Safety Culture Programme at ERA

IPA safety summit, Belgrade November 2019 Kim Drews – kim.drews@era.europa.eu





"It is widely recognised that safety management can be effective only if all staff share and live a common commitment to safety. Leadership plays a paramount role here as a guide to cultural change." Josef Doppelbauer

- Strong relationship between (safety) leadership and (safety) culture
- A positive safety culture ensures a living SMS

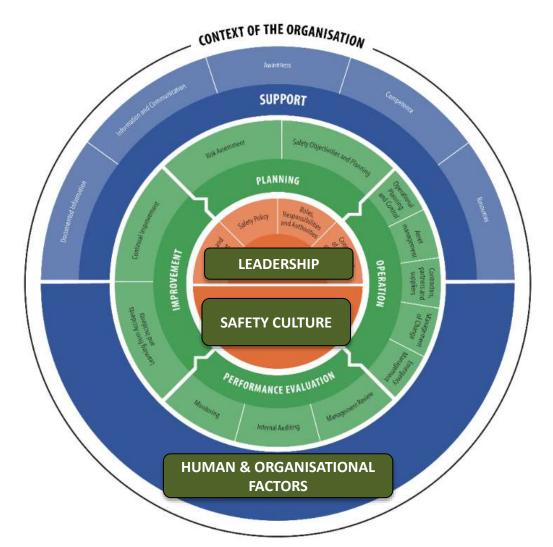


The Safety Management System (SMS) as the cornerstone of railway safety regulation

EU secondary legislation on SMS requirements related to railway undertakings and infrastructure managers (2018/762)

"Top management shall **demonstrate leadership and commitment** to the development, implementation, maintenance and continual improvement of the **safety** management system (...)"

"The organisation shall provide a **strategy** to **continually improve its safety culture** (...)"



EUROPEAN UNION AGENCY FOR RAILWAYS

The organisation shall demonstrate a **systematic approach to integrating human and organisational factor**s within the safety management system



Safety Culture Programme



Project Management, Knowledge and Strategy





Aim: To devise *dissemination* and *evaluation* instruments to support the development of *a positive safety culture*



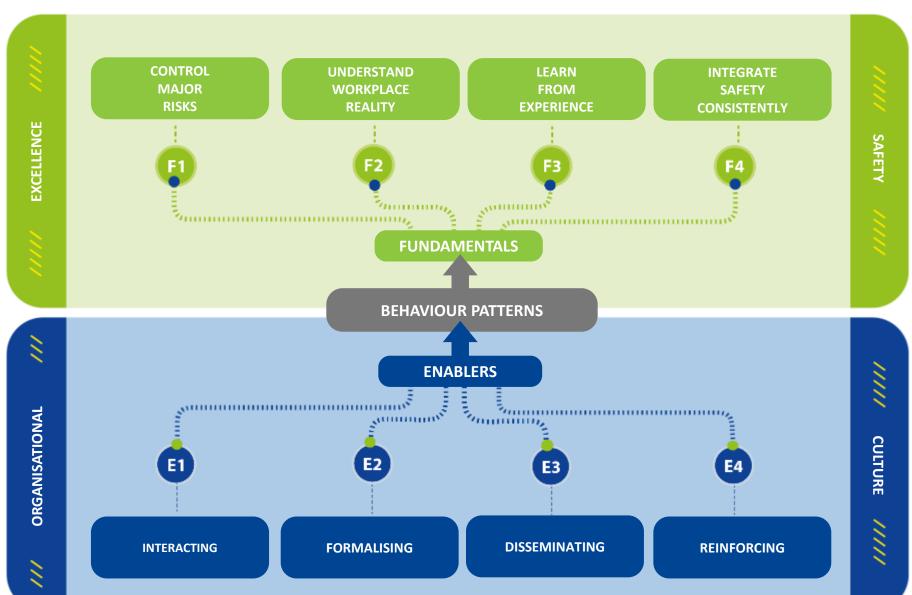
ERA European Railway Safety Culture developments

- Declaration to raise awareness and inspire safety policy and safety vision
- Model to create a common language and understanding. Backbone for developments!
- Leadership training to provide tools of good practice in safety leadership
- SC assessment



European Railway Safety Culture Model Model Components

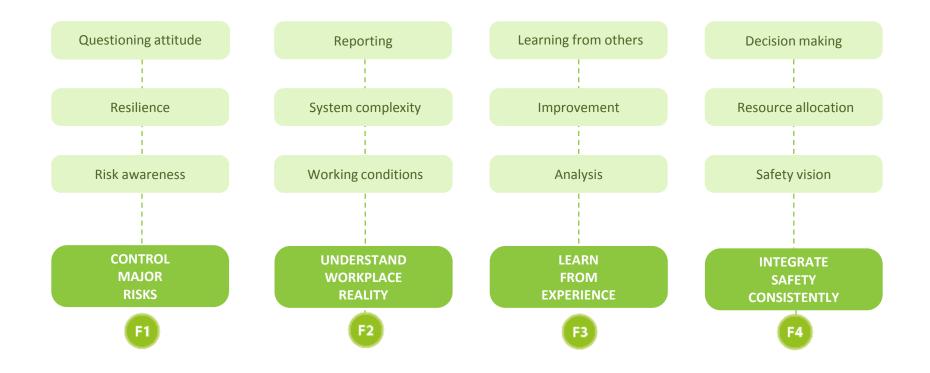




Adapted from Guldenmund (2015, 2018)



Railway Safety Fundamentals: Keywords





Railway Safety Fundamentals: Attributes



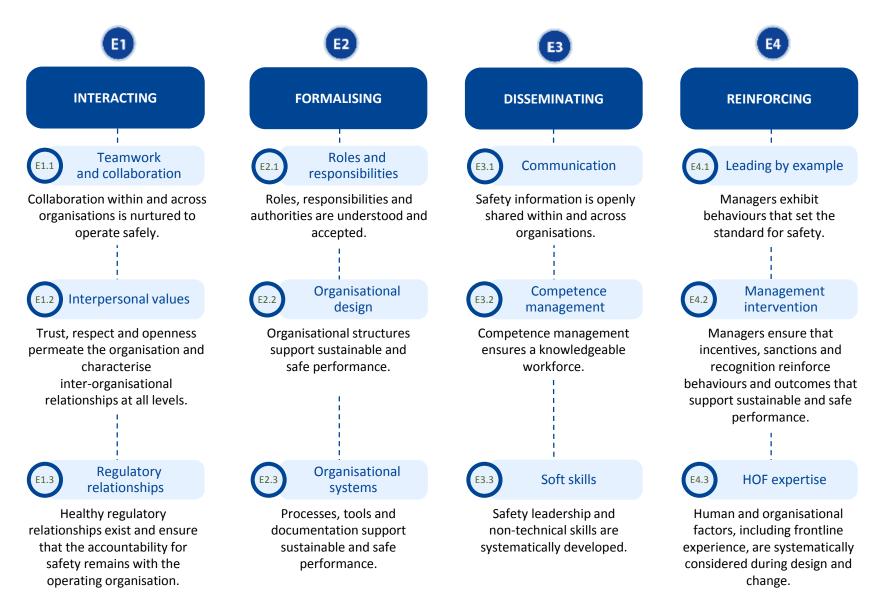


Cultural Enablers: Key Words





Cultural Enablers: Attributes



Development of the Safety Leadership training course





Benchmarking

- How to discuss safety in an operational context displaying the many layers of safety, not at least the influence from management
- Good practices identified in the nuclear, oil & gas, construction,...
- ...leading to the following specifications:
 - The training will target managers at all levels
 - The training will be disseminated within any rail organisation via a top-down approach
 - Duration: one day
 - 12-15 participants per training course
 - Emotional means to strengthen main messages
 - A film which relates an accident as a red line











- Based on existing or plausible situations, e.g. incidents and accidents that occurred in European railways, as well as realistic dialogue and scenes that describe the complexity of railway operations
- Film language is English
- Cinematographic techniques and dramatic devices to increase public attention





- The film should relate the story of a railway accident and describe the systemic causal network that leads up to the accident with a clear focus on poor safety leadership
- Good practices and appropriate behaviours to be highlighted

Film specifications (2)

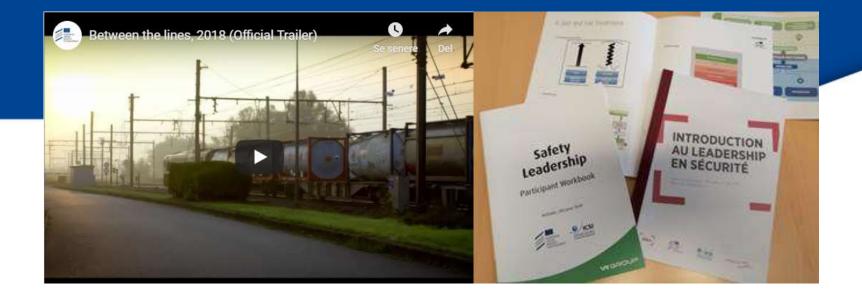
- poor commitment to safety at different levels of the railway socio-technical system,
- production and economic pressures from the client and senior management,
- inappropriate behaviours of team leaders,
- unconvincing safety staff,
- miscommunications between train drivers, shunters and signallers,
- poor monitoring of contractors,
- bad quality of procedures and documentation,
- weak preparation and risk analysis,
- inappropriate regulations,
- poor regulatory supervision,
- unhealthy work environment, lack of training,...



- Under the umbrella of the Agency's Human and Organisational Factors Network
- Experts from ERA, ICSI, RSSB, SNCF, UIC
- Three meetings took place between July and October 2018 to accomplish the following objectives:
 - Enrich the training curriculum on safety leadership
 - Monitor the development of the workshop, including the specific movie
 - Reflect on test, deployment and dissemination of the training



The result: Film "Between the lines" and training content







- How does leadership impact safety performance?
- What does a positive safety culture look like?
- Why do experienced and intelligent people get injured?
- How to respond in a just and fair manner?
- Which specific attitudes and behaviours make a safety leader?
- How to effectively consider safety in the daily trade-offs?
- What is my personal commitment to safety leadership after today?
- What is the link between safety leadership and safety culture?



Example of training content

Five Safety Leadership Principles



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Five Safety Leadership Principles / 5



- Recognise and highlight good practice and initiatives in order to reinforce safe behaviour and raise awareness
- Collectively celebrate success
- Explain what is unacceptable conduct and the corresponding sanctions (if necessary using a graded scale)
- Carefully analyse the context before applying any sanction
- Exercise skilled, fair and honest judgment in safety matters
- Be able to transparently justify any sanction

Slide 20

Pilots and deployment of training

- The training was announced during the European rail human and organisational factors seminar held in Valenciennes, France during 14-15 November
- During the event, professionals from Thalys THI Factory (France-Belgium) and VR Group (Finland) expressed their interest to deploy the training
- In the beginning of 2019, meetings took place to start preparing the delivery of the training to the senior managers of these two companies
- Next training to be conducted at Irish Rail next week

The two training sessions that took place in May and June 2019 were successful

Quelle partie avez-vous trouvé la plus intéressante? le film et la compréhensia progressive de ce qui s'et pané

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Any further comments or anything you should like to te honter











- The safety leadership training can be adapted to and implemented in any rail organisation
- A train-the-trainer course developed to allow faster dissemination and increase capability building
- Towards a community of rail safety leadership specialists: safety leadership summer school in 2020
- Next session open for external candidates: <u>17th January 2020 in</u> <u>Valenciennes (France)</u>
- Let us know if you are interested!
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Safety Culture assessment







ERA safety culture assessment

- Tested questionnaire developed with industry experts
- Recognised assessment process
- Guidance to made in 2020



Safety Culture Assessment Pilot @ Nordjyske Jernbaner

- Small IM, RU and ECM
 - 120 staff
 - Fast growth:
 - 19 to 70 drivers in few years
 - 2 to 4 lines
 - Old staff, DSB staff, BDK staff, new staff
 - Strong whish to work on safety culture





A Method for Leading Safety Culture Change (ICSI)



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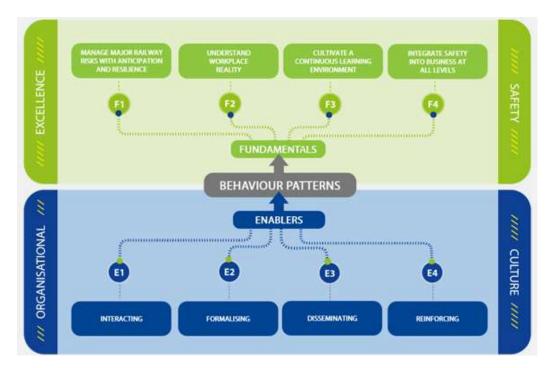
There is no magical recipe model for action, only a model adapted to your own context



Diagnosic steps



- Questionnaire
- Interviews
- Observations
- Focus groups
- Feedback (snapshot)





Safety Culture Assessment Process

Preparation Feb-Apr 19	Kick-off & training 15-16 April 19	Survey and analysis March-May 19	Focus groups and immediate feedback 26 June-3 July	Formal feedback July-August 19	Action plan and program Seminars Sept 19
 Preparation meetings Internal organisation at NJ Translation of the European Railway Safety Culture Model Translation of questionnaire questions 	 Kick off meeting Local project team training Survey dummy run on local project team Meetings with project lead and EXCOM Immersions on the field 	 Preparation for the questionnaire NJ questionnaire 6-13 May specific fill in times for the best result Min 80 % is needed for a valid result Analyses and preparation of focus groups, interviews, observations 	 Opening meeting Document review (partially performed) 7 Focus groups, with a total of 24 people 5 Observations and inteviews with a total of 8 people Closing meeting and feedback to EXCOM Full survey on NJ safety culture handover 	 Follow up with NJ by phone Feedback from NJ on the process and results Suggestions for NJ: (NJ vision seminar?) Survey feedback to staff 	Suggestions for NJ: - Workgroup to define safety culture action plan and ToR - Project/programme seminar with EXCOM - Information to staff
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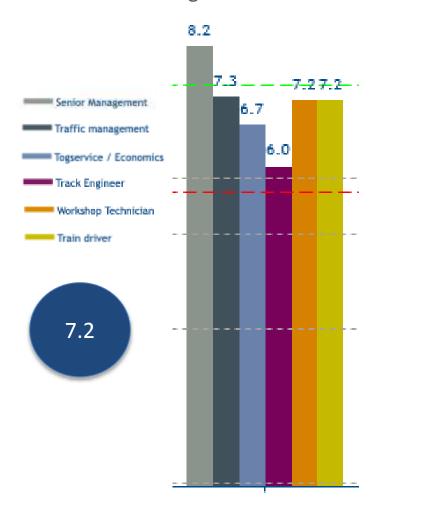
Outcome from focus groups, observations and interviews





F2: Understand Workplace Reality

Strength: F2.3 Measures to identify and mitigate organisational silence are implemented **Area for improvement: F2.1** Human and organisational factors, including frontline experience, are systematically considered following safety events, deviations, and during design and change



"People are feeling confortable speaking up here. Most of them will tell" "The door is always open to the CEO" "Today, there were a little accident. A driver cut the shift. The driver came to safety 'I have done something wrong'.

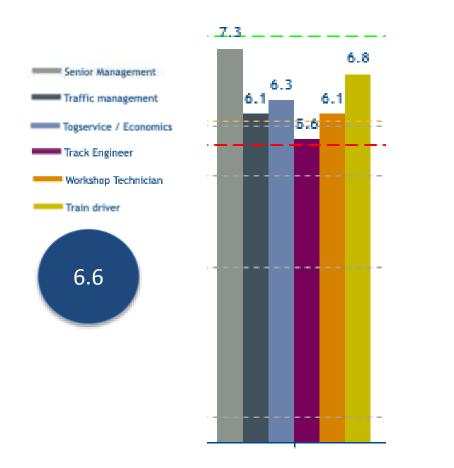
"The leaders do not know what is going on in the trackside."

"Our views should be more integrated in the planning and in the decision making at high level" "It is too difficult to find something inside the tablet" "How was the change of train service intervals risk assessed – ending up wearing down brake pads? We were never asked about our opinion"



E3: Disseminating

Area for improvement: E3.1 Safety information is openly shared, up, down and across the organisation and with audit and regulatory organisations. **Area for improvement: E3.3** Safety leadership skills are systematically developed.



Mentoring practice in the workshop "The rules are the easiest part of teaching. Trainings here address values and behaviours."

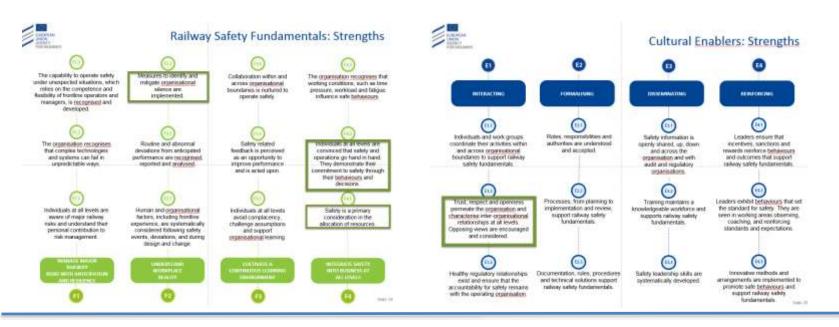
"Safety is not addressed during the morning brief"

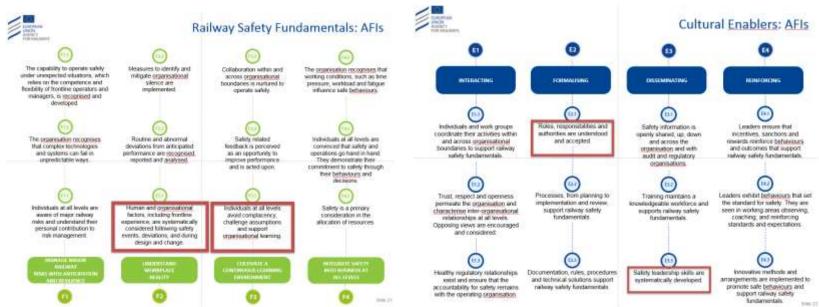
"I would like to have more sharing. The newsletter is just the headlines. Not the details. There is more to learn" Emergency/Evacuation: "We have procedure. A training would be necessary." "I haven't had a safety introduction since I came."

Conclusions and learnings











Safety culture picture (1/2)

- Over the three last years, Nordjyske Jernbaner has significantly grown:
 - 2 new lines opened
 - 48 train drivers hired
 - About 2,5 times more kilometres per year operated
 - First Danish company to implement ERTMS-2
- The company has accomplished these impressive achievements with good safety performance
- Among the success factors are the following items:
 - The integration of new qualified staff coming from the national sector raising the safety level
 - A clear commitment to safety expressed and demonstrated by the management
 - A climate of openness and trust cultivated by the management
 - An overall great motivation of staff at all levels
 - A valuable contribution of the safety team



- The company is living a critical moment: from a "wild wild west" family company to a more sustainable and formalised organisation
- To succeed, the following items require a specific attention:
 - Communication of safety issues and lessons learned from internal and external occurrences
 - Integration of Human and Organisational Factors expertise into new projects, changes and occurrence analysis
 - Development of safety leadership and soft skills
 - Clarification of roles and responsibilities, in particular for emergency situations
 - Appreciation of the contribution of the "yellow guys" and the train service staff
 - Continuous fight against complacency and awareness that a major accident is possible



- Successful evaluation
- Captured many opportunities for NJ improvements known and unknown
- Provided basis for improvements on the SC model and the questions used in the questionnaire.



- Very positive feedback:
 - "we couldn't have had a better understanding of our present state of safety anywhere"
 - "using the model and going through the process means that that we can speak about and structure our SC work better. The SC model has helped us a lot - before doing this, we wanted to do more on SC, but it was very "fluffy""
 - "We will share our learnings with the DA NSA and will try to convince them to use the model as a general standard"
 - "this assessment has given us more learnings than any "normal" supervision"
- Next steps at NJ (without ERA):
 - Setting up new information sharing system
 - Initiating staff focus groups to discuss and plan action



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