

# **Working Programme 2023**

## Milestone Overview, Action Plans, and Work Items

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### **Document information**

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## **Document history**

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0.2	23/09/2022	Annet van Veenendaal	Added action plan RTTI
0.3	26/9/2022	Anastasia Founta	Adding comments on the introduction, updating the structure to fit with new topics, working on parking action plan, cycling action plan.
0.4	28/9/2022	Timo Hoffmann	Deletion of old Action Plans, new template for Action Plans, new chapters created for Action Plans
0.5	11/11/2022	Ronald Jorna	Added action plan cycling and cycling infrastructure data
0.6	12/11/2022	Maria Stavara	Added action plan for NAP reference architecture
0.7	13/11/2022	Petr Bureš, Chrysostomos Mylonas, Benjamin Witsch, Madiha Shahzad, Christian Rantzow von Huth	Finalisation of NAP reference architecture
0.9	15/11/2022	Timo Hoffmann	Updates and review, inclusion of Milestone overview table
1.0	24/11/2022	Hana Peters	Updates and review, inclusion of updated Milestone overview table

## **Action requested**

	To be revised by partners involved in the preparation of the document
	For review/ approval by the Core Alignment Team
$\boxtimes$	For approval by the NAPCORE Steering Committee

#### **Abstract**

This is the NAPCORE Working Programme 2023, containing the overview table of milestones, the NAPCORE Action Plans for the year 2023 and other working items towards the milestones of NAPCORE.



## **Abbreviations**

Abbreviation	Meaning
AFIR	Alternative Fuels Infrastructure Regulation
CAT	Core Alignment Team
C-ITS	Cooperative Intelligent Transport Systems
EC	European Commission
EPICS	European Platform on ITS and C-ITS Services
ITS	Intelligent Transport Systems
LoS	Level of Service
MDMS	Multimodal Digital Mobility Services
MMTIS	Multimodal Travel Information Services
NAP	National Access Point
NAPCORE	National Access Point Coordination Organisation for Europe
NB	National Body
NIS	Network and Information Security
RTTI	Real-Time Traffic Information
SC, SCOM	Steering Committee
SCS	Steering Committee Support
SRTI	Safety Related Traffic Information
SSTP	Safe and Secure Truck Parking
SWG	Sub-working Group
TEN-T	Trans-European Transport Network
WG	Working Group
WP	Working Programme



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## **Overview of the Working Programme 2023**

Following the feedback and experiences from NAPCORE's first Working Programme (2022), this 2023 Working Programme takes a more concise and focussed approach, with an emphasis on Milestones and other outputs.

The priority of NAPCORE is still the achievement of the Milestones laid out in the NAPCORE Grant Agreement. However, it has become apparent that urgent action within the scope of NAPCORE's goal towards a joint European harmonisation and coordination of NAPs and the data provisioning via the NAPs was and is needed.

These actions are topic specific and are part of the wider, pre-defined Milestones and/or project tasks described by the work items, and often encompass more than one NAPCORE activity. With these actions NAPCORE aims to enable better task monitoring, leading to quick-win results in 2023. The action plans describe concrete activities per topic. The defined actions will mostly take place in 2023. However, the plans are linked with relevant actions in the previous period (2022) and will be considered as guides for an update in the 2024 Working Programme. The topics are selected based on the results and conclusions of the previous tasks/Milestones, the needs of the MS involved in the project, the external stakeholders, and DG MOVE suggestions.

In response to these newly-added priorities, this Working Programme for 2023 introduces dedicated Action Plans that correspond to specific topics, listed in section 2. Some Action Plans, while producing outputs not specifically listed in the Milestones, are nonetheless related to certain NAPCORE Milestones. When this is the case, that Milestone is referenced. The first Action Plans were drafted and started in the Summer of 2022. The most important actions are listed, also including those actions that already took place in 2022 (marked as grey lines in the corresponding Action Plan tables).

Concretely, the following Action Plans have been defined for 2023:

- Action Plan for the Implementation of the Revision of the RTTI Delegated Regulation
- Action Plan on Parking Data Standard Alignment
- Action Plan on Cycling and Cycling Infrastructure Data
- Action Plan for a NAP reference architecture
- Action Plan for examining the opportunities of NAPs regarding Mobility-as-a-Service solutions (MaaS)

Overall, there are three elements in this Working Programme for 2023:

- 1. Overview Table of Milestones with status indication
- 2. Action Plans
- 3. Work Items

The overview table of Milestones will be a working document that will be regularly updated (based upon the Milestone tracking process which is part of the risk and quality management task of S.1) and shared with the EC DG MOVE via a dedicated SharePoint channel that has been set up in 2022.

The Action Plans listed here will also be tracked and updated throughout the year as the ongoing process evolves, new situations develop and new actions become necessary. Some Action Plans are elaborated only to a certain point in 2023 when new actions will be defined for a continuation of the Action Plan. Some Action Plans might end and will not (need to) be continued after the end of 2023, others might be carried forward with new dedicated actions for 2024.



Not all goals of NAPCORE as laid out in the Grant Agreement can be well described in Action Plans, but are longer, more complex work processes involving intensive work within individual (Sub-)Working Groups or cross-(S)WGs. Some of those Work Items (that generally lead to a defined Milestone) have already been described in the WP 2022 (or at least the start of those activities). The Work Items (in some cases, continuing from 2022) are listed and described in the third section of the WP 2023.



### 1. Overview Table of Milestones

The following is the overview table of the NAPCORE Milestones as defined by the Grant Agreement, but updated in the following way:

- 1. The status of the Milestone is indicated, including completion date, or the forecasted new completion date if different from the originally indicated completion date
- 2. Changes/Updates to Milestones that have been described in the Working Programme 2022 are reflected in this list. This includes e.g. splits of Milestones into two individual Milestones, name changes of Milestones, and updates in the completion dates.
- 3. Changes/Updates to Milestones that are described in this Working Programme 2023.

It is important to note, that this list as printed here is as of 24 November 2022. The Milestones' status changes regularly as NAPCORE progresses: Milestones will be completed, postponed, or otherwise changed. Forthcoming changes are not reflected in this version of the table in this document, as this Working Programme 2023 document will remain stable after SCOM approval. The working version of the Milestone overview table is a "live" document of which snapshots will be shared in regular intervals throughout the year 2023 with DG MOVE for information and task/Milestone tracking purposes. The live document can be sorted according to Milestone number, completion status, or other criteria. In this document, the Milestones are ordered by their planned submission date in the Working Programme 2023.

Milestone number	Milestone name	WG	Short name of lead beneficiary	External Milestone (Y/N)	Delivery date (GA)	Delivery date (WP 2022)	Delivery date (WP 2023)	Actual/ forecast submission date
MH.1.1	Steering Committee Meeting	H1	AT-ATE	N	Sep-21	Sep-21	Sep-21	Sep-21
M4.1.202	Workplan 2022	SWG4.1	NL	N	Oct-21	Oct-21	Oct-21	Oct-21
MH.3.1	Communication plan	Н3	IT	N	Dec-21	Mar-22	Nov-21	Nov-21
M2.3	Presentation of the Annual Work Plan 2022	WG2	PT-IMT	N	Dec-21	Dec-21	Dec-21	Dec-21
M4.1.300	Existing material handed over from DATEX II PSA and embedded in project	SWG4.1	NL	Υ	Dec-21	Dec-21	Dec-21	Dec-21
M4.1.305	D2 Academy running and used	SWG4.1	NL	Υ	Dec-21	Dec-21	Dec-21	Dec-21
M4.1.404	Standardisation proposals (either direct or via ITS rolling workplan) 2022	SWG4.1	NL	N	Dec-21	Dec-21	Dec-21	Dec-21
M4.3.1	SubWG4.3 working programme 2022	SWG4.3	ITxPT	N	Dec-21	Dec-21	Dec-21	Dec-21
M5.1	WG5 Working Programme	WG5	AT-ATE	N	Dec-21	Dec-21	Dec-21	Dec-21
MH.1.2	Steering Committee Meeting	H1	AT-ATE	Υ	Dec-21	Dec-21	Dec-21	Dec-21
MS.1.1	Working Programme 2022	S1	DE-BASt	Υ	Dec-21	Dec-21	Dec-21	Dec-21
M4.1.201	Progress report 2021	SWG4.1	NL	N	Dec-21	Mar-22	Feb-22	Feb-22
MS.1.12	Core Alignment Team report of main activities and decisions	S1	DE-BASt	Υ	Nov-21	Feb-22	Feb-22	Feb-22
MS.1.16	Financial Statement 2021	S1	DE-BASt	N	Feb-22	Feb-22	Feb-22	Feb-22
MS.1.4	Project Progress Report 2021	S1	DE-BASt	Υ	Dec-21	Feb-22	Feb-22	Feb-22
MS.1.8	Quality and Risk Management (QRM) Plan	S1	DE-BASt	Υ	Feb-22	Feb-22	Feb-22	Mar-22
M4.2.3	Project management procedures in place	SWG4.2	ERTICO	N	Dec-21	Sep-21	Mar-22	Mar-22
M3.2	First report on NAP data availability	WG3	GR	Υ	Mar-22	Mar-22	May-22	Nov-22
MH.3.6	Outreach and Training Plan	Н3	IT	N	Mar-22	Apr-22	May-22	May-22
M4.1.103	Initiation of STAB	SWG4.1	NL	Υ	Dec-21	Jun-22	Jun-22	ТВС
MH.1.3	Advisory Board is set up	H1	AT-ATE	Υ	Mar-22	May-22	Jun-22	Jun-22
MH.1.4	Steering Committee Meeting	H1	AT-ATE	Υ	Jun-22	Jun-22	Jun-22	Jun-22
MH.3.2	Website goes live	Н3	IT	N	Feb-22	Apr-22	Aug-22	Aug-22



## NAPCORE Working Programme 2023



M4.1.309	DATEX II webtool supporting full RAV scope	SWG4.1	NL	N	Jun-22	Jun-22	Sep-22	Sep-22
M4.1.400	Version 3.3 with accompanying RRP's and RSP's	SWG4.1	NL	Υ	RSPs	Jun-22	Sep-22	Sep-22
M4.1.405	Standardisation proposals (either direct or via ITS rolling workplan) 2023	SWG4.1	NL	N	Sep-22	Sep-22	Sep-22	
M4.1.500	Change requests on methodology	SWG4.1	NL	Υ	Sep-22	Sep-22	Sep-22	Sep-22
M4.1.501	Impact assessment on content models	SWG4.1	NL	N	Mar-22	Mar-22	Sep-22	Sep-22
M4.1.502	Change requests on models	SWG4.1	NL	Υ	Sep-22	Sep-22	Sep-22	
M4.1.600	User requirements on identified topics	SWG4.1	NL	Υ	Mar-22	Mar-22	Sep-22	Sep-22
M2.1	Typology of NAPs based on the description of levels of service and assessment of associated costs and benefits	WG2	PT-IMT	Υ	Jun-22	Aug-22	Oct-22	Oct-22
M2.4	A list of requirements concerning (the use of) data standards, reference profiles and metadata to be handed, over to subWGs on standardisation and/or standardisation organisations.	WG2	PT-IMT	Υ	Dec-21	Jun-22	Oct-22	Oct-22
M2.5	Presentation of the following Annual Work Plan 2023	WG2	PT-IMT	N	Oct-22	Oct-22	Oct-22	Oct-22
M4.1.100	Change requests for relevant parts of DATEX II for alignment of agreed topics (yearly updated)	SWG4.1	NL	Υ	Dec-21	Mar-22	Oct-22	Oct-22
M4.1.200	Updated DATEX II Rules of Procedure incl. governance of RRP's and RSP's	SWG4.1	NL	N	Dec-21	Mar-22	Oct-22	Oct-22
M4.1.310	Report on provided support, dissemination, education and training	SWG4.1	NL	N	Dec-21	Mar-22	Oct-22	Oct-22
M4.3.2	SubWG4.3 working programme 2023	SWG4.3	ITxPT	N	Oct-22	Oct-22	Oct-22	Oct-22
M5.2	Best Practices and recommendations for harmonised compliance assessment identified	WG5	AT-ATE	Υ	Mar-22	Sep-22	Oct-22	Oct-22
M5.3	Synchronised compliance assessment processes and self-declaration forms defined	WG5	AT-ATE	N	Mar-22	Sep-22	Oct-22	Oct-22
M5.5	WG5 Working Programme	WG5	AT-ATE	N		Oct-22	Oct-22	Oct-22
M4.1.301	DATEX II user forum	SWG4.1	NL	Υ	Jun-22	Jun-22	Nov-22	Nov-22





M4.2.4	Technical specifications	SWG4.2	ERTICO	Υ	Nov-22	Nov-22	Nov-22	
MH.2.1	Actions needed and recommendations reported in Project Progress Report 2022	H2	NL	Υ	Nov-22	Nov-22	Nov-22	
MH.3.3	First NAPCORE Multi-Day Event	Н3	IT	Υ	May-22	Nov-22	Nov-22	Nov-22
M1.1	Develop strategic position and a common strategy for EU policies and developments	WG1	DE-BASt	Υ	Sep-22	Oct-22	Dec-22	Nov-22
M3.3	Second report on NAP data availability	WG3	GR	Υ	Sep-22	Sep-22	Dec-22	
M4.0.1	Ecosystem described and role of standards in relation to services documented.	WG4	FR	N	Jun-22	Jun-22	Dec-22	
M4.1.101	Change requests for relevant parts of DATEX II for alignment of agreed additional topics	SWG4.1	NL	Υ	Dec-22	Dec-22	Dec-22	
M4.1.203	Progress report 2022	SWG4.1	NL	N	Dec-22	Dec-22	Dec-22	
M4.1.204	Workplan 2023	SWG4.1	NL	N	Oct-22	Dec-22	Dec-22	Nov-22
M4.1.311	Report on provided support, dissemination, education and training	SWG4.1	NL	N	Dec-22	Sep-22	Dec-22	
M4.1.401	Version 3.4 with accompanying RRP's and RSP's	SWG4.1	NL	Υ	Dec-22	Dec-22	Dec-22	
M4.1.408	Roadmap Harmonised profiles	SWG4.1	NL	Υ	Dec-22	Dec-22	Dec-22	
M4.1.503	Inventory taking of future work	SWG4.1	NL	N	Dec-22	Dec-22	Dec-22	
M4.1.602	User requirements on identified topics	SWG4.1	NL	N	Dec-22	Dec-22	Dec-22	
M4.1.604	Annual inventory of new topics	SWG4.1	NL	N	Dec-22	Dec-22	Dec-22	
M4.2.10	TN-ITS network meeting reports	SWG4.2	ERTICO	Υ	Jun-22	Jun-22	Dec-22	
MH.1.5	Steering Committee Meeting	H1	AT-ATE	Υ	Dec-22	Dec-22	Dec-22	
MH.1.6	Mid-term report on strategic exchange, cooperation or collaboration with externals and identification of further recommendations	H1	AT-ATE	Υ	Dec-22	Dec-22	Dec-22	
MS.1.2	Working Programme 2023	S1	DE-BASt	Υ	Nov-22	Dec-22	Dec-22	
M4.1.306	Masterclass DATEX II Programme	SWG4.1	NL	Υ	Jun-22	Jun-22	Jan-23	
M3.1	Data content requirements, existing gaps, data dictionaries and supporting material	WG3	GR	Υ	Jun-22	Jun-22	Feb-23	
M4.1.601	Standardisation proposals (either direct or via ITS rolling workplan)	SWG4.1	NL	N	Sep-22	Sep-22	Feb-23	





M5.6	international) organisations defined  Fourth report on NAP data availability	WG5	AT-ATE	Υ	Dec-22	Apr-23	Jun-23 Sep-23	
M5.4	Common quality & evaluation criteria for compliance assessment defined  Strategies and actions to address (private,	WG5	AT-ATE	Υ	May-22	Mar-23	Jun-23	
MH.1.7	Steering Committee Meeting	H1	AT-ATE	Υ	Jun-23	Jun-23	Jun-23	
M4.4.2	Inauguration of a napDCAT-AP back office	SWG4.4	DE-BASt	N	NA	Oct-22	Jun-23	
M4.4.1	Publication of napDCAT-AP Version 1.0	SWG4.4	DE-BASt	Υ	Mar-22	Sep-22	Jun-23	
M4.2.8	Recommendations for DG MOVE for TN-IST deployment in EU Member States	SWG4.2	ERTICO	N	Jun-23	Jun-23	Jun-23	
M4.2.6	Requirements on trust, quality, integrity, and security of data established. Concepts of data evaluation tools (draft)	SWG4.2	ERTICO	Υ	Jun-23	Jun-23	Jun-23	
M4.1.307	Masterclass DATEX II Programme	SWG4.1	NL	Υ	Jun-23	Jun-23	Jun-23	
M4.1.302	DATEX II user forum	SWG4.1	NL	Υ	Jun-23	Jun-23	Jun-23	
M2.6	A first demonstrator with real-world use of data and different Levels of Service – 1st round	WG2	PT-IMT	Υ	Dec-22	Jun-23	Jun-23	
M2.2	Overview of gaps and actions needed	WG2	PT-IMT	N	Jun-22	Aug-22	Jun-23	
M4.4.4	Draft concept for a Metadata Interoperability Demonstrator	SWG4.4	DE-BASt	N	Mar-23	Mar-23	Mar-23	
M4.2.1	Contribution to the Roadmap for harmonisation	SWG4.2	ERTICO	N	Feb-22	Nov-21	Mar-23	
M4.0.2	Roadmap for harmonisation tasks incl. qualitative impact assessment	WG4	FR	N	Jun-22	Dec-22	Mar-23	
M3.4	Third report on NAP data availability	WG3	GR	Υ	Mar-23	Mar-23	Mar-23	
MS.1.9	NAPCORE – EU Commission communication summary	S1	DE-BASt	N	Nov-22	Feb-23	Feb-23	
MS.1.5	Project Progress Report 2022	S1	DE-BASt	Υ	Nov-22	Dec-22	Feb-23	
MS.1.17	Financial Statement 2022	S1	DE-BASt	N	Feb-23	Feb-23	Feb-23	
MS.1.13	Core Alignment Team report of main activities and decisions	S1	DE-BASt	N	Nov-22	Feb-23	Feb-23	



M4.1.406	Standardisation proposals (either direct or via ITS rolling workplan) 2024	SWG4.1	NL	Υ	Sep-23	Sep-23	Sep-23	
M4.1.603	Standardisation proposals (either direct or via ITS rolling workplan)	SWG4.1	NL	N	Sep-23	Sep-23	Sep-23	
M1.2	Develop strategic position and a common strategy for cooperation with global players and related activities	WG1	DE-BASt	Υ	Sep-22	Oct-22	Oct-23	
M2.8	Presentation of the following Annual Work Plan 2024	WG2	PT-IMT	N	Oct-23	Oct-23	Oct-23	
M4.1.206	Workplan 2024	SWG4.1	NL	N	Oct-23	Oct-23	Oct-23	
M4.3.4	SubWG4.3 working programme 2024	SWG4.3	ITxPT	N	Oct-23	Oct-23	Oct-23	
M5.7	WG5 Working Programme	WG5	AT-ATE	N	Oct-23	Oct-23	Oct-23	
M4.3.3	Report on gaps, overlaps of standards for multimodal data exchange	SWG4.3	ITxPT	Υ	Nov-23	Nov-23	Nov-23	
MH.2.2	Actions needed and recommendations reported in Project Progress Report 2023	H2	NL	Υ	Nov-23	Nov-23	Nov-23	
MH.3.4	Second NAPCORE Multi-Day Event	Н3	IT	Υ	May-23	Nov-23	Nov-23	
MH.3.8	2023 Dissemination activity report (separate or as part of project progress report)	Н3	IT	N	Nov-23	Nov-23	Nov-23	
MS.1.10	NAPCORE – EU Commission communication summary	S1	DE-BASt	N	Nov-23	Nov-23	Nov-23	
MS.1.14	Core Alignment Team report of main activities and decisions	S1	DE-BASt	N	Nov-23	Nov-23	Nov-23	
MS.1.3	Working Programme 2024	S1	DE-BASt	Υ	Nov-23	Nov-23	Nov-23	
M1.1-2023	Develop strategic position and a common strategy for EU policies and developments	WG1	DE-BASt	Υ			Dec-23	
M1.3	Develop strategy and structure for future long-term governance of the NAP/ NB platform	WG1	DE-BASt	Υ	Dec-23	Dec-23	Dec-23	



M2.7	An updated list of requirements concerning (the use of) data standards, reference profiles and metadata to be handed over to SWGs on standardisation and/or standardisation organisations.	WG2	PT-IMT	Υ	Dec-23	Dec-23	Dec-23	
M2.9	Harmonisation of EU NAP architectures and first layout of potential NAP federation	WG2	PT-IMT	Υ	Dec-23	Dec-23	Dec-23	
M4.0.3	Update of Roadmap	WG4	FR	N	Jun-23	Jun-23	Dec-23	
M4.1.102	Change requests for relevant parts of DATEX II for alignment of agreed additional topics	SWG4.1	NL	Υ	Dec-23	Dec-23	Dec-23	
M4.1.205	Progress report 2023	SWG4.1	NL	N	Dec-23	Dec-23	Dec-23	
M4.1.312	Report on provided support, dissemination, education and training	SWG4.1	NL	N	Dec-23	Dec-23	Dec-23	
M4.1.402	Version 3.5 with accompanying RRP's and RSP's	SWG4.1	NL	Υ	Dec-23	Dec-23	Dec-23	
M4.1.605	Annual inventory of new topics	SWG4.1	NL	N	Dec-23	Dec-23	Dec-23	
M4.2.11	TN-ITS network meeting reports	SWG4.2	ERTICO	Υ	Jun-23	Jun-23	Dec-23	
M4.2.2	Contribution to the Roadmap for harmonisation	SWG4.2	ERTICO	N	Nov-22	Nov-22	Dec-23	
M5.9	National Body Reference Architecture defined and agreed	WG5	AT-ATE	N	Dec-23	Dec-23	Dec-23	
MH.1.8	Steering Committee Meeting	H1	AT-ATE	Υ	Dec-23	Dec-23	Dec-23	
MH.3.7	2022 Dissemination activity report (separate or as part of project progress report)	Н3	IT	N	Nov-22	Nov-22	Dec-23	
M5.10	Prototypical multi-national compliance assessment demonstrated	WG5	AT-ATE	Υ	Jul-24	Jul-24	Dec-23	
MS.1.18	Financial Statement 2023	S1	DE-BASt	N	Feb-24	Feb-24	Feb-24	
MS.1.6	Project Progress Report 2023	S1	DE-BASt	Υ	Nov-23	Nov-23	Feb-24	
M3.6	Fifth report on NAP data availability	WG3	GR	Υ	Mar-24	Mar-24	Mar-24	
M2.11	NAP reference architecture	WG2	PT-IMT	N	TBD	Jun-24	Jun-24	
M4.1.303	DATEX II user forum	SWG4.1	NL	Υ	Jun-24	Jun-24	Jun-24	
M4.1.308	Masterclass DATEX II Programme	SWG4.1	NL	Υ	Jun-24	Jun-24	Jun-24	
M4.2.5	Technical specifications	SWG4.2	ERTICO	Υ	Jun-24	Jun-24	Jun-24	





MH.1.9	Steering Committee Meeting	H1	AT-ATE	Υ	Jun-24	Jun-24	Jun-24	
M3.8	Data quality assessment framework and processes	WG3	GR	Υ	Mar-23	Mar-23	Jun-24	
M5.8	Strategies and actions for non-compliance defined	WG5	AT-ATE	N	Dec-23	Dec-23	Jun-24	
M4.1.407	Standardisation proposals (via ITS rolling workplan) 2025	SWG4.1	NL	Υ	Sep-24	Sep-24	Sep-24	
M4.2.9	Recommendations for DG MOVE for TN-IST deployment in EU Member States	SWG4.2	ERTICO	N	Sep-24	Sep-24	Sep-24	
M4.3.5	Mapping of multimodal data standards and recommendations	SWG4.3	ITxPT	Υ	Sep-24	Sep-24	Sep-24	
M4.4.3	Two-year-anniversary of napDCAT-AP review session and stakeholder workshop	SWG4.4	DE-BASt	N	Oct-23	Oct-23	Sep-24	
M1.1-2024	Develop strategic position and a common strategy for EU policies and developments	WG1	DE-BASt	Υ			Oct-24	
MH.1.10	Final report on strategic exchange, cooperation and collaboration with externals and relevant stakeholder	H1	AT-ATE	Υ	Oct-24	Oct-24	Oct-24	
MH.2.3	Actions needed and recommendations reported in Final Project Report	H2	NL	Υ	Nov-24	Nov-24	Nov-24	
MH.3.5	Final NAPCORE Multi-Day Event	Н3	IT	Υ	Nov-24	Nov-24	Nov-24	
MS.1.11	NAPCORE – EU Commission communication summary	S1	DE-BASt	N	Nov-24	Nov-24	Nov-24	
MS.1.15	Core Alignment Team report of main activities and decisions	S1	DE-BASt	N	Nov-24	Nov-24	Nov-24	
MS.1.7	Final Project Report	S1	DE-BASt	Υ	Nov-24	Nov-24	Nov-24	
M1.4	Long-term governance structure implemented	WG1	DE-BASt	Υ	Dec-24	Dec-24	Dec-24	
M2.10	At least two further demonstrators with real-world use of data and different Levels of Service – 2nd round	WG2	PT-IMT	Υ	Dec-24	Dec-24	Dec-24	
M3.10	Technical options for data visualisation	WG3	GR	Υ	Dec-24	Dec-24	Dec-24	

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M3.11	Terms and conditions for data reuse (incl. GDPR implications)	WG3	GR	Υ	Jun-24	Jun-24	Dec-24	
M3.12	European NAPs added value scenarios in key application areas	WG3	GR	Υ	Dec-24	Dec-24	Dec-24	
M3.13	Final training material for NAP content and accessibility and training events' completion	WG3	GR	N	Dec-24	Dec-24	Dec-24	
M3.7	Final report on NAP data availability	WG3	GR	Υ	Dec-24	Dec-24	Dec-24	
M3.9	Report on pilot data quality certifications	WG3	GR	Υ	Jun-24	Jun-24	Dec-24	
M4.1.207	Final report 2024	SWG4.1	NL	Υ	Dec-24	Dec-24	Dec-24	
M4.1.304	Enhanced user documentation on profiles	SWG4.1	NL	Υ	Dec-24	Dec-24	Dec-24	
M4.1.313	Report on provided support, dissemination, education and training	SWG4.1	NL	N	Dec-24	Dec-24	Dec-24	
M4.1.403	Version 3.6 / 4.0 with accompanying RRP's and RSP's	SWG4.1	NL	Υ	Dec-24	Dec-24	Dec-24	
M4.1.606	Annual inventory of new topics	SWG4.1	NL	N	Dec-24	Dec-24	Dec-24	
M4.2.12	TN-ITS network meeting reports	SWG4.2	ERTICO	Υ	Jun-24	Jun-24	Dec-24	
M4.2.13	TN-ITS network meeting reports	SWG4.2	ERTICO	Υ	NA	Dec-24	Dec-24	
M4.2.7	Guide on ensuring potential deployment of trust, quality, integrity, and security of data established. Concepts of data evaluation tools (update).	SWG4.2	ERTICO	Υ	Dec-24	Dec-24	Dec-24	
MH.1.11	Steering Committee Meeting	H1	AT-ATE	Υ	Dec-24	Dec-24	Dec-24	_
MH.3.9	2024 Dissemination activity report (separate or as part of project progress report)	Н3	IT	N	Dec-24	Dec-24	Dec-24	_
MS.1.19	Financial Statement 2024	S1	DE-BASt	N	Feb-25	Feb-25	Feb-25	

#### 2. Action Plans

## 2.1 Action Plan for the implementation of the RTTI DR revision

### **Action Plan summary**

Action Plan ID	AP221
Action Plan lead activity	WG1
Action Plan lead partner	NL (NDW)
Action Plan contributing partners	All active WG1 partners, WG3
Related Milestone(s)	MH2.1, MH2.2, MH2.3

#### Description of the topic and goal for NAPCORE

The Real-Time Traffic Information) Delegated Regulation (DR), published December 18, 2014 (2015/962), was revised in February of 2022 (2022/670). Even though the parent ITS Directive 2010/40 is currently under revision, the revised RTTI DR includes an extension of the network. A phased implementation is foreseen to gradually increase the geographical scope of accessible data:

- 1 January 2023 provide a list and map visualisation of roads included in the 'primary road network'
- 1 January 2025 provide all crucial data categories for the entire network, other data for primary road network
- 1 January 2025 1 January 2027 provide all data categories for the entire network.

The revised RTTI DR also implies alignment on several aspects, preferably on EU-level:

- Agreement on data definition, data format and metadata
- Alignment of methods for location referencing
- Agreement on common definitions of data quality to use common data quality indicators, including how to measure and monitor quality.
- Agree with stakeholders on what the minimum quality requirements should be
- Agreement on additional or alternative standards (if necessary)
- Defining common FRAND terms
- Harmonising compliance assessment.

The revised RTTI DR not only has implications for road authorities, but for private organisations as well:



- Digital map producers should be encouraged to integrate relevant data updates into their existing map and map update services in timely manner.
- Service providers shall process and include, without additional costs to end users, in the relevant services they provide, any temporary traffic management measures developed by the competent authorities and made accessible by the NAPs in a machine-readable format.
- To comply with public policies such as road safety, service providers and digital map producers should collaborate with public authorities to correct inaccuracies in their data (feedback loop).

Each MS within NAPCORE must provide a list and map visualisation of roads included in the 'primary road network'. To be able to provide this list and map, it is important to have an overview of the 'as is' situation per MS as well as a roadmap on how gradually implement the revised RTTI DR. By reaching an agreement in an early phase, both on public and private sides, on which particular elements it is necessary to align at EU-level - in order to best facilitate the deployment of services –divergent implementation of the revised RTTI DR can be prevented. In the RTTI Action Plan the focus will be on use cases, how public authorities and private service providers can best work together on these use cases and then see what this means for the data to be provided on a NAP, including all relevant elements (data quality, feedback loop, data processing, etc.).

Action description	Goal	Output(s) and relevant MS	NAPCORE activities, tasks / partners leading	Est. time
Organise a workshop at the NAPCORE Data Days	Open, first debate on revision of the Regulation: (1) what is the impact of the extension of the geographical scope, (2) what do the requirements for the private parties mean, (3) how can we as NAPCORE address (1) and (2)?	Internal note	WG1, H2	11/22
Get an overview of current RTTI data on all NAPs (survey and/or research on NAP's)	State of the actual implementation of the Delegated Regulation (which data for which type of roads, data format/standard/current quality criteria and scores on these quality criteria)	-	WG2 / WG3	01/23
Organise a webinar together with partners from the Advisory Board (service providers, TISA, TM2.0, POLIS, CEDR)	to (1) give an overview of the revised RTTI DR, (2) to hold on to and to proceed on the awareness raised during the NAPCORE Data Days, (3) get an overview of challenges road authorities are currently encountering in the information and route advice given by service providers. Result: use cases to work	Webinar plus short questionnaire send out in advance to all the Member States	NL, Advisory Board members	01/23



	on together and a first categorisation in levels of cooperation needed with service providers.			
Discussion in the physical TM2.0 meeting on February 22nd in Brussel on what the overview of use cases and the levels of complexity mean for the levels of collaboration defined a few years ago in TM2.0.	To update the levels of collaboration for TM2.0 and align them with what is necessary to work together in the defined use cases.	Updated levels of cooperation for TM2.0	NL, Advisory member TM2.0 together with other Advisory members	02/23
Physical meeting with road authorities and service providers at TomTom headquarter in Berlin	To classify the use cases on level of cooperation needed and start elaborating.	Agreement on use cases to align on	NL, Advisory member TomTom together with other Advisory members	03/23
Update of the RTTI Action Plan	Bring more focus in the RTTI Action Plan and elaborate on concrete steps to work on	Updated RTTI Action Plan	NL	03/23
SCOM approval of the RTTI Action Plan	Agreement within NAPCORE on which aspects to address within NAPCORE	SCOM decision	WG1	03/23
Implementation of NAPCORE elements of RTTI Action Plan in Working Programme 2023	Addressing NAPCORE tasks concerning the RTTI DR to the relevant WG's	Draft working programme	WG1	Starting in 03/23

## **Description of outcomes**

This Action Plan only lists the first steps to further define more actions in an updated Action Plan on this topic. The main goal of the activities described above is to come to agreement on use cases to elaborate in public private collaboration. The RTTI Action Plan will be updated with the outcome of this first steps. For this Action Plan update, a further SCOM approval is going to be needed.



### 2.2 Action Plan on Parking Data Standards Alignment

#### **Action Plan summary**

Action Plan ID	AP222
Action Plan lead activity	WG4 (specifically SWG 4.1 and SWG4.2)
Action Plan lead partner	NAPCORE Parking Ambassadors ERTICO and DE-BASt
Action Plan contributing partners	All (S)WG4 partners
Related Milestone(s)	Multiple

#### Description of the topic and goal for NAPCORE

The objective of this action plan is related to different aspects of parking data exchange and publication. The main focus for 2023 is the following:

- Alignment of parking data model between CEN standards, by deciding on reference data model for overlapping data categories between ITS delegated regulations.
- The NAPCORE Ambassador role, devised for the purpose of horizontal alignment among WGs, will support the implementation of the Action Plan on parking data, as liaison officer role between the stakeholders of the ecosystem and the NAPCORE project (partners). It ensures mutual information exchange and contributes to ensuring that NAPCORE deliverables align with ecosystem partners' expectations.

List of planned actions towards goal

Action description 2023	Goal	Output(s) and relevant MS	NAPCORE activities, tasks /partners leading	Est. time
Inventory on involved standards:  - Review results of previous standardisation work  - Identify use cases for data reusage in the parking ecosystem  - Investigate overlaps and gaps in previous work	Preparatory action: Get clarity and agreement between standards DATEXII, NETEX, ADPS. Explain coexistence, overlap, usage of these standards related to parking data on NAPs	M.4.0.1	WG4, SWG4.1, SWG4.3 WG4.0 leading	Spring 2023



<ul> <li>Create a summary of what is missing to enable harmonisation</li> </ul>				
Alignment on involved standards:     Define the constellation between NAPs, the data delivery stipulations from the EC Delegated Regulations, and the roles & actors from the parking ecosystem as data providers/consumers.     Align terms and definitions with the existing data models based on detailed mapping     Deliver a mapping of concurrent data models, based on, e.g., the converter tool APDS / NeTEx French profile     Prepare training material and guidelines to indicate recommended data model and data exchange formats for parking data	Agreement between standards DATEXII, NETEX, ADPS	M.4.0.2 M.4.3.2 (for MMTIS)	WG4, SWG4.1, SWG4.3, EPA (as Cooperation Partner) WG4.0 leading	Fall 2023
Attend EPA congress 12-14 September 2022 Brussels  Align conclusions on the outcome of the congress  Define the role of NAPCORE and follow-up actions	Understanding the role of parking in the changing world, addressing the societal benefits and see what the role of NAP(CORE) can be to further contributeMutual win -win situation between NAPS and the parking Eco system  Detailed workplan 2023	minutes	/	done
Set up a Cooperation Agreement between EPA and NAPCORE	Define operation pieces of work, where EPA and NAPCORE want to cooperate	Cooperation Agreement Input to MH1.6	H1/WG4/CAT	11/22
Decision on Cooperation Agreement (SCOM)	•		H1/SCOM	12/22





Signature of Cooperation Agreement			General Secretary	12/22
Address the innovation part: Define the roadmap towards automation, with AVP (Automated Valet Parking) as a first focus topic Link with the mobility data space	Provide consultation and training to MS, cities, and regional authorities	Roadmap, Training (ERTIC ACADEMY) Webinars	Link with EAVP ERTICO O partners WG1 SWG4.3 2 workshops	12/23
Intensify stakeholder interactions (e.g., parking sessions at selected congresses, workshops with EPA)	Take into account stakeholder's perspectives within NAPCORE work	Documentation of stakeholder interactions	Parking Ambassadors	12/23
Define and agree on further actions for the parking topic	Further Actions	Input for Working Programme 2024	Parking Ambassadors	12/23

## **Description of outcomes/output (31 Dec 2024)**

The main outcome/output during 2023 will be an inventory on involved standards touching on data in the parking ecosystem, as well as first steps to reach an alignment of such standards, at least for data categories and uses cases covered by the EC Delegated Regulations. This work is based on an exhaustive analysis of previous standardisation items, a bird's eye view on potential data use cases and roles of data actors, and involvement of important industry stakeholders such as the European Parking Association (EPA). For EPA, first cooperation steps were already done in 2022: attending the EPA congress (September 2022) and signing of a Cooperation Agreement between EPA and NAPCORE (November 2022).

Further steps will be a holistic view of the standardisation landscape, involving all the relevant standards Working Groups in NAPCORE, and an elaboration of guidelines/recommendations for applying the standards in an integrated data ecosystem.



## 2.3 Action Plan for cycling and cycling infrastructure data

#### **Action Plan summary**

Action Plan ID	AP223
Action Plan lead activity	No specific lead activity
Action Plan lead partner	Cycling data ambassadors (Cristina
	Buraga, Ronald Jorna)
Action Plan contributing partners	Mainly NDW, Cerema, CERTH/HIT, ITxPT
Related Milestone(s)	-

#### Description of the topic and goal for NAPCORE

A number of developments have led to more political attention for cycling as a green mode of transport, such as the Covid-19 pandemic (during which cycling proved to be good alternative for public transport), the war in Ukraine (which led to efforts to reduce energy consumption), the climate crisis (efforts to reduce CO<sub>2</sub> emissions), and health concerns (bolstered by the knowledge that cycling can improve cardiovascular health and reduce air pollution).

The Green Deal (2019) and the Urban Mobility Framework (December 2021) are EU building blocks supporting the increased focus on cycling in the urban environment. The latter provides clear objectives concerning cycling:

- Promote active mobility (walking and cycling), including revised SUM
- P guidance documents, with more focus on walking and cycling.
- Protect vulnerable road users, including guidance on safe use of micro-mobility devices and quality infrastructure for vulnerable road users.
- Dedicate funding for cities under the EU Mission on Climate-neutral and Smart Cities.
- Incorporate urban mobility in the legislative work on the provision and processing of commercially sensitive data for multimodal digital mobility services (e.g. MaaS) and provide common European mobility data space to facilitate access to and sharing of mobility data.

Based on inputs from all WG, SWG and activity leaders in NAPCORE, an inventory has been made of the position of cycling data in NAPCORE and how/where this can be improved. As a result of this exercise, the following actions have been defined by the NAPCORE cycling data ambassadors in to improve the presence and visibility of cycling data in the NAPs in Europe.



## List of planned actions towards goal

Action description	Goal	Output(s) and relevant MS	NAPCORE activities, task /partners leading	Est. time
Set up a cooperation Agreement between CIE and NAPCORE	Define operation pieces of work, where Cycling Industries Europe and NAPCORE want to cooperate;	Cooperation Agreement Input to MH1.6	H1/WG4/WG3/WG1/CAT	11/22
Decision on Cooperation Agreement (SCOM)	Get approval from SCOM	Approval of SCOM	H1/SCOM	12/22
Signature of Cooperation Agreement	Formalise cooperation between NAPCORE and CIE	Signed Cooperation agreement with CIE	General Secretary	12/22
Inventory of activities in NAPCORE relevant for cycling and cycling infrastructure data	State of the art of actual implementation of the Delegated Regulation	Deliverables	Cycling ambassadors	done
Organise a workshop at the NAPCORE Data Days	Discuss the initial results related to cycling data and agree on action plan	Internal note	Cycling ambassadors	done
Set up a cross cutting standardisation workshop on cycling data	Identify cycling data priorities and develop standards and/or profiles for these data types together with the cycling sector.	Standards for prioritised cycling data	WG4 + cycling ambassadors	12/24
Share knowledge on cycling data through section on NAPCORE website	Sharing available knowledge in the field of cycling and cycling infrastructure data	Website section with relevant information on cycling data	cycling ambassadors	09/23
Make overview of cycling data available in NAPs	Make use of existing knowledge from countries already publishing cycling data on NAPs	Report (available on website)	WG3	06/23
Determine whether additional data categories/elements could enrich the data categories covered by MMTIS	Collect additional needs about data types missing from revised MMTIS del.reg. from different stakeholders. These can then be added to NAPs on a voluntary basis, and later included in a future revision.	Draft Paper	sWG4.3	06/23



Decide on validation tool for cycling data in NeTEx format	Tool can assist authorities in validating whether data are published in correct NeTEx format	Decision on recommendation of tool	sWG4.3	10/23
Decide on demonstration of NAP added value for cycling and cycling infrastructure data	Demonstrator will be a best practice for cycling data, thus serving as an example for other NAPs	Decision on creating a cycling data demonstrator	WG3	06/23
Provide dedicated training on cycling data in NAPs	Training specifically aimed at cycling and cycling infrastructure data. Action for 2024	Training	All WG/Act + ambassadors	06/24

## **Description of outcomes/output /impact**

See column of 'outputs' in table above.

#### 2.4 Action Plan for a NAP Reference Architecture

## **Action Plan summary**

Action Plan ID	AP224
Action Plan lead activity	WG2
Action Plan lead partner	PT
Action Plan contributing partners	GR, DE-BASt
Related Milestone(s)	M2.9

## **Description of the topic and goal for NAPCORE**

NAP architecture is one of the most critical drivers of the NAP ecosystem; it describes and documents all the different organisational layers (e.g., data collection layer, processing layer, user interface layer). The main target of a NAP reference architecture is (or should be) the description of how all these layers interact with each other, thus supporting their solid, smooth unification towards a common vision (i.e., the provision of reliable data to the ITS ecosystem). The NAP reference architecture related to the NAPCORE project focuses on multiple NAPs by gathering all minimum needed functionalities, processes, and interfaces to enable a harmonised exchange of information (data and metadata), creating the basis for an EU-wide mobility data space.



The vision of this Action Plan is multifarious. First, it should collect and identify all the necessary requirements to ensure that all aspects of interoperability have been considered. Second, it will define and document a NAP reference architecture in-line with the main goal of NAPCORE, which is the harmonisation of NAPs across Europe. Third, it aims to extend the role that NAPs can play by considering other ecosystems (e.g., Traffic Management, Trip Planning, UVAR, AFID). Finally, this Action Plan will position and specify the role of NAPs within a wider European ecosystem governed by new concepts, such as GAIA-X hubs and the European Mobility Data Space (MDS).

To achieve this vision, the following actions are planned for 2023.

### List of planned actions towards goal

Action description	Goal	Output(s) and relevant MS			
Define a common terminology to be adopted by the NAP reference architecture	That is a needed step for having a common understanding.	Relevance with M3.1	WG3	02/2023	
Define the types of NAP architecture (feedback also from T2.1 and WG3).	Each type of NAP requires a different approach and a different NAP architecture thereof. The goal is to define types and their basic description.	Internal note	WG2	03/2023	
Review results of previous related work/projects and develop a roadmap of what is missing and should be done (gap analysis with FRAME architecture).	Preparatory step to acquire a complete overview of what actions have been done within that field (and should not be repeated).	Internal note	WG2	05/2023	
Define all the artifacts/objects associated with NAPs and describe the interactions amongst them.	It is an important action before the development of the NAP reference architecture.	Internal note	WG2	06/2023	
Define basic minimum NAP functionalities and requirements that needs to be harmonised considering all NAPCORE activities/developments (e.g., interoperability demonstrators, added value use cases)	Since each country has implemented their NAP individually, each NAP has different functionalities and specifications. Thus, this step is required to figure out which are the minimum functionalities that needs to be harmonised. Across development discussed in other working groups.	Internal note	WG2	10/2023	



Develop models reflecting the minimum NAP architecture considering each NAP type.	This action includes development of draft models of NAP reference architectures with respect to required views and all artefacts/objects of the architecture.	Internal note	WG2	10/2023
Harmonisation of EU NAP architectures and first layout of potential NAP federation.	Develop a set of documents describing NAP reference architecture(s), using possibly a FRAME approach. The goal of the document is to define a reference architecture enabling NAP operation.	External Milestone 2.9	WG2	12/2023

## **Description of outcomes/output /impact**

An ITS architecture provides a view on how an ITS implementation should look from a system design perspective. It also describes the organisational, functional, and technical structures of different components, systems, or even external relations (e.g., relations among different stakeholders). The main output of certain tasks will be the designing of technical specifications for implementing a real-world system. Therefore, the NAP reference architecture will focus on all functionalities, specifications, and standards, which are necessary to be established, in order to exchange metadata and/or data in a harmonised and interoperable EU way. Another equally important mission will be the definition of the NAP position in a much wider data-sharing community (Mobility Data Space), giving added value to NAPs and steering them one step further in the mobility future.

## 2.5 Action Plan for examining the opportunities of NAPs regarding Mobility-as-a-Service solutions (MaaS)

Action Plan ID	AP225
Action Plan lead activity	WG1 in collaboration with WG2, WG3 and sWG4.3
Action Plan lead partner	BE (Mélisa Blot and David Schoenmaekers)
Action Plan contributing partners	All active partners
Related Milestone(s)	M1.1-2023

## **Description of the topic and goal for NAPCORE**





Since NAPs have made numerous datasets accessible, the question arises concerning how to increase their use and reuse. At least for MMTIS data, and partially RTTI data as well, MaaS might be a key use case.

## The goal is twofold:

- 1. Explore to what extent NAPs are already being used for MaaS applications and how to increase the usefulness of NAPs for MaaS
- 2. Contribute to the policy developments at a European level, major initiatives being the revision of the ITS Directive and its Delegated regulation with regard to the provision of EU-wide multimodal travel information services (Commission Delegated Regulation (EU) No 2017/1926) and the announced legislative project on Multimodal Digital Mobility Services (MaaS).

Concerning the contribution to EU policy, it is important to note that two actions are being treated in dedicated actions for the revision of the ITS Directive and MMTIS as part of the WG1 work (see M1.1). The MDMS initiative is outside the scope of the ITS Directive and is being prepared (2022/2023) in the Multimodal Passenger Mobility Forum (MPMF). This latter initiative is part of this Action Plan, although the consequences for NAPs are likely much more related to MMTIS then to the future MDMS regulation.

This Action Plan will be developed in close cooperation with the NAPCORE MaaS Ambassadors. The MaaS Alliance (member of the Advisory Board) is indicated as an important partner.

#### List of planned actions towards goal

Action description	Goal	Output(s) and relevant MS	NAPCORE activities, tasks / partners leading	Est. time
Organise a workshop at the NAPCORE  Data Days 2022	Collect information on current use of NAPs for MaaS and open the discussion towards opportunities to increase their use	Internal note	WG1/BE MaaS Ambassadors	11/22
Get an overview of current topics related to MaaS services within NAPCORE	Increase knowledge on current use related to MaaS	Internal note	WG1/BE MaaS Ambassadors	01/23
Bilateral meeting with MaaS Alliance	Discuss perspective of MaaS Alliance on the role of NAPs as a tool for MaaS solutions	Ideas for non- paper	MaaS Ambassadors	02/23



Evaluate opportunities towards MaaS	Prepare a proposal for possible actions and	Non-paper	WG1/BE	05/23
being a key use case for NAPs	opportunities, thus increasing NAPs' usefulness		MaaS Ambassadors	
NAPCORE workshop on the proposal (non-paper) towards MaaS as a use case	Receive input from members and Advisory Board members and adapt draft including future actions	Ideas for decision memo	WG1/BE MaaS Ambassadors	06/23
WG1 decision for strategy towards NAPs for SCOM approval	Decision memo for SCOM	NAPCORE strategy proposal	WG1/BE	07/23
SCOM approval of NAPCORE strategy towards MaaS	SCOM approved NAPCORE strategy	Approved NAPCORE strategy	H.1	09/23
Contribute to the action plan for the ITS Directive	Integrate possible relevant points for MaaS in the revised ITS Directive		WG1/BE	TBC
Contribute to the revision of the MMTIS Delegated Regulation	Integrate possible relevant points for MaaS in the revised MMTIS Regulation		WG1 / BE	TBC
Verify relevance of MDMS proposal for NAPs	Determine the added value of a NAPCORE position to align the Commission's MDMS proposal with NAP related issues	Internal note	WG1 / FR	After proposal COM 2023
Organise a workshop at the NAPCORE Data Days 2023 (tbd)	Present and discuss strategy on MaaS as a use case for NAPs and reflect on importance of Commission's MDMS proposal for NAPs		WG1/BE MaaS Ambassadors	2023

## **Description of outcomes/output**

The action plan MaaS will result in a NAPCORE-coordinated, SCOM-approved strategy for NAPs to increase their usefulness towards MaaS services.



### 3. Work Items

In this section, all work items toward milestones are listed that are not already covered in Action Plans in the previous section.

#### 3.1 Work Items of S.1

Work Item	S.1.1.1: Financial Reporting for 2023
Lead:	DE (BASt) / Project Secretariat
<b>Contributing partners:</b>	All partners
Start:	12/22
End:	2/23
Output Milestone:	MS.1.17 "Financial Statement 2022"
Description:	Managing internal financial reporting as well as official financial
	reporting to the EC

<ul><li>Inputs:</li><li>Every partner's financial records</li></ul>	•	Actions: Create financial statements Submit to Project Coordinator Check and validate financial statements for validity Identify missing supporting documents and records Consolidate the financial reports into a joint financial	•	Outputs: • Financial Statements as required by Grant Agreement (MS.1.17)
		reports into a joint financial report		

Work Item	S.1.1.2: NAPCORE Project Management
Lead:	DE (BASt) / Project Secretariat
Contributing partners:	AT-ATE, NL, IT, PT-IMT, GR, FR, ERTICO, ITxPT
Start:	ongoing
End:	ongoing
Output Milestone:	-
Description:	Strategic alignment of WG objectives, tracking milestones, risk and quality management

#### Inputs: Actions: Outputs: • Internal and external • Monitor the expenses • Topics for CAT milestones versus the budget meetings • Escalated issues for • Progress Reports and • Milestone and project financial statements status monitoring communication with CAT Meetings • Risk identification and SCOM • Quality and Risk tracking management plan (MS.1.8) • Escalation management • Set up and generate project templates, procedures, and tooling



	operate and support project	
	collaboration tools	

Work Item	S.1.1.3: Progress reporting
Lead:	DE (BASt) / Project Secretariat
Contributing partners:	AT-ATE, NL, IT, PT-IMT, GR, FR, ERTICO, ITxPT
Start:	10/23
End:	12/23
Output Milestone:	MS.1.5 "Project Progress Report 2022"
Description:	Managing internal progress reporting as well as official progress
	reporting to the EC

#### Inputs:

- Requirements for progress reporting from Grant Agreement
- Input from all partners
- Input from all Activity chairs

## .

#### Actions:

- Track submissions for progress report
- Consolidate submissions to create a consolidated NAPCORE project progress report



### Outputs:

Project Progress Report (MS.1.5)

Work Item	S.1.1.4: Creation of the consolidated NAPCORE Working Programme 2024
Lead:	DE (BASt) / Project Secretariat
<b>Contributing partners:</b>	AT-ATE, NL, IT, PT-IMT, GR, FR, ERTICO, ITxPT
Start:	8/23
End:	11/23
Output Milestone:	MS.1.3 "Working Programme 2024"
Description:	Creating the document structure, drafting and collecting input to the document, and polishing the final draft

<u>Inputs:</u>	1	Actions:	}	Outputs:	
Previous Working	7	Create Working Programme	7	<ul> <li>Project Working</li> </ul>	
Programme		for each Activity/ (S)WG		Programme (MS.1.3)	
Risk Tracking		Review and align Working			
CAT decisions, meeting		Programmes			
minutes		Consolidate into join			
		Working Programme			

Work Item	S.1.2.1: Communications with the European Commission
Lead:	DE (BASt) / Project Secretariat
Contributing partners:	AT
Start:	11/23
End:	11/23
Output Milestone:	MS.1.10 "NAPCORE – EU Commission communication summary"
Description:	Inputs, actions, and outputs are detailed below.



#### Inputs:

- Mail communication
- Decisions of the SCOM
- Decisions of the CAT
- External Milestones of the Activities/ (S)WGs



#### Actions:

- Communication or meetings with the Project Officer of the EU Commission
- Communications or meetings with other EU Commission staff



#### Outputs:

- Notes/ minutes from meetings and calls
- Feedback from the European Commission
- Chapter (MS.1.10) in Project Progress Report (MS.1.5)

Work Item	S.1.3.1: Internal Alignment - Core Alignment Team Meetings
Lead:	DE (BASt) / Project Secretariat
<b>Contributing partners:</b>	AT-ATE, NL, IT, PT-IMT, GR, FR, ERTICO, ITxPT
Start:	ongoing
End:	ongoing
<b>Output Milestone:</b>	-
Description:	Inputs, actions, and outputs are detailed below.

#### Inputs:

• Via chairs of all NAPCORE Activities and (S)WGs



#### Actions:

- Write meeting minutes
- Identify issues to be addressed and track them
- Discuss options to resolve
- Decide on actions to take



#### Outputs:

 Meeting minutes including documentation of decisions

#### 3.2 Work Items of H.1

Work Item	Steering Committee Meeting
Lead:	AT
<b>Contributing partners:</b>	CAT, H.1 Active partners, NAPCORE Chairperson, SCOM Members
Start:	4 times a year (March, June, September, December)
End:	4 times a year (e.g., Thursday, 9th March 2023; Wednesday, 21st June 2023; Tuesday, 26th September 2023; Tuesday, 12th December 2023)
<b>Output Milestone:</b>	MH1.7 (June 2023), MH1.8 (December 2023)
Description:	NAPCORE Steering Committee Meetings are arranged by Horizontal Activity H.1 Steering Committee Support, which as well prepares the agenda and minutes, in accordance with the chairperson. Decision points need to be clearly indicated in the agenda and supporting documents need to be delivered beforehand.



#### Inputs:

- Decision Points
- Activity/WG Inputs



#### Actions:

- Organisation of a physical Steering Committee Meeting:
- Discussion and strategic alignment on all decision points in the CAT
- Elaboration of agenda as well as preparation of decision points and supporting documents in H.1 Working meeting
- Send out agenda and decision points to chairperson
- Send out agenda and decision points to SCOM
- NAPCORE Steering Committee Meeting
- Elaboration of minutes
- Approval of meeting minutes



#### **Outputs:**

- (Physical meetings are organised)
- Approved decision points and supporting documents for the SCOM in CAT
- Draft agenda, decision points and supporting documents for the SCOM in H.1 working meeting
- Decision on all points in SCOM
- Send out of elaborated meeting minutes
- Steering Committee
   Meeting minutes are
   approved

Work Item	Identify further strategic relevant issues to set up Cooperation				
	Agreements				
Lead:	AT				
<b>Contributing partners:</b>	H.1 Active Partners				
Start:	ongoing				
End:	ongoing				
Output Milestone:	MH1.10				
Description:	Inputs, actions, and outputs are detailed below.				

#### Inputs:

- Identification of key domains, topics or gaps within NAPCORE.
- Determination of relevant associations for potential cooperation (with support of NAPCORE's H.2 activity)
- Assessment of request for Cooperation Agreements



#### Actions:

- Identify suitable links to relevant stakeholders
- Get in contact with the related stakeholders and discuss possible content of a cooperation agreement
- Set up cooperation agreements (e.g. with C-Roads, TISA, ...)
- Signature process



#### Outputs:

- Possible partners for Cooperation Agreements
- Signed Cooperation Agreements

Work Item	Advisory Board Meeting
Lead:	AT
<b>Contributing partners:</b>	H.1 Active Partners
Start:	2 times a year





End:	2 times a year
Output Milestone:	-
Description:	The Advisory Board is an advising body for solicited and unsolicited advice to the NAPCORE Steering Committee and NAPCORE Activities regarding the project and its interactions in the European ITS ecosystem. The main task of the Advisory Board is to give overall non-binding strategic advice to serve the common objectives and vision of NAPCORE.

Inputs:		Actions:		Outputs:
Define strategic questions	7	(Organisation of a physical	7	Solicited and unsolicited
out of NAPCORE activities/		Meeting)		advice to the NAPCORE
WGs		Discussion and strategic		Steering Committee and
<ul> <li>Specific Milestone reports,</li> </ul>		alignment on strategic		NAPCORE Activities
dedicated to Advisory Board		questions in the CAT		
		Elaboration of agenda as		
		well as preparation of		
		strategic questions		
		(supporting documents) in		
		H.1 Working meeting		
		<ul> <li>Send out agenda and</li> </ul>		
		decision points to AB		
		NAPCORE Advisory Board		
		Meeting		
		<ul> <li>Post-preparation and</li> </ul>		
		Elaboration of minutes		
		Approval of meeting		
		minutes		

Work Item	Regular management of the Advisory Board Members List
Lead:	AT
Contributing partners:	
Start:	ongoing
End:	ongoing
Output Milestone:	-
Description:	Keeping the Advisory Board Members List up-to-date

<ul><li>Inputs:</li><li>Advisory Board members</li></ul>	Actions:  • Management of List	Outputs:  • Updated Advisory Board Members List

## 3.3 Work Items of H.2

Inputs:	Actions:	Outputs:
Internal	<ul> <li>Create template for the list</li> </ul>	<ul> <li>Template for listing</li> </ul>
<ul> <li>WG 1: ongoing</li> </ul>	of relevant internal and	relevant sources and
• WG 2: overview of gaps and	external sources and topics	topics
actions needed (6/2022)	(Policy/action, innovation,	



- WG 3: Data content existing gaps (6/2022)
- WG 3: data quality assessment report (3/2023)
- WG 4: change requests (12/'21, '22, '23)
- WG 4: Inventory future work/net topics (12/'22, '23, '24)
- WG 4: Report on gaps, overlaps standards for multimodal data exchange (11/'23)
- WG 5: Strategies and actions to address (12/'22)
- CAT meetings

#### External

- EU policy papers / EU website
- Mobility Data Space concepts and documents
- Revised ITS Directive and DR's
- Sustainable and Smart Mobility Strategy 2020
- European Data Strategy
- H2020/CEF funded projects
- Other Platforms (CCAM, C-Roads, MaaS Alliance, ...)
- other

- WG, relation to NAPCORE / NAP / NB
- also: relevance, stakes and stakeholders, contact persons
- Define "Gap" criteria
- Define criteria for structuring / categorising Gaps
- Identify internal gaps (other WGs)
- Identify gaps based on external sources (Meeting representatives from the EU Commission, Interview/talk with relevant stakeholders (EC, Advisory board, MS etc.)
- Create list of "Gaps" and structure them

- List of gap identification criteria (relevance, for who)
- List of gap structuring criteria (priorities, recipient)
- Yearly document with a structured / categorised list of further topics and gaps to be addressed within NAPCORE and/or else

Task leader/task	Active		l cannot contribute
2022: NL 2023: NL 2024: NL	GR, IT, LV, RO, SI	BE, HR, CY, DK, EE, FI, DE-Bast, GR-EG, HU, LT, LU, MT, PL, PT, ES, SE, UITP, ITxPT	
Create template for the list of relevant internal sources and topics.	Task leader (NL) + AT + IT	-	
Define "Gap" criteria	GR + RO	-	
Define criteria for structuring / categorising Gaps	CZ + LV	_	
Identify/monitor internal gaps (other WGs)		-	
<ol> <li>monitor WG1</li> <li>monitor WG2</li> </ol>	RO SI		
3. monitor WG3	LV / GR		
<ol> <li>4. monitor WG4</li> <li>5. monitor WG5</li> </ol>	FR AT		



6. monitor CAT/SCOM	NL		
Identify gaps based on external	n/a in 2022	_	
sources			
Create list of "Gaps" and	Task leader +		
structure them	AT, FR, CZ		
Review Gap list	All	All	
Participate in task meetings	All	-	
Participate in bi-annual	All	All	
progress meetings (combined			
task/activity meeting)			

## 3.4 Work Items of H.3

Work Item	Second NAPCORE Multi-Day Event
Lead:	IT/HU
<b>Contributing partners:</b>	Active partners H.3: IT/HR/CY/CZ/FR/DE-
	BASt/GR/HU/NL/MT/RO/SI/UITP/ITxTP
Start:	01/2023
End:	11/2023
Description:	M.H.3.4 - Organisation of the second NAPCORE multi-day event in
	Hungary

Inputs: Second NAPCORE Multi-Day Event	<ul> <li>Actions:         <ul> <li>Organise the event and plan the sessions</li> <li>Present the results so far achieved</li> <li>Take a glance into the future</li> <li>Discuss current and future policies concerning the strategies promoted by the European Commission</li> <li>Ensure interaction with stakeholders, experts, data providers, data users and related communities</li> <li>Involve representatives of the Ministry of the hosting country</li> <li>Promote interactions among participants during opening session/Social</li> </ul> </li> </ul>	Outputs:  Proceedings of the event: publication, articles, highlights, news, posts  Share experiences and good practices, together with external stakeholders, to reinforce European cooperation  Create and keep open an information channel in both directions with: stakeholders, experts, data providers, data users and related communities  Organisation of technical visits during the event
	among participants during	technical visits during



Work Item	2023 Dissemination activity report (separate or as part of project
	progress report)
Lead:	IT
<b>Contributing partners:</b>	Active partners H.3: IT/HR/CY/CZ/FR/DE-
	BASt/GR/HU/NL/MT/RO/SI/UITP/ITxTP
Start:	01/2023
End:	11/2023
Output Milestone:	MH3.8
Description:	MH.3.8 - Writing of the Dissemination report on the activities carried out during the 2023

Inputs: 2023 Dissemination activity report (separate or as part of project progress report)	•	Actions:  Consider and report all main topics discussed in the activity  Focus on the activities developed  Collection of contributions from partners  Report the cooperation with other (s)WG leaders for activity of dissemination  Presentation of trainings and dedicated workshops	•	Outputs:  Report on all dissemination activities and on the main progresses in collaboration with WGs  Develop appropriate communication tools (improvement of website)  Establishment of a link to other European initiatives
		<ul> <li>Mention the internal and external support of trainings</li> </ul>		<ul> <li>Show the results of trainings and workshops</li> </ul>

## 3.5 Work Items of WG1

Task 1.1 "Strategy towards EU policies and developments"

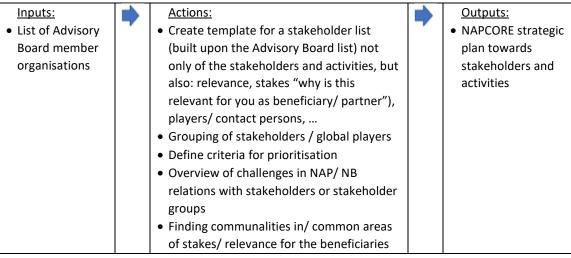
Work Item	1.1: Update of Strategy toward EU policies and developments MS
Lead:	DE (BASt)
Main contributing	AT-ASFINAG, AT-ATE, BE, CZ, DK, GR, NPRA, PT, RO, SE
partners:	
Start:	1/23
End:	10/23
<b>Output Milestone:</b>	M1.1-2023 "NAPCORE strategic position and a common strategy for
	EU policies and developments - 2023"
Description:	The initial M1.1 document only contained (next to a common
	position on the ITS Directive revision) an overview of relevant EU
	policies and developments together with a prioritisation and
	planned actions towards those, it is foreseen to continue the work
	begun and both monitor ongoing developments and consolidate a
	strategic positioning and actions regarding the most important and
	urgent policies and developments on EU level.



Inputs:  • M1.1-2022 milestone document  • Prioritised list of EU policies and developments	Actions:  • Monitor for new EU policies and developments and add to and prioritise in tracking list  • Track ongoing developments of EU policies and developments  • Create list of general strategic positions and actions that NAPCORE can have/make in relation to EU policies and developments  • Discuss and agree on actions in regards to highest prioritised EU policies and developments  • Carry out those actions  • Report on those actions and positions in updated MS document M1.1-2023	•	Outputs:  • Updated MS document  "NAPCORE Strategy towards EU policies and developments - 2023"  (M1.1-2023)
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Task 1.2 "Strategy towards stakeholders and activities (non-EU policy related)"

Work Item	1.2: Strategy towards stakeholders and activities
Lead:	DE (BASt)
Main contributing	BE, DK, ES, GR, NL, RO-ITS, UITP
partners:	
Start:	10/22
End:	10/23
Output	M1.2-2023 "Develop strategic position and a common strategy for
Milestone:	cooperation with global players and related activities - 2023"
Description:	Goal of this work item is to create the M1.2 document on a strategic
	position and common strategy for cooperation with global players and
	related activities. It serves to identify and monitor existing and upcoming
	organisations, projects, activities or initiatives in the mobility data and
	data exchange domain outside of the EU policy related activities, to
	consider or incorporate relevant or valuable results, e.g. via regular
	liaisons. A common communication guideline shall be established,
	especially towards global players and international organisations and
	activities.





	<ul> <li>(relating to specific stakeholder groups) =&gt; goals of NAPCORE for all partners</li> <li>Analysing the benefits and downsides of the various strategy options</li> <li>Creation of an overview of possible strategies towards stakeholders</li> <li>Select challenges that can be tackled and benefits gained with/ using NAPCORE considering the communalities in the goals of the beneficiaries</li> <li>Select the strategy options for the individual stakeholder groups and activities</li> </ul>		
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Task 1.3 "Future and sustainable governance structure of the NAP/ NB platform"

Work Item	1.3: Future and sustainable governance structure of NAPCORE
Lead:	DE (BASt)
Main contributing	AT-ASFINAG, AT-ATE, CZ, ES, GR, NL, HR, HR-CESTE, RO-NCRIA, UITP
partners:	
Start:	10/22
End:	12/23
Output	M1.3 "Develop strategy and structure for future long-term governance
Milestone:	of NAPCORE"
Description:	The runtime of the NAPs is not limited according to the ITS Directive and
	its Delegated Regulations. Also, the work needed to ensure continued
	harmonised and coordinated operation of the European NAPs will not be
	finished – there will always be a need to improve interoperability, work
	on standards and recommendations, discuss data quality improvement
	campaigns etc. This is stark contrast to the limited runtime that
	NAPCORE has in the framework of the current CEF PSA project.
	This task is to develop a position and strategy for NAPCORE for a suitable
	long(er) term operation including the governance structure and setup
	needed for that.

Inputs:		Actions:		Outputs:
Inputs: • M1.1	•	Actions:  Collect experiences of NAPCORE partners that are international organisations about the pros and cons of becoming a Belgian AISBL or similar  Evaluate possibilities regarding prolonging current CEF PSA project  Evaluate possibilities regarding a new DG MOVE call that would suit for a "NAPCORE 2.0" project  Evaluate other possibilities for	•	Outputs:  • M1.3 "Strategy and structure for future long-term governance of NAPCORE"
		organisational, administrative and financial setup for a continuation of NAPCORE		



<ul> <li>Benchmark and review other domains on how similar situations/challenges have been approached</li> <li>Decide on recommendation for a governance structure and organisational setup and detail this out in M1.3</li> </ul>	
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Task 1.4 "Facilitate decision making on strategic questions raised from within NAPCORE"

Work Item	1.4 Facilitate decision making on strategic questions
Lead:	DE-BASt
Main contributing	AT, BE, HR, CZ, FR, GR, IT, LV, LU, NL, PL, PT, RO, ES, SE, UITP, NPRA
partners:	
Start:	12/22
End:	12/23
Output Milestone:	none (possibly indirect)
Description:	Task 1.4 is a new task, not explicitly listed in the Grant Agreement or previous NAPCORE Working Programme. Nevertheless, the work on this task was deemed to be of crucial importance for NAPCORE and WG1 seemed to the CAT as "natural place" to locate the work towards it in.  Goal of this task is to create the NAPCORE internal organisational structure and process to facilitate decision making on strategic questions raised from within NAPCORE and then to use those established structures to create "NAPCORE-approved" positions. For example, this task could take on identified gaps from within WG1, H.2 or any other NAPCORE activity that are NAPCORE internal and strategic in nature, organise workshops, meetings, discussions with internal and external stakeholders considering work, results, or input from other NAPCORE activities, prepare a recommendation or decision document for SCOM decision/approval.  Rather than doing this over and over from scratch, this task would create a workflow and procedure template that can be reused for multiple questions at hand. With this we hope to be more efficient, faster and also more transparent.

Inputs:  • Example strategic questions from WG1, H.2 and CAT	•	Actions:  Decide on 2 topics/questions that act as examples and testcases  Create first draft of a decision-making workflow and process based on first selected topic/question  Trial of the draft workflow for both first and second topic/question selected  Review of process/workflow and enhance and improve it  Get SCOM approval for this workflow	•	Outputs:  Workflow/process for NAPCORE decision-making  First decisions created/approved using the workflow created
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## 3.6 Work Items of WG2





Work Item	2.1.1 NAP state of practices, ambitions and needs
Lead:	NL
Contributing	AT, CZ, DE, GR, HU, MT, NL, PT
partners:	
Start:	11/21
End:	12/22
<b>Output Milestone:</b>	
Description:	Desk research and MS consultation on NAP state of practices.

- Current experiences from Member States NAP prestudies
- NAP reference architectures
- NAP impact assessments

## Actions:

- Identification and contact of each MS representative to support info collection
- Definition of a structured list of topics and subjects to be assessed by MS including:
  - a. Overview of existing functionalities, capabilities, technical interfaces, etc.
  - b. Current definitions of NAP Level Services by Member States.
  - c. Member
    States practices
    regarding access to data
    under terms and
    conditions, via the NAPs.
  - d. State of practice on NAPs sustainability models (e.g. local language barriers, search functionality, guest/registration, ...).
  - e. Assessment of costs and benefits of the different NAP architectures.
- Provide each MS with a structured list of topics and collect input
- Analysis (pre-assessment) and harmonisation of the collected information into a structured format.
- Organisation of workshop(s) for the validation and assessment of the NAP state of practices, ambitions and needs.

- Overview of existing functionalities, capabilities, technical interfaces, etc. of the NAPs at European level (in cooperation with WG3)
- Repository of documents of experiences with the preparation and deployment of individual NAPs



<ul> <li>Repository of documents of</li> </ul>	
experiences with the	
preparation and	
deployment of individual	
NAPs:	
a. Setup a	
process for collection,	
storage and access to	
the documents	
b. Conclude	
the drafting of a position	
paper/executive	
summary regarding the	
various European	
approaches towards	
NAPs' LoS	
	experiences with the preparation and deployment of individual NAPs:  a. Setup a process for collection, storage and access to the documents  b. Conclude the drafting of a position paper/executive summary regarding the various European approaches towards

Work Item	2.1.2 NAP Levels of Services definitions
Lead:	NL
Contributing	AT, CZ, ES, GR, HU, IT, MT, NL, PT,
partners:	
Start:	11/21
End:	12/22
Output Milestone:	Report - M2.1 Typology of NAPs based on the description of levels
	of service and assessment of associated costs and benefits
Description:	Definition of several fixed levels of service of NAPs

#### Inputs: Actions: Outputs: • Results from work item • M2.1 Typology of • Workshop(s) to review EU EIP 2.1.1 documents and identify NAPs based on the complementary characteristics or description of levels of topics of the NAP Level of Service service and definition including the following assessment of perspectives: associated costs and benefits Technological substance (e.g., cloud-like, metadata repository-like, etc.) Identification of b. centralised/decentralised/hybrid operations Security requirements c. Connectivity requirements User management requirements f. Visibility rules g. Governance structure Monitoring & Analytic requirements Added value requirements



. /0 !:	
j. (Compliance	
assessment requirements)	
k. Accounting (or not)	
for the existence of Mobility	
Data Space	
Definition of criteria for assessing and	
ranking NAPs level of service	
Development of draft report	
"Typology of NAPs based on the	
description of levels of service and	
assessment of associated costs and	
benefits"	
Review of draft report by Member	
States representative	
Completion of the report "Typology	
of NAPs based on the description of	
levels of service and assessment of	
associated costs and benefits"	

Work Item	2.1.3 Listing of gaps and actions towards interoperability of Level of Services
Lead:	NL
Contributing	AT, CZ, DK, ES, GR, HU, IT, MT, NL, PL, PT
partners:	
Start:	11/21
End:	12/22
Output Milestone:	Report - M2.2 Overview of gaps and actions needed
Description:	This work item intends to identity and list the gaps and necessary actions regarding interoperability and levels of service.

	iliputs.
١	Reports

- s from task 2.3 **NAP Architectures**
- Outcomes from work item 2.4.5 (European Access Point)
- Outcomes from previous work items of this task (2.1.1 and 2.2.2), especially the report related to Milestone M2.1

### Actions:

- Workshop for identification and listing of gaps & action needed regarding interoperability (technical, legal, and organisational interoperability) and level of service for the adoption of NAPs by the different Member States
- Development of recommendations for stepwise approach to support Member States the road mapping into more complex NAP architectures
- Development of the first layout of potential European NAP or federation of European NAPs (in cooperation with WG1 and subWG4.4
  - Technological substance (e.g., cloud-like, metadata repository-like, etc.)

- M2.2 Overview of gaps and actions needed (due 12/22)
- Overview of gaps, short comings, barriers, and actions needed
- First layout of potential European NAP or federation of European NAPs (in cooperation with WG1 and subWG4.4



b.	Identification of	
centra	alised/decentralised/hybrid	
opera	tions	
C.	Security	
requii	rements	
d.	Connectivity	
requii	rements	
e.	User management	
requii	rements	
f.	Visibility rules	
g.	Governance	
struct	ure	
h.	Monitoring &	
1	tic requirements	
	d value requirements	
	liance assessment	
requii	rements	
k.	Accounting (or not)	
	e existence of Mobility	
Data 9	Space	



Work Item	2.1.4 Repository of documents of experiences with the preparation and deployment of individual NAPs
Lead:	NL ,
Contributing	CZ, DK, GR, HU, NL, PL, PT, AT, IT, CY, MT, ES
partners:	
Start:	11/21
End:	12/24
Output Milestone:	-
Description:	This task will facilitate the storage and accessibility to relevant documents capturing experiences with the preparation and deployment of individual NAPs. The repository will be managed by a NAPCORE organisation, nominated by the Activity Management Team.

<u>Inputs:</u>		Actions:	1	Outputs:
<ul> <li>Current experiences from</li> </ul>	7	<ul> <li>Set up a process for</li> </ul>	7	<ul> <li>Repository of</li> </ul>
Member States NAP pre-		collection, storage and		documents of
studies		access to the documents.		experiences with the
NAP reference architectures		The initial set of documents		preparation and
NAP impact assessments		will include the desk		deployment of
		research material and the		individual NAPs
		tasks results.		
		Conclude to the drafting of		
		a position paper/executive		
		summary regarding the		
		various European		
		approaches towards NAPs		
		level of service		



Work Item	2.2.1 Identification of gaps and list of requirements			
Lead:	PT			
Contributing	AT, BE, CY, DE, DK, FR, GR, IT, <del>LT,</del> MT, NL,			
partners:				
Start:	11/21			
End:	06/23			
Output Milestone:	M2.4 Report - A list of requirements concerning (the use of) data standards, reference profiles and metadata to be handed over to SWGs on standardisation and/or standardisation organisations.  M2.7 An updated list of requirements concerning (the use of) data standards, reference profiles and metadata to be handed over to SWGs on standardisation and/or standardisation organisations.			
Description:	This work item intends to identify the gaps and requirements related to data standards, reference profiles and metadata.			

- Survey from task 3.1
- Previous development on data standards – reports and outcomes from WG4 (sWG4.1, sWG4.2, sWG4.3)
- Reference profiles from NeTEx, DATEX II and SIRI
- Coordinated Metadata Catalogue
- Report from sWG4.4:
   "Requirements Analysis for a new Metadata
   Specification"

### Actions:

- Comparison of existing requirements of data standards (WG4's subWG4.3 Transmodel, SIRI, and NeTEx, and WG4's DATEX II), open data, reference profiles, and metadata
- Identification of requirements and shortcomings of data standards (WG4's subWG4.3 Transmodel, SIRI, and NeTEx, and WG4's DATEX II), reference profiles, and metadata
- Handover of prioritised lists of requirements, shortcomings, and recommendations for data standards (WG4's subWG4.3 Transmodel, SIRI, and NeTEx, and WG4's DATEX II), reference profiles, and metadata to WG3, WG4, and standardisation bodies (EC, CEN, ISO, etc.)

- A list of requirements concerning (the use of) data standards, open data, reference profiles and metadata, developed on a regular annual basis, to be handed over to SWGs on standardisation and/or standardisation organisations, taking data quality into account
- Provide recommendations (e.g. position papers) on standardisation gaps to EC, CEN, ISO, etc.
- Recommendations for WG4 and Steering Committee (act. 1.3) concerning standards to be used and reference profiles



Work Item	2.2.2 Analysis of possible implications deriving from the "common EU data space" and the "mobility data space"
Lead:	PT
Contributing	AT, BE, DE, ITxPT, IT, MT, NL, PT
partners:	
Start:	01/23
End:	12/24
Output Milestone:	-
Description:	This work item aims to assess the implications of implementing data spaces such as the common EU data space and the mobility data spaces

Inputs:  Not identified	•	Actions:  • Look into possible implications from the developments of the	•	Outputs:  • Will be used in subtask 2.4.5
		'common EU data space' and 'mobility data space'		

Work Item	2.2.3 Interoperability and support
Lead:	PT
<b>Contributing partners:</b>	AT, BE, CZ, DE, FR, ITxPT, <del>LT,</del> MT, NL, NPRA
Start:	11/21
End:	12/24
<b>Output Milestone:</b>	-
Description:	This work item aims to identify useful information for service
	interoperability and to develop support tools for NAPs

#### Inputs: Actions: Outputs: • Outputs and conclusions • Identification of basic and • Provide a list of from Milestones M2.4 and recommended reference recommended and basic M2.7 (Work item 2.2.1) data sets supported by reference data sets supported by member member states for service interoperability states for service • Identification of basic and interoperability recommended delivery • Provide a list of processes supported by recommended and basic member states for service delivery processes interoperability supported by member Creation and maintenance states for service of technical artefacts and interoperability support tools for NAP • Make available Support relevant standards and NAP Tools for NAPs (e.g. development (such as the UVARBox), in cooperation with WG4 tools developed for DATEX UVAR m2m readable on standardisation and with NAPCORE formats) Inventory and prioritisation Secretariat for of short comings concerning



(the use of) data standards, reference profiles and metadata, + link with CEN TC278 WG3 (ITS Public Transport where are specified TRANSMODEL/SIRI/NeTEx) for recommendations on standardisation gaps, hampering the interoperability of NAPs, in	centralised dissemination
interoperability of NAPs, in collaboration with SWG4.3	

Work Item	2.3.1 Work plan definition and task alignment
Lead:	CZ
<b>Contributing partners:</b>	AT, BE, CY, DE, DK, GR, HU, MT, NL, PT
Start:	11/21
End:	12/24
Output Milestone:	-
Description:	This task aims to develop goals to be achieved by the NAP architecture and to plan and adapt annual workplan.

Inputs:	1	Actions:	}	Outputs:
Other WPs outputs	7	<ul> <li>Develop annual work plan</li> </ul>	7	<ul> <li>Work Plan (annually</li> </ul>
CAT recommendations		<ul> <li>Discuss what we want to</li> </ul>		updated)
<ul> <li>Yearly outputs from Work-</li> </ul>		achieve with NAP		<ul> <li>Key findings on NAP</li> </ul>
items of WG2		Architecture, how it is going		operators targets on
Project FRAME NEXT		to be used, what shall be		Architecture
materials		put focus on (processes,		A roadmap for
		interoperability, NAP		development of NAP
		federation possibility, etc).		architectures
		Analyse task		
		interdependencies, Analyse		
		dependencies with other		
		WPs, Liaise and report and		
		govern the task.		



Work Item	2.3.2 Analysis of common elements in NAP architectures					
Lead:	CZ					
Contributing	AT, BE, CY, DE, DK, GR, IT, MT, NL, NPRA, PT					
partners:						
Start:	06/22					
End:	12/24					
Output Milestone:	M2.9 "Harmonisation of EU NAP architectures and first layout of					
	potential NAP federation"					
Description:	The task aims at definition of the requirements for the NAP					
	architecture (from existing NAPs and from data sharing					
	communities), pathfinding of how harmonisation shall be					
	approached for the benefit of operators and users. Identification of					
	common NAP elements by comparison of different approaches.					
	Definition of how FRAME architecture shall be used and adapted.					
	The task focus is analytical to provide input to task 2.3.3					

- Analyses of the level of services (task 2.1)
- Analyses of standards needed (task 2.2)
- Best practices from demonstrators
- Analyses on demand Problem solutions from demonstrator work

### Actions:

- Set common structure for NAP architecture analysis
- Identify and compare current NAP architectures
- Review new developments in B2B and B2G mobility data sharing/exchange
- Identify requirements from strategic documents (WG1) that affect NAP Architecture
- Identify requirements from each key application area (NAPs, data, data sharing principles, standards)
- Set up relationship with WGs where development of key concepts shall take place (WG2-WG4)
- Find out where and how a common NAP reference architecture should be able to support NAP operators and users.
- Define necessary changes of FRAME Architecture to reach the requested level of service interoperability

- NAP Architecture types, use and requirements, including the demonstrators.
- NAPCORE work packages review and its impact on architecture
- Recommendations for NAP FRAME architecture
- M2.9 Harmonisation of EU NAP architectures and first layout of potential NAP federation



Work Item	2.3.3 Development of the NAP model architectures
Lead:	CZ
Contributing	AT, BE, CY, DE, DK, GR, IT, MT, NL, NPRA, PT
partners:	
Start:	01/23
End:	12/24
Output Milestone:	M2.11 "NAP reference architecture"
Description:	This is the main task where development of practical outputs will happen. Task focuses on development of several types of NAP reference architectures, based on the NAP typology. Each architecture focuses on requirements and user needs, functional and physical views as present in the FRAME approach and tools. Also other architecture products could be developed: interface identification and definition, cost and benefit analysis, communications view, set of recommendations etc. The common elements like terminology, specific requirements, data concepts shall be further defined in this task. The harmonisation focuses on taking concepts from other WGs and setting a common, mutually agreed, reference (i.e. only harmonisation is done here).

- Architecture developed by FRAME Project
- Architecture developed by US DOT
- EU-EIP support materials
- Recommendations and analyses from (task 2.3.1)
- Analyses of level of services (task 2.1)
- Analyses of standards needed (task 2.2)
- Best practices from demonstrators
- Input from ISO and CEN standardisation activities

### Actions:

- Development of user needs and functional requirements
- Support other WGs in harmonisation and pathfinding tasks related to common elements.
- Development of common Architecture outputs (artefacts) used for harmonisation purposes (terminology, classification, common definitions, minimum requirements etc.)
- In cooperation with 2.1 work on cost benefit analysis for different LoS.
- Development of common architecture for different levels of NAP (i.e., physical view with interfaces, standards, organisational view, roles, agreements, responsibilities)
- Development of specific architectures per delegated regulations with feedback from demonstrators
- Development of output architecture materials

- NAP Functional requirements and user needs
- NAP common artefacts (classes, definitions, plans, checklists)
- Model architectures, including draft outputs
- M2.11 NAP reference architecture



Work Item	2.3.4 Support the NAP Architecture user community
Lead:	AT
Contributing	BE, CY, CZ, DE, DK, MT
partners:	
Start:	06/23
End:	12/24
Output Milestone:	-
Description:	This task is for maintaining and updating (FRAME) NAP architecture materials, NAP architecture website, creating several webinars, NAP FRAME tools usability workshops

Inputs:  Previous activities in task 2.3  Materials developed by FRAME Project  Materials developed by other parties (i.e. Arc-IT the US national ITS architecture)  EU-EIP support materials

Work Item	2.3.5 Maintenance of the NAP Architecture tools
Lead:	AT
Contributing	BE, CY, CZ, DE, DK, MT
partners:	
Start:	06/23
End:	12/24
<b>Output Milestone:</b>	-
Description:	This task focuses on maintenance and further development of the architecture tools created by project FRAME with a focus on specific need of the NAPCORE project. The tool is the content (the reference architecture itself) and the structure and supporting software features. Primary intention is to use FRAME, but also other paths will be studied.

Inputs:  Tools and approaches from FRAME project	Actions:  Review of the available tools for architecture description	•	Outputs:  Tools review and development plan  Web site set up for tools development
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- Tools from DATEX II projects
- EU-EIP support materials
- Webinars and Architect community help
- Tools and approaches by US DOT in architecture creation
- Creating tool maintenance plan and methodology
- Hosting of the architecture development tools in a source code repository
- Maintaining issue tracker and developer community
- Testing tools for development and description of architecture
- Getting user feedback on the tool use
- Further development of tools based on user experience.

- Issues and progress report (user feedback)
- Annual tool development update
- Tool manuals and documentation

Work Item	2.4.1 Interoperability support of the NAP demonstrators
Lead:	CZ
<b>Contributing partners:</b>	AT, BE, CY, DE, DK, FI, GR, ITxPT, LT, MT, NL, NRPA, PL, PT
Start:	11/21
End:	12/24
Output Milestone:	-
Description:	This is a horizontal Work-item that will develop activities throughout
	the NAPCORE project

- Developments from task 2.1
   Definitions of levels of service
- Developments from task 2.2
   Milestones M2.4 and M2.7
- Developments from task 3.4

   Data Exchange Vision to
   be streamlined with the

   WG2 cross-border

   demonstrator activities M3.14
- Developments from task
   4.4.4 A conceptualisation for a cross-border metadata registry, resulting in a WG2 planned demonstrator
- Developments on the demonstrators: outcomes from the work items 2.4.2, 2.4.3 and 2.4.4

### Actions:

- Conceptualisation of the NAP demonstrators (during 2022)
- Support, monitoring and validation of the development of Interoperable NAP demonstrators in Workitems 2.4.1, 2.4.2, 2.4.3 and 2.4.4.
- Assess the opportunity to develop common NAPs by two or more Member States on selected specific datasets (e.g. for crossborder data)
- Evaluation and assessment of these interoperability demonstrators, lessons learnt, recommendations

### Outputs:

 Lessons learnt, recommendations on road mapping the evolution of simpler NAP architectures, into more complex ones, considering data structure, technology, etc. for marketplaces and clearing houses



Work Item	2.4.2 Interoperable NAP demonstrator with real world use of the NAP information
Lead:	PT
<b>Contributing partners:</b>	AT, BE, DE, DK, ES, ITxPT, LT, MT, NL
Start:	06/22
End:	06/23
Output Milestone:	M2.6 A first demonstrator with real-world use of data and different
	Levels of Service – 1st round
Description:	This Work-item represents the development of the first
	demonstrator with real-world use of data and different Levels of
	Service.

Inputs:		Actions:	1	Outputs:
<ul> <li>Levels of Service definition</li> </ul>	7	Definition and	7	The first interoperable
and assessment: Task 2.1 –		Operationalisation of		demonstrator with real-
Milestone M2.1		interoperability		world use of data and
		demonstrators that make		different Levels of
		real world use of the NAP		Service (Reinforcing
		information, to test		collaboration with T2.1)
		scenarios, e.g. cross-border,		
		intermodal scenarios, a mix		
		of urban and inter-urban		
		environments, or continuity		
		of services based upon		
		already harmonised data		
		sets or stable data profiles		
		(e.g. UVAR)		

Work Item	2.4.3 Interoperable NAP demonstrator of a marketplace or clearing house NAP
Lead:	NL
Contributing partners:	AT, DE, MT
Start:	01/23
End:	12/24
Output Milestone:	M2.10 At least two further demonstrators with real-world use of
	data and different Levels of Service – 2nd round
Description:	This Work-item represents the development of the second
	demonstrator with real-world use of data and different Levels of
	Service.

#### Inputs: Actions: Outputs: • Levels of Service definition Definition and • The second and assessment: Task 2.1 -Operationalisation of interoperable Milestone M2.1 interoperability demonstrator with realdemonstrators to test the world use of data of a marketplace or clearing development of a marketplace or clearing house NAP and different house NAP LoS (Reinforcing collaboration with T2.1)



Work Item	2.4.4 Interoperable NAP demonstrator with Metadata
Lead:	DE
<b>Contributing partners:</b>	AT, CY, LT, MT, PT
Start:	01/23
End:	12/24
Output Milestone:	M2.10 At least two further demonstrators with real-world use of
	data and different Levels of Service – 2nd round
Description:	This Work-item represents the development of the third
	demonstrator with real-world use of data and different Levels of
	Service.

Inputs:	7	Actions:	1	Outputs:
• Levels of Service definition	7	Definition of	7	The third
and assessment: Task 2.1 –		concepts/requirements for		interoperability
Milestone M2.1		interoperability		demonstrators with
		implementations, e.g. the		real-world use of data
		Metadata aggregator		with metadata
		(federation of metadata), in		aggregator and different
		cooperation with subWG4.4		Levels of Service
		• Contribute with Task 4.4.4		(Reinforcing
		on a conceptual work (pre-		collaboration with T2.1)
		study, IT framework), that		,
		will occur early 2023		

Work Item	2.4.5 European Access Point (EAP)
Lead:	DK
Contributing partners:	AT, CY, LT, MT
Start:	03/23
End:	12/24
Output Milestone:	
Description:	This work item represents the development of an interoperability
	demonstrator of a European Access Point

#### Inputs: Actions: Outputs: • Report from Task 2.1 -• European Access Point • Elaborate concept and Milestone M2.1. (optional) interoperability (EAP) • Task 2.2 – Milestones M2.4 demonstrator of a European and M2.7: list of Access Point (EAP), allowing requirements for metadata visibility of NAP datasets from multiple countries in • Reports from sWG4.4: one platform. As prime analysis on NAP's Metadata dataset candidates for such demonstrator - Safety Related Traffic Information or the UVARs, expected soon to be in the scope of the RTTI Delegated Regulation.



Work Item	2.4.6 Alternative Fuels Demonstrator				
Lead:	PT				
Contributing partners:					
Start:	01/23				
End:	12/24				
Output Milestone:	-				
Description:	This Work Item represents the development of the fourth				
	demonstrator focused on alternative fuels data				

### Inputs: Actions: **Outputs:** • Documents from IDACS • Explore the required • The conceptualisation elements for the • Outcomes from work item and development of a development of a common demonstrator for 2.4.1 **EU Access Point for** alternative fuels data alternative fuels data, creating a common interface that would act as a data gateway linking all MS NAPs in a single web platform • The demonstrator should explore how both static and dynamic could be made available and accessible at European level, without creating storing duplicities with Member States' NAPs repositories, considering NAP format and need for harmonisation (linked to other WG activities). • The demonstrator should consider EAFO as the web platform that would host this common EU Access Point in the future, which as part of its current development and evolution would be equipped with the corresponding technical elements to this end



## 3.7 Work Items of WG3

Work Item	3.1.1 NAP monitoring					
Lead:	RO					
Contributing partners:	AT, HR, CY, CZ, FI, UITP, FR, GR, HU, LV, LT, ITxPT, LU, PT, ES, NPRA					
Start:	11/21					
End:	12/24					
Output Milestone:	M3.2 "First report on NAP data availability"					
	M3.3 "Second report on NAP data availability"					
	M3.4 "Third report on NAP data availability"					
	M3.5 "Fourth report on NAP data availability"					
	M3.6 "Fifth report on NAP data availability"					
	M3.7 "Final report on NAP data availability"					
Description:	Monitoring of European NAPs in terms of data availability and					
	utilised data formats/standards.					

Inputs:		Actions:		Outputs:
<ul> <li>Results and methodology of</li> </ul>	7	<ul> <li>Analysis and definition of</li> </ul>	7	<ul> <li>NAP data availability</li> </ul>
the EU EIP project		the structure and content of		reports on a 6-month
<ul> <li>Intermediate results of NAP</li> </ul>		NAP monitoring survey's		basis (M3.2-M3.7)
monitoring survey		questionnaire		Operational tool
Consultation with active		Development of the		supporting NAP
participants (meetings)		questionnaire		monitoring
Feedback from other		Analysis of acquired		_
parties		feedback		
		Reanalysis and redefinition		
		of the structure and content		
		of NAP monitoring survey		
		questionnaire (iterative)		
		Redevelopment of the		
		questionnaire (iterative)		
		Analysis of acquired		
		feedback (iterative)		
		Design and development of		
		an operational tool		
		supporting NAP monitoring		
		Sapporting 17 in monitoring		

Work Item	3.1.2 NAP requirements, gaps, and content
Lead:	RO
<b>Contributing partners:</b>	AT, HR, CY, CZ, FI, UITP, FR, GR, HU, LV, LT, ITxPT, LU, PT, ES, NPRA
Start:	11/21
End:	02/23
<b>Output Milestone:</b>	M3.1 "Data content requirements, existing gaps, data dictionaries
	and supporting material"
Description:	Analysis of existing and future NAP data categories and identification
	of relevant requirements and gaps.



- Results of NAP monitoring survey
- Delegated Regulations No. 885/2013, 886/2013, 2015/962, 2017/1926, and 2022/670 supplementing the ITS Directive (2010/40/EU)
- Consultation with active participants (meetings)
- On-line content and relevant literature

### Actions:

- Analysis of existing and updated Delegated Regulation supplementing the ITS Directive
- Review of on-line content and literature about new ITS/mobility services and relevant data categories
- Analysis of NAP requirements and gaps
- Analysis of sample NAP publications per data category



### Outputs:

- NAP requirements and gaps in terms of data content (part of M3.1)
- NAP content mapping and enhanced understanding (part of M3.1)

Work Item	3.2.1 Development of quality frameworks
Lead:	DE-BASt
<b>Contributing partners:</b>	AT, BE, CZ, EE, FI, UITP, FR, GR, HU, LT, ERTICO, ITxPT, NL, RO
Start:	11/21
End:	06/24
Output Milestone:	M3.8 "Data quality assessment framework and processes"
Description:	Provision of the layout and scope of new/enhanced data quality
	frameworks

### Inputs:

- Existing data quality frameworks (EU EIP and others)
- Consultation with active participants (meetings)
- Exchange of know-how among active participants



### Actions:

- Review of existing data quality frameworks
- Prioritise ITS thematic areas and stages of the ITS value chain to be supported by a data quality framework
- Workshops about ITS data quality frameworks
- Elaboration of new/enhanced quality frameworks by following a case-based approach
- Interaction with WG5 (to support National Body processes)



- Context and scoping of Quality Frameworks (internal document)
- Data quality assessment framework and processes (M3.8)

Work Item	3.2.2 Application of quality frameworks
Lead:	DE-BASt
<b>Contributing partners:</b>	AT, BE, CZ, EE, FI, UITP, FR, GR, HU, LT, ERTICO, ITxPT, NL, RO
Start:	06/23
End:	12/24
<b>Output Milestone:</b>	M3.9 "Report on pilot data quality certifications"
Description:	Application of the developed quality frameworks including the
	definition of a quality certification process and provision of
	certificates to selected NAP publications.



- Data quality frameworks (Work Item 3.2.1)
- Consultation with active participants (meetings)
- Exchange of know-how among active participants
- NAP publications (sample)



### Actions:

- Execution of case studies using data exchanged through NAPs
- Analysis of case studies results
- Workshops for discussing the application of the quality framework
- Scoping and design of quality certification process
- Execution of quality certification tests



### **Outputs:**

- Evidence about the developed quality frameworks (part of M3.9)
- Guidelines for assessing NAP data quality and certification process (part of M3.9)
- Provision of certificates (part of M3.9)

Work Item	3.3.1 Technical options for data visualisation
Lead:	GR
Contributing partners:	AT, HR, CY, CZ, DK, EE, UITP, DE-BASt, <del>LT,</del> RO, NPRA
Start:	01/23
End:	12/24
Output Milestone:	M3.10 "Technical options for data visualisation"
Description:	Elaboration of technical options for NAP data visualisation and
	provision of support to NAP monitoring operational tool.

### Inputs:

- NAP monitoring results (Work Item 3.1.1)
- NAP content mapping (Work Item 3.1.2)
- Available (open source) solutions, libraries, or platforms for data visualisation
- Consultation with active participants (meetings)
- NAP publications (sample)



### Actions:

- Collect visualisation needs from certain NAP operators, data providers, and/or consumers
- Identify visualisation requirements
- Review and assess the suitability of available solutions, libraries, or platforms
- Elaborate technical options for NAP data visualisation
- Support the development of an operational tool for NAP data availability monitoring (Work Item 3.1.1)

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- Technical options for NAP data visualisation (M3.10)
- Visualisation interfaces of the operational tool support NAP monitoring

Work Item	3.3.2 Terms and conditions for data reuse
Lead:	GR
<b>Contributing partners:</b>	AT, HR, CY, CZ, DK, EE, UITP, DE-BASt, <del>LT,</del> RO, NPRA
Start:	11/22
End:	12/24
Output Milestone:	M3.11 "Terms and conditions for data reuse (incl. GDPR
	implications)"



**Description:** 

Recording and harmonisation of NAP licensing frameworks, analysis of GDPR implications on NAPs, and support of NAP data valuation.

#### Inputs:

- European NAP publications and procedures
- Relevant literature
- Policy documents
- Consultation with active participants (meetings)

### Actions:

- Recording of licensing frameworks utilised by European NAPs
- Identification of specific needs and challenges (if any)
- Review and analysis of common licensing frameworks
- Analysis of policy documents about GDPR
- Analysis of followed procedures for GDPR compliance (if any)
- Support harmonised data licensing and GDPR compliance
- Analysis of data valuation and pricing principles
- Analysis of data providers' and data consumers' perspectives
- Support harmonised data valuation and fair pricing

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### Outputs:

- Guidelines for NAP data licensing (part of M3.11)
- Guidelines for GDPR compliance (part of M3.11)
- Guidelines for data valuation and pricing (part of M3.11)

Work Item	3.4.1 NAP added value scenarios
Lead:	GR
Contributing partners:	HR, CY, CZ, FI, UITP, DE-BASt, NL, RO
Start:	01/23
End:	12/24
Output Milestone:	M3.12 "European NAPs added value scenarios in key application
	areas"
Description:	Technical demonstration of NAP added value scenarios

### Inputs:

- Previous EU-funded projects on ITS
- Recommended data formats/standards
- Relevant literature
- Consultation with active participants (meetings)



### Actions:

- Definition and analysis of key application areas of ITS
- Definition and analysis of prioritised use cases
- Identification of data requirements and collection mechanisms
- Implementation of prioritised use cases
- Sharing of best practices and recorded experiences



- Demonstrated NAP added value scenarios and use cases (part of M3.12)
- List of best practices and recommendations (part of M3.12)



Work Item	3.5.1 Training
Lead:	GR
<b>Contributing partners:</b>	CY, CZ, DE-BASt, NL, RO
Start:	01/23
End:	12/24
<b>Output Milestone:</b>	M3.13 "Final training material for NAP content and accessibility and
	training events' completion"
Description:	Development of training material and support of training events
	building upon the acquired knowledge.

Inputs:  Results of previous work items  Consultation with active participants (meetings)  Training needs	•	Actions:  Determination of training purpose, target audience, and adopted training methods  Definition of the format of training material  Development of training material (including programme and any required interactive	•	Outputs:  Training material  Participation in training events
		content)  • Support training events		



## 3.8 Work Items of WG4

Work Item	4.0.1 Coordination task: alignment and harmonisation of data standards
Lead:	FR
Contributing	SWGs 4.1, 4.2, 4.3, 4.4
partners:	
Start:	04/21
End:	12/24
Output Milestone:	M4.0.2 – Roadmap for harmonisation tasks incl. qualitative impact assessment M4.0.3 – Update of the roadmap for harmonisation tasks
Description:	This task is aiming at the coordination between the different data standards approaches and the definition of a common roadmap for data standardisation and publication.  This task produces the milestones identified at WG4 level.  WG4 will particularly aim at joining forces towards a shared vision and effective collaboration between standards with the objective of getting a common basis to support a use case. Traffic regulations (between SWGs 4.1-Datex II and 4.2-TN-ITS) and parking data standards (between SWG4.1-Datex II and SWG4.3-Multimodal data) are specifically concerned.

Inputs:		Actions:		Outputs:
<ul> <li>Work and reports from SWGs (incl. ecosystem of the standards)</li> <li>Elements from other WGs and milestones such as WG2, WG3 and WG5</li> <li>Elements from European association (EPA and APDS mainly)</li> <li>WG4 Governance document</li> </ul>	7	<ul> <li>Create a taskforce to draft the milestones (end 2022/early 2023)</li> <li>Cross-review work and reports from SWGs, integrate them into the milestones or plan further work needed at WG4 level, such as on parking standards in relation with parking Ambassadors, EPA and APDS</li> <li>Develop a methodology to identify harmonisation priorities</li> </ul>	7	<ul> <li>WG4 Milestones</li> <li>Identification and edition of other deliverables</li> <li>Interaction with standards organisation at WG4 level</li> </ul>

Work Item	Liaison with standardisation organisations (especially CEN)					
Lead:	FR (WG4 leader)					
Contributing	SWGs 4.1, 4.2, 4.3, 4.4 leaders					
partners:						
Start:	01/23					
End:	12/24					



Output Milestone:	-
Description:	Organisation of the liaison with standardisation organisations

Inputs:	Actions:	Outputs:
Actual cooperation between WG4 and SWGs with CEN and ISO	<ul> <li>Analysis of contribution to standardisation bodies/organisations</li> </ul>	<ul> <li>Aligned position towards standardisation bodies/organisations</li> <li>Proposal for formalisation of relationship towards CEN &amp; ISO (to be decided by SCOM)</li> </ul>

## 3.9 Work Items of SWG4.1

Work Item	SWG4.1. Workplan 2024
Lead:	NL: NDW
Contributing partners:	Active partners: AT, BE, CY, CZ, DE, ES, FR, UK, GR, GR egnatia, IT, NL, NO, PT, RO, SE, SL, UK
	Followers: BG, CH, DK, EE, FI, LU, LV, MT PL, SK
Start:	8/23
End:	10/23
Output Milestone:	Contribution to MS.1.3 "Working Programme 2024"
Description:	Internal milestone M4.1.206

	T		
<u>Inputs:</u>	Actions:		<u>Outputs:</u>
<ul> <li>Previous SWG4.1. workplan (2023)</li> <li>All active partners and followers</li> </ul>	<ul> <li>Get feedback from SWG4.1 partners</li> <li>Coordination with other WGs workplan</li> </ul>	•	Workplan SGW4.1 2024 to feed MS.1.3
<ul> <li>SWG4.1 tasks coming from</li> </ul>	<ul> <li>Update of workplan</li> </ul>		
WG4 harmonisation and			
alignment agreements			

Work Item	T.4.1.1: Contribution to alignment and harmonisation Task (WG4)
Lead:	FR: CEREMA
Contributing	Active partners: AT, CY, CZ, DE, ES, FR, UK, GR, GR egnatia, IT, NL, NO, PT,
partners:	RO, SE, SL, UK
	Followers: BG, CH, DK, EE, FI, LU, LV, MT PL, SK
Start:	Ongoing
End:	



Output Milestone:	Contribution to M.4.0.3 "Update of Roadmap for harmonisation tasks including qualitative impact assessment"
Description:	Inputs, actions, and outputs are detailed below.

Inputs:	Actions:	Outputs:
<ul> <li>The initial roadmap defined in M.4.0.2</li> <li>All active partners and followers</li> <li>Active involvement from Partner organisations: <ul> <li>C-Roads</li> <li>TISA</li> <li>Car2Car</li> <li>DFRS</li> <li>APDS</li> </ul> </li> </ul>	<ul> <li>Review of the previous roadmap M.4.0.2</li> <li>Desktop research and partners input for new standardisation activities to be considered. That affect SWG 4.1 DATEX II work</li> <li>Updates on the priorities and WI's to be taken onboard of SWG 4.1</li> <li>Prioritisation of the activities that should take place for the alignment and coordination</li> <li>Proposal for liaisons to be built and/or to be maintained outside NAPCore partners.</li> <li>Agree with the road traffic data partners (C-Roads, TISA, Car2Car, DFRS) on alignment work and uptake of the tasks agreed regarding road-data-specific</li> </ul>	<ul> <li>Identification of priorities related to SWG4.1. reflected in M4.1.102</li> <li>Consistent input – report for M.4.0.3 (WG4-Task 4.2. Roadmap for harmonisation)</li> <li>WI definitions for later sprints in 2023-2024 in T4.1.4- T4.1.5 and/or T4.1.6 that will take up the change proposals in M4.1.603 and/or M4.1.406</li> </ul>

Work Item	4.1.1.1 Identification of gaps and overlaps of existing standards
Lead:	PT: Armis
Contributing partners:	Active partners: NL, FR
Start:	ongoing
End:	11/23
Output Milestone:	M4.3.3 Report on gaps, overlaps of standards for multimodal data exchange
Description:	Inputs, actions, and outputs are detailed below.

specifications

Inputs:	Actions:		Outputs:
WG 2: gaps and overlaps in standards	Define WI's to be launched with regard to SWG 4.1 scope of gaps to cover.	•	WI definitions for later sprints in 2023-2024 in T4.1.4- T4.1.5 and/or T4.1.6 that will take up



		the change proposals in M4.1.603 and/or M4.1.406

Work Item	T.4.1.E1 Trust and data authenticity & Cyber security
Lead:	IT: Autostrade
Contributing	Active: DE, IT, NL,
partners:	Observe: CZ, GR, GR-EG, RO, PT, FR NO, RO, SE, UK
Start:	Ongoing
End:	
Output Milestone:	-
Description:	Cybersecurity as such and the demand for Trust and data-authenticity in the value chain bring new requirements on all levels of the DATEX II data-exchange. This work item collects requirements from the field and derives requirements with regard to the information model, the encodings supported, as well as the exchange layer of DATEX II.

Inputs:		Actions:		Outputs:
Member state use-cases providing requirements regarding trust and data-authenticity Joint view on this from WG4 up to what level to align between standards.	•	Collect and assess trust and data-authenticity approaches in related domains like C-ITS, TN-ITS, MMTIS and (mobility) dataspaces to be adopted by DATEX II	<b></b>	WI definitions for later sprints in 2023-2024 in T4.1.4- T4.1.5 and/or T4.1.6 that will take up the change proposals in M4.1.603 and/or M4.1.406 and/or M4.1.605

EPIC	T.4.1.E2 Filtering and querying of dataset					
Lead:	DE-BASt					
Contributing	Active: CZ, UK, NL, DE					
partners:						
Start:						
End:						
Output Milestone:	-					
Description:	The amount of road traffic data increases rapidly, both in terms of. In combination with new data publication technologies the need provide manageable access to the available data, standardised filtering and querying methods are required. This work item collects the requirements and assesses how this could be addressed by DATEX II. It formulates WI's for the tasks on methodology, the data model as well as exchange and encoding to develop the standardised coherent support of these features.					



Member state use-cases providing requirements regarding filtering and querying of datasets

Joint view on this from WG4 up to what level to align between standards.

### Actions:

Collect requirements and options: identify some option for PSM to implement Filtering and Querying in specific technology / platform PSM

### **Outputs:**

WI definitions for later sprints in 2023-2024 in T4.1.4- T4.1.5 and/or T4.1.6 that will take up the change proposals in M4.1.603 and/or M4.1.406 and/or M4.1.605

Work Item	T.4.1.E3 New technologies' impact on content and exchange
Lead:	UK: National Highways
Contributing	Active partners: AT, CY, CZ, DE, ES, FR, UK, GR, GR egnatia, IT, NL, NO, PT,
partners:	RO, SE, SL, UK
Start:	ongoing
End:	
Output Milestone:	Contributes to M4.1.603 and/or M4.1.406 and/or M4.1.605
Description:	

### Inputs:

MS requirements and observations with regard to new technologies:

- Message brokers
- Open API

### Actions:

Assess impact of technology on methodology, content models and/or exchange. Further



### **Outputs:**

WI definitions for later sprints in 2023-2024 in T4.1.4- T4.1.5 and/or T4.1.6 that will take up the change proposals in M4.1.603 and/or M4.1.406 and/or contribute to M4.1.605

Work Item	T.4.1.E4 Linked Open Data
Lead:	DE: BASt
Contributing partners:	Active partners: AT, CY, CZ, DE, ES, FR, UK, GR, GR-EG, IT, NL, NO, PT, RO, SE, SL, UK
Start:	ongoing
End:	
Output Milestone:	-
Description:	Linked Open Data is seen as a powerful tool to publish and relate seemingly unassociated datasets with each other. The concept is promising in the road traffic data domain and requests to support the underpinning technical concepts bring several new requirements to DATEX II. As it is new, a use-case-by-use-case approach will be followed to see what is required where in the DATEX II set of standards and support tooling.



Inputs:		Actions:		Outputs:
Requirements and observations with regard to Linked Open Data.	•	Further define work item based on use-case requirements.	•	WI definitions for later sprints in 2023-2024 in T4.1.4- T4.1.5 and/or T4.1.6 that will take up the change proposals in M4.1.603 and/or M4.1.406 and/or contribute to M4.1.605

Task	T.4.1.3 User support
Lead:	NL: NDW
Contributing partners:	Active partners: AT, CY, CZ, DE, ES, FR, UK, GR, GR egnatia, IT, NL, NO, PT, RO, SE, SL, UK
Start:	1-1-2023
End:	31-12-2023
Output Milestone:	M4.1.302 DATEX II user forum M4.1.312 Report on provided support, dissemination, education and training M4.1.307 Masterclass DATEX II Programme M4.1.402 Accompanying RRP's and RSP's for DATEX II v3.5
Description:	In 2023 the annual DATEX II User forum will be in a format and planned after de evaluation of the 2022 User Forum. As such the forum will address best practises of deployment as well as a series of sessions addressing the usual target groups of developers, information architects and managers on the relevant data themes in NAPCORE, such as Cycling data community, EV Charging point operators, Traffic management etc.  The User Forum fits in a wider program of to be provided education and training, which will be enrolled and offered in various sessions throughout the year. Masterclasses aiming to enable thematic country-coaches in providing the interface between the local deployments and the DATEX II organisation is key focal point for this year.  In terms of user support in 2023 the website <a href="www.datex2.eu">www.datex2.eu</a> will be rebuild fitting the current status of DATEX II as core standard in the EU delegations, giving better access to support the data themes in a use case driven approach as front of the DATEX II academy.  In 2023 version 3.5 of DATEX II will be published containing updates of the finalised work on the parts that are under revision in 2023, (see T4.1.4). In this task the supporting documentation and related reference profiles are created and published.

Inputs:	Actions:	Outputs:
Training and education plan DATEX II	Develop or update required training material	Given trainings reported in M.4.1.312



H3 Outreach and training plan				Masterclass DATEX II programme M4.1.307
DATEX II academy experience from previous years		Run the DATEX II academy	-	User statistics in M4.1.312
Requirements D2 partners, and supported stakeholder communities	•	Update of the D2 website	•	New www.datex2.eu, reported in M4.1.312
DATEX II Version 3.5		Create Recommended Reference profiles for the updated parts of DATEX II v3.5	•	Profiles available in the DATEX II webtool
DATEX II Version 3.5		Create documentation for the updated parts of DATEX II v3.5 and the RRP's		Documentation will be available on docs.datex2.eu

Task	T.4.1.4.1 Functional domain developments Support Delegated regulations and ITS Directive
Lead:	PT: Armis
Contributing partners:	Active partners: AT, CY, CZ, DE, ES, FR, UK, GR, GR egnatia, IT, NL, NO, PT, RO, SE, SL, UK
Start:	Ongoing
End:	
Output Milestone:	
Description:	With the revision of the ITS Directive and the Delegated regulations, new requirements will emerge regarding our standards and RRPs in order to digitally support the aims of the new Directive. In collaboration with WG2 this impact will be assessed and this WI will define the requirements for modification to the DATEX II ecosystem of Standards, Reference Profiles and accompanying documentation and training materials.

<ul><li>Inputs:</li><li>WG2 gaps and overlaps</li><li>WG4 harmonisation roadmap</li></ul>	•	Actions:  Requirement engineering on Support new datasets RTTI DR2022 670 and specify the drafts for standardisation and/or documentation. With special attention to the extending scope of the	•	Outputs:  Change requests to support new datasets on cycling, charging etc.  Standardise historical data provision of D2 datasets.
		special attention to the extending scope of the geographical scope of the networks affected.		<ul> <li>datasets.</li> <li>WI definitions for later sprints in 2023-2024 that will take up the change proposals or are taken onboard in</li> </ul>



		M4.1.603 and/or
		M4.1.406

Task	T.4.1.4.2 Functional domain developments Support Traffic Management Developments
Lead:	IT: Armis
Contributing partners:	Active partners: AT, CY, CZ, DE, ES, FR, UK, GR, GR egnatia, IT, NL, NO, PT, RO, SE, SL, UK
Start:	Ongoing
End:	
Output Milestone:	-
Description:	The WI addresses the extensions and improvements required to enhance the support of traffic management developments throughout Europe, including the collaboration between traffic management centres of different road-network-type operators as well as the dynamic cooperation with private sector actors according to the SOCTARES 2.0 and TM2.0 concepts.

#### Outputs: Inputs: Actions: from all active partners: • Requirement engineering • Change requests to part requirements with regard to: and define change requests 8 TMP and possibly part to the relevant DATEX II 3: situation publication. Digitalisation of the centre artefacts in terms of 2 centre collaboration • WI definitions for later standards and • Common operational data sprints in 2023-2024 documentation. picture with multi-actor that will take up the input (affecting each-others change proposals or are information position) taken onboard in • Enhanced urban traffic M4.1.603 and/or management use cases M4.1.406 • C-ITS data requirements in DATEX II VMS control

Task	T.4.1.4.3 Functional domain developments					
	Support Traffic and travel Data provision developments					
Lead:	PT: Armis					
Contributing	Active partners: AT, CY, CZ, DE, ES, FR, UK, GR, GR egnatia, IT, NL, NO, PT, RO, SE, SL, UK					
partners: Start:	Ongoing					
End:						
Output Milestone:	DATEX II version 3.5					



### **Description:**

Apart from the specific mentioned data categories in the delegated regulations or traffic management scope, there are specific themes that are supported by DATEX II, but don't fit not by nature in that scope. An example is the support of information provision to cyclists.

### Inputs:

Requirements from the cycling community based on the work of the Cycling Ambassador



### Actions:

Requirement engineering and define change requests to the relevant DATEX II artefacts in terms of standards and documentation.



### Outputs:

- Change requests to relevant parts.
- WI definitions for later sprints in 2023-2024 that will take up the change proposals or are taken onboard in M4.1.603 and/or M4.1.406

Task	T.4.1.4.4 Maintenance of standards
Lead:	UK: NH
Contributing partners:	Active partners: AT, CY, CZ, DE, ES, FR, UK, GR, GR egnatia, IT, NL, NO, PT, RO, SE, SL, UK
Start:	Ongoing
End:	
Output Milestone:	DATEX II major and minor versions
Description:	The DATEX II standards have two scopes:  1. The CEN 16157 series addressing the content of the data (now spread over 12 parts)  2. In ISO are the standards for the way of exchanging the data laid down in ISO TS 19468 and TS 14827-4.  All standards and parts are maintained in the Task according to the CEN/ISO revision formalities. In 2023-2024 the last parts of CEN 16157 will be revised to the version 3.0 methodology. In parallel the work on the V4 specifications will start, as it is known that the V3 data will be compatible with the V4 specifications by nature. So, a client that implements V4 specs, can also process V3 encoded data.

# Inputs:

Requirements for version 3 revisions on:

- Traffic management plans
- Traffic regulations (alignment with TN-ITS)
- Status and fault Stemming from:
- systematic reviews
- reported errors and bugs



### Actions:

Requirement engineering and define change requests to the relevant DATEX II artefacts in terms of standards and documentation.



### Outputs:

DATEX II v 3.5 drafts to CEN with regard to these parts



Inputs:	Actions:	Outputs:
Requirements for version 4 based on:  Existing feature requests that break compatibility within the main version.  reported errors and bugs of which fixing would cause compatibility issues within the main version  requirements stemming from the change requests coming from all WI that have produced change proposals with regard to methodology, data structure and exchange concepts.  All this fitting in the standardisation roadmap defined in WG4 level.	Stakeholder community consultation via one or two workshops and online sessions to discuss the overall functional breakdown of the data publications of DATEX II in the reality of DATEX II as the reference standard for numerous data categories in the EU delegated regulations, responsible to provide a coherent and understandable data provision that fits in a wider ecosystem of standards. DATEX II Light, DATEX II service oriented detailing should be clearly encapsulated in the resulting functional decomposition of DATEX II	DATEX II v 4.0 functional decomposition
	Then Part 1: methodology can be updated enabling the required features of DATEX II towards 2030	DATEX II v 4.0 methodology 1 <sup>st</sup> draft
	Once part 1 is sufficiently stable and the structure of the publications is agreed, the revision of Parts 2 (location), 7 (common) and 3 situation publication will start.	

Task	T.4.1.5 Methodology
Lead:	DE: BAST
Contributing	Active partners: DE, IT, NL, PT, SE, UK
partners:	
Start:	ongoing
End:	
Output Milestone:	-
Description:	The DATEX II methodology is the basis of the DATEX II data models, defining the modelling rules and concepts. It defines the UML building blocks that can be used and how these are to be used. Within a major version methodology is always stable. A constraint is that some problems or new requirements cannot be addressed as these ask for changes in the methodology causing compatibility issues. Therefore, methodology can be extended with features that do not break compatibility, but nothing can be modified in a major version.



Inputs:	Actions:	Outputs:
Requirements demanding methodology changes on:  open issues enhanced Open-API support linked (open) data trust and data-authenticity support message brokers/queuing	Requirement engineering and define change requests to Methodology	DATEX II v 4.0 methodology 1 <sup>st</sup> draft and proposal for standardisation

Task	T.4.1.6 Data Encoding and transfer
Lead:	IT: Autostrade
Contributing	All active partners
partners:	
Start:	Ongoing
End:	
Output Milestone:	-
Description:	Data encoding and transfer addresses the way the data is transferred from data supplier to data consumer. It is known as DATEX II Exchange. It addresses not only the technology of exchange (platform-specific specifications) but also the logical patterns that are to be respected in order to achieve reliable information exchange, fitting the requirements of the use case. These can vary from a simple "give me what you have now" to an advanced guaranteed delivery and traceability of the information provision with or without enhanced feedback patterns to enable negotiation about activating ITS services between partners.

Inputs:  Requirements from active partners with regard to Traffic management developments	•	Actions:  Assess impact of proposals.  Draft standardisation proposals deriving from the requirements.	•	Outputs: Change requests to relevant parts. WI definitions for later sprints in 2023-2024 that will take up the change proposals or are taken onboard in M4.1.603 and/or M4.1.406
Requirements on message brokers and filtering and querying		Draft specifications for data distribution, message brokers and message queuing		Draft specifications. Standardisation level to be defined in a later stage.



Requirements on trust and		
data-authenticity in		
combination with		
cybersecurity (aligned at WG		
4 level)		

## 3.10 Work Items of SWG4.2

## Task 4.2.1 Alignment and harmonisation

Work Item	<b>SWG4.2.1.2 Alignment and harmonisation;</b> the definition of a roadmap for harmonisation .
Lead:	ERTICO
Contributing	Active partners: BE-FL, HR, CY, CZ, FI, HU, IT, SL, NPRA
partners:	
Start:	Ongoing
End:	31/3/2023
Output Milestone:	M4.2.3 (4.2.2 is not defined)
Description:	Task 4.2.1.2 is part of a common task across the four NAPCORE SWGs and aims to support to align and harmonise the different data standards. The coordination between the SWGs is the responsibility of the French Ministry of Transport and the detailed approach and expected results are described in a dedicated work plan.

Inputs:		Actions:	Outputs:
Workshops DATEX-TN-ITS	7	Constitution of task force	<ul> <li>Resources</li> </ul>
Pre-alignments meetings in		Methodology development	<ul> <li>Defined Methodology</li> </ul>
2022 with SWG4.3		Collection of qualitative	<ul> <li>Document</li> </ul>
• Work session metadata 9-		impact assessment	<ul> <li>Report/alignment</li> </ul>
10-2022		Consolidation of all	<ul> <li>Deliverable</li> </ul>
Eco system deliverable		recommendations	document WG4
M4.2.1		Review between working	M4.0.2 and SWG4.2
		groups	T4.2.1.1 M4.2.3
		Finalisation and submission of	
		the deliverable	

Task 4.2.2. Management and coordination

Work Item	SWG4.2.2.2 Management and coordination-Management of Working group
Lead:	ERTICO
Contributing	Active partners: BE-FL, HR, CY, CZ, FI, HU, IT, SL, NPRA
partners:	
Start:	Ongoing
End:	31/12/2024
Output Milestone:	NA
Description:	Daily management, administration, monitoring and reporting



• Meeting set up: bi-weekly online meetings or at least one time per month with SWG group responsible people

### Inputs:

- Weekly follow-up list
- TN-ITS /NAPCORE internal ERTICO meeting
- TN-ITS management weekly meeting
- TN-ITS monthly board meeting
- NAPCORE monthly task leader meeting



### Actions:

- Management of working group
- Daily project management
- Organising and executing a TN-ITS focused Member States assembly
- TN-ITS association NAPCORE support
- Continuation and further Establishment of creating liaisons, support and promotion of the activity
- Account management of the membership



- Follow up lists of tasks
- Reporting to CAT, SC NAPCORE
- ASR every year
- General Assembly
- Updated admin
- Budget control
- Updated membership

Work Item	SWG4.2.2.3 Management and coordination-Organising and executing a TN-ITS focused Member States Assembly
Lead:	ERTICO
Contributing	Active partners: BE-FL, HR, CY, CZ, FI, HU, IT, SL, NPRA
partners:	
Start:	Ongoing
End:	31/12/2024
Output Milestone:	-
Description:	<ul> <li>Consists of representatives of the Member States involved in the SWG</li> <li>Participates in the definition of requirement, priorities and change requests of the Sub Working Groups</li> <li>Approves annual progress of the Sub Working Groups Serves as a coordinated TN-ITS input preparation for attendance to WG1 (NAP&amp; NB platform strategy and governance)</li> <li>Serves as a coordinated TN-ITS input and potential attendance to task S.1.3, Internal alignment and H.2.3 Advisory Board</li> <li>Meeting set up: 2 times a year physical or hybrid meeting (T4.2.2.3)</li> <li>Workflow: invitation, agenda, meeting, report</li> </ul>

Inputs:  Terms of Reference TN-ITS  Yearly NAPCORE results	•	Actions:  • 2 times per year General Assembly	•	Outputs:  • Minutes of these events
• really NAPCORE results		<ul> <li>quarterly partner meetings</li> </ul>		these events

Work Item	SWG4.2.2.4 Management and coordination-TN-ITS
	association NAPCORE support
Lead:	ERTICO





Contributing partners:	Active partners: BE-FL, HR, CY, CZ, FI, HU, IT, SL, NPRA
Start:	Ongoing
End:	31/12/2024
Output Milestone:	
Description:	<ul> <li>Provide dissemination support and guidance to the NAPCORE project, from the TN-ITS community as a multi stakeholder membership, including the industry and service providers, especially focusing on cooperation and trust elements between public and private stakeholders.</li> <li>Approve the definition of requirements, priorities and change requests, in line with the TN-ITS association roadmaps</li> <li>Meeting set up: Dedicated action within TN-ITS forum (T4.2.2.4)</li> <li>Workflow: report at the TN-ITS GA at least 1 time a year.</li> </ul>

<ul> <li>Inputs:</li> <li>NAPCORE WGs, in particular SWG4.2 results</li> <li>Advisory Board and Steering Committee</li> </ul>	Actions:  • Create CAT inputs  • Create SC inputs	Outputs:  • CAT and SC agreements
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Work Item	SWG4.2.2.5Management and coordination-Continuation and further Establishment of creating liaisons, support and promotion of the activity
Lead:	ERTICO
Contributing	Active partners: BE-FL, HR, CY, CZ, FI, HU, IT, SL, NPRA
partners:	
Start:	Ongoing
End:	31/12/2024
Output Milestone:	-
Description:	Identify emerging (road) data sharing initiatives within the EU NAPCORE partners and propose interaction/alignment with them to the TN-ITS focused member state assembly.  • Meeting set up: ad hoc (T4.2.2.5)  • Workflow: Maintain Active overview & calendar online in local SharePoint site

Inputs:  TN-ITS roadmap	•	Actions:  Strategic communications guidance Accounts	•	Outputs:  • Minutes of the meetings
		<ul> <li>Continuation and enhancing relationships (OADF, SENSORIS, POLIS,)</li> </ul>		



# **Task 4.2.3 Specifications**

Work Item	SWG4.2.3 Specifications:
Lead:	ERTICO
Contributing	Active partners: BE-FL, HR, CY, CZ, FI, HU, IT, SL, NPRA
partners:	
Start:	Ongoing
End:	6/2024
Output Milestone:	M4.2.5
Description:	This task addresses the further development of the TN-ITS technical specifications. It covers the envisaged harmonisation across SWGs, the exploration of new data sharing methods, the procedures & governance for the maintenance of the technical specifications, the support to service implementers of the technical specification, incl. tools & recommendations.

Inputs:  • M4.2.4  • Results from 4.2.1 (alignment)  • Guidance from SWG 4.0 alignment on CEN/ISO standardisation  • NAPCORE priority applications	•	Actions:  New methods explored, tried, assessed  Updated maintenance approach in place  NAPCORE harmonised data specifications  Guidance to (new) service deployment	•	Outputs:  Reports  Update specifications  Aligned specifications  Report/support guide  Contribution to SWG4.0 position on CEN/ISO standardisation
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Task 4.2.4 TN-ITS enhancements in relation to the data sharing supply chain

Work Item	SWG4.2.4.1 TN-ITS enhancements in relation to the data sharing supply chain: Build up the Trust basis and ensure quality, integrity and security
Lead:	ERTICO (Frank Daems) (Ad interim)
Contributing partners:	Active partners: BE-FL, HR, CZ, FI, HU, IT, SL, NPRA, ERTICO
Start:	Ongoing
End:	6/2023
<b>Output Milestone:</b>	M4.2.6
Description:	Establish a technical expert team with the NAPCORE Member States to research, make an inventory and perform an assessment of data trust related items and mechanisms, suitable to serve the bidirectional TN-ITS data exchange purposes within the complete data exchange chains:  Producer – publisher (NAP) – processor – consumers of data Consumers of data – processor – producer (feedback loop)

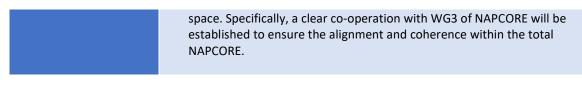


•	Research the most optimal quality system that can be applied to TN-ITS services, based on the inputs performed by the EU-EIP D4.1.
•	Define the quality levels for an identified quality system
•	Assess new applications in view of the data attributes and services
	provided by TN-ITS (e.g. ISA, automation)
•	Defining the Trust Assessment method (see next workplan)

Inputs:  • D5.5 TN-ITS Go  • ISA-FIT Helmond project	Actions: Trust identification (Inventory). Oct 2022 Quality system identification (EU-EIP Quality framework study, others,) Nov 2022 Assessment new applications (See Action plans) Q1 2023 Specify, and define a deployment approach for bidirectional TN-ITS data exchange Q1 2023 Assess the complete end to end chain of TN-ITS data for vulnerabilities Q2 2023 Identify the potential for certifications - Workshops, (2 /year) to develop the results Q2 2023	Outputs: Input to Yearly Report Input to M4.2.7 Questionnaire/Excel outputs Proposed quality system Proposed quality levels A list of relevant applications/services & A list of potential additional TN-ITS attributes to support these applications Proposed implementation plan to deploy the suggested quality/trust system (based on above) Suggestion for a certificate or not

Work Item	SWG4.2.4.2 TN-ITS enhancements in relation to the data sharing supply chain: Develop and deploy a data quality assessment methodology
Lead:	ERTICO (ad interim)
Contributing partners:	Active partners: BE-FL, HR, CZ, FI, HU, IT, SL, NPRA, ERTICO
Start:	Ongoing
End:	31/12/2024
Output Milestone:	M4.2.7
Description:	This task will develop a generic data quality assessment methodology, taking into account all aspects of the TN-ITS data space, some of those based upon the document of the EU-EIP forum, in its activity 4.1. This activity has described a detailed analysis to address data quality, related to Real Time Traffic Information (RTTI). It also describes methods to maintain the data quality  Meeting set up: online or hybrid workshops  Workflow: This task is a further progression on the evolution methodology TN-ITS GO Deliverable D4.1 The task will take this background into account in its specific deployment to TN-ITS data





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Inputs:		<u>Actions</u>		Outputs:
• M4.2.6		EUEIP model liaison with WG3.2, CY is active		<ul> <li>Documentation</li> </ul>
		in WG3 and follows T3.2		of related
		<ul> <li>Define the quality assessment methodology</li> </ul>		actions
		based on WG3.2		
		Define a deployment approach for quality		
		assessment		
		Workshop: critical evaluation of quality		
		frameworks with respect to TN-ITS data chain		
		Identify relevant data assessment models		
		Define minimum level of quality for TN-ITS		
		data, in terms of accuracy, completeness,		
		reliability, relevance and timeliness		
		Evaluate data quality assessment tools		
		(performance, features, reliability,		
		conformance, serviceability) might need to		
		collaborate with WG5		
		Workshop: critical evaluation and design of		
		tool for TN-ITS		
	<u> </u>		1	

Task 4.2.5 Engage the European NAPCORE Member States community

Work Item	SWG4.2.5.1 Create a methodology to assess the actual status and future expectations of the Member States interested to TN-ITS			
Lead:	ERTICO			
Contributing partners:	Active partners: BE-FL, HR, CY, CZ, FI, HU, IT, SL, NPRA			
Start:	Ongoing			
End:	6/2023			
Output Milestone:	M4.2.8			
Description:	Analyse the results of the survey and address customised proposal for going forward to a number of priority Member States			
Inputs: Survey results	Actions:  • Analyse the survey /conclude on major topics/actions (Cont 2022)  • Define customised proposals for priority MS  • Outputs:  • Documented output  • Workshop script			

 Develop a workshop script for analysing and nudging authorities to consider TN-ITS

services and /or improvements



Work Item	SWG4.2.5.2 Engage the European NAPCORE Member States community; Deploy the assessment to each new MS
Lead:	ERTICO
Contributing	Active partners: BE-FL ,HR, CY, CZ, FI, HU, IT, SL, NPRA
partners:	
Start:	Ongoing
End:	8/2024
Output Milestone:	M4.2.9
Description:	<ul> <li>Define a customised offer how TN-ITS can help MS to adapt TN-ITS</li> <li>Deploy these offers via a MS roadshow</li> </ul>

Inputs:  • Documented output from M4.2.8	Actions:  Develop customised offers to MS  Organise local workshops with the authorities (involving major cities)  Use the consolidated output as consultancy to EU commission on how to continue /improve services across Europe (Can be 2024)	•	Outputs: Dedicated MS action plans Results of workshops (Documents) Consolidated consultancy on further EU progress on TN-ITS (Input to related CEF calls? (2024)
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## Task 4.2.6 TN-ITS focused dissemination and communication

# Editorial calendar, regular newsletter, website update

Work Item	SWG4.2.6.1 TN-ITS focused dissemination and communication; Ensure a good communication of the project and the dissemination of the acquired knowledge
Lead:	ERTICO
Contributing	Active partners: BE-FL,HR,CY,CZ,FI,HU,IT, SL,NPRA
partners:	
Start:	Ongoing
End:	12/2023
Output Milestone:	M4.2.11
Description:	<ul> <li>Act as single point of contact for maintaining a repository of support materials.</li> <li>Make proposals to the TN-ITS focused member state assembly concerning promotion of TN-ITS technical specifications &amp; raising awareness via relevant media.</li> <li>Meeting set up: Monthly follow up with task contributors</li> <li>Workflow:         <ul> <li>maintain an active editorial calendar in the online local SharePoint</li> <li>Meeting set up: online or hybrid workshops</li> </ul> </li> </ul>



Inputs:  • Previous report	Actions:  TN-ITS network meetings  Maintain website  TN-ITS bi-monthly newsletter  Congresses (e.g. ITS EU congress Lisbon)  Papers, articles  Social media (LinkedIn)	•	Outputs:  • Updated report
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Work Item Lead:	SWG4.2.6.1 TN-ITS focused dissemination and communication - Maintaining an active TN-ITS expert community  ERTICO
Contributing partners:	Active partners: BE-FL, HR, CY, CZ, FI, HU, IT, SL, NPRA
Start:	Ongoing
End:	31/12/2024
Output Milestone:	M4.2.12
Description:	<ul> <li>Act as single point of contact for maintaining a repository of support materials.</li> <li>Make proposals to the TN-ITS focused member state assembly concerning promotion of TN-ITS technical specifications &amp; raising awareness via relevant media.</li> <li>Meeting set up: Monthly follow up with task contributors</li> <li>Workflow:         <ul> <li>Meeting set up: online or hybrid workshops</li> <li>Analyse results of TN-ITS GO on how MS implemented the service and what type of problems they encountered -&gt; Formulate a survey to get info from MS, Publish, get results and analyse the survey response. Make a synthesis and verify the outcome with the MS</li> </ul> </li> </ul>

Inputs:  • Strategic communication workshop 15-9-2022  • Existing dissemination materials	<ul> <li>Actions:         <ul> <li>Maintain an active edito calendar in the online lo SharePoint site</li> <li>Organise regular meeting yearly) with the TN-ITS eand interested Member to exchange lessons lear</li> <li>Membership yearly GA</li> <li>Quarterly partner works</li> </ul> </li> </ul>	executed editorial gs (bi- experts States rned executed editorial calendar • Report on all activities, publications, meetings etc.



## 3.11 Work Items of SWG4.3

Work Item	SWG4.3. Workplan 2024
Lead:	ITxPT
Contributing	Active partners: CZ, FI, FR, DE-BASt, GR, IT, NL, RO,SI, NPRA,
partners:	Followers: AT, BE, HR, CY, DK, LU, MT, PL, PT, SK, GR-EG, HU, IE, LV,
	LT
Start:	8/23
End:	10/23
Output Milestone:	Contribution to MS.1.3 "Working Programme 2024"
Description:	Inputs, actions, and outputs described below.

Inputs: • Previous SWG4.3. workplan (2023)	partners	•	•	Outputs:  • Workplan SGW4.3 2024 to feed MS.1.3
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Work Item	T.4.3.1: Contribution to alignment and harmonisation Task (WG4)
Lead:	ITxPT
Contributing	Active partners: CZ, FI, FR, DE-BASt, GR, IT, NL, RO, SI, NPRA
partners:	Followers: AT, BE, HR, CY, DK, LU, MT, PL, PT, SK, GR-EG, HU, IE,LV,LT
Start:	4/23
End:	6/23
Output Milestone:	Contribution to M.4.0.3 "Update of Roadmap for harmonisation
	tasks including qualitative impact assessment"
Description:	Inputs, actions, and outputs described below.

Inputs:  The initial roadmap defined in M.4.0.2  DG Move	Actions:  Review of the previous roadmap M.4.0.2  Desktop research and partners input for new standardisation activities to be considered.  Updates on the priorities for multimodal data - Prioritisation of the activities that should take place for the alignment and coordination  Proposal for liaisons to be built and/or to be
	maintained

Work Item	4.3.2.1 Identification of gaps and overlaps of existing standards
Lead:	ITxPT





Contributing partners:	Active partners: CZ, FI, FR, DE-BASt, GR, IT, NL, RO, SI, NPRA
Start:	ongoing
End:	11/23
Output Milestone:	M4.3.3 Report on gaps, overlaps of standards for multimodal data exchange
Description:	Inputs, actions, and outputs described below.

I	r	١	р	u	ts	:

- Each active member will design its own strategy considering the type of the liaison.
- Involvement of national experts from active contributors is expected.
- For 2023:
  - 1. Liaison is built with TOMP API
  - French (national)

     initiatives on MaaS
     APIs & NAP
     implementation
  - 3. Cycling Industries

#### Actions:

- Building liaisons based on the decided WG4 roadmap.
- Analysis and comparison of existing standards: functional scope, data elements, data producers, data consumers
- Participation in meetings, exchanging information, collect documentation, organise bilateral meetings with the relevant stakeholders.
- Focus of 2023: The analysis between TOMP API VS Transmodel and French NeTEx profile

#### Outputs:

- Report on the results of the liaisons (what is the status of the standardisation work that you are assigned to follow? What challenges are raised? What documentation is available.
- Report on standards analysis based on relevant liaisons, including data categories and data flows.
- Identification of gaps and overlaps

Work Item	4.3.2.2 Guidance to Member States on the use of multimodal data standards
Lead:	ITxPT
Contributing	Active partners: CZ, FI,FR, DE-BASt, GR, IT, NL, RO,SI, NPRA
partners:	Followers: AT, BE, HR, CY, DK, LU, MT, PL, PT,SK, GR-EG, HU,IE,LV,LT
Start:	1/23
End:	11/23
<b>Output Milestone:</b>	-
Description:	It includes the collection of input and the preparation and delivery of training events & material.

#### Inputs:

- All active partners and followers
- WG3 relevant deliverables (M3.2 report on NAP data availability and M3.1)
- WG4 relevant deliverables



#### Actions:

- Collection of use cases per existing/under development standard
- Analysis of results of WG3 reports on data availability and NAPs progress
- Analysis of WG4 outputs
- Collection of needs on guidance and training material



#### Outputs:

- Definition of functional use cases including data elements, data producers, data consumers
- Definition of type of material, channels, and methods of providing guidance
- Deliver training programme - material



		and events - link with
		Н.3

Work Item	4.3.3 Mapping of multimodal data standards and recommendations
Lead:	ITxPT
Contributing	Active partners: CZ, FI,FR, DE-BASt, GR, IT, NL, RO,SI, NPRA
partners:	
Start:	6/23
End:	9/24
Output Milestone:	M4.3.5 Mapping of multimodal data standards and
	recommendations
Description:	Inputs, actions, and outputs described below.

Inputs: • T.4.3.2 results	•	Actions:  Identification of relevant standards to be mapped  Analysis of data elements and mapping  Recommendation for peer-to-peer standards mapping  Recommendation for standards update	•	Outputs:  Select the standards relevant for a mapping based on gaps & overlaps deliverable M4.3.3  Crosscheck each data elements and related term & definition  Guideline to map peer to peer standards  Guideline to update
				standards according to mapping outcomes

## 3.12 Work Items of SWG4.4

Work Item	4.4.2.4 Draft Specification
Lead:	SE/DE
Contributing	CZ
partners:	
Start:	06/22
End:	06/23
Output Milestone:	4.4.1
Description:	Inputs, actions, and outputs described below.

<ul><li>Inputs:</li><li>Input from previous Work Items</li></ul>	•	Actions:  • Make a semantic mapping between existing DCAT-AP	•	Outputs:  • "napDCAT-AP v1.0"  specification, including
		elements and NAP entities, including the essential metadata elements from the Conceptual Model  For identified gaps and mismatches: make a		all artefacts • Public (online) presentation or workshop about "napDCAT-AP v1.0" (= milestone 4.4.1)



Work Item	4.4.3.1 Governance & maintenance structures
Lead:	NL
Contributing	DE, CZ
partners:	
Start:	09/22
End:	04/23
Output Milestone:	4.4.2
Description:	Inputs, actions, and outputs described below.

## Inputs:

 Best practices on governance & maintenance of (meta)data standards (e.g., based on DATEX II, DCAT-AP...)

## Actions:

Conceptualisation on governance & maintenance for napDCAT-AP, including:

- What organisational & technical structure? (e.g., responsibility of a subteam in SWG 4.4?; special website on NAPCORE website?)
- How to receive, store & process incoming issues and comments about napDCAT-AP)? (e.g., a ticket system?)
- How to discuss and approve resolutions? (e.g., which workflows?)

## Outputs:

- Concept paper about the "napDCAT-AP back office" (ca. 5 pages)
- Inauguration of a "napDCAT-AP back office", including a news announcement (= milestone 4.4.2)

Work Item	4.4.3.2 Hosting of "controlled vocabularies"
Lead:	RO
Contributing	CZ
partners:	
Start:	01/23
End:	08/23
Output Milestone:	n/a



### **Description:**

Inputs, actions, and outputs described below.

#### Inputs:

 Best practices on hosting of "controlled vocabularies" (e.g., based on vocabularies hosted by "EU Publication Office" and by countries for their DCAT-AP extensions)

#### Actions:

Conceptualisation on hosting of "napDCAT-AP controlled vocabularies", including:

- rules for controlled vocabularies (how to establish? how to maintain &update?)
- technical implementation (where and how to host? e.g. at NAPCORE website?)

## Outputs:

- Concept paper about "napDCAT-AP controlled vocabularies" (ca. 5 pages)
- Solution for technical implementation

Work Item	4.4.3.3 Support & dissemination to NAP operators
Lead:	GR
Contributing	DE, IT
partners:	
Start:	02/23
End:	12/23
Output Milestone:	-
Description:	Inputs, actions, and outputs described below.

### Inputs:

 Best practices on support & dissemination of (meta)data standards (e.g., based on DATEX II, DCAT-AP...)



### Actions:

Conceptualisation on support & dissemination including:

 Which way? (e.g., hands-on support via "hot line" etc? implementation hotlines?
 FAQ?)



### Outputs:

- Concept paper about support & dissemination for napDCAT-AP (ca. 5 pages)
- First concrete support & dissemination action (e.g., a first online guideline)

Work Item	4.4.3.4 Revision of napDCAT-AP
Lead:	SE/DE
Contributing	CZ
partners:	
Start:	09/23
End:	09/24
Output Milestone:	M4.4.3
Description:	Inputs, actions, and outputs described below.

#### Inputs:

• Review of napDCAT-AP v1.0



#### Actions:

 Update of logical model (UML); listings of RDF classes, properties, and controlled vocabularies; and



#### **Outputs:**

 "napDCAT-AP v2.0" specification, including all artifacts



#### 3.13 Work Items of WG5

The objective of this Working Group is to harmonise the compliance assessment of National Bodies/National Authorities for the Delegated Regulations (EU) No 885/2013, No 886/2013, No 2015/962, and No 2017/1926. In 2022, WG5 elaborated harmonised forms for the Self-Declarations as well as for Compliance Assessment and recommendations for the content of accompanying documents. Harmonised process drafts for Compliance Assessment and Random Inspections were discussed and agreed on. Additionally, a maturity level classification for National Bodies/Competent Authorities was developed with templates and recommendations for the reporting procedures. The results were documented in M5.2 and M5.3. The Work Programme for the upcoming years builds up on these results and is differentiated into continuous activities and specific activities, to reflect the difference between specific tasks. The specific activities are those, where new outputs are developed and specific tasks are newly created.

The specific activities are divided into three packages:

Specific Activities I will pick up the results of the year 2022 and start with pilot trials of the forms and processes that have been developed. The objective is to test the forms and improve them in practical application. Additionally, the work will be continued on the specifications, which have already started, I.e., the definition of common quality and evaluation criteria, which can be integrated into the Compliance Assessment Forms as well as on the analysis of options to implement a framework of reasonable and proportionate terms and conditions of re-use in Compliance Assessment. In parallel, a reference architecture for the National Body/Competent authorities' tasks and functionalities shall be developed.

N	APCORE WG5 Working Programme	2023	3					
	Specific Activities I							
Task	Activities	Lead	MS	2023 Q1 Q2 Q3 Q4				2024
	Set up criteria/process for pilot trial	FR		Q.		40	$\stackrel{\sim}{-}$	
Pilot trial of Random Inspections and	Identify countries taking part in the pilot trial	FR						
Compliance Assessment	Carrying out the pilot trial	FR						
	Reporting on the results of the pilot trial to Task 5.5 for Evaluation	FR						
	Identify suitable quality & evaluation criteria (Workshop)	CZ / HR						
Define (common) quality and evaluation criteria for Compliance Assessment	Discuss and agree upon (common) quality & evaluation criteria for Compliance Assessment amongst the Member States	CZ / HR						
	Implement agreed quality & evaluation criteria in CA processes and forms and document results in M5.4	CZ / HR	M5.4					
Analyse framework for reasonable	Analyse Delegated Regulations according to Articles stating requirement related to data re-use	GR / RO						
and proportionate terms and conditions for data re-use to be implemented in Compliance Assessment	Analyse framework for proper terms and conditions for data re-use (WG3) (workshop with WG3)	GR / RO						
	Identify implementable pieces of the framework for Compliance Assessment (Degree of CA)	GR / RO						
	Implement outcome in the Compliance Assessment processes and materials, if suitable	GR / RO						
	Collect structured results from Task 5.1 and 5.2	AT / FI						
Develop first draft National Body/National Authority Reference	Set up the architecture structure and define elements in an functional Architecture (FRAME)	AT / FI						į
Architecture	Design first draft architecture	AT / FI						
Arantecture	Discuss first draft achitecture with Member States	AT / FI						
	Develop final architecture and document in M5.9	AT / FI	M5.9					



Specific Activities II addresses issues related to the creation of semi-automated tools to digitally support, simplify and optimise the compliance assessment process as well as the electronic support of Compliance Assessment. To increase the consciousness for data to comply with the DRs as well as the availability of data, the relevant contact persons and stakeholders must be motivated to participate. For internationally operating companies that also undergo the compliance assessment process, strategies for multinational compliance assessment methods should be assessed. The core task of Specific Activities II is to increase the awareness of as many organisations as possible for the necessity and usefulness of collecting data in the course of compliance assessment and to promote its completeness and precision.

NAPCORE WG5 Working Programme 2023									
Specific Activities II									
Task	Activities	Lead	MS	Q1	20: Q2	Q3 Q4		2024	
Semi-automated tools & electronical implementation of Compliance Assessment	Define requirements from the perspective of National Bodies for semi- automated support tools or the electronic implementation of CA processes and forms (e.g. test centres) - workshop / analysis for CA forms	BE / DE							
	Work out recommendations for possible electronically supported processes and forms	BE / DE							
	Provide recommendations to the respective (Sub-) Working Groups (e.g. WG4 – DATEXII, MMTIS standards).	BE / DE							
	Write implementations guidelines for electronic CA procresses and forms Gather types and sectors of organisations/players affected by the Delegated	BE / DE						$\dashv$	
	Regulations (in cooperation with T1.2 and H1.3)  Identify data holders and service providers in cooperation with WG2/WG3	PT / EE					1	$\equiv$	
Identification of the relevant organisations and implementation	Developing strategies and processes to reduce CA challenges for international organisations  Creation of an incentive system or selection of sanctioning options in case of	PT / EE					4	_	
of strategies and actions to motivate these organisations (private, international) to provide data on the NAPs	non-compliance	PT / EE	-				4	$\dashv$	
	Legal review of whether processes and strategies are suitable for CA procedure  Method definition or brainstorming for strategies to accelerate data	PT / EE					+	$\dashv$	
	availability Develop structure for the milestone report Write Milestone report	PT / EE PT / EE	M5.6				+	=	
	Identify strategies and processes to reduce efforts for international organisations concerning CA	NL/DE	1413.0						
Prototypical multi-national compliance assessment demonstrated	Analyse possibility of multi-national CA from a legal perspective (e.g. issuing of multi-national self-declarations, re-using assessment results of other								
	National Bodies, establishing a European assessment centre)  Set up prototypical process for multi-national CA demonstrator  Evaluate the results of the demonstrator, work out recommendations and	NL / DE	-						
	document results in milestone report	NL / DE	M5.10						

Specific Activities III focuses on the process of evaluating the previously completed targets previously achieved in 2022 and 2023. For this purpose, criteria must be found to evaluate the results of the random inspections and the compliance assessment process as well as the self-declaration forms. Furthermore, actions and strategies have to be identified to be able to impose sanctions on non-compliant behaviour of the stakeholders. In this respect, a distinction must be made as to whether non-compliant behaviour was carried out once, several times, knowingly, or unknowingly. Additionally, the strategies and actions to accelerate the provision of data on the NAPs will be put in place. These specific activities are so far advanced that they are not expected to be implemented until 2024.



#### NAPCORE WG5 Working Programme 2024 **Specific Activities III** 2024 2023 Task Activities Lead Q2 Q3 Q4 Define an evaluation process and evaluation criteria concerning the outcome of the random inspections and compliance assessment FR Define an evaluation process and evaluation criteria concerning the outcome of the implementation of common self-declaration forms FR Evaluation Define an evaluation process and evaluation criteria concerning the usability of the defined quality and evaluation criteria for CA FR FR Carry out the evaluation process Report on the evaluation results, identify gaps and define improvement FR Analyse NB/NA and national legislation related to options in regard to non-LT / IT compliance (Questionnaire) Work out opportunities of action in case of non-compliance LT / IT Strategies and actions for non-Draft a process for handling non-compliance cases LT / IT compliance defined Define mitigation measures/sanctions/other consequences to avoid noncompliance (once/repeatedly/repeatedly illegitimate) Evaluation of the measures and their effectiveness in achieving the set objectives LT / IT M5.8 Develop consulting material for organisations (E.g. FAQ, ...) concerning the requirements of the Delegated Regulations IT / NL Develop suitable measures to implement the defined strategies and actions IT / NL Accelerate the provision of data or Carry out defined measures for implementing the strategies and actions IT / NL the NAPs IT / NL Set-up an information campaign in cooperation with Act H.3 Carry out the information campaign (targeted to international organisations) IT / NL

The Continuous Activities differ from the Specific Activities in the design of the work programme. Specific activities have a clear definition of objectives to be achieved, whereas continuous activities are not intended to produce new knowledge, but to extend, expand and update existing results. Important topics here include updating the contact lists of the national bodies/competent authorities. The refinement of compliance assessment and self-declaration documents to the knowledge gained from pilot trials. There is a need for continuous updating of methods and strategies based on the results collected during the progress monitoring process. From the feedback, the quality and evaluation criteria as well as the communication with the relevant stakeholders, insights can ultimately be gained and the need for improvement identified.



FR

#### NAPCORE WG5 Working Programme 2023 **Continous Activities** 2023 2024 Task Activities Lead Q2 Q3 Q4 Status of National Bodies / Regular update of NB/CA contact list on the website AT Competent Authorities Collecting evaluation according to maturity levels of NB/CA AT Adapt CA/SD forms related to the outcome of the pilot trials AT Adapt CA/SD forms related to the outcome of final evaluation AT Continuous adaptation Adapt CA/RI processes related to the outcome of the pilot trials FI according to the results of Pilot FI Adapt CA/RI related to the outcome of final evaluation Trials and Evaluation Adapt quality & evaluation criteria related to the outcome of the pilot trials CZ Adapt quality & evaluation criteria to the outcome of final evaluation CZSet up modus and a time schedule for the monitoring of the implementation of the harmonised self-declarations forms, Compliance Assessment processes and random inspection methods FR Progress monitoring Carry out the progress monitoring FR Report on the progress, identify gaps and define improvement measures FR FR Collect suggested improvements Communicate the requested improvements to the related tasks: FR Improvement Self-declaration Forms FR Compliance Assessment Form & Process/Random Inspection Process FR

CA = Compliance Assessment SD = Self-Declarations

Quality & Evaluation criteria

RI = Random Inspection

#### WG5 Milestones 2023:

The following WG5 Milestones will be worked out in 2023:

MS#	Resp.	Milestone Description	Indicative date of completion (GA)	Indicative date of completion (current)	Means of verification	Ext. MS
M5.4	5.3	Common quality & evaluation criteria for compliance assessment defined	5/2022	06/2023	Report submitted to Steering Committee	Х
M5.6	5.4	Strategies and actions to address (private, international) organisations defined	12/2022	06/2023	Report submitted to Steering Committee	х
M5.7	WG5	WG5 Working Programme		10/2023	Handed over to coordinator	
M5.8	5.5	Strategies and actions for non- compliance defined	12/2023	06/2024	Report submitted to Steering Committee	х
M5.9	5.1	National Body Reference Architecture defined and agreed	12/2023		Architecture accepted by Steering Committee	
M5.10	5.5	Prototypical multi-national compliance assessment demonstrated	6/2024	12/2023	Report submitted to Steering Committee	Х