
Layout: Maguelonne de Cossart, UIC Communications Dept.
English editor: Helen Slaney, UIC Communications Dept.