

# RATI<sup>o</sup>N

Risk AssessmentT InnOvationN for low-risk pesticides

## **DCrE Strategic plan of RATION and annual monitoring of its implementation**

Deliverable 6.2

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## DELIVERABLE REPORT

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Participant responsible :	EQY
Main author :	Laura Molinari

Nature of the Deliverable		
<b>R</b>	Document, report (excluding the periodic and final reports)	X
<b>DEM</b>	Demonstrator, pilot, prototype, plan designs	
<b>DEC</b>	Websites, patents filing, press & media actions, videos, etc	
<b>DATA</b>	Data sets, microdata, etc.	
<b>DMP</b>	Data management plan	
<b>ETHICS</b>	Deliverables related to ethics issues.	
<b>SECURITY</b>	Deliverables related to security issues	
<b>OTHER</b>	Software, technical diagram, algorithms, models etc.	

Dissemination level		
<b>PU</b>	Public, fully open, e.g. web (Deliverables flagged as public will be automatically published in CORDIS project's page)	X
<b>SEN</b>	Sensitive, limited under the conditions of the Grant Agreement	
<b>Classified R-UE</b>	EU RESTRICTED under the Commission Decision No2015/444	
<b>Classified C-UE</b>	EU CONFIDENTIAL under the Commission Decision No2015/444	
<b>Classified S-UE</b>	EU SECRET under the Commission Decision No2015/444	

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## List of partners

N°	Name	Short name	Country
1	PANEPISTIMIO THESSALIAS	UTH	Greece
2	AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH	AIT	Austria
3	UNIVERSITE CATHOLIQUE DE LOUVAIN	UCL	Belgium
4	METABOLIC INSIGHTS LTD	MI	Israel
5	AEIFORIA HELLAS LTD	AFA	Bulgaria
6	ECT OEKOTOXIKOLOGIE GMBH	ECT	Germany
7	IDRYMA TECHNOLOGIAS KAI EREVNAS	FORTH	Greece
8	INTERNATIONAL BIOCONTROL MANUFACTURERS ASSOCIATION	IBMA	Belgium
9	WAGENINGEN UNIVERSITY	WU	Netherlands
10	JULIUS KUHN-INSTITUT BUNDESFORSCHUNGSINSTITUT FUR KULTURPFLANZEN	JKI	Germany
11	HELMHOLTZ-ZENTRUM FUR UMWELTFORSCHUNG GMBH	UFZ	Germany
12	INSTYTUT UPRAWY NAWOZENIA I GLEBOZNAWSTWA, PANSTWOWY INSTYTUT BADAWCZY	IUNG	Poland
13	BIOBEST GROUP NV	BBEST	Belgium
14	INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT	INRAE	France
15	ELLINIKOS GEORGIKOS ORGANISMOS – DIMITRA	HAO	Greece
16	SYNGENTA AGRO GMBH	SYN	Germany
17	WEIZMANN INSTITUTE OF SCIENCE	WI	Israel
18	EUROQUALITY SARL	EQY	France
19	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	CSIC	Spain
20	BAYER AKTIENGESELLSCHAFT	BAYER	Germany
21	CBC (EUROPE) SRL	CBC	Italy
22	Genolution	Genolution	Korea

## Project summary

This report is part of the deliverables from the project "RATION" which has received funding from the European Union's Horizon Europe research and innovation program under grant agreement No. 101084163.

Low risk pesticides (LRP) including (i) plant extracts (ii) semiochemicals like pheromones and allelochemicals, (iii) microbial pesticides, are gaining ground in the global market, as substitutes of synthetic pesticides. In addition, new microbial solutions (phages, protists, microbial consortia) and ds-RNA pesticides are emerging, low-risk solutions expect to reach the market in coming years. Despite on-going regulatory efforts by the European Commission, we are still lacking a concrete risk assessment (RA) scheme relevant to LRPs, a point which blocks LRPs reaching the EU market. RATION timely comes to address these regulatory constraints and aims to develop a novel RA scheme, supported by the necessary guidance on methods and tools, tailored to the specific characteristics of established and emerging LRP solutions. This main goal will be achieved through a series of interrelated WPs aiming (i) to map the current status of LRPs in Europe and identify main regulatory constraints (WP1). In this quest it will be supported by a stakeholders forum composed of all relevant actors (industry, regulators, academics, farmers, general public); (ii) to develop and validate, through a proof-of-concept exercise, innovative RA (and associated tools) for microbials (WP2), plant extracts, semiochemicals, pheromones (WP3) and, ds-RNA (WP4); and from there (iii) build a harmonized RA for all LRP and determine its socioeconomic impact (WP5), (iv) to effectively communicate and disseminate the new RA knowledge and its associated tools developed by RATION to relevant actors ensuring sustainability beyond project duration (WP6). RATION will benchmark EU regulatory science, uplift blockers holding back LRP uptake by the EU market and motivate research innovation in plant protection. To achieve these goals 22 partners from academia, industry and regulatory bodies, representing 10 member states and 2 non-EU member states, will join forces in a multi-sectoral and multi-disciplinary effort.

## Objective and Executive summary

The Dissemination, Communication and results Exploitation strategic plan (DCrE) includes two sections: (i) the Dissemination and Communication section and (ii) the results Exploitation section.

A main element of the Dissemination and Communication section is the identification of target audiences and optimised methods to convey the messages of the project in the right format and through appropriate channels. It sets specified goals and objectives regarding what knowledge will be disseminate, to whom, how and when. The results Exploitation section defines optimum modes for the future exploitation of tools, products/services created within RATION and describes the mechanism implemented to ensure sustainability of project outputs.

The Results Exploitation section will be incorporated in the DCrE later, by M32, in order to allow the development of potential services, tools and products to be exploited.

The present Dissemination, Communication and results Exploitation strategic plan is a dynamic document and will be regularly updated as well as it will be monitored annually by the General Assembly.

## 1. Introduction

### 1.1 Project objective and expected impacts.

In the frame of RATiON, new risk assessment (RA) approaches tailored to the needs and characteristics of low-risk pesticides (LRPs) of biological origin will be developed.

This will be achieved through an iterative approach which will (i) take into account current regulatory approaches, guidance and suggestions, (ii) identify limitations and (iii) innovate through the development of new risk assessment tools for LRPs, including novel toxicity/ecotoxicity and, when required, exposure assessment tools.

The expected outcomes of RATiON are:

- Improving risk assessment of new so-called LRP with the use of relevant methods,
- Fostering EU regulatory science and risk assessment of new LRP for agriculture,
- Ensuring the safety of new LRPs used in agriculture through robust and transparent risk assessment,
- Increasing the availability of safe and environmentally friendly methods for plant protection to reduce the risks to the environment and human health.

The wider expected impacts of RATiON are:

- Sustainable, productive, climate-neutral and resilient farming systems providing consumers with affordable, safe, traceable healthy and sustainable food, while minimising pressure on ecosystems, restoring and enhancing biodiversity, improving public health and generating fair economic returns for farmers,
- Sustainable fisheries and aquaculture increasing aquatic biomass production, diversification and consumption of seafood products for fair, healthy, climate-resilient and environment-friendly food systems with low impact on aquatic ecosystems and high animal welfare,
- Sustainable, healthy and inclusive food systems delivering co-benefits for climate mitigation and adaptation, environmental sustainability and circularity, sustainable healthy nutrition, safe food consumption, food poverty reduction, the inclusion of marginalised people, the empowerment of communities, and flourishing businesses.

### 1.2 Communication, Dissemination and results Exploitation in RATiON.

To maximise the impacts, RATiON will implement a series of planned activities to disseminate and ensure exploitation of project results, beyond the countries represented in the consortium and beyond the project lifetime, and to communicate about the project itself.

The EC Online Manual provide the following definitions of Communication, Dissemination and Exploitation:

- **Communication:** promoting the action and its results, by providing targeted information to multiple audiences (including the media and the public), in a strategic and effective manner and possibly engaging in a two-way exchange.
- **Dissemination:** sharing research results with potential users - peers in the research field, industry, other commercial players and policymakers). By sharing your research results with the rest of the scientific community, you are contributing to the progress of science in general.
- **Exploitation:** the use of results for commercial purposes or in public policymaking.

As Horizon Europe is financed by EU citizens, it should benefit to the largest number and the fruits of the research reach society as a whole. The objective of the present deliverable is for RATION partners to successfully communicate about the project and disseminate the results to the right stakeholders, to allow for the uptake and exploitation of RATION solutions.

Whilst measures to maximise the project's impact will be universal to all WPs, WP6 will increase the project's outreach in a systemic manner. Activities will involve the whole consortium and will be led by EQY. Partners and stakeholders' participations are central to the formulation of the DCrE plan to ensure that it considers relevance, users' needs and current knowledge systems.

## 2. Dissemination and Communication strategy

The first actions of this strategy involve the preparation of a timetable to raise the visibility of the project through communication of generic project information (via website, social media and other channels) and a plan to optimize dissemination to potential beneficiaries.

### 2.1 Target audience

#### 2.1.1 Policymakers and Regulatory Bodies:

Implementing an improved RA scheme for new LRPs requires an extensive transformation of the current regulation in place, and therefore, needs an impulse from policy makers. Moreover, several policies - such as agricultural, industrial, trade - might also need to be revised, as a consequence of this new RA scheme. Regulatory bodies in charge of the implementation of RA of pesticides are also a key target group, as they will be the main users of RATION project results.

**Stakeholders and target groups:** EU regulatory bodies in charge of PPPs (e.g. EFSA), Ministries and National agencies of Food and Agriculture, Ministries and National agencies of Health, Industry and Environment, Regulatory Bodies in charge of assessing risks of PPPs at MS level (Ctgb, AGES, ANSES, BVL, Tuces etc).

### 2.1.2 LRP producing industries:

RATION will directly consult representatives from the European agro-industrial sector, in the StaFo (in the adhered EAB), and in the consortium. Capabilities of the industrial facilities will be assessed to identify how they can implement the different methods, tools and technologies required in the new RA scheme. Industries will also benefit from new business opportunities by understanding these tools at an early stage.

**Stakeholders and target groups:** Representatives from the European agro-industrial sector (e.g., CropLife Europe, Euroseeds, IBMA), Industries producing LRPs (SYN, BAYER, BASF, BBEST, MI, GENO, CBC, EPA Agricola, CERTIS Europe, FMC, Corteva, NOVOZYMES, etc).

### 2.1.3 SMEs involved in RA of PPPs:

RATION will produce datasets, protocols, tests and other tools that will benchmark RA for LRPs. All these will be made available, beyond LRP producers and regulatory bodies, to other industrial actors that act as subcontractors of the relevant PPP industrial sector for RA activities. This sector is evolving and rapidly adjusting to the regulatory framework and need to be directly informed about the new tools, procedures and methods developed and will be implemented in the forthcoming regulatory framework.

**Stakeholders and target groups:** SMEs active in hazard characterization (e.g. ECT) or exposure assessment (AFA), environmental monitoring of PPPs (e.g. AEIFORIA srl) and enterprises that undertake the dossier preparation and full RA of PPPs (e.g. APIS, EUROFINS, WATERBORNE, GAP, Knoell, DEVREG, etc).

### 2.1.4 Scientific community:

RATION will produce a number of datasets for each LRP group including biological effects, hazard/tox/ecotox/exposure/risks data, environmental monitoring data, genomic analysis data, metabolic reconstruction and AMR transferability prediction, bioinformatic analysis of ds-RNA NTOs, socioeconomic analysis of LRP use and RA implementation etc. These data will pioneer research on different aspects of LRP including toxicology, ecotoxicology, environmental persistence and efficiency, benchmarking research in this area. Thus, the project will pave the way for future multidisciplinary research to develop, implement and standardize a RA framework adapted to LRPs.

**Target groups:** Researchers in microbial ecology, risk assessment, environmental chemistry, toxicology, eco-toxicology, plant biotechnology, analytical chemistry, social sciences, economics.

### 2.1.5 Farming communities (including advisors):

Farmers will play a key role in reducing the risks of pesticides to the environment, non-target organisms and human health and in fostering the use of novel solutions like LRP, conducive to Green Deal and the Zero Pollution initiatives. By sharing information on LRPs with farmers – including the availability of LRPs in Europe, a brief description of uses and characteristics, registration information at MS level, suppliers – RATION will ensure that they have all the tools in hands to adopt more sustainable practices and to better answer future market demands. Advisory services will support dissemination of the messages and farmers transitions.



**Stakeholders and target groups:** Cooperatives, Advisory services, individual farmers and their associations.

#### 2.1.6 Consumers – General Public:

RATION will ultimately lead to the development of food produced based on LRP use. As far as possible, these products will consider reaching fair prices, supported by social policies, to make healthy and sustainable diets affordable for all consumers and provide mass consumption alternative. Moreover, consumer acceptance will be ensured through the Level III of the ODC, that will provide information about LRPs and their distinction from synthetic pesticides (What they offer, Advances and Limitations).

**Stakeholders and target groups:** Consumers of all ages, consumer associations and NGOs.

#### 2.1.7 Other actors of the food chain (food industries, supermarkets, food services):

The other actors of the food chain will also be targeted to raise awareness about LRPs and foster the development of new value chains, based on raw materials produced with the use of LRPs. Possible labeling strategies will also be studied and discussed with such actors. Food industries, food retailers, and food services which signed the EU Code of Conduct will be targeted in priority.

**Stakeholders and target groups:** National food service companies, EU associations of retailers and food industries.

#### 2.1.8 Other Horizon projects and international networks:

Possible synergies can be made with several Horizon, PRIMA, INTERREG and LIFE projects related to the RATION activities (e.g.. ARISTO H2020-ITN-MSCA, INTOMED PRIMA, ECORISK2050 H2020- ITN-MSCA, GENEBCON HORIZON EUROPE, BRIGHTSPACE HORIZON EUROPE, etc). The message will then focus on the synergies that exist between projects and how mutual benefits can emerge through collaboration. The participation of partners in these projects will help to disseminate the project results, mobilize such partnerships and in the long term ensure maximum impact for EU environmental and agri-food policies.

**Stakeholders and target groups:** Project coordinators, funding bodies.

## 2.2 Key messages

Several messages will be developed according to the targeted audience. The messages to be disseminated to all audiences should highlight the goal and the main challenges dealt with by the RATION project. Examples of main messages to be conveyed to the different targeted audiences, as identified above, can be found below.

#### General messages focusing on:

- Microbial pesticides regulation at EU level

- Low-risk pesticides regulation at EU level
- Modern agriculture, environment and human health

Specific messages can look like:

- RATION will review current knowledge and assess data requirements per LRP solution (for microbials, plant extracts and pheromones).
- To maximize its impact in the EU regulatory framework, RATION will provide a roadmap towards the future standardisation and validation of the developed tools, technologies, and methods for RA.
- RATION will aim at analysing the socio-economic impacts of implementing the proposed RA scheme at the EU level.
- In Europe, LRPs go through the same registration process used for synthetic pesticides without considering the needs and characteristics of LRPs.

## 2.3 Communication activities

### 2.3.1 Communication toolkit:

A communication toolkit tailored for RATION was developed by EQY and uploaded to the SharePoint, accessible to all partners via a secure connection. The toolkit includes:

- The RATION logo
- The Graphic Charter
- PowerPoint templates (PPT)
- Document templates (doc)

Other communication material will be developed throughout the project and in accordance with partners' needs (specific leaflet, video, poster...). Graphic materials (leaflets, promotional documents, etc.) will be developed to promote the project at selected events providing general information and preliminary results, addressing both technical and non-technical public results. All the printouts will be uploaded to the website and will be available for downloading.

<b>Key indicators</b>	<b>Poor impact</b>	<b>Good impact</b>	<b>Excellent impact</b>
<b>Number of brochure/leaflet distributed</b>	<500	500 - 1000	>1000
<b>Number of views of visual products (videos, podcasts)</b>	<2500	2500 – 5000	>5000

*Table 1. Key indicators for communication material*



Figure 1. RATION logo



Figure 2. RATION presentation template

**RATiON**

Risk Assessment *Innovation* for low-risk pesticides

**Title**  
Deliverable XX

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DELIVERABLE REPORT

Start date of project:	
Duration of project:	
Deliverable n° and name:	
Document n°:	
Version:	
Work package n°:	
Due date of D:	
Actual date of D:	
Participant responsible:	
Main author:	

Nature of the Deliverable	
REP	Document, report (excluding the periodic and final reports)
DEM	Demonstrator, pilot, prototype, plan designs
DEC	Website, patents filing, press & media actions, videos, etc.
DATA	Data sets, microdata, etc.
DMP	Data management plan
ETHICS	Deliverables related to ethics issues.
SECURITY	Deliverables related to security issues
OTHER	Software, technical diagram, algorithms, models, etc.

Dissemination level	
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Quality procedure			
Date	Version	Reviewers	Comments

Figure 3. RATiON deliverable template

### 2.3.2 Social media:

RATION social media accounts (LinkedIn and Twitter) were created at the beginning of the project (M1). Regular communication campaigns will be launched throughout the project, to communicate on the project activities, developments, progress, partners and events. Social media publications will address different kind of stakeholders (industrials, scientific, general public, ...). The messages published will be accessible to all kind of audience.

Communication campaigns could focus on (non-exhaustive):

- Project press releases
- Ground-breaking findings
- Policy briefs including major findings that will benchmark policies in Europe
- Reports on conferences and meetings
- News of deliverables and milestones achievements
- Information about forthcoming events
- News on research and developments on related issues from all over the world

RATION partners will have the responsibility to share the publications to their existing network (e-mail, social media, newsletter...), and thus ensuring the messages are conveyed to the relevant stakeholders.

In addition, all visual material including podcasts, videos from experimental procedures/protocols, promotional video of the project will be made available on a dedicated RATION youtube channel.

An indicative timeline for the main social media campaigns to be occurring during the first year of RATION is presented hereafter:

<b>Date</b>	<b>Topic</b>	<b>Partners</b>	<b>Communication support</b>
Dec. 2022	Kick-off meeting	EQY	Picture, text
Feb. 2023	Website	UTH, All	Infographics, Text
April 2023	StaFo workshop	EQY, UTH	Picture, text
June – Sept. 2023	Partners presentation	All	Picture, text
Sept. 2023	Face to face annual meeting	All	Picture, Text
Oct. 2023	StaFo workshop	EQY, UTH	Picture, text

RATION social media are accessible through the following links:

- LinkedIn account: [\(2\) HE - RATION: Overview | LinkedIn](#)
- Twitter account: In progress
- Facebook account: [\(1\) Ration HE | Facebook](#)
- Youtube channel: [RATION HE - YouTube](#)

### 2.3.3 Website:

The project website was launched at M3 and is accessible through mobile devices and computer, to communicate general information about RATION, but also to disseminate public outputs,

including publications. Available in English (the core of the website will be made available in other languages like Greek, Italian, French, German, Hebrew, Spanish to encourage access by most EU citizens, farmers etc.) it will introduce the project partners and activities and intends to generate interest from stakeholders. Benefits for stakeholders will be extensively presented for each type of target group, together with the process for sharing interest to join. The website will host the RATION knowledge centre that will contain all knowledge collected and generated by the project, to be further reused by policy makers, researchers and industries. RATION website will promote related initiatives and projects.

The RATION website will also host dedicated intranet space to be accessed by partners (Intranet Portal for Partners) and by Stakeholder Forum members (Intranet Portal for Stakeholders). In addition a dedicated forum for exchange of advices, feedback and discussion on relevant issues for LRP will be set up in the Stakeholders' dedicated area of the website. This will allow exchange of ideas on advances of the project, benchmarking findings etc. It will be open to all but only registered members will be able to comment (partners, stakeholders). This will form the Open Digital Channel of RATION maximizing the communication and impact of the project.

The website remains necessary for all projects that aim at structured digital communication. It allows the general public to refer to the global and popularized progress of RATION as well as for the readers of the posts on social media to get more information.

The project domain is: [www.ration-lrp.eu](http://www.ration-lrp.eu)

<b>Key indicators</b>	<b>Poor impact</b>	<b>Good impact</b>	<b>Excellent impact</b>
<b>Number of website visits (per year)</b>	<1000	1000 - 3000	>3000

Table 2. Key indicators for the website

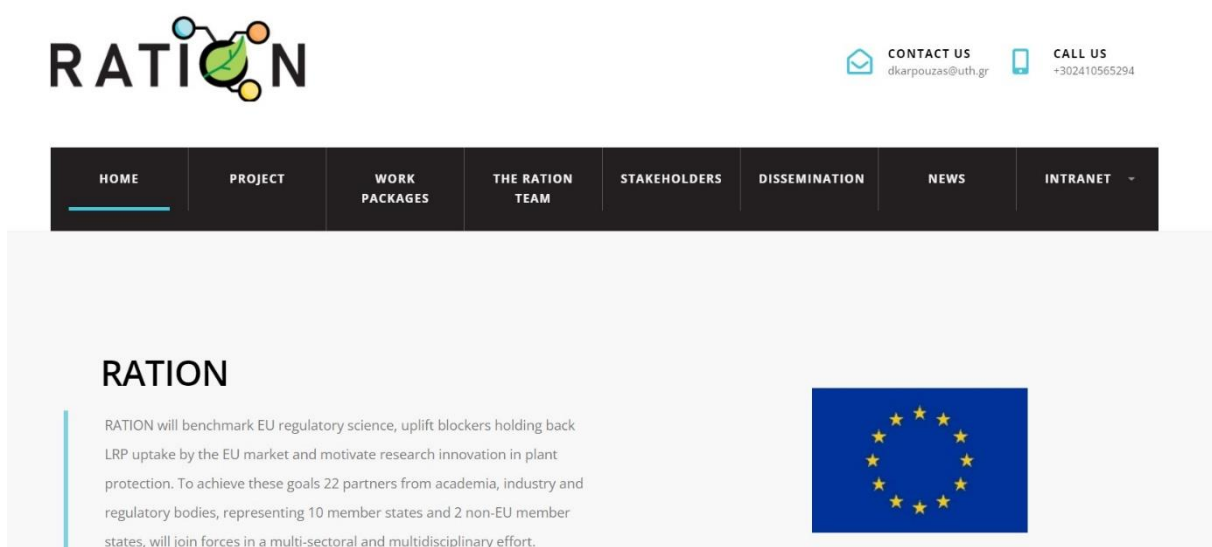


Figure 4. RATION website

## 2.4 Dissemination activities

Dissemination activities will focus on mobilising stakeholders and on providing a reliable, smooth, and efficient knowledge transfer of the RATION outcomes to end-users and target groups including scientific congresses, industrial conferences, agricultural fairs and policy-making networking and training event.

### 2.4.1 Conferences and events:

RATION partners will participate in various events during the project lifetime and will organise several events to maximise the impact of the RATION project.

**Participation in conferences and events:** To promote the accessibility of results to external stakeholders, RATION will attend outreach events throughout the project. These events can be in the form of workshops, seminars, conferences and side events focusing on biogas and any other topics relating to RATION main objectives. Some of potential events attended by partners of RATION where the project will be presented are listed below.

Event name	Location
ABIM (Biocontrol industry annual fair and conference)	Basel, Switzerland
ISCP - 75th International Symposium on Crop Protection	Gent, Belgium
Biopesticide Europe 2024	Brussels, Belgium
XII European Congress on Entomology	Crete, Greece
XXI International Plant Protection Congress	Athens, Greece
International Congress of Plant Pathology	Paris, France
miCROPe 2024	Vienna, Austria
XVII Symposium of European Association of Agricultural Economists	Rennes, France

**Organisation of conferences and workshop:** RATION will organize national dissemination events per country, a project conference organised at the end of the project in Brussels and a Summer School which will take place in Greece targeting junior researchers active on LRP research and development.

Relevant events and materials will be prepared targeting LRPI and RB. These will be organized by EQY, UTH and IBMA in Brussels or Paris (2) and will be composed of a morning session where an overview of the project achievements regarding proposed RA schemes, novel testing and approaches, tools etc. will be provided, and a series of afternoon parallel sessions where training on RATION tools will be provided.

In addition RATION will join forces with other HORIZON Europe projects sharing common objectives in order to organize common events which will maximize impact and increase the possibilities for implementation of the tools and procedures developed through the project. Such

activities are already foreseen between RATION, GENEBCON and BRIGHTSPACE, all Horizon Europe projects to collaborate in the economic modelling of the regulatory alternatives for new genomic techniques (GeneBEcon), low-risk pesticides (RATION), and their implications for the measurements of environmental and economic impacts at farm- and market- levels (Brightspace). Events and workshops with these projects and other projects will be co-hosted.

#### 2.4.2 Publications:

Included in the RATION knowledge repository, at least 20 articles will be published by RATION partners in Open Access scientific journals and in technical magazines and reviews. Summarizing the main findings of social and policy research, they will support the uptake of RATION data and results for further development of research activities and concrete solutions. Publications will be decided according to the IPR strategy, confidentiality and provisions set out in the consortium agreement. For each publication, a publisher will be selected once the co-authors have been authorised to publish by the Steering Committee (STCo) of RATION. It will be chosen among those which both respect the authors' interests and accept gold access publication and with the biggest impact. Partners will use an open access repository, connected to the tools proposed by the EC (open AIRE), to grant access to the publications and bibliographic metadata in a standard format including all information requested by the EC.

RATION partners will publish reports and results (according to the IPR protection strategy and the open access objective) in the scientific literature, dedicated peer-reviewed journals and magazines like the following ones:

<b>Scientific and technical journals targeted</b>
Environmental Microbiology
Environmental Toxicology and Chemistry
Pest Management Science
Pesticide Biochemistry and Physiology
Science of the Total Environment
Chemosphere
Ecotoxicology and Environmental Safety
Ecological Indicators
Environmental Science and Pollution Research
Frontiers in Microbiology
Plant Pathology
Current Opinion in Microbiology
Microbial Biotechnology
European Journal of Plant Pathology
Molecular Plant-Microbe Interactions
European seed magazine



When ready, public deliverables produced by RATION partners will be made available on the website. Each task leader and deliverable responsible will provide a publishable version. Each public deliverable will be introduced by a graphically edited abstract highlighting keys output in an easy-to-access way.

N°	Deliverable name	WP	WPL	Type	Level	Date
D1.1	Report mapping challenges and opportunities for revising EU regulation of LRPs	WP1	WU	R	PU	M24
D2.1	Improved RA scheme for microbial pesticides – proof of concept with model active compounds	WP2	CSIC	DATA	PU	M48
D2.2	Recommendations for RA of new microbiome solutions	WP2	AIT	R	PU	M36
D3.1	New RA for plant extracts, semiochemicals and pheromones – proof of concept with model active compounds	WP3	CSIC	DATA	PU	M48
D4.1	RA scheme for ds-RNA pesticides – proof of concept with model active compounds	WP4	JKI	DATA	PU	M48
D5.1	List of recommendations and data requirements for a new harmonized RA for LRPs	WP5	ECT	R	PU	M48
D5.2	Consumer knowledge, attitudes, and perceptions towards LRPs	WP5	INRAE	R	PU	M42
D5.3	Economic assessment of RA and approval policies of LRPs	WP5	WU	R	PU	M48
D6.1	Visual identity, project website and ODC	WP6	UTH	Other	PU	M6
D6.2	DCrE Strategic plan of RATION and annual monitoring of its implementation	WP6	EQY	R	PU	M6
D6.3	Policy briefs	WP6	UTH	R	PU	M18
D7.1	Gender balance strategy	WP7	UTH	R	PU	M24
D7.2	Data Management Plan	WP7	UTH	DMP	PU	M6
D7.3	First update of Data Management Plan	WP7	UTH	DMP	PU	M18
D7.4	Second update of Data Management Plan	WP7	UTH	DMP	PU	M36

Table 3. List of public deliverables

### 3. Results Exploitation

Results Exploitation section will be incorporated in the DCrE later, at the latest by M32 and will be coordinated by UTH and EQY. It will identify key exploitable products and services, the potential user groups, the market potential, the unique selling points and advantages for end-users.

The Results Exploitation section of DCrE will define optimum modes for the future exploitation of tools, products/ services created within RATiON and will describe the mechanism implemented to ensure sustainability of project outputs. An indicative list of project outputs relevant for exploitation will be:

- (i) bioinformatic software for identification of NTOs regarding dsRNA pesticides environmental risk analysis (TLR7),
- (ii) mathematical models for the calculation of the exposure for dsRNA and plant extracts (TLR7),
- (iii) optimized screening toxicity or ecotoxicity tests adjusted to the needs and requirements of RA of LRP (TLR5-6),
- (iv) software or pipeline for identification of AMR genes and secondary metabolites in whole genomes of microbial pesticides (TRL6)

Besides results exploitation, this section. will develop a mechanism to ensure the project's sustainability, momentum and the networks developed beyond its lifespan. This way, the project impact at all levels will be maximized while project continuation will be ensured through industry-academia-regulatory bodies collaborations in the frame of new funding schemes. The tools, outcomes and materials produced during RATiON that are not subject to IPR will remain available on the website and moderated for 5 years after the project ends.

## 4. Management

Partners are expected to contribute to and help the visibility of any dissemination, communication and exploitation activities throughout the project lifetime. Although EQY is the leader of the Communication, all partners are expected to contribute proactively in these activities.

Partners are also expected to suggest the implementation of relevant communication and dissemination activities, given their knowledge of the project technical activities, and the demonstration site activities.

Our Dissemination, Communication and results Exploitation plan is a dynamic document that will be regularly updated by EQY and IBMA and its implementation will be monitored annually by the General Assembly (GA) at M12, M24, M36 and M48. The efficacy of the DCrE strategy will be continuously assessed using standardized indicators and targeted monitoring activities

Communication & Dissemination activities implemented by all partners throughout the project will be tracked through a Communication & Dissemination tracker made available by EQY to all partners on our specific folder on the website. This document is to be updated by all partners for all activities (publications, participations in and organisations of conferences and events, newsletters, articles, social media publications, and the website). The monitoring of the communication and dissemination activities impact will take place at every Consortium Meeting (every 6 months) and more thoroughly at each periodic report. The progress assessment will be made through the identified key indicators in this document.

Below a table summarising all communication & dissemination KPIs:

<b>Key indicators</b>	<b>Poor impact</b>	<b>Good impact</b>	<b>Excellent impact</b>
<b>Number of brochure/leaflet distributed</b>	<500	500 - 1000	>1000
<b>Number of views of visual products (videos, podcasts)</b>	<2500	2500 – 5000	>5000
<b>Number of readings (scientific papers)</b>	<1000	1000 – 3000	>3000
<b>Webpage visits per year</b>	<1000	1000 – 3000	>3000
<b>Youtube channel views per year</b>	<500	500 – 1000	>1000
<b>Number of posts on social media per year</b>	<50	50 – 80	>80
<b>Number of views on social media per year</b>	<200	200 – 600	>600

# RATI*o*N

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