**D3.3 EXPERIMENT CATALOGUE DATABASE**

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<thead>
<tr>
<th>Work package</th>
<th>WP3 NGI Experiments</th>
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<tr>
<td>Task</td>
<td>T3.2 Technical supervision of experiments and demonstrators</td>
</tr>
<tr>
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<td>16/12/2020</td>
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<td>Version</td>
<td>1.0</td>
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<tr>
<td>Authors</td>
<td>Sara Pittonet, Patricia Nugent, Ruben Tognetti,(Trust-IT)</td>
</tr>
<tr>
<td>Reviewers</td>
<td>James Clarke (WIT), Halid Hrasnica (Eurescom)</td>
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**Abstract**
An online searchable tool to track the progress of the running experiments. The catalogue will be public and searchable with a number of filter factors including, TRL result, technology area, geographic location, relevant vertical sectors.

**Keywords**
Open Call, NGI, Experiments, Catalogue

**Disclaimer**
This public deliverable is considered in “DRAFT” format until it is independently reviewed by project reviewers.

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EXECUTIVE SUMMARY

The NGIatlantic.eu catalogue of experiments is a live tool that will be maintained throughout the entire project; it is a live searchable database to be updated periodically following up on the outcomes of the open calls. Every funded experiment will have an entry in the catalogue that will be firstly published at the official start of the project and updated with the relevant outcomes during the execution phase, to track the impact and exploitation path of the project results.

The Catalogue is conceived as an evolving demonstrator that will adapt according to the number and types of funded experiments to ensure easy access and categorization of the experiments. It will become the entry point for the 30+ experiments that will be built on EU-US experimental platforms. It will also evolve to match the needs of the nascent NGI marketplace where all advanced “ready to use” intermediate results coming out of the NGI cascading grants projects will be presented, ensuring an harmonized promotion of the project results and the best accessibility and user experience to the solutions developed.

The catalogue contains details on the project vision, participant contact details, project results, exploitation plans and expected impact. A number of filters allow users to search for the details of the experiments, their coordinators according to the type of organisation and their geographical provenance, the NGI related topics addressed in the proposal and the NGIatlantic.eu reference open call.

The sources of the information to be included in the catalogue are being gathered as part of the experiment monitoring workflow as the project evolves from the application stage to the final stage of the project. For example, the NGIatlantic.eu team initiates the information with details from the application itself at the outset, and has used (or will use) the open call project’s internal deliverables D1 (due after first month), D2 (mid-term), D3 (final report), as a source of collection of information from the project teams for the catalogue database. The project has also used their mentoring calls to gather additional information and conducted video interviews with each of the project teams as another way of gathering project information for the catalogue database.

After the introduction, Chapter 2 presents the structure of the Catalogue and the workflow to collect the information. Chapter 3 briefly describes the connection with the NGIatlantic.eu Grants Platform and the Twinning Lab. Chapter 4 sets the NGIAtlantic.eu Catalogue in the context of the NGI programme.
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## ABBREVIATIONS

<table>
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<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tr>
<td>CMS</td>
<td>Content Management System</td>
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<tr>
<td>DEM</td>
<td>Demonstrator</td>
</tr>
<tr>
<td>EAG</td>
<td>External Advisory Group</td>
</tr>
<tr>
<td>EC</td>
<td>European Commission</td>
</tr>
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<td>EMT</td>
<td>Experiment Monitoring Team</td>
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<td>NGI</td>
<td>Next Generation Internet</td>
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<td>NGI VTF</td>
<td>NGI Visibility Task Force</td>
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<tr>
<td>NSF</td>
<td>National Science Foundation</td>
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<tr>
<td>R&amp;I</td>
<td>Research &amp; Innovation</td>
</tr>
<tr>
<td>RIA</td>
<td>Research Innovation Action</td>
</tr>
<tr>
<td>SME</td>
<td>Small and Medium-Sized Enterprise</td>
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<tr>
<td>KPI</td>
<td>Key Performance Indicator</td>
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<tr>
<td>TRL</td>
<td>Technology Readiness Level</td>
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<tr>
<td>TWL</td>
<td>Twinning Lab</td>
</tr>
<tr>
<td>US</td>
<td>United States of America</td>
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<tr>
<td>WG</td>
<td>Working Group</td>
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1. INTRODUCTION

The purpose of this document is to describe Deliverable 3.3 (D3.3 is DEM – Demonstrator, pilot, prototype, plan designs – type of project deliverable), the NGIatlantic.eu Catalogue Database, an online searchable tool to track the progress of the running experiments. The catalogue is an online public database with a number of filter factors, to be set by its users/visitors, including TRL result, technology area, geographic location, useful to allow relevant stakeholder users to peruse into the results of the NGIatlantic.eu open calls and the experiments funded.

The implementation of the Catalogue is aligned with the experiment management workflows steps and the coaching and reporting activities undertaken from the announcement of successful application to the closure of the experiment.

1.1. Relation with other deliverables

This deliverable is of interest for WP3 NGI Experiments and all its four tasks; and for WP4 Communication, Dissemination, Engagement, Exploitation and Legacy and related tasks.

The following deliverables of NGIatlantic.eu are related to this document:

- D3.1 Experiment Monitoring Process and Coaching and Mentoring Plan;
- D3.2 EU-US Twinning Lab;
- D3.3 Experiment Catalogue Database & iterations (D3.4, D3.5, D3.7, D3.9);
- D3.6 Interim & D3.8 Final Experiment Results and Global impact of the EU-US NGI experiments period;
- D4.2 NGI EU-US experimental platform ecosystem status report & iteration (D4.3);
- D4.4 Final report on communication & stakeholder engagement and promotion of the open call.

1.2. Specific objectives

The objective of this short document is to present the structure of the Catalogue, the metadata gathered through it, the accessibility level of the information and how they can be retrieved by external users.

The NGIatlantic.eu catalogue is a key feature for impact of the NGIatlantic.eu offer, since it also advertises EU and US organisations and their opportunities to develop and/or evolve their applications into the NGI market.
2. STRUCTURE OF THE CATALOGUE

The NGIatlantic.eu catalogue of experiments is a living tool that will be maintained throughout the entire project, as an online searchable database, which will be updated periodically following up the outcomes of the open calls organized by the project. Every funded experiment will have an entry in the catalogue that will be firstly published at the official start of the project and updated with the relevant outcomes during the execution phase, to track the impact and exploitation path of the project results.

The catalogue contains details on the project vision, participant contact details, project results, exploitation plans and expected impact. A number of filters allow users to search for the experiments, their coordinators according to the type of organisation and their geographical provenance, the NGI related topics addressed in the proposal and the NGIatlantic.eu reference open call.

2.1. Catalogue structure and metadata

The current public version of the NGIatlantic.eu Experiment Catalogue available at the address https://ngiatlantic.eu/funded-experiments is structured as a list of content pieces with each one dedicated to one funded experiment and ordered chronologically by starting date of the experiment.

All started experiments are listed with the experiment title, the experiment abstract, a preview image where the logos of the partners are showcased, details about the Project Coordinator, the country of provenance of the coordinator and the organisation type and a label indicating the NGI topic addressed by the experiment.

As seen in Figure 1, on the right side of the screen, the filter allows users to search the experiments by country of the coordinator or States of the partners in the US, NGI related topics, organisation types and NGIatlantic.eu Call of reference.
FIGURE 1 PUBLIC VIEW OF THE NGIATLANTIC.EU EXPERIMENTAL CATALOGUE WITH FILTERS

By clicking on the experiment title, users can open the single pages dedicated to each of the experiments. These pages have all the same structure which has been designed to ensure coherence among all the experiments and the retrieval and publication of the information relevant to ensure experiment monitoring in an open and transparent way.

In particular, each Experiment page includes the sections below.
a. Experiment overview

Experiment Title

**Experiment Abstract:** This is a short elevator pitch of the project that appears in the catalogue entry page.

**Experiment Description:** This is a publishable description including an overview of the project vision, a layman’s description of the experiment, the experimental platform(s) being used, the addressed NGI Key technologies, NGI topic(s) addressed, the expected results and impacts, geographic location(s), and relevant vertical sectors. Figures, diagrams or other multimedia materials are included in this field.

b. Experiment details

**Project Coordinator (EU):** name and details of the organisation coordinating the project from European side.

**Country:** country of the EU coordinator. This is retrieved also in the filter view.

**Organisation Type:** type of organisation of the coordinator. This is retrieved also in the filter view and taken from the profile of the applicant in the Grants Platform.

**Project participants:** the other participants joining the consortium are listed in this area, with details about members and role in the experiments.

**State of US partner:** in this field, indication of the state of provenance of the US partner is provided.

**NGI related topics:** indication of which of the NGIatlantic.eu open call topics is addressed by the experiment.

c. Experiment implementation and exploitation

**Implementation plan:** details about the implementation of the experiment during the 3-6 months’ timeframe and on the experimental platform(s) being utilised. In this section, information about the TRL at present and the foreseen TRL level (if expected changed) at the end of the project is included.

**Expected Impacts:** description of how your project will address the impacts in relation to the NGI initiative.

**Expected Results:** a detailed description of the expected results as outlined in Experiment description section.

**Future plans:** this section includes a description of the exploitation plans after the experiment conclusion.

**TRL results:** expected TRL at experiment completion.
2.2. Workflow for information gathering

The sources of the information to be included in the catalogue are different, with the majority of the information being gathered as part of the experiment monitoring workflow, as described below.
The successful **application** submitted to the Grants Platform is the first source for all the **experiment details** showcased in the catalogue, including the consortium details and NGI related topics.

After contractualization procedures are completed and once the project starts, the monitoring process by the EMT also starts by collecting the periodic reports on the experiment execution, as described in *D3.1 Experiment Monitoring Process and Coaching and Mentoring Plan*. In particular, **Experiment Deliverable 1: Detailed Experiment Description and Implementation (Execution) Plan** is provided by the project coordinator. This document represents the second source of information for the catalogue, namely, to publish the content pieces described in the Experiment overview and Experiment implementation and exploitation sections above.

As long as the project continues its implementation, the EMT collects another two periodic reports, **Experiment Deliverable 2: Report on Experiment Implementation and Execution** and **Experiment Deliverable 3: Experiment Results and Final Report**. These deliverables are used to update the experiment pages on the catalogue, to ensure alignment of the information.

Additional sources can be used to populate the catalogue database including video and interviews with the project partners, quotes and other relevant summaries collected by NGIatlantic.eu communication team.

### 2.3. Confidentiality aspects

Two additional sections in the experiment page structure are dedicated to risks & contingency and dissemination plans for the experiment results. While these pieces of information are retrieved in the NGIatlantic.eu platform catalogue (and database), they are not made publicly available to external users, while they are visible online only to website administrators and NGIatlantic.eu partners.
3. EXPERIMENT CATALOGUE AND GRANTS PLATFORM DATABASE

The NGIatlantic.eu website is the entry point for the promotion of results of the NGIatlantic.eu open calls and related experiments; it is hosted in the public website (https://ngiatlantic.eu/) and managed using its Content Management System (CMS). The official database of the open calls is hosted at the Grants Platform (https://grants.ngiatlantic.eu/) instead, where applicants and coordinators of the successful proposals provide all the necessary materials to the EMT to monitor the experiment execution.

As detailed in D3.1 Experiment Monitoring Process and Coaching and Mentoring Plan, after the research teams have been selected for funding, the Grants Platform continues to be the primary environment for assessment and monitoring of the experiments' results. Applicants are invited to upload all the periodic reports related to the experiments in their dedicated space and this makes the reports automatically available for the partners in charge of monitoring while allowing administrators to have the complete view of the status of reports.

3.1. The Twinning Lab in the context of the catalogue

The catalogue is set-up as a space where applicants can look at the existing experiments and receive inspiration to get in contact with partners from across the EU and US, in order to submit plans for joint experiments or demonstrators to the NGIatlantic.eu open calls. As described in D3.2, Twinning Lab (TWL), the TWL is offered as a public space in the public website raising visibility to potential EU-US partners through the creation of a public profile on our site at this address: https://ngiatlantic.eu/twinning-lab. The profiles of the successful applicant listed in the Twinning Lab will be linked to the Experimental Catalogue, where clear reference of their role in the TWL will also be acknowledged. Given the actual time frame, with the first group of experiments just contractualized and starting, this functionality will be further developed in the future iterations of the catalogue with the purpose of having evidence of the path of those TWL members that evolved into successful applicants.
FIGURE 4 EXAMPLE OF A TWINNING LAB MEMBER WHO IS ALSO A SUCCESSFUL APPLICANT OF THE FIRST OPEN CALL

This dualism and mutually beneficial opportunities offered by the Twinning Lab and the Experiment Catalogue, aside from strengthening the visibility of the participant projects, will also attract potential future applicants serving as an example of what can be achieved with NGIatlantic.eu.
4. THE NGIATLANTIC.EU CATALOGUE IN THE CONTEXT OF THE NGI PROGRAMME

During the NGI Project Coordinators meeting on the 16th of September 2020, the European Commission welcomed the participating volunteers to a new Task Force entitled NGI Visibility Task Force (NGI VTF). NGI VTF held their first meeting on 12th of November and has a twofold objective: i) highlight the work of the Third-Party projects; ii) help the Third-Party projects reach out to the potential user communities. As part of the discussions held in the framework of the NGI VTF, consensus was reached on the importance of joining efforts to categorize the results coming out of the different NGI projects according to technology areas or application areas. An agreement was reached that only final or very advanced intermediate results should be presented as “ready to use” in the marketplace. Three Working Groups were organised as part of the Task Force and NGIatlantic.eu volunteered to join the following WGs:

NGI VTF - WG1: Organise a central place (repository, webpage, etc.) to present NGI solutions;
NGI VTF - WG2: a. Put NGI innovators in touch with “innovation friendly” organisations from the public sector and companies to stimulate cooperation; b. Expand the NGI Ambassadors’ programme and activities.

In light of the activity related to WG1, the categories associated with the NGIatlantic.eu Experimental catalogue may vary to adapt to the metadata agreed at the level of the NGI central repository. Currently, a starting list of categories has been drafted - see figure 5 below:

![FIGURE 5 NGI MARKETPLACE DRAFT CATEGORIES IDENTIFIED BY THE NGI VISIBILITY TASK FORCE - DEC 2020](image)

NGIatlantic.eu will contribute towards and take into consideration any decision taken by the NGI VTF and will adapt the categories, filters and metadata contained in its catalogue to match the overall objectives of ensuring an harmonized promotion of the NGI project results and the best accessibility and user experience to the solutions developed.
5. CONCLUSIONS AND NEXT STEPS

The NGIatlantic.eu Experiment Catalogue is an online up-to-date demonstrator of the outcomes of the NGIatlantic.eu Open call and the funded experiments available from the main NGIatlantic.eu website at the address https://ngiatlantic.eu/funded-experiments. It is an evolving demonstrator that will adapt according to the number and types of funded experiments to ensure easy access and categorization of the experiments.

This document reports on the current catalogue at December 2020, with three projects officially started, while it is to be considered as an evolving tool that will adapt according to the number and type of the selected experiments and to the evolution of the upcoming NGI marketplace.

The Catalogue will be maintained also after the project end to support sustainability of the project results and the overall NGI outcomes.