

# BRIDGE

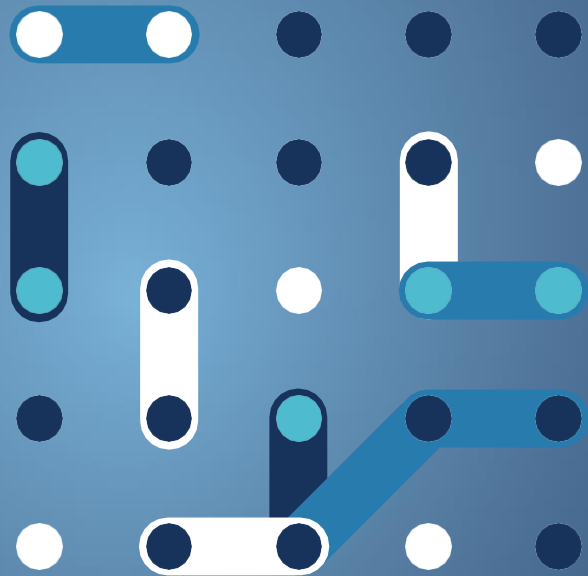
## REGULATION WORKING GROUP

May 2021

### 2021-2022 WORKPLAN

**Bridge**

Regulation WG





# WORK GROUP INFORMATION

## Bridge WG Chairmanship

- *Co-Chair: Helena Gerard (OneNet/EU-Sysflex)*
- *Co-Chair: Manuel Serrano (CROSSBOW)*

## Support from BRIDGE secretariat

- Aris Dimeas, ICCS, BRIDGE secretariat
- John Karakitsios, ICCS, BRIDGE secretariat
- Ioannis Karakitsios, ICCS, BRIDGE secretariat
- Marcos Jareño, ZABALA, BRIDGE secretariat Coordinator

## European Commission

- *Directorate-General for Energy, Unit B5 “Innovation, research, digitalisation, competitiveness” – European Commission*
- *CINEA, European Climate, Infrastructure and Environment Executive Agency – European Commission*



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## 1.1 Introduction

The BRIDGE Regulation working group was established at the origin of the BRIDGE initiative with the objective of fostering knowledge sharing among H2020 projects affected or addressing by different Regulation aspects in the Energy domain.

The Regulation WG, as the entire BRIDGE initiative, structures its activities on a yearly basis. In the last years, different topics have been addressed, resulting in most cases on specific reports that can be shared not only within the BRIDGE community, but with a larger audience.

Last year, due to the size of the WG – high amount of participating projects – and the heterogeneity of interests, a hierarchical approach to analyse and work on different topics in parallel was proposed. This enabled not only to better cover the knowledge sharing needs of different tracks in the Energy domain, but also enrich the outcomes of the WG.

The BRIDGE Regulation working group is currently composed of 65 projects represented by 135 participants. It is a live group where new contributors are always joining and leaving as results of the natural evolution of the projects. This “staff rotation” facilitates a dynamic environment for the introduction of new topics of interest. However, it also creates a continuation challenge when a leading project in one of the topics concludes its engagement with BRIDGE. As a solution, in 2021, the Regulation WG will not only tackle a number of pre-identified tracks, but will also propose a new mechanism to facilitate the continuation of activities by new projects joining the initiative – whenever these activities remain of interest.

## 1.2 Key objectives and actions

Past year, the Regulation working group has focused its efforts on topics related to market design, more in particular on **Products and Services**, **Coordination Models** and **Market Integration**. In order to continue the work, four tracks are defined that will focus on several integration/harmonization aspects of market design.

These aspects cover:

(1) **Harmonization at the level of products and services**, including the role of energy communities as service provider.

(2) **Cross-border and regional cooperation.**

(3) **Integration of market -based and non-market based flexibility mechanisms.**

(4) **Coordinated flexibility markets for system services.**

The objective is to identify at least one specific topic within each of the tracks to be addressed within 2021. When possible an aggregation of more than one topic could be considered.

In addition to these four tracks, a new mechanism to facilitate the dynamic sharing of knowledge will be proposed.

The BRIDGE Regulation working group will also provide input in terms of best practices to the ongoing process of the modification of existing Network Codes (NC)/ or the set-up of a novel NC for Flexibility. This interaction between the BRIDGE Regulation working group and the different relevant stakeholders for the NC-process (EC, ACER, ENTSO-E, EU DSO,...) will be further detailed in the coming months. As a start, the BRIDGE Regulation working group will provide an overview of topics on which input could be provided.



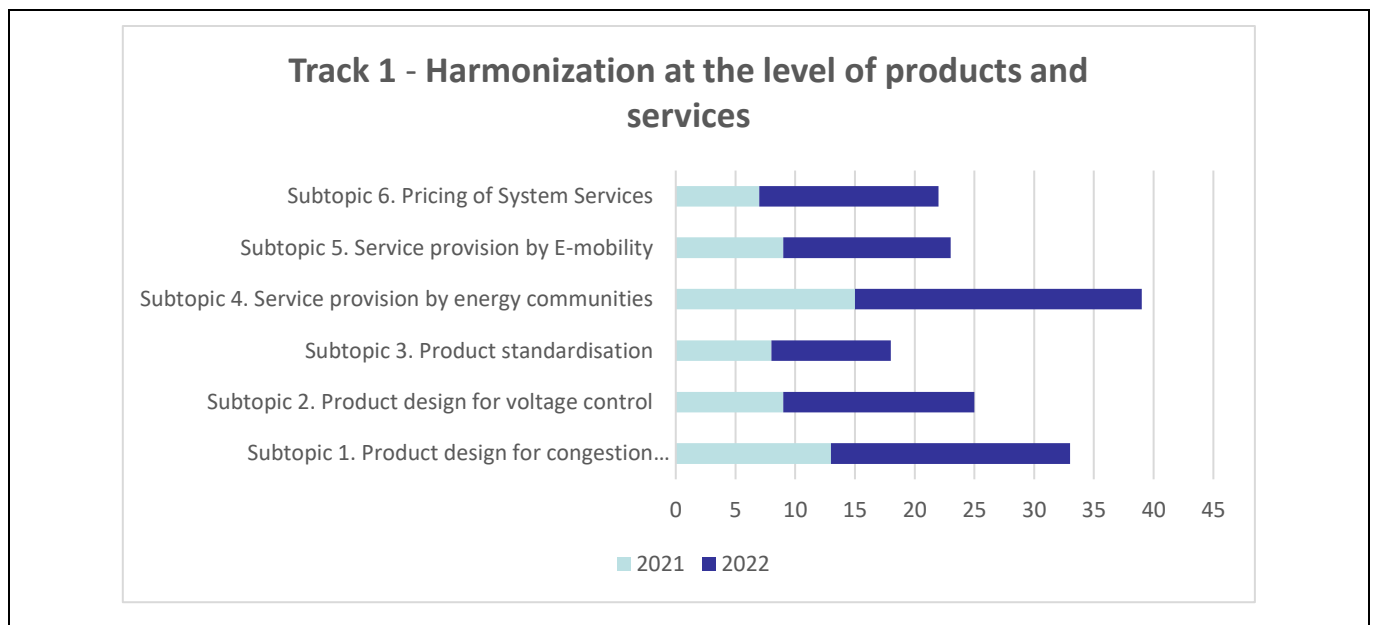
## 1.3 Methodology

### 1.3.1 Research tracks

The four tracks identified on the previous section were presented at the BRIDGE General Assembly (GA) on the 3<sup>rd</sup> March 2021. The objective was to trigger the discussion on the interest of each of the tracks, identifying different specific topics per track and analysing the capability to address such topics in 2021.

It is noteworthy mentioning that, based on the experience of previous year, it has been critical to prioritise the topics to be targeted considering the availability of resources of the different projects expressing interest.

To that end, a survey was launched after the GA in order to identify the most relevant topics within each of the tracks to be considered in 2021. In total 64 responses were received from 54 different projects, members of the Regulation WG. In the survey, projects were not only requested to identify their interests, but also to notify in which year (2021 or 2022) their main contributions would be available.



The subtopic that has raised more interest refers to the analysis on **Service Provision by Energy Communities** – both in 2021 and 2022. The topic will be completed with Subtopic 5 to address impact of **E-Mobility and the market incentives interest coming from TRACK3**.

As a second option, the topic on **Product Design** (Subtopic 1, 2 and 3) will also be tackled in 2021.

Projects that will participate in the first topic are:

- SENDER, NESOI, ReDREAM, MUSE GRIDS, Platone, **TwinENERGY**, X-FLEX, BD4OPEM , Coopérnico / Compile ,Interconnect, GIFT, (GOFLEX), (FEVER), RENergetic, Ebalanceplus, INSULAE, IANOS, Interrface (optional also available to work on Phoenix, Interconnect), PARITY, EU-sysflex.
- EU Platone, SENDER, NESOI, ReDREAM, MUSE GRIDS, Platone, TwinERGY, X-FLEX, BD4OPEM H2020, Coopérnico / Compile, Interconnect, GIFT, (GOFLEX), (FEVER), RENergetic, Ebalanceplus, INSULAE, IANOS. Interrface (optional also available to work on Phoenix, Interconnect), PARITY, EU-sysflex.
- EU Platone, SENDER, EU-SysFlex, X-Flex, MUSE GRIDS, eNeuron, ISLANDER, FLEXGRID, TwinERGY, eNeuron, Maesha, BD4OPEM H2020, iElectrix, Coopérnico / Compile, Interconnect, X-FLEX, GIFT, (GOFLEX), (FEVER), CoordiNet, CREATORS, RENergetic, inteGRIDy, Sanket Puranik,E-LAND, RENAISSANCE, Ebalanceplus, fresco, IANOS, OneNet, DELTA , PARITY, EU-sysflex, iFLEX - Intelligent Assistants for Flexibility Management.



There will be a specific chapter on E-mobility (second group of projects ) and on market incentives (third group)

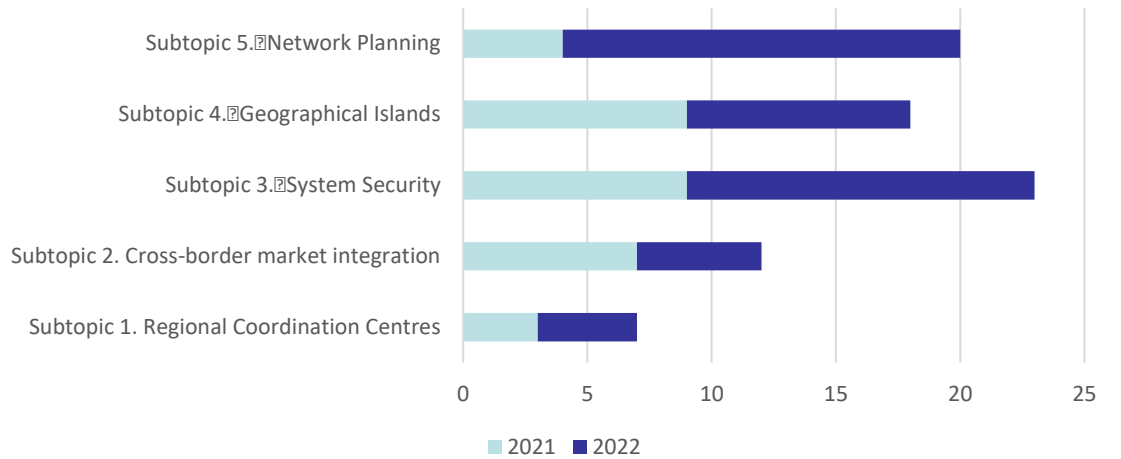
As a second topic, Product design will be tackled by the following projects:

- **OneNet**, EU Platone, FLEXITRANSTORE, EU-SysFlex, PLATOON, eNeuron, ISLANDER, FLEXGRID, TwinERGY, X-FLEX, Maesha, BD4OPEM H2020, iElectrix, CoordiNet, FLEXIGRID, INSULAE, TIGON, IANOS, Interrface (optional also available to work on Phoenix, Interconnect), Towards Intelligent DC-based hybrid Grids Optimizing the network performance, EU-sysflex, IANOS, PARITY.

The first topic will be led by **TwinERGY** and the second topic by **OneNet**.

Table 1 Results ion TRACK1 survey

### Track 2 - Cross-border and regional cooperation



The subtopic that has raised more interest refers to the analysis on **System security. Network planning** will also be considered in 2021 with a potential continuation in 2022.

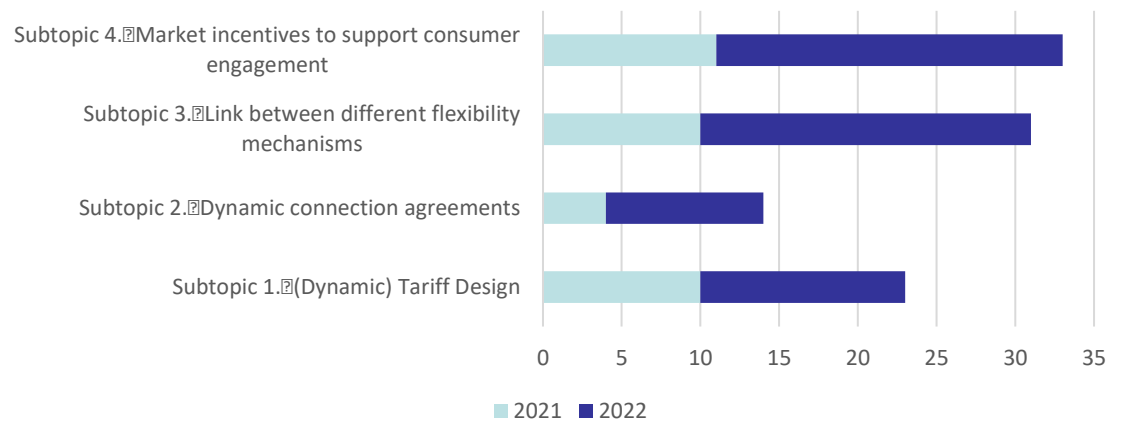
Projects that will participate in the first topic are:

- CROSSBOW, FLEXITRANSTORE, PLATOON, SYNERGY, Platone, TwinERGY, **TRINITY**, X-FLEX, iElectrix, FLEXIGRID, RENERgetic, INSULAE, fresco, TIGON, IANOS, OneNet, Interface (optional also available to work on Phoenix, Interconnect), DELTA, EU-sysflex, EU Platone, FlexPlan, eNeuron, BD4OPEM H2020, iElectrix, Coopérnico / Compile, CREATORS,

The leader of the topic will be: **TRINITY**.

Table 2 Results ion TRACK2 survey

### Track 3 - Integration of market -based and non-market based flexibility mechanisms.



The subtopic that has raised more interest refers to the analysis on **Market incentive to support consumer engagement**. This topic will be handled as part of the first subtopic in TRACK01.

A secondary option that will be considered is the topic on “**Links between different flexibility mechanism**”.

Projects that will participate in the first topic are:

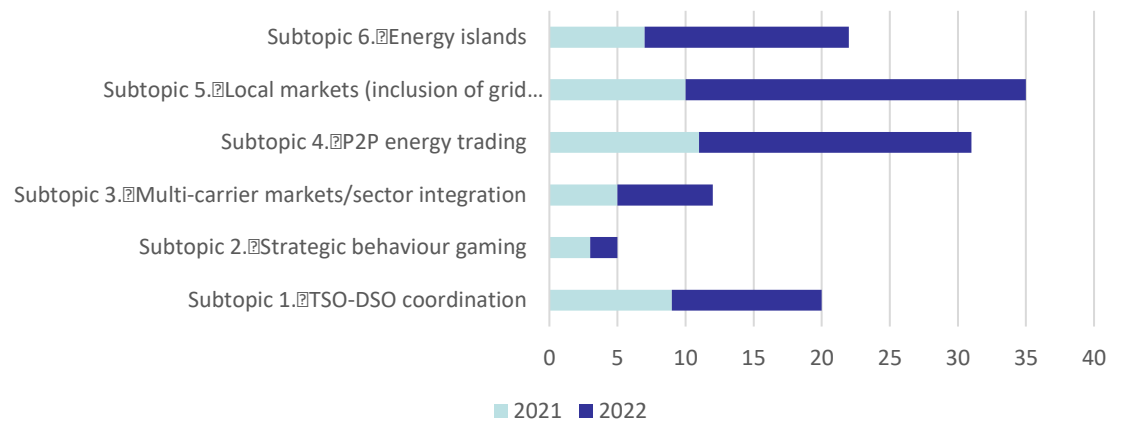
- **EUNIVERSAL**, EU Platone, FLEXITRANSTORE, SENDER, EU-SysFlex, eNeuron, ISLANDER, SYNERGY, Platone, TwinERGY, X-FLEX, Coopérnico / Compile, GIFT, (GOFLEX), (FEVER), CoordiNet, FLEXIGRID, RENERgetic, Ebalanceplus, INSULAE, frESCO, IANOS, OneNet, Interrface (optional also available to work on Phoenix, Interconnect), DELTA, Towards Intelligent DC-based hybrid Grids Optimizing the network performance, iFLEX - Intelligent Assistants for Flexibility Management, FlexPlan.

The leader of the topic will be **EUNIVERSAL**.

Table 3 Results ion TRACK3 survey



### Track 4 - Coordinated flexibility markets for system services.



The subtopic that has raised more interest in 2021 refers to the analysis on **P2P energy trading**. However, considering both 2021 and 2022, the most supported topics would be **Local markets**. Therefore, it is proposed to address both subtopics as a joint action that could be continued in 2022. Subtopic 3 could also be considered within this joint action.

Projects that will participate in the topic are:

- VPP4ISLANDS, EU Platone, FLEXITRANSTORE, X-Flex, eNeuron, ReDREAM, eNeuron, TwinERGY, TRINITY, X-FLEX, BD4OPEM H2020, Coopérnico / Compile, Interconnect, GIFT, (GOFLEX), (FEVER), CoordiNet, CREATORS, RENergetic, RENAISSANCE, fresco, OneNet. Interface (optional also available to work on Phoenix, Interconnect), DELTA , PARITY, INTERRFACE, IANOS, NESOI, EU-SysFlex, ISLANDER, SYNERGY, FLEXGRID, TwinERGY, MERLON, iElectrix, FLEXIGRID, CREATORS, **Ebalanceplus**, TIGON.

The leader of the topic will be: **Ebalanceplus**

Table 4 Results ion TRACK4 survey



## 1.3.2 Final work plan 2021

During the kick-off meeting for 2021, organized on the 16<sup>th</sup> of June 2021, the initial work plan was presented and discussed with the participating projects. Based on the discussion, small modifications were made to the initial plan. The final plan is presented in the figure below.

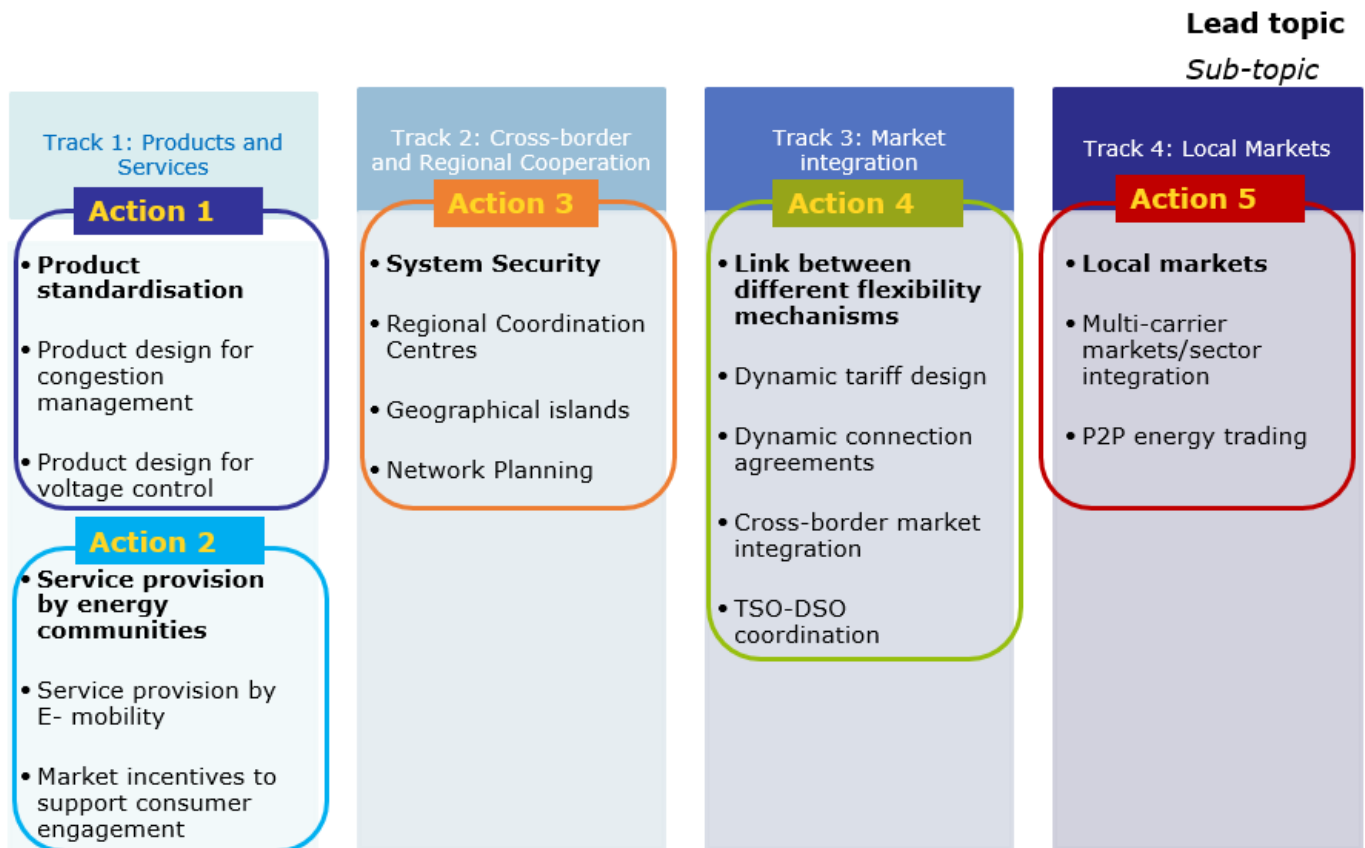


Figure 1 Final work plan 2021

Changes compared to the draft work plan are the following:

- Action 2: The topic 'Market incentives to support consumer engagement' has been moved from track 3 to track 1
- Action 3: the topic of 'geographical islands' has been added to the work plan
- Track 3: Changed the title of track 3 from 'flexibility mechanisms' to 'market integration'
- Track 3/Action 4: topics of 'cross-border integration' and 'TSO-DSO coordination' have been added to the work plan. To note that:
  - The topic 'cross-border integration' moved from track 2 to track 3
  - The topic 'TSO-DSO-coordination' moved from track 4 to track 3
- Track 4: Changed the title of track 4 from 'Coordinated flexibility markets for system services' to 'Local markets'

Topics not considered for 2021: Pricing of system services, strategic behaviour and energy islands. For these topics, it will be evaluated at the start of 2022 if they should be included or not (in addition to possible new topics).



### 1.3.3 Dynamic Knowledge Sharing

Structuring all the activities within the Regulation WG exclusively around the production of reports is a limitation that needs to be corrected. On the one hand, the production of reports is limited by two important factors: the deadline, working on a yearly basis when in most cases the topic to be addressed requires more time; and the availability of projects to contribute in time and manner to the specific topic being addressed each year. In other words, the timing of the project when it comes to the production of valuable information to the Regulation WG, does not always follow the needs of reporting in BRIDGE.

On the other hand, collaboration among projects can go beyond the fulfilment of a set of questionnaires to later analyse in common the different aspects of a relevant topic.

Within BRIDGE, projects that are closely related should naturally share their progress to trigger synergies leading to enhance results and shorter development periods.

- PROJECTS FROM SAME CALL ARE NOT COMPETING ANYMORE
- “OUR PROJECT” IS NOT THE ONLY ONE THAT CAN DO IT RIGHT
- IT IS NOT A QUESTION OF FULFILLING A CONTRACTUAL OBLIGATION
- RESULTS OF A PROJECT CAN BE THE INPUTS TO A NEW PROJECT
- NO NEED TO START FROM SCRATCH
- WE ARE NOT ALONE

Table 5 Main motivation presented at last BRIDGE GA

Not only projects from the same H2020 call share objectives and timing. In most cases, there is a continuation of action between calls, with different projects participating on each of them, but sharing a common background and strategic goal.

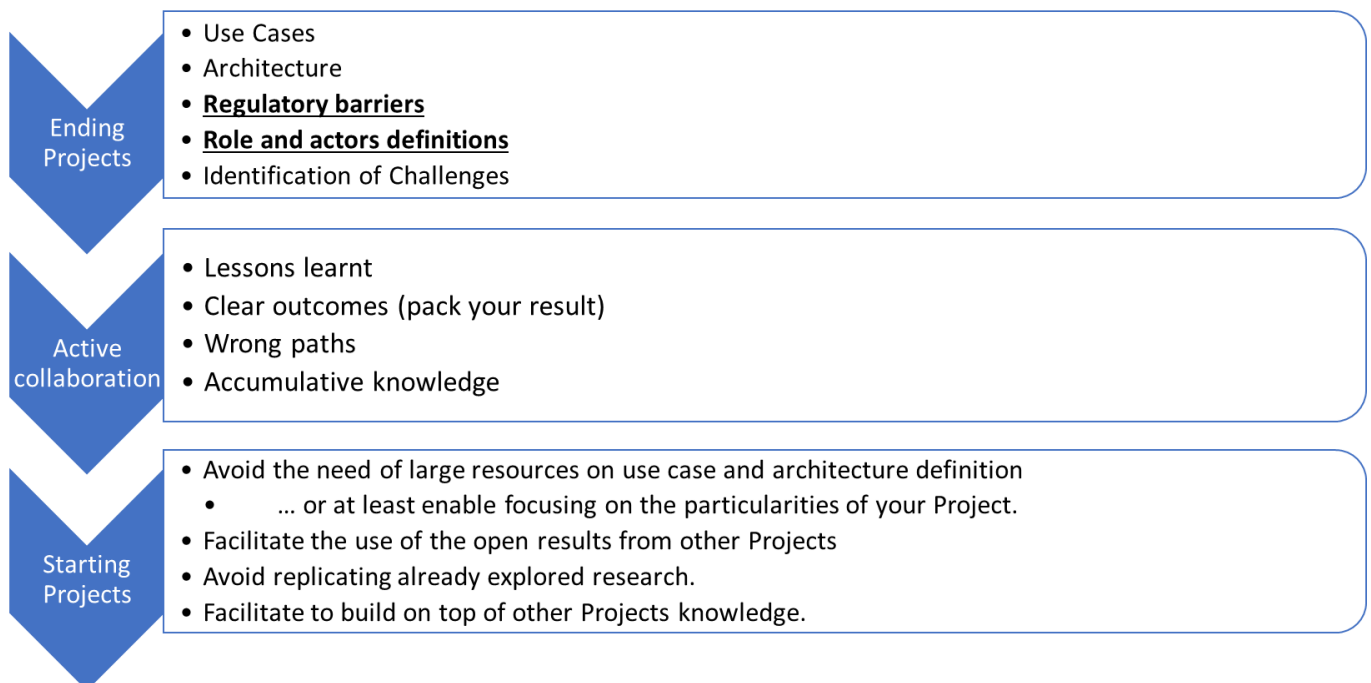


Figure 2 Identified opportunities to share knowledge

To facilitate the dynamic sharing of knowledge among related projects, in 2021 a new mechanism to organise specific short workshops will be proposed. The idea is that based on the topics identified in the different tracks depicted in previous sections, projects should be able to propose specific sessions to share small pills of knowledge. Obviously, this mechanism is not only relevant for Regulation aspects, but could actually be used to share any kind of lesson learnt. In this way, new projects joining BRIDGE would have a clear and direct relationship with



fellow projects addressing similar issues, avoiding the allocation of large amount of resources to activities that most probably have already been covered by previous efforts.

On a regular basis a knowledge sharing session will be organised. Two different types of workshops will be organised: workshops tackling some of the topics on the identified tracks; or workshops organised on the fly to cover the needs of a specific project or group of projects.

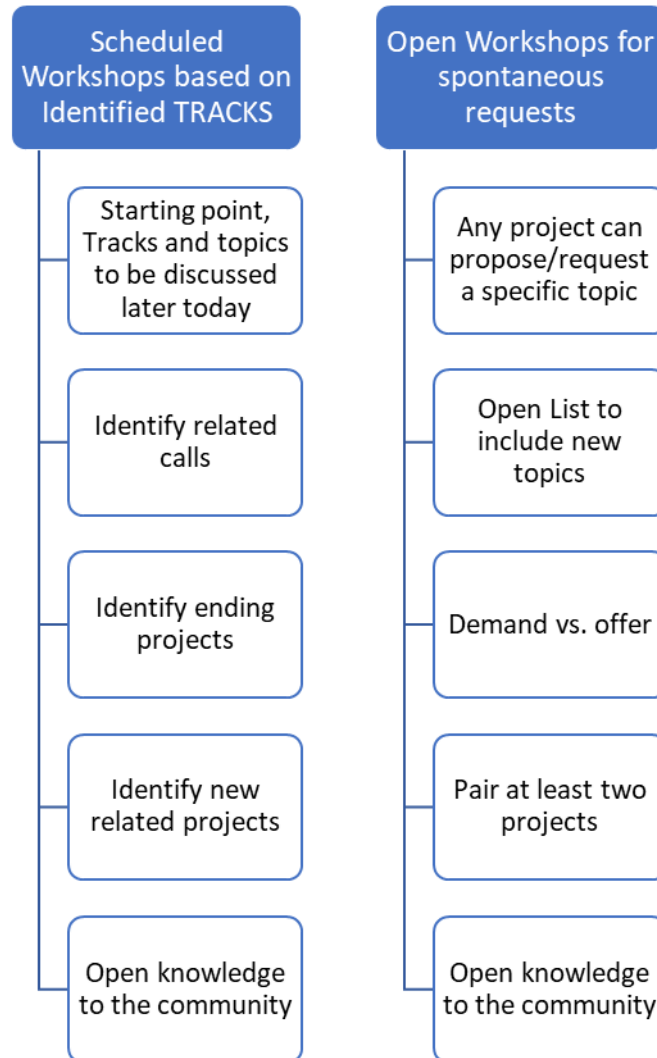


Figure 3 Workshops to facilitate Dynamic Knowledge Sharing.

For the first group of workshops, based on the prioritised topics in each track, a specific workshop will be organised by the more mature projects to facilitate the continuation of activities to the newer projects.

For the second group of workshops, an e-mail address will be established to receive the spontaneous requests of topics to be treated by projects. In this e-mail address both projects “demanding” and “offering” knowledge will be able to propose new ideas for workshops. At least, two projects matching the demand-offer will be needed to schedule this type of workshop.

## 1.4 Outcomes

The Regulation WG is proposing two different type of outcomes for 2021:

- The workshops resulting of the Dynamic Knowledge Sharing mechanism. The sessions will be recorded and open access to the presentations, at least to the BRIDGE community, will be provided.



- A specific report summarising the work performed in each of the tracks.

## 1.5 Planning

The planning below is a common planning for the different actions from the Regulation working group. To note that, based on the individual actions and the discussions with the projects participating to an action, more detailed steps will be taken (surveys, workshops,...).

TASK ID	TASK	START	END	RESPONSIBLE
1	<b>Regulation WG Kick-off Meeting</b>	16/06/21	16/06/21	WG Chair and action leaders
	<b>Research Tracks/actions</b>			
2	Refinement of Work Plan - discussion with WG Chairs.	30/06/21	30/06/21	WG Chairs and action leaders
3	Update Work Plan (kick-off, main activities)	1/07/21	31/07/21	action leaders
4	<b>Kick-off meeting individual actions</b>	31/07/21	15/09/21	action leaders
5	First round of work per action (input collection best practices)	15/09/21	31/10/21	action leaders
6	<b>Intermediate cross-track checkpoint Meeting</b>	1/10/21	1/10/21	WG Chairs and action leaders
7	One day workshop with all actions – presentation of first results + discussions (TBC)	15/10/21	31/10/21	WG Chairs
8	Second round of Work per action (draft recommendations)	31/10/21	15/12/21	action leaders
9	Preparation of formal outcome as single report	15/12/21	31/01/22	WG Chair and topic leaders
10	Finalisation of Regulation WG report	28/02/22	28/02/22	WG Chairs
11	<b>Meeting with the EC to present report</b>	TBC	TBC	WG Chair and EC
12	<b>GA 2022</b>	TBC	TBC	WG Chair and EC
	<b>Dynamic Knowledge Sharing</b>			
1	Establishment of Infrastructure (e-mail address)	15/06/21	15/06/21	WG Chairs and Secretariat
2	Publication of webinar slots	15/06/21	31/07/21	WG Chairs and Secretariat
3	Webinar TRACK01	September	September	WG Chairs and Secretariat
4	Webinar TRACK02	October	October	WG Chairs and Secretariat
5	Webinar TRACK03	November	November	WG Chairs and Secretariat
6	Webinar TRACK04	December	December	WG Chairs and Secretariat
7	Open Workshops	Up on request	Up on request	

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