

Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

9 March 2022

Joint Meeting of the RID Committee of Experts and the Working Party on the Transport of Dangerous Goods

Bern, 14–18 March 2022

Item 7 of the provisional agenda

Accidents and risk management

Progress on the development of the Risk Management Platform (RMP)

Transmitted by European Union Agency for Railways (ERA)

Introduction

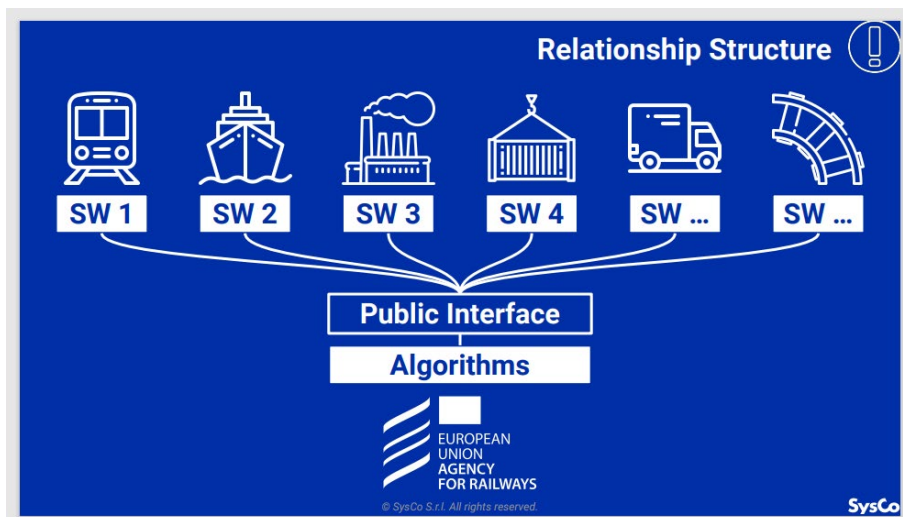
1. As established by the Risk Management Framework (RMF), the Expert Users and Development Group (EUDG) works on the preparation of reference material and on tools for facilitating the RMF implementation.
2. As indicated in paragraph 54 of the report ECE/TRANS/WP.15/AC.1/156 of the Joint Meeting Autumn session 2019, the prototyping of the Risk Management Platform (RMP), the web application dedicated to help stakeholders in the implementation of the RMF, has started.
3. The EUDG Sub-group on the RMP development regularly meets to review the progress and discuss the functionalities of the future platform.

Overview of the RMP development progress

4. The annex to this document shows the progress of the RMP prototyping which will be presented orally.

Approach to connect sector specific interfaces to the RMP

5. While the RMP will offer a human machine interface allowing the risk management of simple cases, it is also under investigation how the RMP could be digitally connected to facilitate the heavy use cases, in which the amount of data to describe the case would be extracted, for example, from a GIS or other professional/logistic/safety databases.
6. The Agency is studying the possibility to specify a digital interface for the future connection to those type of databases and sector/country specific applications.
7. This interfacing concept is being analysed following the proposal of one EUDG member who volunteered to develop one of the sector specific interfaces for facilitating the future usage of the RMP by the railway sector. The scope of the analysis includes the option to set up the RMP 'Public interface' as described in the diagram below.



8. This approach would allow the Agency to offer the same opportunity to any company/RMP user who would like to create its own professional interface connected to the future RMP.

9. At the same time this approach would enable a better comparability of risk studies as those case studies could be processed by the same algorithms for delivering risk estimation and decision-making indicators.

Conclusion

10. The Agency will be happy to answer the questions and collect the views of the Joint Meeting delegates on those developments.

Annex: Presentation in the form of a PowerPoint document

Title: Development of a Risk Management Platform for Transport of Dangerous Goods

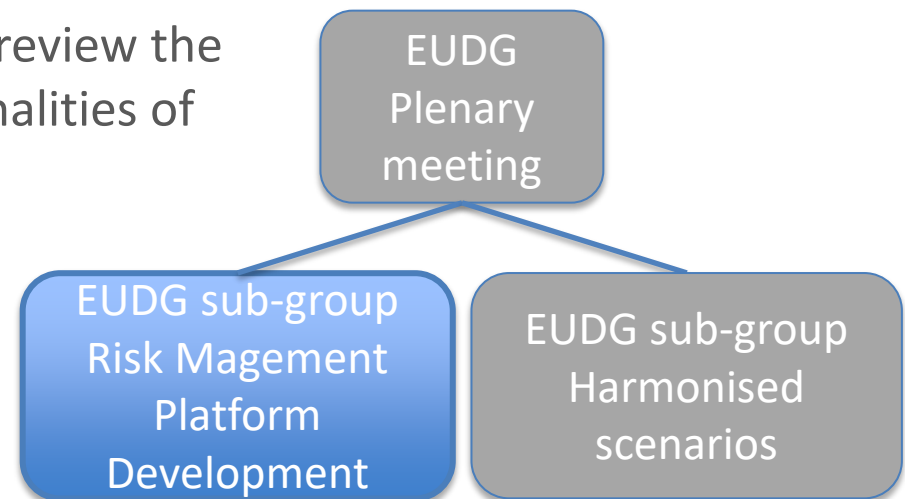
Development of a Risk Management Platform for Transport of Dangerous Goods

Progress update for Joint Meeting

16/03/2022

- Introduction
- System architecture and coordination
- Application structure/concept
- Evolution of application

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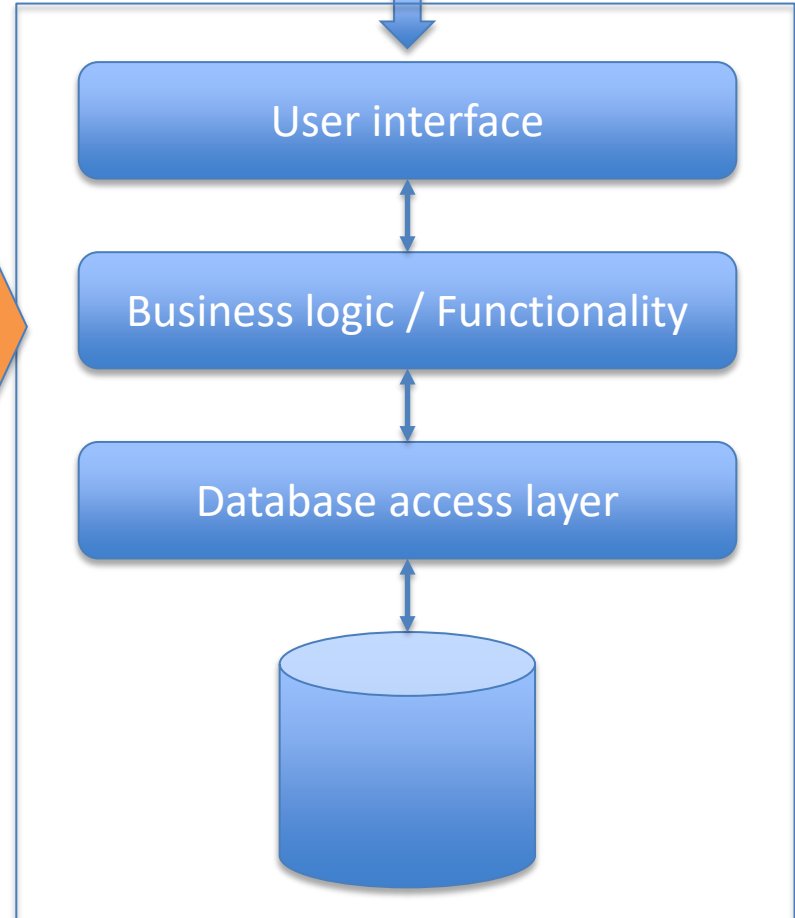
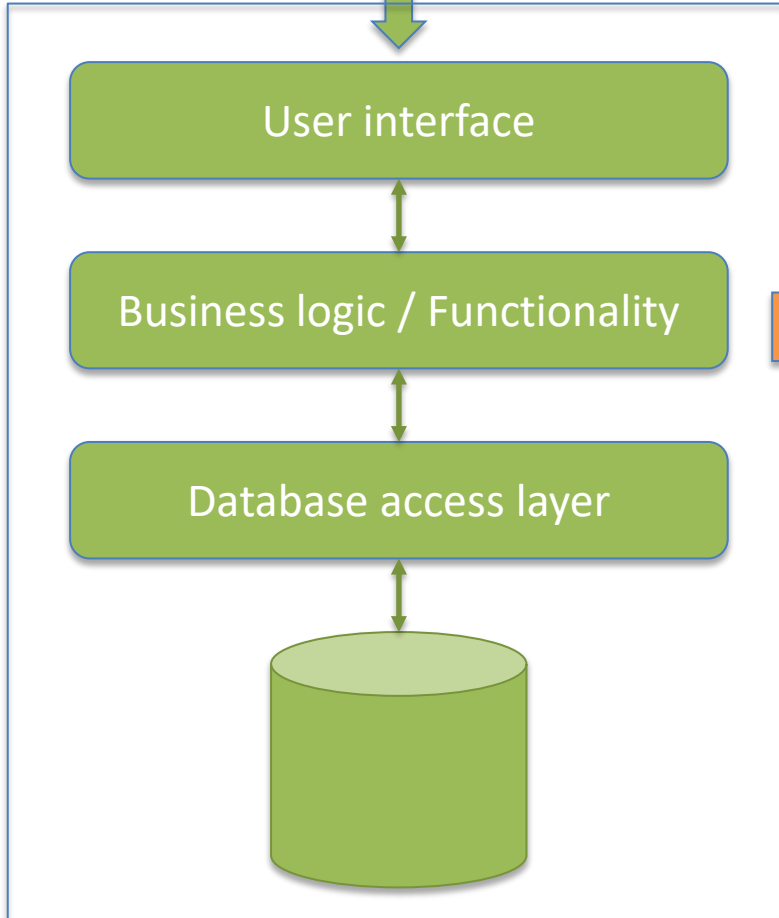
CDE*



Test-users



End-users



TDG-Dev0: Development environment

TDG-Dev1: Production environment

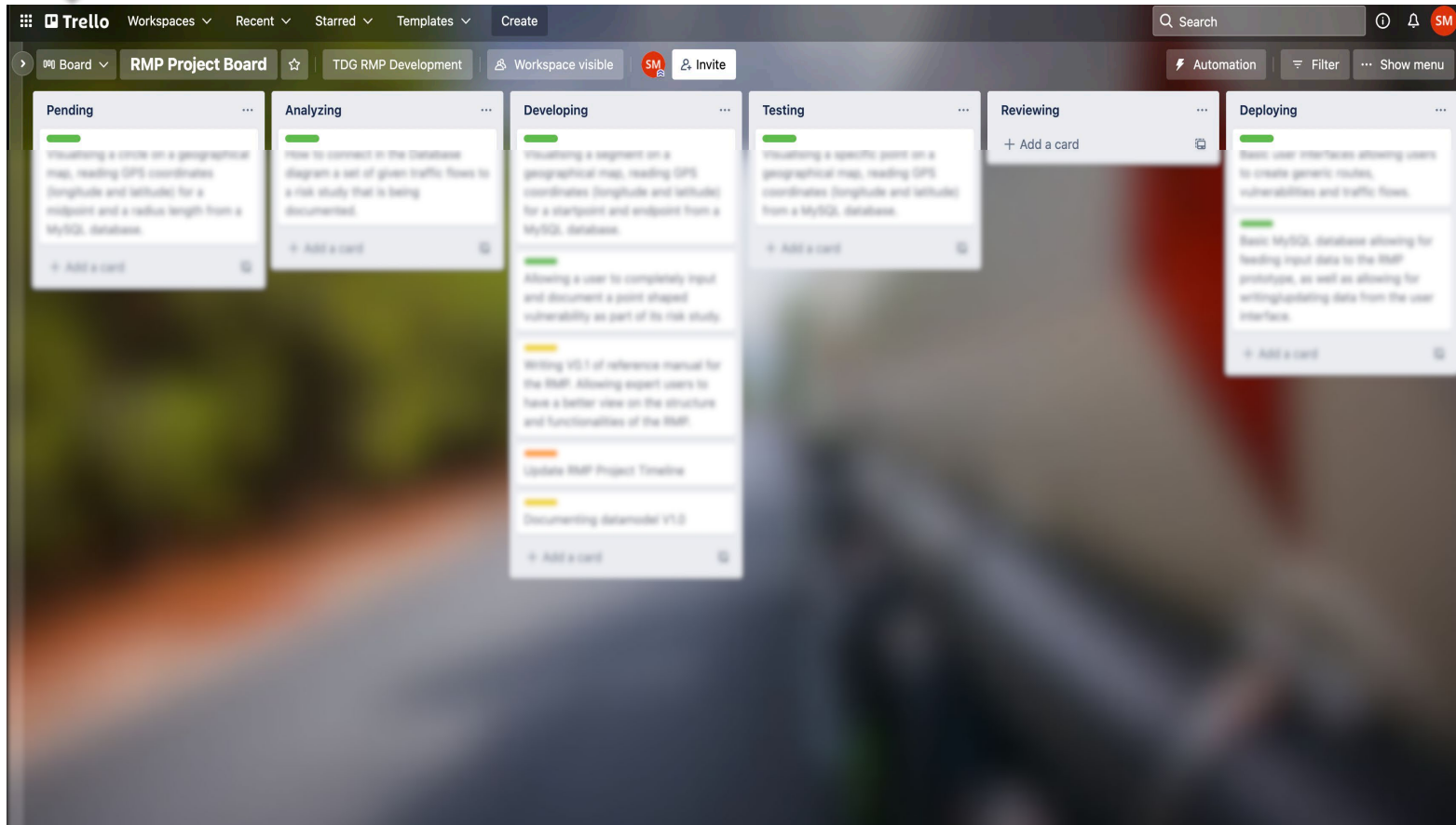
*CDE: Collaborative Development Environment



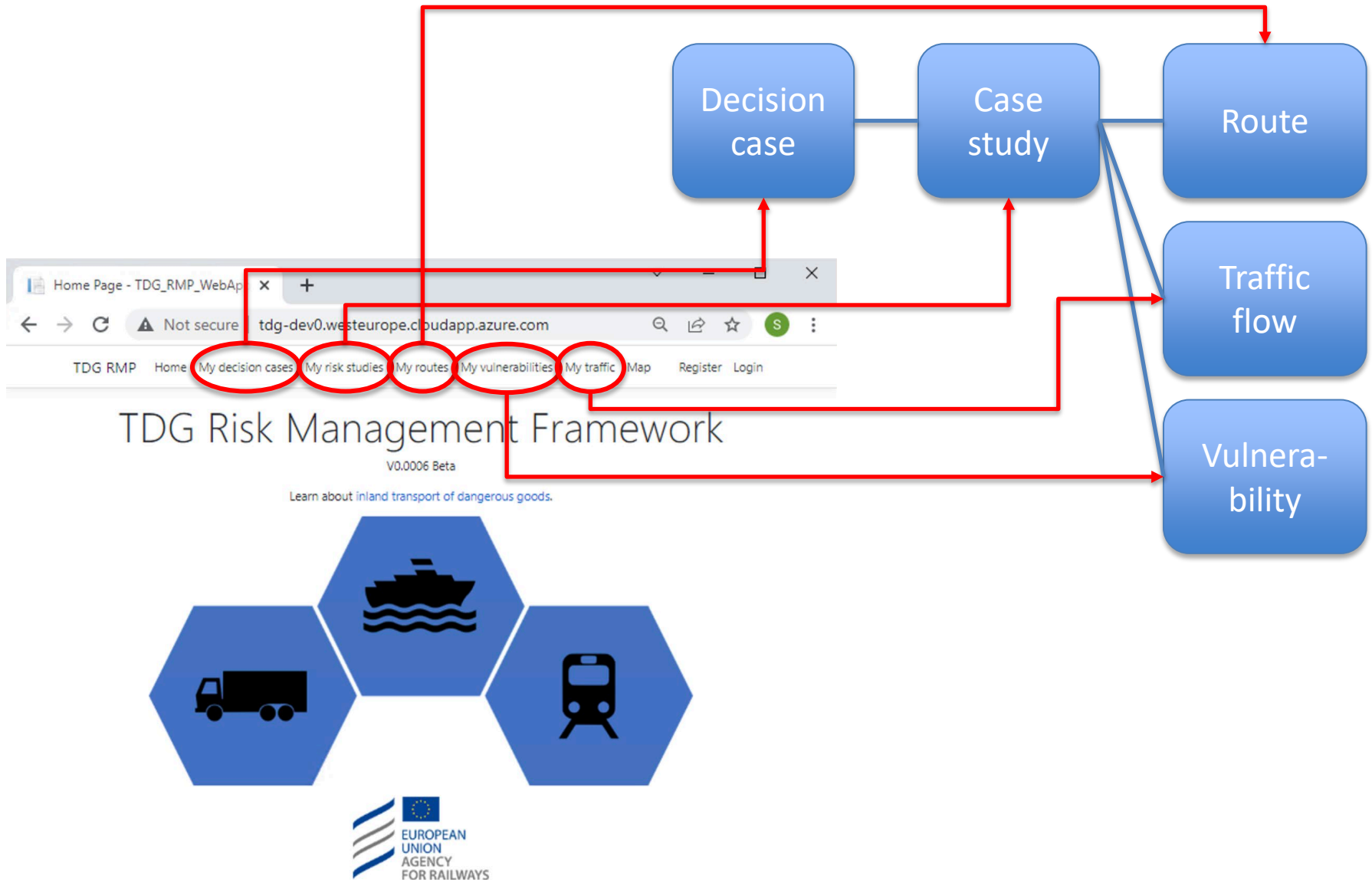
Test-users

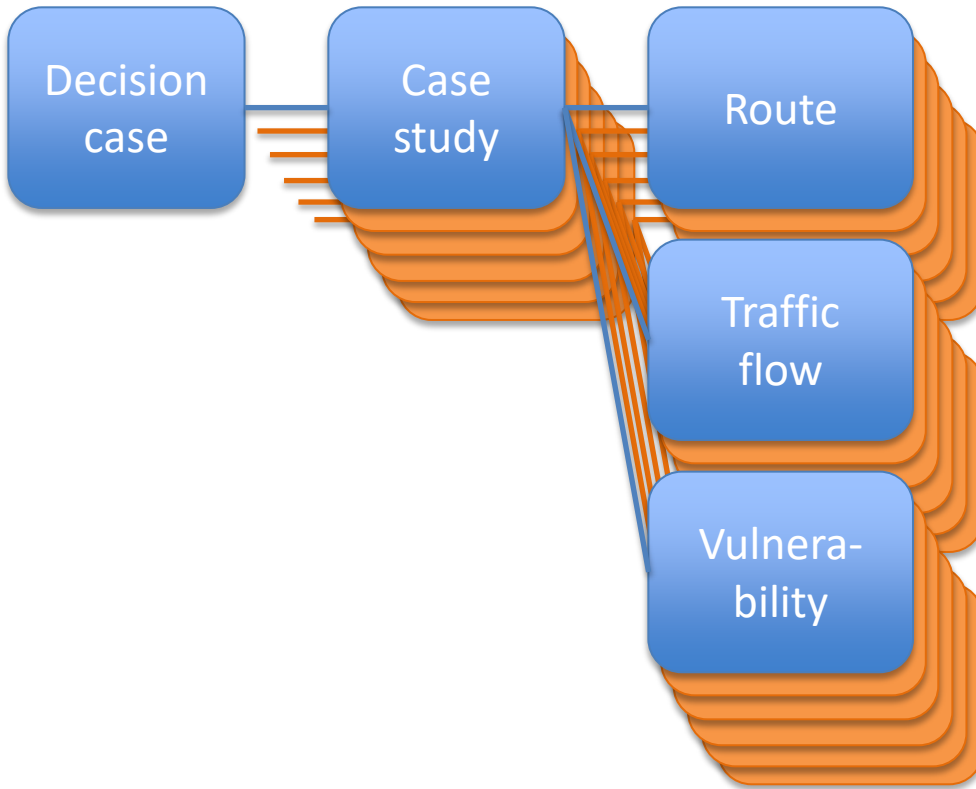
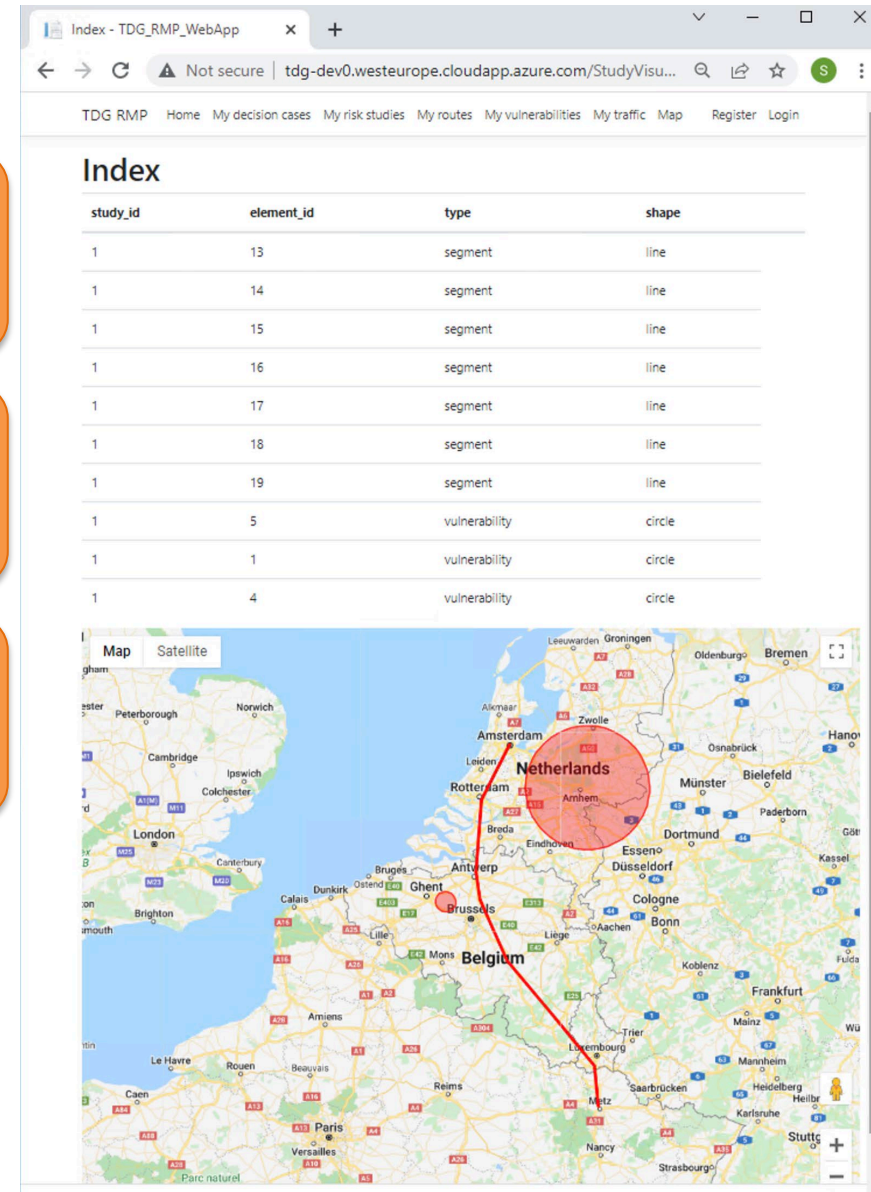


End-users



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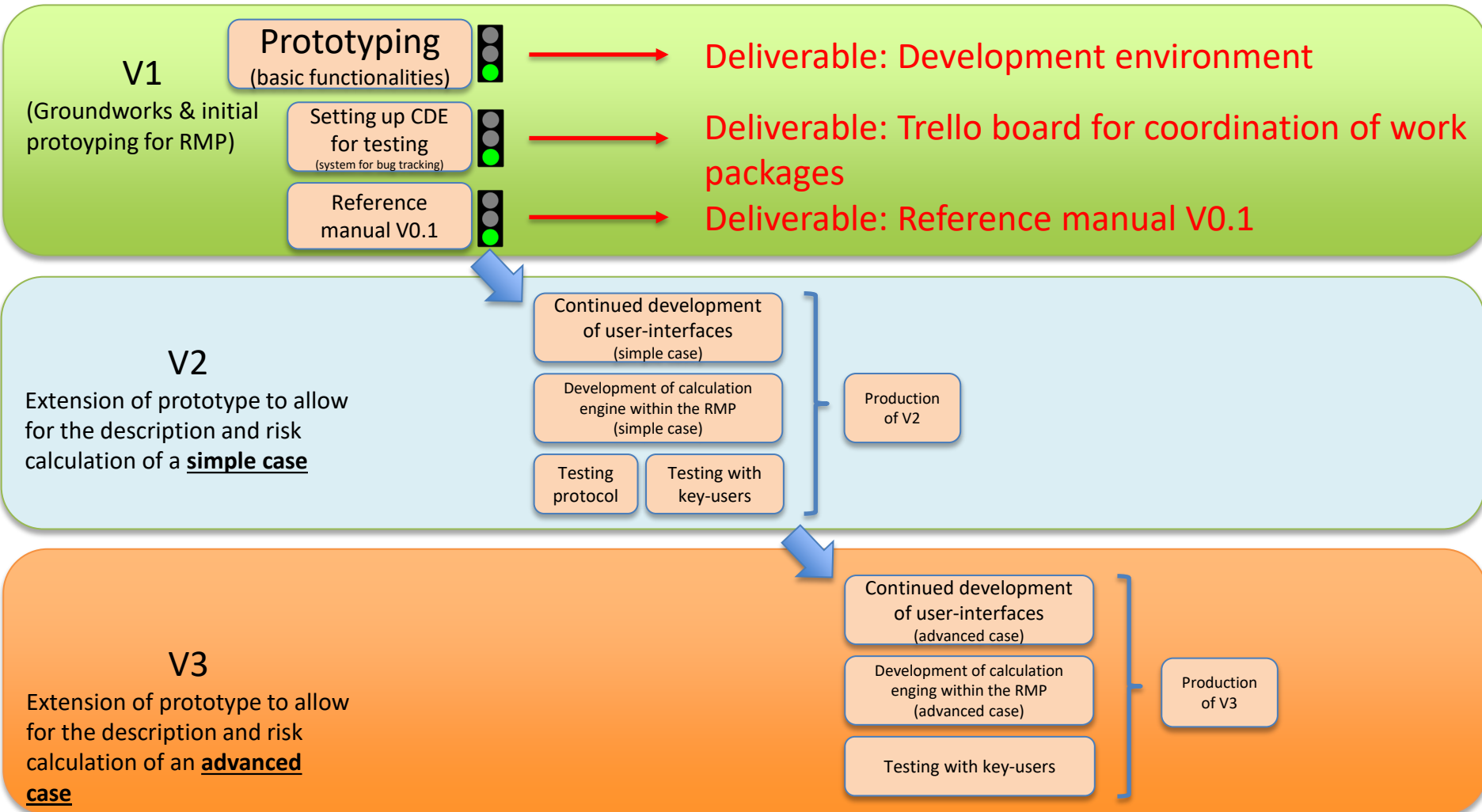
The screenshot shows the 'Index - TDG_RMP_WebApp' interface. The browser address bar indicates the URL: `tdg-dev0.westeurope.cloudapp.azure.com/StudyVisu...`. The navigation menu includes: TDG RMP, Home, My decision cases, My risk studies, My routes, My vulnerabilities, My traffic, Map, Register, and Login.

The main content area displays an 'Index' table with the following data:

study_id	element_id	type	shape
1	13	segment	line
1	14	segment	line
1	15	segment	line
1	16	segment	line
1	17	segment	line
1	18	segment	line
1	19	segment	line
1	5	vulnerability	circle
1	1	vulnerability	circle
1	4	vulnerability	circle

Below the table is a map showing the Netherlands and Belgium. A red line highlights a route connecting Amsterdam, Rotterdam, Brussels, and Antwerp. Three red circles mark specific vulnerability points: one near Amsterdam, one near Brussels, and one near Antwerp.

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