

The Hydrogen Valley Platform – Briefing



The Hydrogen Valley Platform is a global information sharing platform for project developers, policy makers and industry alike

Background and mission of the Hydrogen Valley Platform

The Hydrogen Valley Platform...

- > ...is developed by the Fuel Cells and Hydrogen Joint Undertaking (FCH JU) at the initiative of the Mission Innovation (MI) IC8 Member States
- > ...provides comprehensive information on large-scale hydrogen projects, in the following called **Hydrogen Valleys**
- > ...presents the results of a comprehensive survey in which the **Hydrogen Valleys participate**
- > ...is implemented with the joint support of Roland Berger and Inycom

The platform can be accessed at www.h2v.eu



Data is collected globally from large-scale Hydrogen Valleys

Our Mission is to...

- > ...advance the **clean energy transition**
- > ...promote the emergence and the implementation of **Hydrogen Valleys to build regional hydrogen economies**
- > ...foster **peer-to-peer exchange** among the Hydrogen Valleys
- > ...**raise awareness** among policy makers

All Hydrogen Valley projects, whether they are in the early phase or matured, can distinctively benefit from participating in the survey

Benefits for Hydrogen Valley participants



Benefits for "early-stage" projects

- > Joining an **exclusive group** of leading Hydrogen Valleys who you can collaborate and exchange best practices with
- > Benefiting from a **strong visibility** among policy makers and funding entities through the platform
- > Playing a significant role in promoting the emergence of **future hydrogen projects** by offering learnings for others through **relevant information**

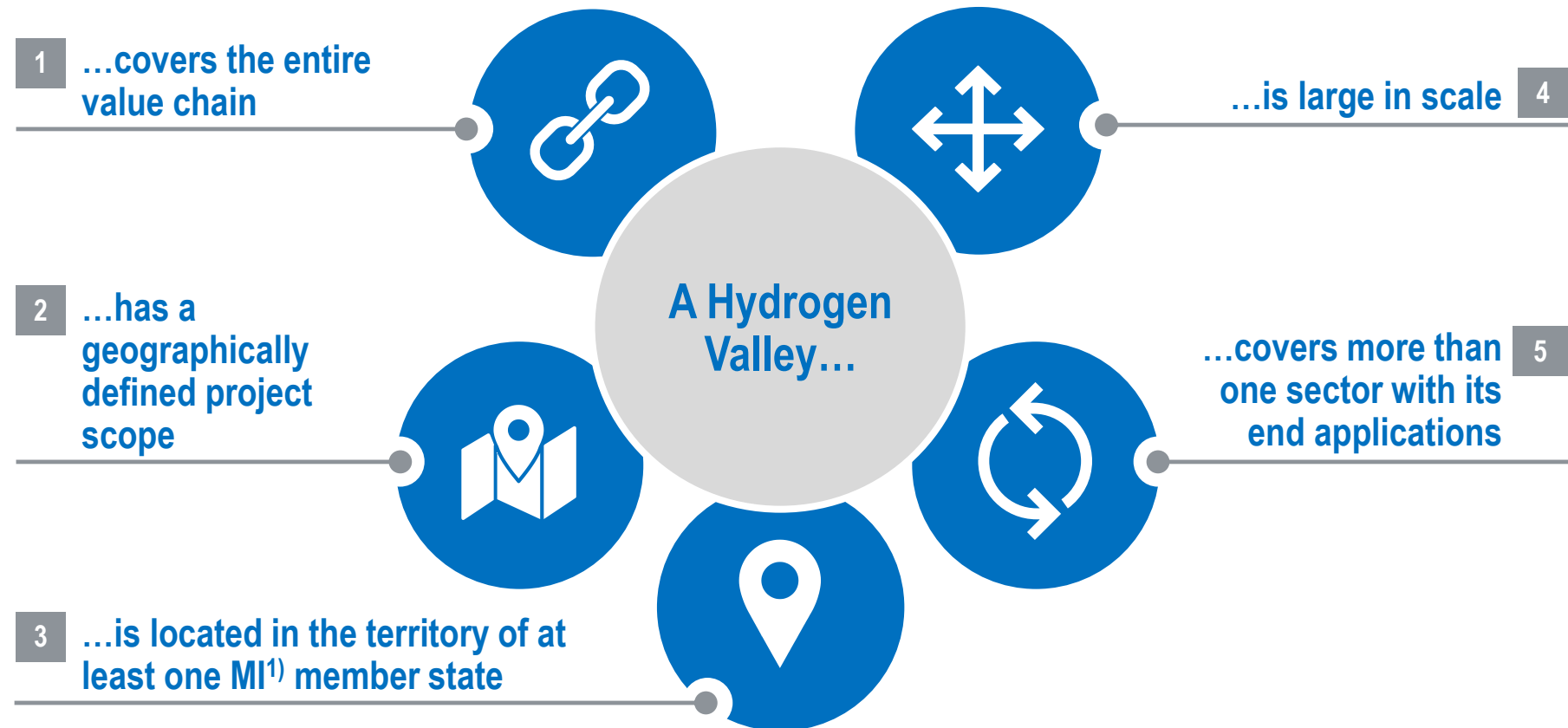


Benefits for "mature" projects

- > **Benchmarking** your Hydrogen Valley to other experienced and ambitious projects from around the world
- > Exchanging about challenges and successful approaches as well as developing international business through **peer-to-peer contact**
- > Strengthening your **public relations** by achieving a wide reach among institutions, such as funding entities and political administrations

The selection of the Hydrogen Valleys is based around five key criteria

Selection criteria of Hydrogen Valleys



1) "MI" indicates the Mission Innovation Initiative

The survey is easily available and user friendly to be submitted through the Hydrogen Valley Platform

Participation in the survey



1

2

3

Accessing the survey

> The survey is **open now**. You have received a **separate link** through which the **survey can be accessed** on the platform

Filling out the survey

> During the completion of the survey, it will be possible for all participants to save intermediate steps and to re-enter the survey in order to fill out missing or erroneous information

> **More practical information** on how to fill out the survey is detailed in the following section

Submitting the survey

> The survey can be submitted **via the platform**

Please be mindful of the following 3-4 key points as you complete the survey

Key guidelines for the completion of the questionnaire



1 | Required time: 4-5 hours

The survey is divided into **5 sections** (fundamentals, value chain&technology, preparation, commercials&financing, and impact&analysis) consisting of **93 questions** – drop-down and text-box answer options.

2 | Required status information: Implemented and planned

This survey covers projects **in all development phases**. For user friendliness however, we only use **one grammatical time** in our questions. We would like to emphasize that we **still ask for answers from all projects to those questions, regardless of the development phase**.

3 | Required expertise: Project level

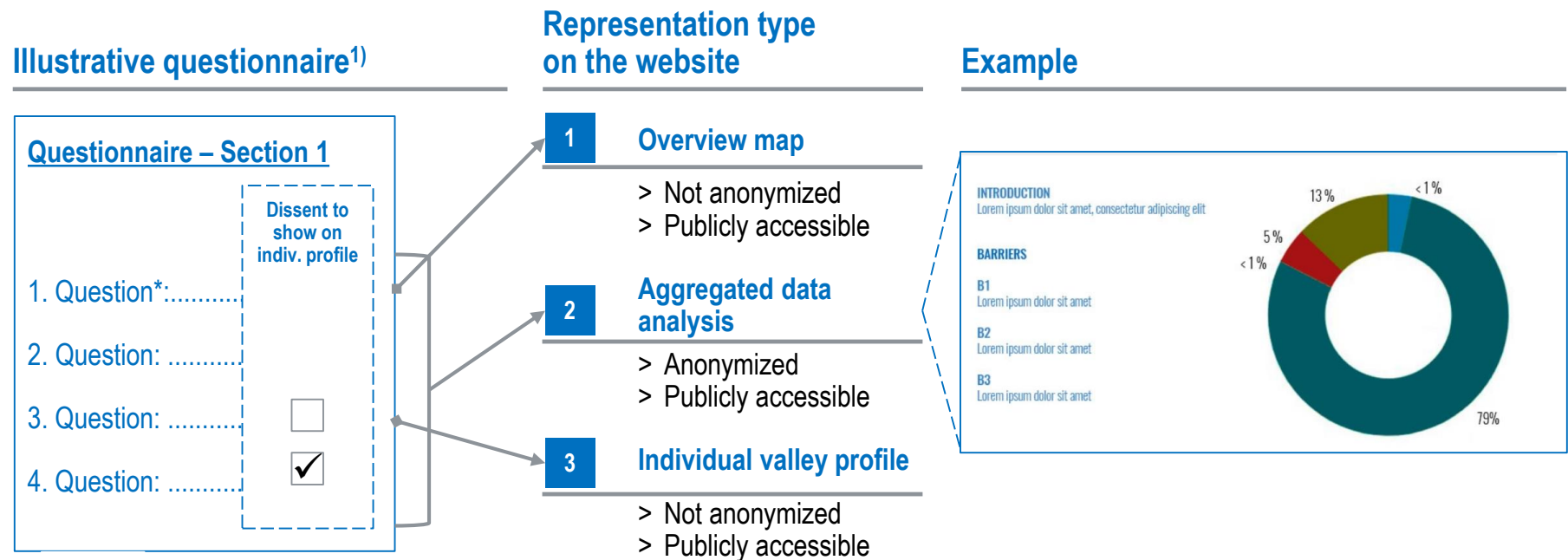
In order to provide most relevant information, the survey should be filled out on the project level. As implicated by the section titles, efficient **participation requires different expertise**. Whereas some fundamental questions are more general and easy to answer, some require potentially input from an engineering background, while others address the financial matters. Please **get your respective colleagues involved** who are possibly the owners of this knowledge.

4 | Optional work mode: Save and change

From the start to the end of the data collection process **you can save and change your answers anytime**. As the questionnaire does not allow different users working in parallel on one survey, this gives you the opportunity to use different expertise successively and to **save the interim results** at chapter level.

Based on the survey, data analysis will be publicly presented in three different ways on the platform

Evaluation of the survey outcomes



Note:

- > All answers are analysed and presented in an anonymized, aggregated form
- > Some answers to marked (b) questions are presented on an overview world map (e.g. project name, location, project status)
- > Some answers are intended to be part of an individual, not anonymized valley profile. If you do not want your answer to be part of this profile, tick the dissent-box for each question

1) The questionnaire will be accessible both via a link to the platform, as well as through an Excel document that we send out to all selected flagship Hydrogen Valleys

Some of the answers to the questions in the survey we'd like to show in an individual "valley profile" on the platform

Individual valley profile - Example

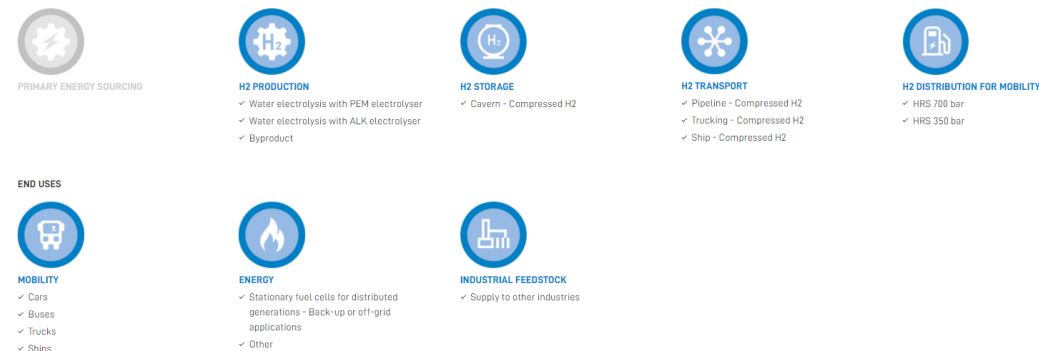
HEAVENN

LEAD DEVELOPER New Energy Coalition	PROJECT PARTNERS Gasunie, Nouryon, Engie, Emmtec, Groningen Seaports, Nederlandse Aardolie Maatschappij, QBuzz, PitPoint, Energie Beheer Nederland, Lenten Scheepvaart BV, Green Planet, Municipality Groningen, Municipality Hoozeveen, Municipality Emmen, HyEnergy TransStore	MAIN POLITICAL SPONSORS Province of Groningen, Province of Drenthe, The Netherlands Ministry of Economic Affairs and Climate, The Netherlands Ministry of Infrastructure and Water Management	MAIN LOCATION Municipality of Groningen (Netherlands) (Netherlands)	OTHER LOCATIONS Eemshaven (Netherlands), Groningen (Netherlands), Emmen (Netherlands), Hoozeveen (Netherlands)
HEAVENN HEAVENN is a large-scale demo project addressing the requirements of the call, by bringing together core elements: production, distribution, storage and local end-use of hydrogen into a fully-integrated and functioning Hydrogen Valley.				

PROJECT DETAILS

H2 PRODUCTION VOLUME [T/day]:
7.70

VALUE CHAIN COVERAGE



Example of individual valley profiles

- > The illustration displayed is a **non-exhaustive example** of the individual valley profile
- > The profile allows website visitors to gain additional insights on the platform that are **essential for future hydrogen project developers**
- > It will enable you to reach a **wider visibility** among policy makers, funding entities and other flagship hydrogen projects
- > If you **do not want** some or all of these answers to be part of the individual profile, **tick the dissent-box** for each question (see slide 10)

 The full profiles published on the platform can be accessed here: <https://www.h2v.eu/hydrogen-valleys>

Roland
Berger

THINK:ACT

