

REDESIGN OF THE INTERNATIONAL TIMETABLING PROCESS (TTR)



TTR Plenary Day

Vienna, 25 September 2019



TCRs

— TCRs: Topics

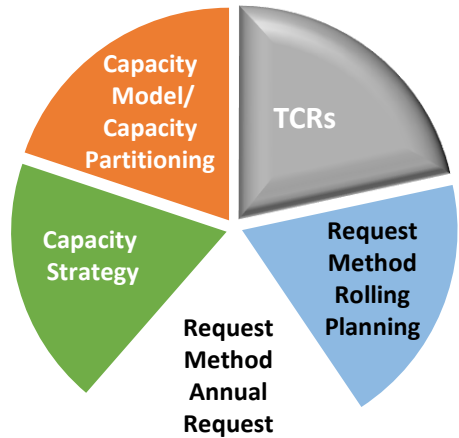
- Introduction
- TCR impacts on TTR Capacity model
- International coordination of TCRs
- Annex VII to Directive 2012/34/EU
- Ongoing actions for improvement
- Achievements
- TCR Tool
- Lessons learned
- How to support the TCR Project

— Introduction to TCRs

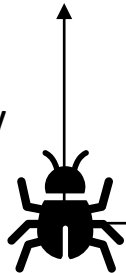
1. **Uncoordinated TCRs leads to loss of rail infrastructure capacity**
2. **Annex VII to Directive 2012/34/EU** has set a **process** for the **coordination and publishing of TCRs**
3. The process set in Annex VII has **clustered TCRs on their impact on traffic** providing publication deadlines
4. The process set in Annex VII is still missing a **common IT system** and does not extend to the overall network (bilateral or corridor level coordination)
5. RNE launched **TTR implementation** with **TCRs being a the key element** for the set up of the capacity model
6. To keep full control on TCRs planning throughout the European network **TCR Guidelines** have been **published**
7. An IT platform, named **TCR Tool**, has been designed and implemented to support the process of TCRs
8. TCR Tool roll out is planned for 2019 and TCR Guidelines are still opened for discussion to solve the problem of **“Late TCRs”**.

TCR impacts on TTR Capacity model

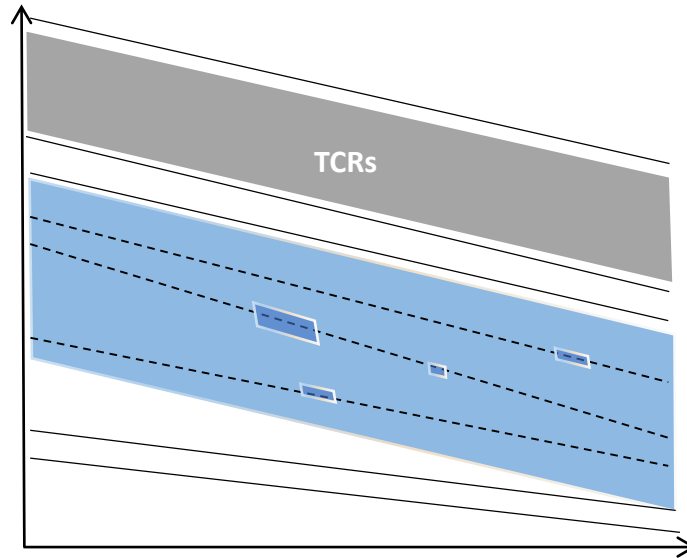
TCR WITHIN THE TTR PROCESS



Minor TCRs are outside TTR and destruct the capacity model



AS IS STATUS (TTR PILOT)
TO BE STATUS (TTR IMPLEMENTED)



Legend:

- Paths available for Annual Requests
- █ Capacity not available due to TCRs
- █ Capacity bands safeguarded for rolling planning
- █ Minor TCRs coming up after X-4

FURTHER EFFORTS TO PREVENT MINOR TCRs IMPACTS ON TTR PROCESS

1

Amended version of the Guidelines (Known TCRs Definition) to restrict late TCR impact in the TTR process



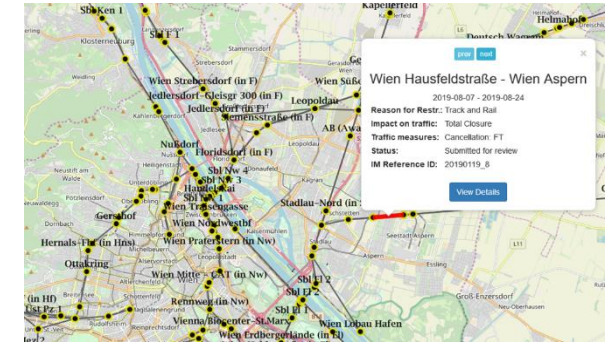
Guidelines for Coordination / Publication of Planned Temporary Capacity Restrictions
Version 1.00

Guidelines for Coordination / Publication of Planned Temporary Capacity Restrictions
Version 2.00



2

Improved version of TCR Tool based on TAF/TAP TSI with new GUI, search and view functions.



IMPROVED TCR PROCESS AND SUCCESSFUL TTR IMPLEMENTATION

— International coordination of TCRs

Uncoordinated TCRs on railway lines which are relevant to international rail transport leads to loss of rail infrastructure capacity

TCR due to maintenance works on west side of the border

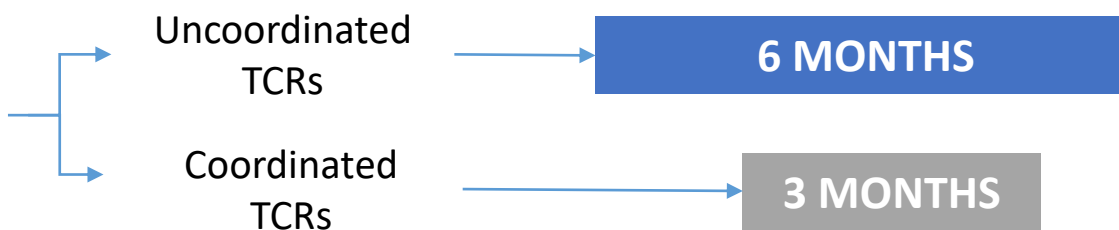


TCR due to maintenance works on east side of the border

Jan/March

Apr/June

OVERALL DURATION OF RESTRICTION ON CAPACITY DUE TO MAINTENANCE WORKS



Feb/Apr

TCR due to maintenance works on west side of the border

TCR due to maintenance works on east side of the border



— Annex VII to Directive 2012/34 EU

Annex VII issued in 2017 to Directive 2012/34/EU has clustered TCRs depending on their impact on traffic

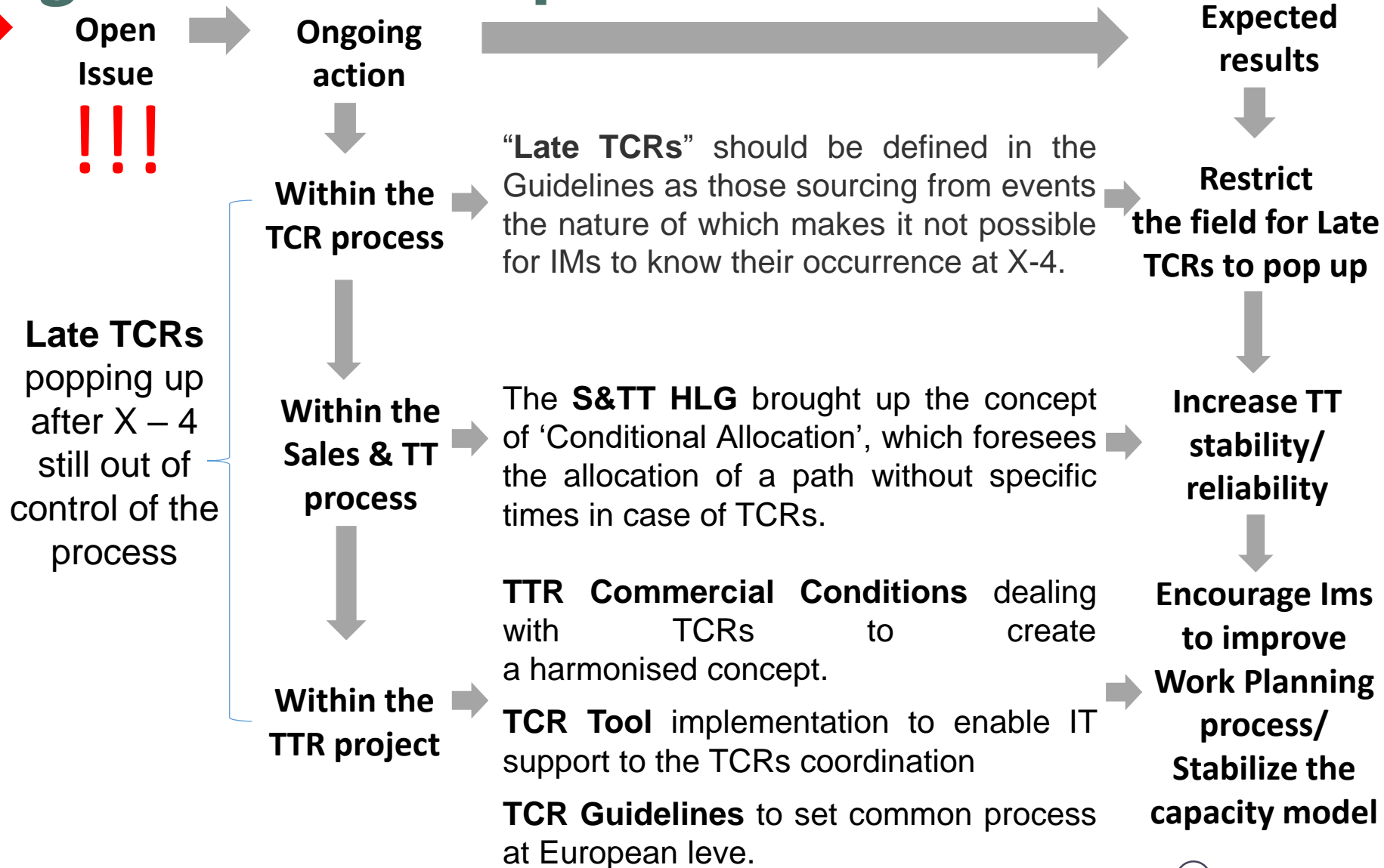
	Consecutive days	Impact on traffic	Deadline for publication
Major impact TCR ¹	> 30	> 50% of the estimated traffic volume on a railway line per day	X-18
High impact TCR ¹	> 7	> 30% of the estimated traffic volume on a railway line per day	X – 13,5
Medium impact TCR ¹	7 <=	> 50% of the estimated traffic volume on a railway line per day	X-18
Minor impact TCR ²	7 <=	> 10% of the estimated traffic volume on a railway line per day	X -4

— TCRs: Ongoing actions for improvements

TCR Guidelines

Minor impact TCRs	Medium impact TCRs	High impact TCRs	Major impact TCRs		
Preliminary consultation and coordination	Consultation and coordination	Preliminary consultation of applicants Coordination with neighboring IMs Requests from applicants		Before X-24	
		First publication of TCRs		X-24	
		Consultation and coordination	Consultation and coordination	Finalization of provision of alternatives; consultation and coordination	X-23
					X-22
					X-21
					X-20
					X-19
					X-18
		Coordination finalized		Final consultation	X-17
		Final consultation			X-16
		Publication			X-15
		Coordination finalized		Second publication of TCRs	
Final consultation				X-13	
Publication				X-12	
				X-11	
				X-10	
				X-9	
				X-8	
				X-7	
First information					X-6
Consultation and coordination					X-5
Publication					X-4

Timeline of activities



LATE TCRs

— TCRs: Achievements (I)

- Publication of a “Guidelines for Coordination / Publication of Planned Temporary Capacity Restrictions”

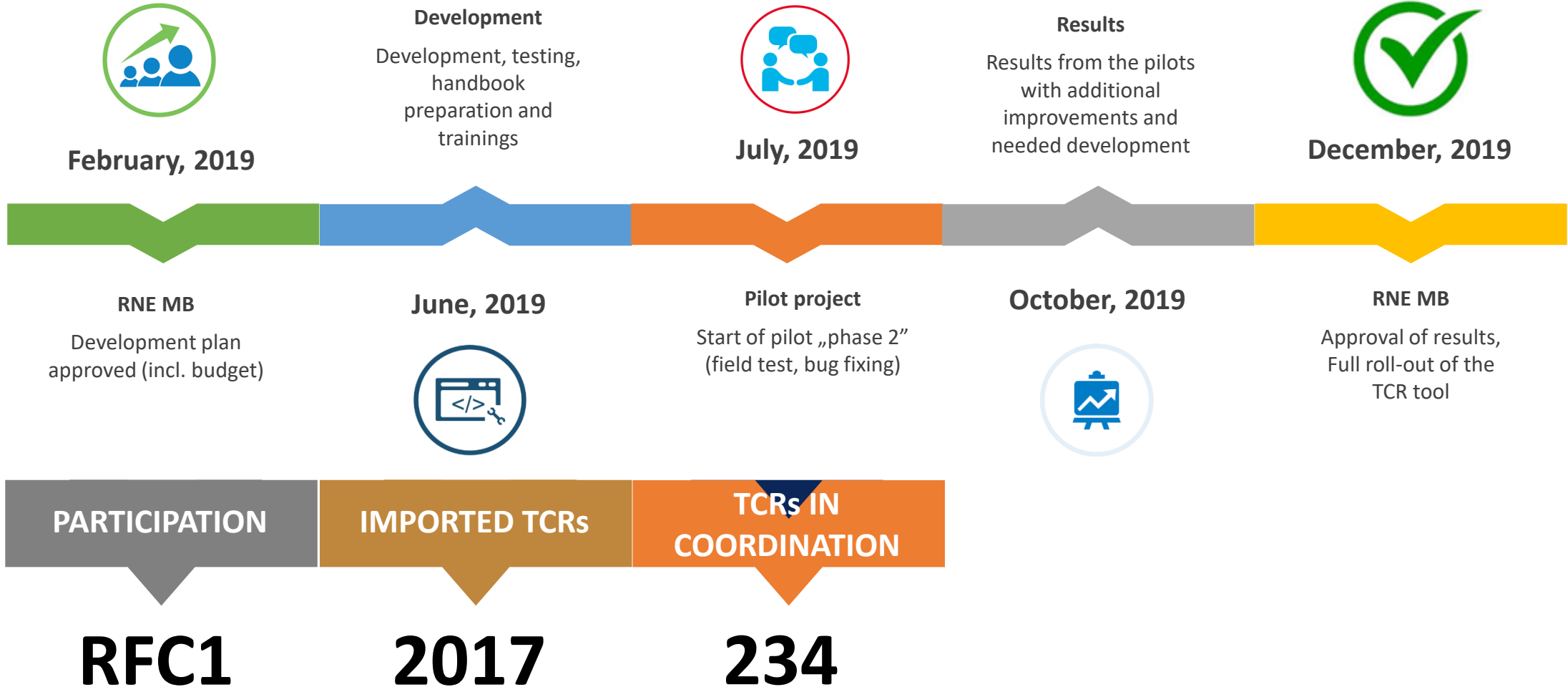
TCR Guidelines have been set according to Annex VII and are currently being revised to set a common Definition for “Late TCRs”



**Guidelines for Coordination /
Publication of Planned Temporary
Capacity Restrictions
Version 2.00**

– TCR Tool: Achievements (II)

– Development of a TCR Tool (for planning, coordinating and publishing TCRs)



— TCRs: Lessons Learned

- Coordination of TCRs respecting 2012/34 Annex VII is still difficult
- Late TCRs remain the most critical issue to tackle to improve TT Quality
- TCR Guidelines definition are essential to set a common process at European level and tackle cases not covered by Annex VII
- Linking Sales & TT with Work Planning process is a fundamental to have common ground for capacity planning and timetabling
- TCR Tool continuous improvement and user training are key elements for success
- TTR pilot projects showed that keeping TCRs under control is crucial for TTR successful implementation

— How to Support the TCR project?

- Linking Sales & Timetabling with Work Planning process
- Implement Annex VII and TCR Guidelines
- Use TCR Tool for the international planning of TCRs
- Reduce “Late TCRs” to those events the nature of which is such to make it not possible to Ims to know their occurrence at the latest publication deadline X-4

The TCR team gladly shares its knowledge and helps in implementing TCR Tool and Guidelines!



— Contacts



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Further information can be found online:

ttr.rne.eu

**TTR working material
(e.g. full TTR Process Description)
can be downloaded at:**

<https://cms.rne.eu/ttr-documents>