



# First Report on collaboration with other initiatives including BRIDGE

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Deliverable 9.11 (v01)

WP9. Dissemination and communication activities

## **Responsible Partner**

RINA-C

## **Authors**

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# Technical references

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Fabiola Roccatagliata (RINA-C)	Mark Thompson (ICONS)



# Disclaimer of Warranties

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# Executive Summary

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The present report constitutes Deliverable D9.11 "*FIRST Report on collaboration with other initiatives including BRIDGE*", developed within WP9 of TIGON.

It maps the initiatives (for example BRIDGE) / collaborations with other projects that TIGON has had up to the date of submission of the deliverable. Two updates will follow as separate deliverables: at month 32, within D9.12 "Mid-term Report on collaboration with other initiatives including BRIDGE" - second draft and at month 48 within D9.13 "Final Report on collaboration with other initiatives including BRIDGE" - final version).



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# List of acronyms, figures and tables

## Abbreviations and acronyms

AC	Alternate Current
BM	Business Model
CCE	Consumer and Citizen Engagement
<i>CIRCE</i>	<i>FUNDACION CIRCE CENTRO DEINVESTIGACION DE RECURSOS YCONSUMOS ENERGETICOS</i>
DC	Direct Current
DM	Data Management
GA	General Assembly
<i>ICONS</i>	<i>Fondazione ICONS</i>
KoM	Kick of Meeting
<i>RINA-C</i>	<i>RINA Consulting S.p.A.</i>
SEERC	South-East European Regional Council
WG	Working Group

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# 1. Introduction

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This report - *Deliverable 9.11 “First Report on collaboration with other initiatives including BRIDGE”* - is a public document produced in the framework of the TIGON project. It relates to work conducted under WP9 “Dissemination and communication activities”, and more specifically under Task 9.4 “Interaction and exploitation of synergies with BRIDGE and other projects/initiatives”, led by RINA-C. In this Section, the aim of both the TIGON project and this deliverable are sequentially presented in Sections 1.1. and 1.2, respectively. Subsequently, in Section 1.3, the purpose of BRIDGE has been described.

## 1.1. TIGON Project Background

DC grids attractiveness has been increased in the last years due to the high proliferation of renewable energy sources together with the increase in DC loads (electronics, LED lighting, electric vehicles, energy storage, etc.). The main drivers behind this paradigm shift are related to the improved efficiency, flexibility, security, and reliability DC grids may provide, thus increasing the sustainability of the energy distribution system. However, there is a need for demonstration of DC technologies and grid topologies so that these solutions are able to evolve from a promising solution for the future smart grids to a commercially available technological option.

In this context, TIGON aims to achieve a smooth deployment and integration of intelligent DC-based grid architectures within the current energy system while providing ancillary services to the main network. To do so, TIGON proposes a four-level approach aiming at improving 1) Reliability, 2) Resilience 3) Performance, and 4) Cost Efficiency of hybrid grids through the development of an innovative portfolio of power electronic solutions and software systems and tools focused on the efficient monitoring, control and management of DC grids. These solutions will be demonstrated in two main Demo-Sites located in France and Spain, while additional use cases in the residential and urban railway sectors will act as niche markets for analysing and further solidifying the replication of TIGON developments after the project’s end.

TIGON has involved for this purpose a multidisciplinary team of 15 partners from 8 different European Member States with a well-balanced consortium integrated by 7 non-profit entities and 7 companies. This partnership provides the required expertise from fields such as power electronics, cybersecurity, standardisation, etc. to design the solutions proposed within TIGON as well as the industrial capabilities required for the manufacturing, integration, and validation of the whole TIGON concept.

## 1.2. WP9 and aims of this Deliverable

The main objective of WP9 – *Dissemination and communication activities* is to define and implement communication and dissemination activities to be carried out throughout (and after) the project to ensure that TIGON results will effectively benefit the European energy sector.



Specific objectives of the WP9 can be summarised as follow:

- To establish the internal procedures to disseminate the project results to external stakeholders.
- To prepare the visual identity and a set of materials for the promotion of TIGON project.
- To identify and take advantage of synergies with BRIDGE and other initiatives and funding opportunities
- To carry out engagement and interaction activities with key external stakeholders.
- To support with the right dissemination tools and actions the replication and market uptake potential of TIGON

This report (D9.11) is one of the three deliverables under Task 9.4 “Interaction and exploitation of synergies with BRIDGE and other projects/initiatives” started in M1. The aim of this task is to gather all the synergies and interaction that TIGON partner will gather during the project life. In the hope that the COVID situation will improve and that the restrictions will loosen, TIGON will be presented by all partners at most relevant international and national forums, as well as in specific workshops organised on different locations across Europe. This includes at BRIDGE meetings and in its Working Groups.

Thus, this deliverable maps the initiatives (for example BRIDGE) / collaborations with other projects that TIGON has had up to the date of submission of the deliverable. Two updates will follow as separate deliverables: D9.12 (M32) and D9.13 (M48).

This document is enriched with the project’s achievements and thanks to the contributions from all the partners involved in BRIDGE.

### 1.3. Purpose of BRIDGE

BRIDGE is an initiative organised by the European Commission that wants to put in cooperation about 90 projects (58 in progress) in the Smart Grid, Energy Storage, Islands and Digitalisation sectors financed under the Horizon 2020 program over the last 6 years (2014-2020). It aims to promote the exchange of information, experience, knowledge and good practices among its members [1].

BRIDGE aims to provide field experience, feedback and lessons learned from participating projects to help overcome obstacles to effective innovation. It aims to collect coordinated, balanced and coherent recommendations to reinforce messages and maximise their impact on policy makers in order to remove obstacles to the diffusion of innovation.

In April 2021, BRIDGE gathers a total of 88 projects, involving 1009 organisations from 40 countries for a total EC funding to all projects of 846 M€.

## 2. Overview of BRIDGE Working Groups

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The BRIDGE initiative focuses on four different topics that address cross-cutting issues. These topics are dealt with in the respective four Working Groups:





- Data Management Working Group
- Regulation Working Group
- Consumer and Citizen Engagement Working Group
- Business Models Working Group

## 2.1. Data Management Working Group

The *Data Management Working Group* (DM WG) is focused on [1]:

- Communication Infrastructure, embracing the technical and non-technical aspects of the communication infrastructure needed to exchange data and the related requirements
- Cybersecurity and Data Privacy, entailing data integrity, customer privacy and protection
- Data Handling, including the framework for data exchange and related roles and responsibilities, together with the technical issues supporting the exchange of data in a secure and interoperable manner, and the data analytics techniques for data processing.

The Data Management Working Group aims to cover a wide range of aspects ranging from technical means for exchanging and processing data between stakeholders to establishing rules for the exchange, including security issues and the distribution of responsibilities in data processing.

Based on the conclusions of 2021 BRIDGE General Assembly, the WG is willing to address four topics in 2021 [2], reported in Table 1:

Table 1. Final Wok Plan 2021 for Data Management WG

<b>Action 1</b>	Extension and enhancement of the BRIDGE repository
<b>Action 2</b>	EU data exchange reference architecture
<b>Action 3</b>	Interoperability of flexibility assets
<b>Action 4</b>	Contribution from BRIDGE projects to standardisation

## 2.2. Regulation Working Group

The *Regulation Working Group* is focused on regulatory aspects concerning integration and harmonisation aspects of market design [1]:

- Harmonisation at the level of products and services, including the role of energy communities as service provider.
- Cross-border and regional cooperation.
- Integration of market -based and non-market-based flexibility mechanisms.
- Coordinated flexibility markets for system services.

The objective is to identify at least one specific topic within each of the tracks to be addressed. 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 etc.) 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 [3].

During the kick-off meeting for 2021, organised on the 16th 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 1 below [3].

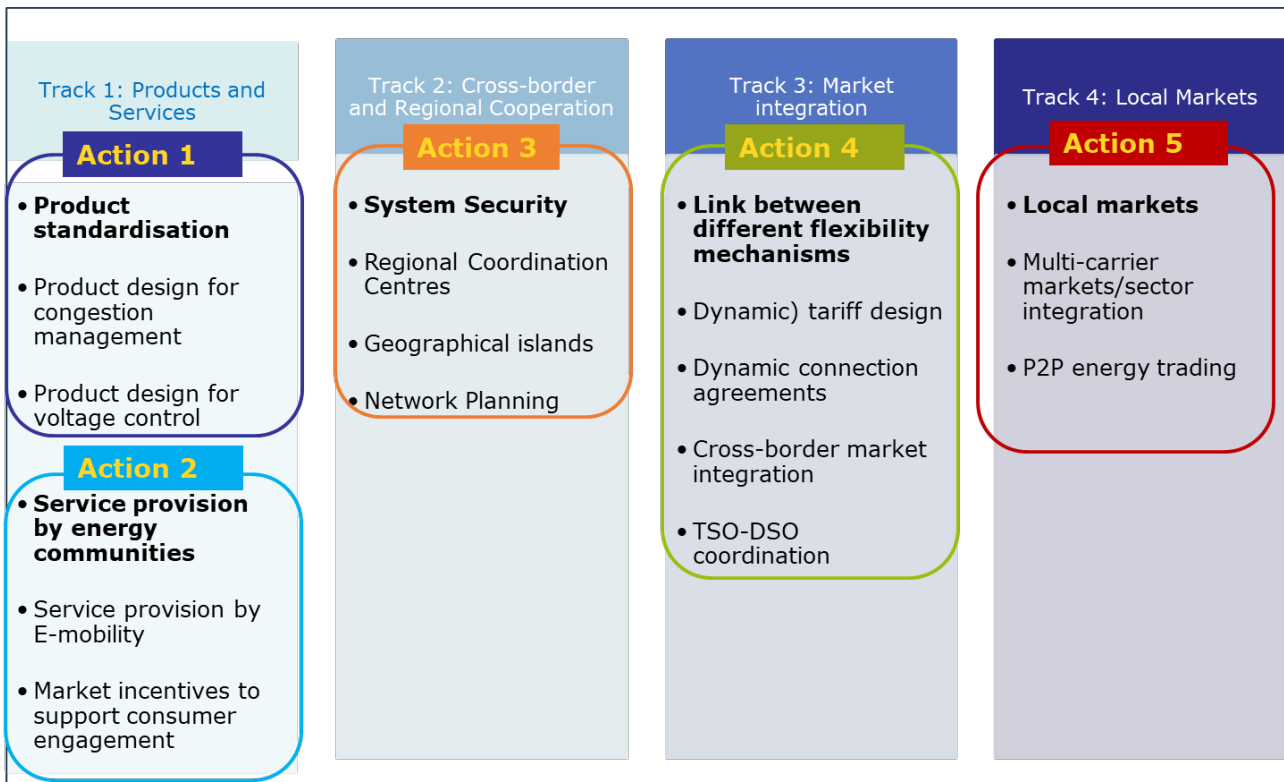


Figure 1. Final Work Plan 2021 for Regulation WG [3]

## 2.3. Consumer and Citizen Engagement Working Group

The *Consumer and Citizen Engagement Working Group* (CCE WG) is focused on [1]:

- Segmenting, analysis of cultural, geographical and social dimensions,
- Value systems - Understanding Consumers
- Drivers for Engagement
- Effectiveness of Engagement Activities
- Identification of what triggers behavioural changes (e.g., via incentives)
- The Regulatory Innovation to Empower Consumers

In 2020/2021, the working group took on a new focus, seeking to support the European research and innovation project with a better understanding of engagement through collective action. The idea



is to move from a single dimension of the customer to a collective dimension of the citizen. The concept of energy citizen encompasses the roles and responsibilities of the relationship between consumers and energy sector actors, in order to build a clean, fair and inclusive European energy system. Therefore, the group focused on understanding, strategizing and organising collective actions of consumers and citizens [4].

During the year 2020-2021, the working group worked on the following topics and reach the conclusions below, summarised in Table 2 [4]:

Table 2. Final Wok Plan 2021 for Consumer & Citizen Engagement WG [4]

Subgroup	Scope	Conclusions (Inform 2021 actions)
<b>Socio economic drivers of engagement</b>	To collect evidence around the incentive strategies implemented by projects to ensure participation and involvement of consumers.	Need to explore the adaptation of engagement strategies per consumer groupings.  Needs to collect more collective animation techniques and their adaptability to online / removed group work.
<b>Group building</b>	To study the ways to mobilise consumers to act collectively and build a consumer group.	Need for more group building effective and efficient methodologies to improve the quality of formation and operation of the consumer group while shortening the time needed.  Need for clear and improved coupling of smart grid with common interest establishing group sustainability.
<b>Governance and organisational models</b>	To explore governance models for collective action groups. This looks at principles that are the base for citizen participation.	Need to explore the transferability of democratic governance principles to the non-cooperative entities.  Need to explore the modalities of scaling of those principles to larger organisations  Need to explore the impact of policy to support the development of democratically governed legal forms, allowing for citizens to engage in more collective actions.
<b>Assessment of engagement</b>	To find a range of indicators and monitoring techniques to understand, monitor and assess the development of collective action groups.	Need to explore more metrics and indicators for the early stages of change, allowing for projects to better understand and assess starting community-based initiatives.
<b>Smart tools</b>	To collect an exhaustive list of tools and technologies supporting consumer participation and the ways those tools are supporting the involvement of consumers.	Need for the exploration of more incentive structures for the tools away from individualistic incentives.  Needs to provide for a better maintenance concept (constant feedback loop) for the smart tools created by projects.  Need for more diversity of user profiles for tools



## 2.4. Business Model Working Group

The *Business Models Working Group* (BM WG) is focused on [1]:

- Defining common language and frameworks around business model description and valuation
- Identifying and evaluating existing and new or innovative business models from the project demonstrations or use cases

The Business Models Working Group has been inactive since mid-2019, as the main activities were completed. Ahead of the BRIDGE GM in March 2021, the BM WG parallel session raised a high interest (75 registered participants), with many of the new BRIDGE projects (22) indicated the need for this specific WG. Therefore, the need of re-activating the BM WG was identified. The key objectives of the BM WG are [5]:

1. Provide an unbiased and reliable information to the European Commission covering the experience of the BRIDGE projects and the projects' partners.
2. Investigate the aspect of Business models in various settings applied to the topics of interest, as chosen by the European Commission.
3. Set up a robust operating structure, able to efficiently organise work of BRIDGE projects' representatives on several topics and produce quality results within the agreed timeframe.

In order to cover and address all the objectives, the Business Model Working Group was divided in three Tasks:

Table 3. Final Wok Plan 2021 for Business Model WG

<b>Task 1</b>	Define the Value Analysis Methodology, covering the relationship of Use Cases, Business Models, Services, Actors, and value chain segments
<b>Task 2</b>	Identify the best practice for monitoring and impact analysis of Use Case demonstrations using standardised Key Performance Indicators.
<b>Task 3</b>	Highlight concrete results from projects and identify good practices and possible barriers to be used in benchmarking (e.g., examples of benefits).

## 3. BRIDGE Activities in TIGON

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### 3.1. Project representatives

The TIGON project joined BRIDGE at the end of 2020 and thus participated in the General Assembly of March 2021.



TIGON is one of the two projects in BRIDGE (together with project HYPERRIDE) which are funded under the topic “LC-SC3-ES-10-2020 - DC – AC/DC hybrid grid for a modular, resilient and high-RES share grid development” [1].

Table 4 shows distribution of TIGON partners for each Working Group along with related tasks.

Table 4. List of the members of TIGON project involved in BRIDGE

Last name	First name	Mail Contact	Organisation	Working Group/role
<b>Bachoumis</b>	<b>Thanasis</b>	<a href="mailto:abachoumis@ubitech.eu">abachoumis@ubitech.eu</a>	UBE	Member of <b>Consumer and Citizen Engagement WG</b> focused of Smart Tools subgroup
<b>Fotopoulou</b>	<b>Maria</b>	<a href="mailto:fotopoulou@certh.gr">fotopoulou@certh.gr</a>	CERTH	Member of <b>Regulation WG</b> focused on the Track 1: Products and Services - Action 1: Product standardisation
<b>Lanero Martinez</b>	<b>Montserrat</b>	<a href="mailto:mlanero@fcirce.es">mlanero@fcirce.es</a>	CIRCE	Member of <b>Consumer and Citizen Engagement WG</b> focused of Strategies of Engagement and Group Building subgroup
<b>Muñoz-Cruzado Alba</b>	<b>Jesus</b>	<a href="mailto:jmunoz@fcirce.es">jmunoz@fcirce.es</a>	CIRCE	Member of <b>Data Management WG</b>
<b>Rakopoulos</b>	<b>Dimitrios</b>	<a href="mailto:rakopoulos@certh.gr">rakopoulos@certh.gr</a>	CERTH	Member of <b>Regulation WG</b> focused on the Track 1: Products and Services - Action 1: Product standardisation
<b>Roccatagliata</b>	<b>Fabiola</b>	<a href="mailto:fabiola.roccatagliata@rina.org">fabiola.roccatagliata@rina.org</a>	RINA-C	Member of <b>Regulation WG</b> focused on the Track 4: Local Markets - Action 5: Local markets and Member of Business Model WG focused on the Task 1
<b>Stergiopoulos</b>	<b>Fotis</b>	<a href="mailto:foster@certh.gr">foster@certh.gr</a>	CERTH	Member of <b>Regulation WG</b> focused on the Track 2: Cross-border and Regional Cooperation - Action 3: System Security
<b>Sugrañes Andivia</b>	<b>Eduardo</b>	<a href="mailto:esugranes@fcirce.es">esugranes@fcirce.es</a>	CIRCE	Member of <b>Business Model WG</b> focused on the Task 2
<b>Syrimpeis</b>	<b>Yannis</b>	<a href="mailto:y.syrimpeis@hypertech.gr">y.syrimpeis@hypertech.gr</a>	HYPERTECH	Member of <b>Data Management WG</b>
<b>Thompson</b>	<b>Mark</b>	<a href="mailto:mark.thompson@icons.it">mark.thompson@icons.it</a>	ICONS	Member of <b>Consumer and Citizen Engagement WG</b> focused of Drivers and indicators of engagement subgroup



### 3.2. BRIDGE meetings attended by TIGON representatives

During TIGON's first year in BRIDGE, the partners took part in various meetings organized in the different WGs. Table 5 shows all the meetings TIGON members attended, both the meetings already included in RP1 and those attended since February 2022.

Table 5. Working Groups and General Meetings in which TIGON project has had representation (from March 2021 to February 2022)

Meeting	Attendees			Date
	Last name	First name	Organisation	
BRIDGE GA	Lanero	Montserrat	CIRCE	2-3-4 March 2021
	Muñoz-Cruzado Alba	Jesus	CIRCE	
	Stergiopoulos	Fotis	CERTH	
	Rakopoulos	Dimitrios	CERTH	
	Bachoumis	Thanasis	UBE	
	Syrimpeis	Yannis	HYPERTECH	
	Roccatagliata	Fabiola	RINA-C	
	Thompson	Mark	ICONS	
BRIDGE Consumer and Citizen Engagement Working Group   2021 Kick off meeting	Sanchez	Breogan	CIRCE	15 April 2021 - 10:00-12:00
	Bachoumis	Thanasis	UBE	
	Thompson	Mark	ICONS	
BRIDGE CCE WG   Subgroup drivers and indicators kick off meeting	Thompson	Mark	ICONS	19 May 2021 - 16:00
BRIDGE CCE WG   Strategies of Engagement (Group Building) Subgroup kick off meeting	Sanchez	Breogan	CIRCE	09 June 2021 - 10:00
BRIDGE CCE WG   Subgroup drivers and indicators   mini cluster: types and groups of stakeholder and drivers to engage	Thompson	Mark	ICONS	14 June 2021 - 11:00
BRIDGE - REGULATION WG Kick Off Meeting 2021	Rakopoulos	Dimitrios	CERTH	16 June 2021 - 9:00-11:00
	Fotopoulou	Maria	CERTH	
Consumer and Citizen Engagement Working Group Meeting   Period 1	Sanchez	Breogan	CIRCE	24 June 2021 - 10:00
	Thompson	Mark	ICONS	
BRIDGE Joint Communication Task Force Meeting	Roccatagliata	Fabiola	RINA-C	29 June 2021 - 12:00-13:00
BRIDGE CCE WG   Strategies of Engagement (Group Building) Subgroup follow up meeting	Sanchez	Breogan	CIRCE	15 July 2021 - 10:00
BRIDGE CCE WG   SMART TOOLS Subgroup Update Meeting	Bachoumis	Thanasis	UBE	7 September 2021- 15:00



Meeting	Attendees			Date
	Last name	First name	Organisation	
BRIDGE CCE WG Strategies of Engagement SG meeting	<b>Sanchez</b>	<b>Breogan</b>	CIRCE	15 September 2021 - 10:00
Consumer and Citizen Engagement Working Group Meeting   Period 2	<b>Sanchez</b>	<b>Breogan</b>	CIRCE	15 September 2021 - 10:00- 11:00
Consumer and Citizen Engagement Working Group Meeting   Period 2	<b>Sanchez</b>	<b>Breogan</b>	CIRCE	21 September 2021 - 10:00 - 11:00
	<b>Bachoumis</b>	<b>Thanasis</b>	UBE	
	<b>Thompson</b>	<b>Mark</b>	ICONS	
BRIDGE - WG Regulation - Track 4 Meeting	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	21 September 2021 - 15:00- 16:00
	<b>Rakopoulos</b>	<b>Dimitrios</b>	CERTH	
	<b>Fotopoulou</b>	<b>Maria</b>	CERTH	
KoM: BRIDGE WG Regulation - Action 2	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	22 September 2021 - 16:00- 17:00
	<b>Rakopoulos</b>	<b>Dimitrios</b>	CERTH	
	<b>Fotopoulou</b>	<b>Maria</b>	CERTH	
BRIDGE Regulatory WG - Action 1	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	23 September 2021 - 15:00- 16:00
	<b>Rakopoulos</b>	<b>Dimitrios</b>	CERTH	
	<b>Fotopoulou</b>	<b>Maria</b>	CERTH	
BRIDGE - Business Models WG Kick Off Meeting	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	27 September 2021 - 11:00- 13:00
KOM BRIDGE Regulatory WG-Track 3: market integration- Action 4: link between different flexibility mechanisms	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	28 September 2021 - 14:00- 15:00
BRIDGE WG Regulation - Action 3 KoM	<b>Stergiopoulos</b>	<b>Fotis</b>	CERTH	5 October 2021 - 11:00-12:00
BRIDGE CCE WG   SMART TOOLS SG Meeting October 2021	<b>Bachoumis</b>	<b>Thanasis</b>	UBE	7 October 2021 - 10:00-11:00
CCE WP   Subgroup drivers & indicators of engagement   focus cluster: types & groups of stakeholder and drivers to engage	<b>Thompson</b>	<b>Mark</b>	ICONS	7 October 2021 - 11:00-12:00
BRIDGE DATA MANAGEMENT WG meeting	<b>Syrimpeis</b>	<b>Yannis</b>	HYPERTECH	13 October 2021 - 13:00-17:00
CCE WP   Subgroup drivers & indicators of engagement	<b>Thompson</b>	<b>Mark</b>	ICONS	13 October 2021 - 16:00-17:00
BRIDGE BM WG - Task 3 KOM 15/10	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	15 October 2021 - 14:00-15:00
BRIDGE CCE WG Strategies of Engagement SG meeting	<b>Sanchez</b>	<b>Breogan</b>	CIRCE	21 October 2021 - 10:00 - 11:00
BRIDGE BM WG - Task 3 Bi-weekly meetings	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	26 October 2021 - 10:00-11:00
BRIDGE BM Working Group Track 1 meeting	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	3 November 2021 - 13:00-14:00





Meeting	Attendees			Date
	Last name	First name	Organisation	
CCE WP   Subgroup drivers & indicators   focus cluster: types & groups of stakeholder and drivers to engage	<b>Thompson</b>	<b>Mark</b>	ICONS	15 November 2021 - 12:00-13:00
CCE WP   Subgroup drivers & indicators of engagement	<b>Thompson</b>	<b>Mark</b>	ICONS	16 November 2021 - 16:00-17:00
BRIDGE BM WG - Task 3 Bi-weekly meetings	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	23 November 2021 - 10:00-11:00
Action-5 Meeting [Bridge WG Regulation]	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	2 December 2021 - 15:00-16:00
CCE WP   Subgroup drivers & indicators of engagement	<b>Thompson</b>	<b>Mark</b>	ICONS	7 December 2021 - 14:00-15:00
BRIDGE BM WG - Task 3 Bi-weekly meetings	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	21 December 2021 - 10:00-11:00
CCE WP   Subgroup drivers & indicators   focus cluster: types & groups of stakeholder and drivers to engage	<b>Thompson</b>	<b>Mark</b>	ICONS	11 January 2022 - 12:00-13:00
BRIDGE BM WG Task 1	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	14 January 2022 - 11:00-12:00
BRIDGE BM WG - Task 3 meeting 18.01.2022	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	18 January 2022 - 10:00-11:00
CCE WP   Subgroup drivers & indicators of engagement	<b>Thompson</b>	<b>Mark</b>	ICONS	21 January 2022 - 11:00-12:00
BRIDGE DATA MANAGEMENT WG meeting	<b>Syrimpeis</b>	<b>Yannis</b>	HYPERTECH	26 January 2022 - 13:00-17:00
	<b>Lanero</b>	<b>Montserrat</b>	CIRCE	
Bridge Regulation WG Action 5 workshop entitled "Dynamic Knowledge Sharing on Local Markets implementation"	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	26 January 2022 - 15:30-17:00
BRIDGE BM WG - Task 3 meeting 08.02.2022	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	8 February 2022 - 10:00-11:00
BRIDGE BM WG Task 1 Meeting	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	11 February 2022 - 10:00-11:00
BRIDGE - BM WG - Task 2 meeting	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	14 February 2022 - 10:00-11:30
Action-2 Workshop 'Energy Communities in the EU' [Bridge, WG Regulation]	<b>Roccatagliata</b>	<b>Fabiola</b>	RINA-C	17 February 2022 - 12:00-14:00





### 3.3. Contributions to BRIDGE

TIGON partners have contributed regularly to BRIDGE meetings across all Working Groups. Table 6 provides details:

Table 6. TIGON actions to contribute to BRIDGE

<b>Report/Action</b>	<b>BRIDGE Brochure by 22/02/2021</b>
<b>WG</b>	<b>BRIDGE GA</b>
<b>Project Participants</b>	<b>CIRCE, RINA-C</b>
RINA-C and CIRCE filled in the BRIDGE Brochure template (word and excel files) provided from BRIDGE to be part of the next 2021 update of the brochure, which will be released during Q2 2021. They prepared 2 pages per TIGON project, as requested.	
<b>Report/Action</b>	<b>Questionnaire by Friday, 23 April</b>
<b>WG</b>	<b>Regulation WG</b>
<b>Project Participants</b>	<b>CERTH</b>
Both Fotis and Dimitrios from CERTH have filled out this questionnaire on 20 April 2021.	
<b>Report/Action</b>	<b>Contribute to the BRIDGE Newsletter by 24th May 2021.</b>
<b>WG</b>	<b>BRIDGE JOINT COMMUNICATION</b>
<b>Project Participants</b>	<b>CIRCE, RINA-C, ICONS</b>
CIRCE, supported by RINA-C and ICONS, prepared 1 page contribution for the next BRIDGE Newsletter. They briefly described the aim of the TIGON project and how TIGON's solutions will be applied and tested at two demo sites (CEDER-CIEMAT in Spain and INES-CEA in France), promoting replicability and market penetration in two real-world settings (the metro system in Sofia, Bulgaria, and a residential neighbourhood in Naantali, Finland). TIGON has not been included in the BRIDGE newsletter!	
<b>Report/Action</b>	<b>Discussions on BRIDGE-wide survey and in-depth interviews on user types and drivers of engagement</b>
<b>WG</b>	<b>Consumer and Citizen Engagement WG</b>
<b>Project Participants</b>	<b>ICONS</b>
Mark from ICONS participates in focus cluster "types of user & groups of stakeholder and drivers to engage.	
<b>Report/Action</b>	<b>the BRIDGE Data Management WG - Actions for 2021 Survey</b>
<b>WG</b>	<b>Data Management WG</b>
<b>Project Participants</b>	<b>HYPERTECH</b>
Yannis from HYPERTECH have filled out this questionnaire on May 26, 2021. <b>Action 1: BRIDGE repository</b> For the "BRIDGE Repository" action, will your project contribute as an "active contributor" or as a "minimal contributor"? * Minimal Active Contributor, joining "Action 1 subgroup" <b>Action 2: EU Data Exchange Architecture</b> For the "EU Data exchange Architecture" action, will your project contribute as an "active contributor" or as a "minimal contributor"? *Minimal Active Contributor, joining "Action 2 subgroup" <b>Action 3: Interoperability of flexibility assets</b> For the "Interoperability of flexibility assets" action, will your project contribute as an "active contributor" or as a "minimal contributor"? *Minimal Active Contributor, joining "Action 3 subgroup" <b>Action 4: Contribution from BRIDGE projects to standardisation</b> For the "Contribution from BRIDGE projects to standardisation" action, will your project contribute as an "active contributor" or as a "minimal contributor"? *Minimal	



Active Contributor, joining "Action 4 subgroup"	
<b>Report/Action</b>	<b>Questionnaire by Wednesday, 14 July</b>
<b>WG</b>	<b>BRIDGE Business Models WG Launch</b>
<b>Project Participants</b>	<b>RINA-C</b>
Fabiola from RINA-C has filled out this questionnaire on 14 July 2021.	
<b>Report/Action</b>	<b>Questionnaire for DM WG members by Thursday, 15 July</b>
<b>WG</b>	<b>Data Management WG</b>
<b>Project Participants</b>	<b>CIRCE, HYPERTECH</b>
Yannis from HYPERTECH and Jesus from CIRCE have filled out this questionnaire on July 15, 2021.	
<b>Report/Action</b>	<b>Contribute to the BRIDGE Newsletter by 30/09/2021</b>
<b>WG</b>	<b>BRIDGE JOINT COMMUNICATION</b>
<b>Project Participants</b>	<b>CIRCE, RINA-C, ICONS</b>
CIRCE, supported by RINA-C and ICONS, prepared 1 page contribution for the next BRIDGE Newsletter. They briefly described the aim of the TIGON project and how TIGON's solutions will be applied and tested at two demo sites (CEDER-CIEMAT in Spain and INES-CEA in France), promoting replicability and market penetration in two real-world settings (the metro system in Sofia, Bulgaria, and a residential neighbourhood in Naantali, Finland). TIGON has been included in the BRIDGE newsletter!	
<b>Report/Action</b>	<b>Track4_Action5_LM_QUESTIONNAIRE by 20th October</b>
<b>WG</b>	<b>Regulation WG - Task 5, Action 5</b>
<b>Project Participants</b>	<b>RINA-C, CIRCE</b>
CIRCE provided the answers to the questionnaire prepared by the Task Leader on the Local Market. The questionnaire asked:	
<ol style="list-style-type: none"> <li>1) Regulatory context and LM framework</li> <li>2) Ownership</li> <li>3) Delivery mechanism</li> <li>4) LM size and structure</li> <li>5) Energy services in LM</li> <li>6) Role of LM participants /actors</li> <li>7) LM barriers</li> </ol>	
<b>Report/Action</b>	<b>Project description and contribution to Track4_Action5_Local Market by 20th October</b>
<b>WG</b>	<b>Regulation WG - Task 5, Action 5</b>
<b>Project Participants</b>	<b>RINA-C</b>
Fabiola from RINA-C described in ½ page the TIGON project and how it could contribute to this SG, as required by the Task Leader.	
<b>Report/Action</b>	<b>BRIDGE BM WG - Task 3 Survey questions 26/10/2021 (deadline 29/10/2021)</b>
<b>WG</b>	<b>Business Model WG - Task 3</b>
<b>Project Participants</b>	<b>RINA-C</b>
In preparation for the survey that the Task 3 Leaders want to circulate among the BMWG participants, Fabiola from RINA-C proposed some questions to be included in the survey (as requested by the Task Leaders). The questions proposed were:	
<ol style="list-style-type: none"> <li>1) When you identify and describe the Key Exploitable Results in the proposal, do you organise the info following a draft Characterisation Table (useful for IPR Report, Exploitation Strategy but also for Business Model and Business Model Canvas)?</li> <li>2) How many KERs do you usually consider in your projects?</li> <li>3) How long after the start of the project are you able to confirm all the KERs that the project will have?</li> </ol>	



4) Do you think making progressive reports on Business Model development during the project is useful? For example, a Deliverable on the Business model every 12/18 months of the project.	
<b>Report/Action</b>	<b>BRIDGE WG Regulation - Action 1 Questionnaire (deadline 21/10/2021)</b>
<b>WG</b>	<b>Regulation WG</b>
<b>Project Participants</b>	<b>CERTH</b>
CERTH answered to a questionnaire that included:	
1) Definition of system services and flexibility products	
2) Harmonisation or standardisation of flexibility products	
3) Harmonised/standardised products' attributes	
<b>Report/Action</b>	<b>Bridge-wide survey on user types and drivers of engagement (27 Oct 2021)</b>
<b>WG</b>	<b>Consumer and Citizen Engagement WG</b>
<b>Project Participants</b>	<b>ICONS</b>
Mark from ICONS filled in this questionnaire.	
<b>Report/Action</b>	<b>BRIDGE DERA file</b>
<b>WG</b>	<b>Data Management WG</b>
<b>Project Participants</b>	<b>CIRCE, HYPERTECH</b>
Yannis from HYPERTECH and Jesus from CIRCE have reviewed DERA draft file.	
<b>Report/Action</b>	<b>Use-cases repository template</b>
<b>WG</b>	<b>Data Management WG</b>
<b>Project Participants</b>	<b>CIRCE, HYPERTECH, CERTH, CARTIF</b>
Yannis from HYPERTECH and Jesus from CIRCE have coordinated to fill out a template about TIGON use-cases with the partners of the consortium in charge of defining them.	
<b>Report/Action</b>	<b>BRIDGE WG BM - TASK 1</b>
<b>WG</b>	<b>Business Model WG</b>
<b>Project Participants</b>	<b>RINA-C</b>
Fabiola from RINA-C provided the following inputs by Friday 19 November 2021:	
<ul style="list-style-type: none"> <li>• Check if the cluster your project has been assigned to is OK and let us know otherwise → TIGON is assigned to "Demand response" cluster</li> <li>• Fill in the columns on available information on business models of projects as well as insights on models that were/will be used for the calculation of revenue streams → RINA reported the first TIGON deliverable of Business Model (D8.2) submitted in M12 (August 2021). Key words: Identification of the KERs, development of customised Characterisation Tables, provisional Business Model Canvas for each KER, State of the art for each KER</li> <li>• Fill in the Business Model Canvas as much as possible for the main use case of your project → RINA reported in the template provided by the BMWG Task 1 leader the preliminary Business Model Canvases that were produced and inserted in D8.2.</li> </ul>	
<b>Report/Action</b>	<b>Analysis of Bridge-wide survey on user types and drivers of engagement (3-5 Dec 2021)</b>
<b>WG</b>	<b>Consumer and Citizen Engagement WG</b>
<b>Project Participants</b>	<b>ICONS</b>
Mark from ICONS analysed 3 open answers (from 29 projects) from the Bridge-wide survey on user types and drivers of engagement. This analysis will contribute to a broader analysis of the survey.	
<b>Report/Action</b>	<b>Connection between TIGON and Track 2 (system security, network planning)</b>
<b>WG</b>	<b>Regulation WG</b>
<b>Project Participants</b>	<b>CERTH</b>
CERTH answered to a questionnaire that included:	
1) Short description of the project	



2) Connection between the project and system security	
3) Connection between the project and network planning	
<b>Report/Action</b>	<b>BRIDGE Business Models WG - Questionnaire</b>
<b>WG</b>	<b>Business Model WG</b>
<b>Project Participants</b>	<b>RINA-C</b>
Fabiola from RINA-C filled in the survey.	

## 4. Lessons learnt from BRIDGE

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In this first year of activity, some of the partners involved have already been able to see some lessons learnt, thanks to the cooperation that has taken place.

In particular, reference is made to the Consumer and Citizen Engagement WG and the Drivers and Indicators of Engagement subgroup, where they focused on the “Types of user and drivers to engage” cluster. The main objective was to develop the survey and then to analyse some of the results.

Most of the work so far has been to develop the survey. More recently, the analysis of project responses is providing useful insights:

- Clearer information on the types of users / consumers in the energy markets. Five main user groups each with a different set of users. This can now be crossed with D9.9 (stakeholder mapping) and will help update the C&D plan.
- A clearer idea of the drivers to engage such users. The analysis of the survey on 29 Projects and some project interviews are currently being processed (January-February 22) in the focus cluster. The results will be present in the planned BRIDGE product. This will be useful for TIGON in updating the C&D plan and can be crossed with the next exploitation strategy.

More generally, the work and results of the entire Drivers and Engagement Indicators subgroup should feed TIGON's communication-dissemination-exploitation strategies.

As leader of this deliverable, RINA-C aims for at least one lesson learnt for each WG in the other related deliverables (D9.12 and D9.13). This will be achieved by ongoing participation by project partners and by applying the recommendations in the BRIDGE deliverables currently being developed.

## 5. Synergies with other BRIDGE projects

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During this reporting period, it has been difficult to organise activities or participate in events due to COVID restrictions. This has meant synergies and networking have been somewhat curtailed.



However, TIGON has been able to cluster with a fellow project – [HYPERRIDE](https://hyperride.eu/)<sup>1</sup>. As part of their collaboration and common public positioning strategy, the projects have produced a joint publication on resilient AC-DC grids from a European perspective for CIGRE South-East European Regional Council (SEERC 2021). The collaboration will continue, with plans being made for a joint event/webinar in the coming months.

Thanks to the reduction of COVID infections in Italy, TIGON was able to participate in the ENLIT Networking event in Milan in December 2021. Through this event, there was the possibility of networking with other H2020 projects in the "EU Projects Zone". TIGON did not have a dedicated booth, but Fabiola Roccatagliata from RINA-C met with different projects such as MUSE GRIDS, MERLON, NESOI and others. Many of the projects present at the fair were already at an advanced stage of activity and it was interesting to hear the actions they are taking to get to the result. Despite the restrictions due to COVID-19, it was especially valuable to have informal meetings and discussions on the sidelines.



Figure 2. ENLIT Event in Milan (December 2021)

## 6. Conclusions

This document is the first deliverable of the TIGON project relating to the collaboration with other initiatives including BRIDGE. It is part of a series of three deliverables on this subject, “D9.11 - *First Report on collaboration with other initiatives including BRIDGE*”, this document, “D9.12 – *Mid-Term Report on collaboration with other initiatives including BRIDGE*”, and “D9.13 – *Final Report on collaboration with other initiatives including BRIDGE*”.

<sup>1</sup> <https://hyperride.eu/>



COVID has marked this first reporting period and had led to fewer opportunities to establish contacts and to network. Indeed, the project consortium itself has never met physically.

However, TIGON has been able to cluster with fellow project HYPERRIDE and has participated in BRIDGE.

The general aim today is to establish synergies with other similar projects, to organise joint events, to leverage the emerging BRIDGE deliverables and to continue contributing to BRIDGE via its various WGs.

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