

UIC RailAdapt Workshop  
&  
Tecnalia Secteur Workshop  
Detailed Working Agenda  
April 27<sup>th</sup> 28<sup>th</sup> RSSB

## Day I – Policy Matters

Registration & lunch 13.00

Session 1: Introductions, Keynote 13.45

- Welcome to RSSB, TBA (5 min)
- Welcome to RailAdapt by UIC. Nick Craven including round table introduction (5 min)
- Keynote: Decision making in uncertainty. David Ramsbottom of HR Wallingford. Adaptive Management of Infrastructure – the TE2100 concept (20 min)

Session 2: Policy and strategy for adaptation and resilience 14.15

- Introduction to Session: Andrew Quinn

Pitch and response 14.20

Pitch:

Challenges on policy and strategy, which Policy the rail sector needs? (15 min)

- Susanna Koivujärvi, Finnish Transport Agency: *State of the art of Adaptation in Finland*
- Thinking of Policy and Strategy, how do policy makers and funders make decisions for resilience-building in the long term?
- What are the whole-systems and societal/economic perspectives?
- How can railways equip themselves to respond to consider the mix of physical, economic and societal considerations?

Response to the Pitch – (15 min.)

- Michael Woods RSSB: *The TRaCCA Project*
- What is good practice in the areas of long-term investment?
- Where are the funds coming from?
- How best can we interpret – or even suggest changes to – investment ‘rules’?

Method

- Participants in four groups with one UoB/ UIC staff at each table. Tea will be provided but no formal tea break- work through session.
- Groups should include a mix of different disciplines and positions
- Discuss within group and identify issues surrounding 'disruptive events' from a high-level/ policy point of view (i.e. treating the railway as a system). Can be based on experiences of disruption, **but should focus on underlying issues.**
- Discuss within group problems and decide one or two important issues to take forward.
- Discuss economic/social importance of resilience now and in future and around transport as a complex system, with a multitude of different weather-related vulnerabilities related to different components. Think of eg how governance and investment rules help or hinder effort.
- Consider good practices related to investment policies and strategies related to:
  - Planning, response, recovery
  - Passenger behavior
  - Demand/ supply information
  - Asset management (location, condition and systemic interaction)
  - Weather forecasts data, knowledge
  - Climate change projections
  - Knowledge and capacity

Groups will then present their views in plenary

15.40

### Session 3: Economics and investment challenges on resilience and adaptation

15.50

- Introduction to Session: Andrew Quinn

#### Pitch and response

15.55

Pitch:

Challenges on Resilience and Adaptation. Keith Waller Infrastructure and Projects' Authority (15 min.)

- What are the Economics and Investment issues related to recognizing and ramping up activity for climate change adaptation and building weather resilience for railways?
- What existing frameworks help or hinder?

Response to the Pitch - (15 min):

- Simon Abbot, Network Rail - *A Railway Perspective from the GB Railway*
- How can railways influence and work with policymakers?
- What solutions and /or potential solutions are you aware of – standards? Long term strategies?
- What softer aspects - skills, communications, awareness – are relevant?

Breakout

16.25

Method

- Groups as Session 2.
- Discuss within group problems and decide one or two important issues to take forward.
- Potential solutions to the identified issues should then be explored and formulated. These can be focused on prediction/recovery from disruption and could include (although not limited to) collaboration or engineering solutions.
- What are the requirements (including information, policy, training and economics) needed to support the identified solutions? Identify the potential barriers to these solutions and how they can be removed.
- Sheet will be passed to next group for each question for embellishment

Groups will then present their views in plenary from whole day (20 min)

17.15

Sum up

17.35

Close of Day I

17.45

## Day 2 – Technical Matters

08.30 Registration and coffee 08.30

09.00 Introduction to Day 2 – Technical Matters 09.00

- Introduction to RSSB – CEO Mark Phillips (5 min)
- Introduction to Day 2 (UIC/ Chair) (5 min)
- Keynote: Tim Broyd, ICE President (20 min)

09.20 Session 4: Resilience as a whole system – tools and standards 09.30

- Introduction to Session: John Dora

Pitch and response 09.35

Pitch:

Challenges on resilience decision making – tools.

- Stephan Eisenbach UBIMET (10 min) *Are railways equipped at all management levels to understand and decide on operational responses and longer-term planning?*
- What do we need to help decision makers from a whole-systems perspective?
- What's the state of the art on models, information/data sharing?

Response to the Pitch - A Railway Perspective

- Stina Farje – Trafikverket - *Facing climate changes with a strategy – how the Swedish Transport Administration is using a strategy to adapt the railway to climate changes.*
- Barry Howe - Alstom – *View from the industry: Policy needs from whole system perspective*
- What is good practice in learning?
- How best to embed good practice and increase resilience over time?
- What organizational skills and knowledge is required and at what level?
- The importance of maintenance – knowing your assets.

## Breakout (45 mins)

10.15

### Method

- Four stations – each with member of project team. Move between these and give suggestions, thoughts on how these can be addressed. These will be briefly summarised and discussed after coffee - no formal coffee break – a work through.

Consider and explore:

- How resilience can be treated as a whole system
- Responding to disruptive weather events before they occur – proactive planning and long-term adaptation.
- Sharing of standards, approaches
- People and knowledge and capacity in developing resilience and adaptation

Groups will then present their views in plenary

11.00

## Session 5: Working together to build capacity, develop guidance (plenary)

11.10

Introduction to Session: John Dora

### Pitch and response (45 min)

11.15

Pitch: Challenges on capacity and guidance (15 min)

- Jan Brooke World Association for Waterborne Transport Infrastructure PIANC
  - How is PIANC accelerating adaptation in its navigation, ports and marine sector?
  - The importance of maintenance.
  - What learning points might be relevant to railways?

Response to the Pitch - A Railway Perspective (2 x 15 min) :

- Florian Hofstetter - SBB : *SBB in the influence of climate change: Challenges and possible measures*
- Josphine Dogs (DB) and Markus Forbriger (German Rail Authority) - *Adapting transport and infrastructure to climate change and extreme weather events*
  - Distinctions between long term and short term investment v uncertainty
  - The time for action is NOW
  - The need for and benefits of having senior Champions
  - Building knowledge and capacity from the top down and bottom up

Plenary Discussion (30 mins) 12.00

Method

Plenary discussion led by JD, UIC, UoB,

Discussion will be made around the following

- What would be the contents of rail adaptation guidance?
- What would the objectives be?
- Who would be the target for output?
- Are there any related initiatives?
- Who would like to help?
- How should we meet/communicate?

Summarise Plenary discussion (JD) 12.30

Summarise UIC workshop (UIC) 12.40

Thank you and Close UIC Workshop (UIC) 12.45

Lunch 12.45

## SECTEUR WORKSHOP

Session 6: Working together to improve climate information 13:30

Welcome and introduction to the Session: Jorge Paz – Tecnalía (3 min)

Pitches (30 min)

The Copernicus Climate Change Service – Dr Carlo Buontempo (Manager of the Sectoral Information System of Copernicus Climate Change Service at ECMWF) (15 Min)

- How is C3S accelerating adaptation?
- CDS Infrastructure and Toolbox

The SECTEUR project – Jorge Paz and Nieves Peña (Tecnalía) (15 Min)

- Introduction to the SECTEUR project
- Survey outcomes per the different sectors
- Infrastructure Sector Use Cases for Ports and Roads

## Breakout- working in teams

14:00

- Interactive Session 1. Decision-making challenges in railroads and key characteristics of climate information needed
- Interactive Session 2. Improving information and recommendations

### Method

- Participants in groups of 4-5 persons (assuming 15-20 participants) with one representative staff of SECTEUR following each table work and discussions.
- Teams should include a mix of different disciplines and positions.
- Notes will be taken by each team and one representative person will present the team view in plenary.

## Summarise Session 6 workshop (TEC)

15:45

Summary aspects of session 6, thank you– Jorge Paz – Tecnalia (15 min)

## Close up

16:00