



10/12/2021

How to increase the strength of your Horizon **Europe application through the D&E plan**

Andrea Di Anselmo 9.00 - 9.50



META: 25+ years of experience in «Knowledge To Market»

The DG RTD

main contractor to support funded projects with **Exploitation and** dissemination services



https://www.horizonresultsbooster.eu/



- and CSSERR framework contracts (DG RTD)
- pitch research **results**

Framework contractors of DG RTD since 2012

1'300 research consortia supported in exploiting research results

More than 15'000 R&D projects participants coached and tutored



bringing knowledge to market, helping researchers and entrepreneurs in exploiting the results of their

running European research-support services as Horizon Results Booster, IP Booster, ESIC, SSERR

training & coaching on how to communicate and

engaging with a variety of stakeholders from Public agencies to early-stage investors across Europe

Goals for the day

- Clarify links between:
 - impact and KERs (Key Exploitable Res.)
 - impact and use of KERs
- Understand how maximise impact with exploitation and dissemination in HE
- Introduce few tools

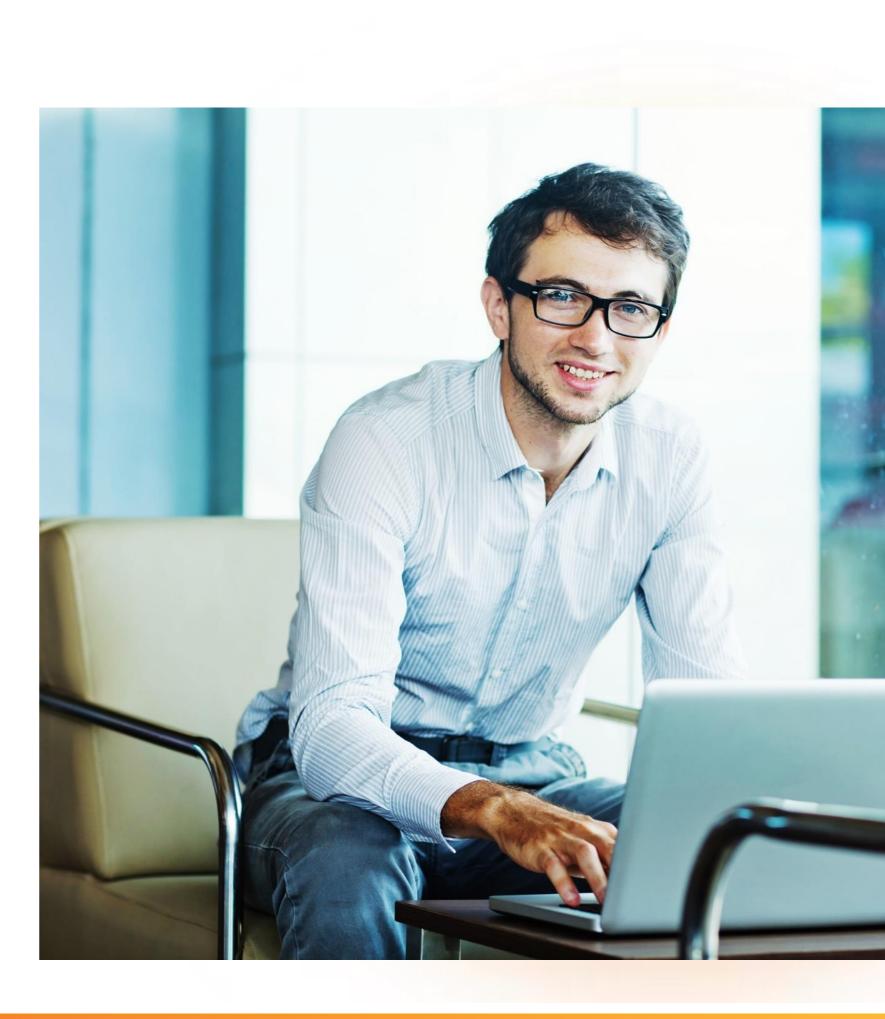




Background

- Thousands of R&D projects funded by the EC and other donors ended or will approach their end in the years to come.
- Only very few results from such projects are used or reach the market.
- Transforming results into benefits for the society, maximising the scientific, social, economic, technological and policy value of public funding, is a must.
- This transformation passes through the successful implementation of <u>Dissemination</u> and <u>Exploitation</u> (D&E) activities.







No use no impact!





Some examples to discuss





As a result of some research involving people experiencing homelessness, a university researcher was invited to present the research to a Parliamentary Group.

Example from Coventry University

What is it? Is it impact?

No, not yet. It's "dissemination".



A researcher has carried out extensive research into tyre testing methods. As a result, a large automotive company adopt the new methods, resulting in considerable efficiency savings.

Example from Coventry University

What is it? What do you need to know to answer?

a) Outcome (as it is described) b) It would be impact if energy savings in the long term will be as expected or better



Following their extensive research into exhaust system design, a university researcher has set up and led a Special Interest Group, which has involved regular meetings attended by policy makers and industrial partners.

Example from Coventry University

What is it? Is it impact?

NO, it is part of dissemination activities to reach out early adopters and stakeholders after project ends.



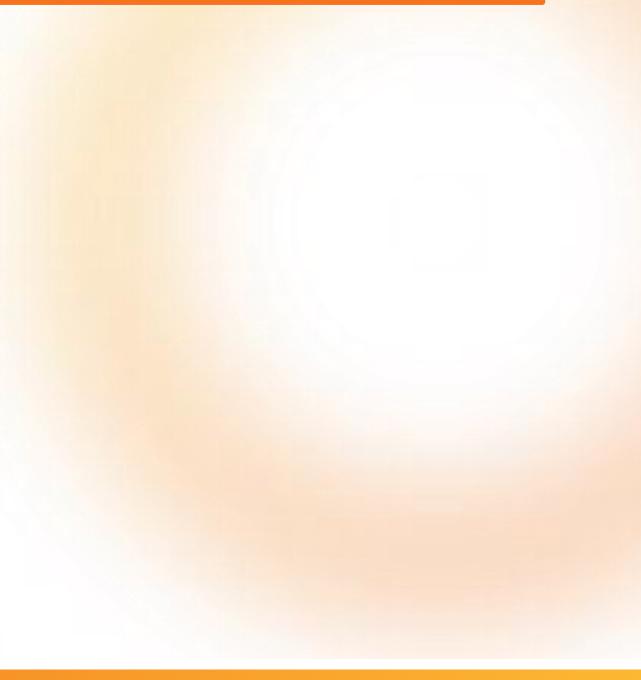
A researcher's findings have attracted media interest. There have been newspaper articles in a number of broadsheet newspapers, local newspapers and an interview on local radio.

Example from Coventry University

What is it? Is this impact?

No this is communication!





Research into musculoskeletal modelling has revealed that current practice for extracting casualties from crashed vehicles is not the best method. As a result, the National Fire Service changes safety protocols and these are implemented across the UK.

Example from Coventry University

Is this impact?

No! It does not identify the wider long-term effects on society, economy and/or science. It is an outcome!



A researcher at the university has developed a novel algorithm with broad potential for real world applications. As a result, a spin-out company has been established with 5 employees.

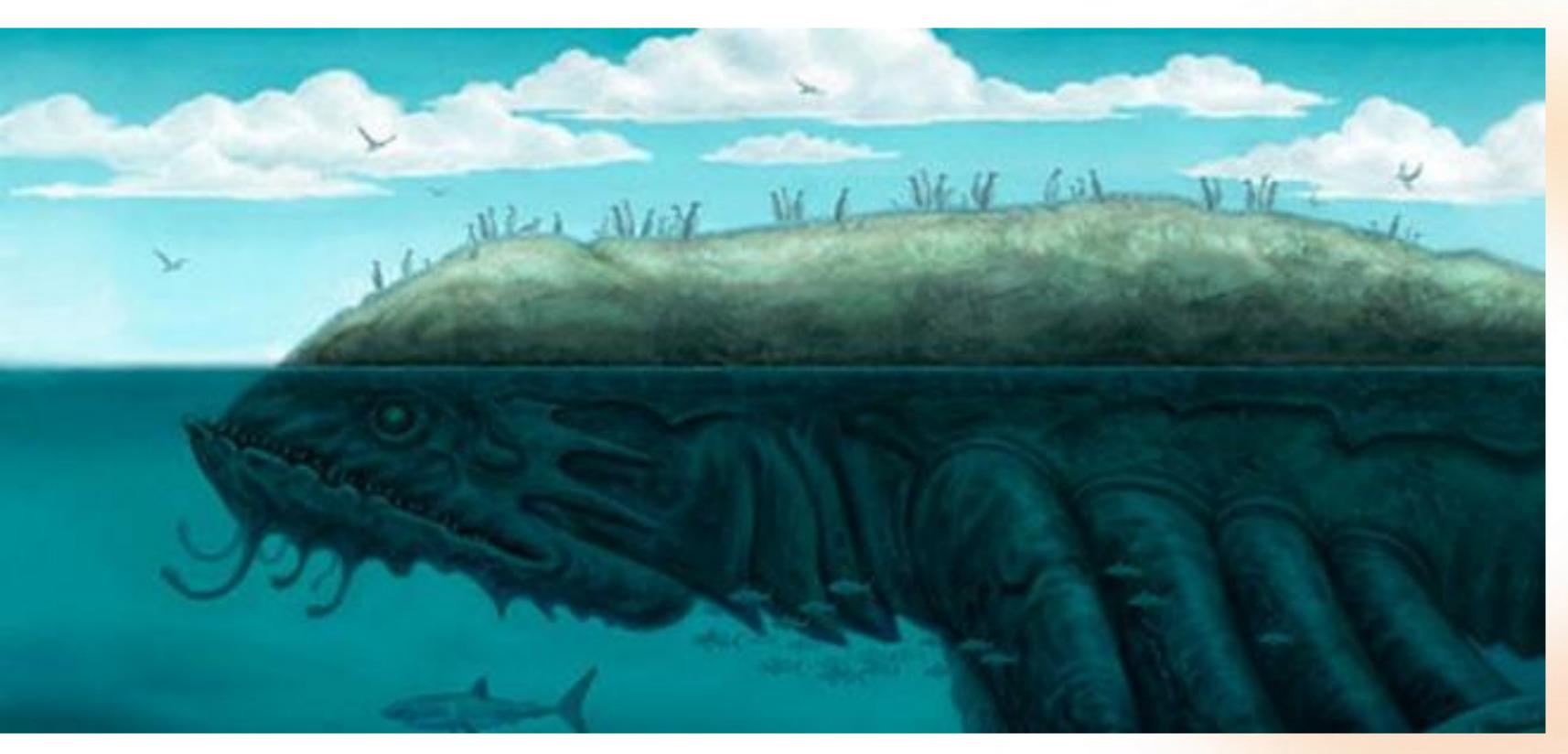
Example from Coventry University

Is this impact?

NO, It is part of the exploitation actions. It is still not an "enabler" for impact – so it can not be considered an outcome.



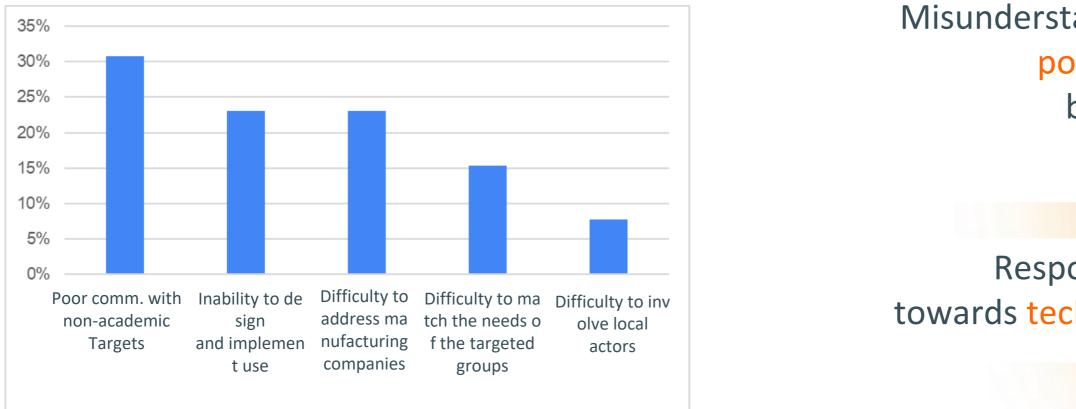
Usable R&D results are not mythological creatures





USE of R&D results in SSH (Case study – University of Macerata (September 2021)

Among researchers in SSH there seems to be resistance to seeking "non-academic" impacts of their research*.



* The output and impacts of social sciences and humanities research, Eric Archambault.

Survey on «Use and impact of R&D results in SSH - feedback from researchers - University of Macerata Settembre 2021.



December 2021 ©META Group, All Rights Reserved Misunderstanding of the use potential of a result beyond informing stakeholders

Responses show a bias towards technological results



Health service agencies, professional associations and unions used the information in assessing work environments, and either making or advocating for change.

Utilisation de mes travaux sur l'Amérique latine par les agents du Ministère des affaires étrangères dans la préparation de la nouvelle stratégie du Canada face à la région.

The research is used to assist aboriginal rights movements.

The results inform therapeutic interventions in a variety of health and educational organizations.

Used as a basis for advocacy by early learning and child care NGOs. I have brought music uncovered through that research to a wide public by editing and publishing it.

USE*

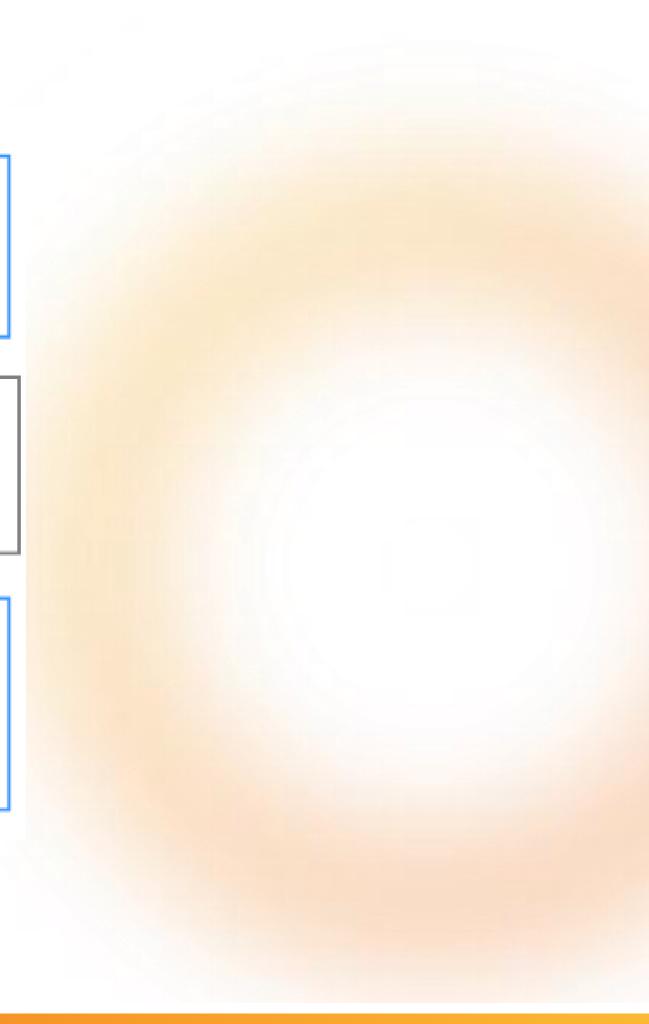
(examples)

A chapter of a book I published became the basis of major criminal law legislation in the UK.

> My research in development economics is sometimes used by researchers at the World Bank.

* The output and impacts of social sciences and humanities research, Eric Archambault.





Impact areas - SSH

Understanding, learning and participation

Creativity, culture and society

Social welfare

Public policy, law and services Health, wellbeing and animal welfare

Production

Practitioners and professional services



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Commerce and the economy

Environment

SSH* examples - cont

WORKALO (2001-2004) - Creation of new occupational patterns for cultural minorities: The Gypsy Case" generated effective partnerships between researchers and other stakeholders in improving employability.

Their labour insertion was more successful in comparison to other courses, with an 80% success rate, whereas these types of programme usually do not achieve more than a 20% rate for labor market inclusion.

*State of the art in the Scientific, policy and social impact of SSH research and its evaluation, IMPACT-EV



Why it does not happen - lessons learned from H2020 on impact

What to avoid when preparing a proposal! (Based on lesson learned from H2020)





What to have in **mind** when **designing** a project proposal in **HE**: Impact is linked to outcome - results - use of results



The **meteorite** is the **"KER"** The **planet** is the "destination" (transformation to be fostered, economic, societal, etc.)

"outcome" (thanks to the USE by the "target groups of KERs ")

"Effect" is the "benefit" derived from the "USE of a KER thanks to the implementation of a pathway to impact"



- "impact" is the long term "effect" enabled by the

Maximising impact: exploitation – dissemination



Exploitation

How to achieve impact!

Dissemination



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• is how to reach out problem owners, "customers"





«AMAZING» PROJECT RESULTS

≠

«AMAZING» IMPACT







No use no impact!



Results

Research Communities

Results' means any tangible or intangible effect of the action, whatever its form or nature, whether or not it can be protected, as well as any attached rights

Project results can be **reusable** and **exploitable as such**, or elements (knowledge, technology, processes, networks) that have potential to **contribute for further work** on research or innovation Data
Publications
Software
Prototypes
Pre-Standards

Industry, Innovators





Source EC

Meteorite: not just a result but the key exploitable result (KER) which can be used and create impact

- Responding to specific needs, to the demand of a well-defined group of "customers"
- Selected by the partners for use and/or market introduction

- A new service...
- input for standard...
- **Input for policy measures**
- New training courses...
- Input for a new project...
 - It is not a patent...



A prototype (product or process...)

USE

USE can be

commercial, societal, political or for improving public knowledge and action

Partners can:

exploit KERs themselves or

facilitate their use by third parties





USE - can be direct or indirect (both?)

Direct – by themselves:

- Background in further research activities (low TRLs);
- developing and selling a product or process (high TRLs);
- providing services (consultancy contract research);
- using results in standardisation activities;
- new policy measure (if the partner is a policy maker)

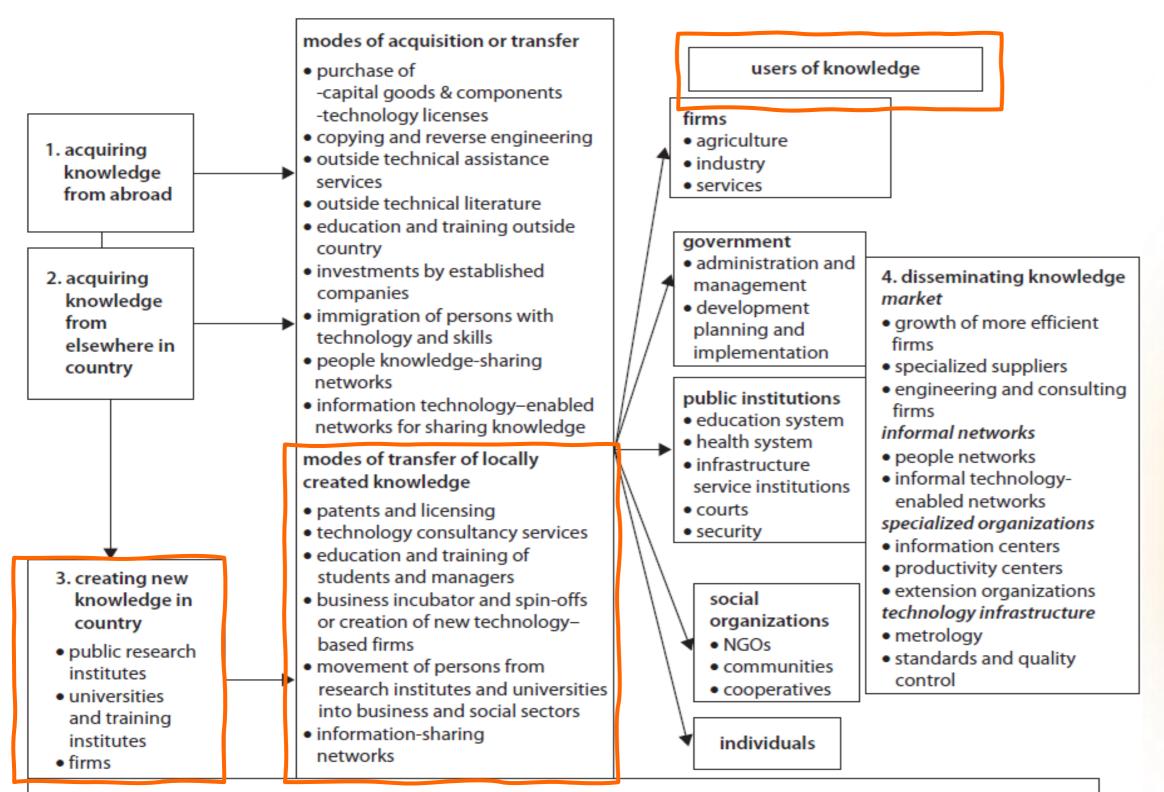
 - transfer of results;
 - licensing;



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Indirect - by third parties:

A spin-off is always linked to an indirect use



key enablers: economic and institutional regime, information and communications infrastructure, and education



December 2021 ©META Group, All Rights Reserved Fonte: Innovation Strategies of the BRICKS: Brazil, Russia, India, China, and Korea Brazil, Russia, India, China, and Korea: Different Strategies, Different Results – Carl J. Dalhman - 2008

knowled



IS NOT



IT IS how to achieve impact with long term sustainability



Exploitation - make use of – a sustainable «value» driven process

"Value/benefit" can have different meanings:

- Revenues (commercial use with customers ready to pay);
- Fulfilling an existing gap (not for profit, better services, improved) delivery processes, policies);
- Increase of the intangible assets in the organization/community (distinctive skill set, standards, etc.)

Contractual obligation



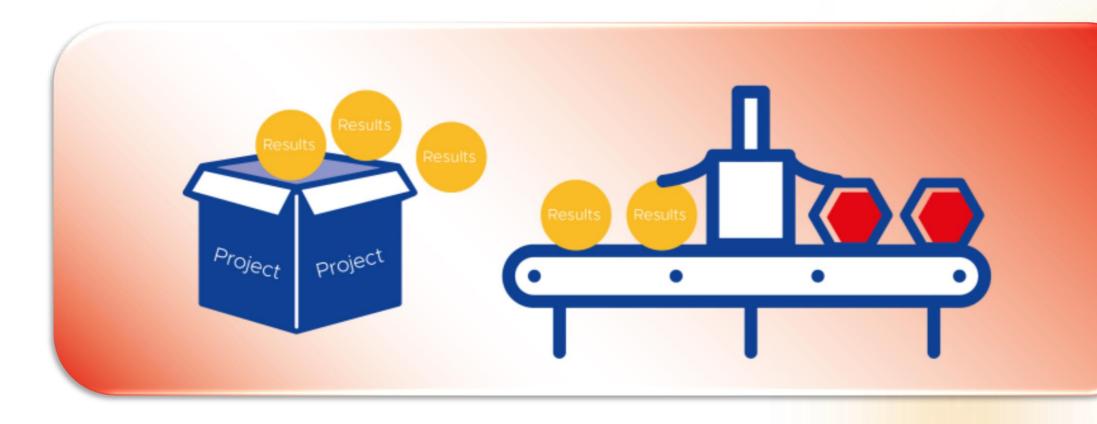
Proposal stage: focus on the pathway to impact

- "Logical steps towards the achievement of the expected impacts over time, in particular beyond the duration of a project".
- A pathway begins with the projects' results, to their dissemination, exploitation and communication, contributing to the expected outcomes in the work programme topic, and ultimately to the wider scientific, economic and societal impacts of the work programme destination."





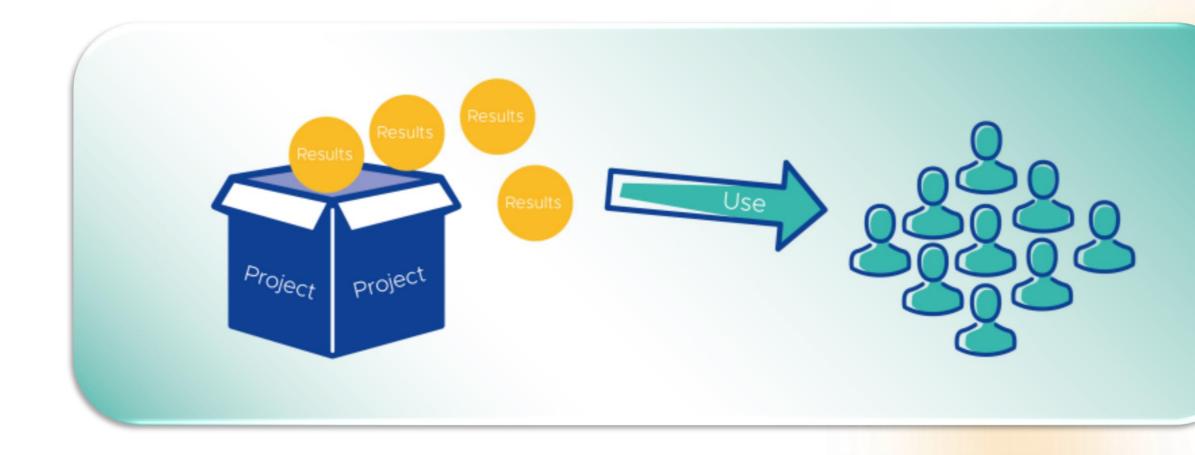
Exploitation focusing on early adopters and use model



The **use** of **results** in further research and innovation activities other than those covered by the action concerned, including among other things, commercial exploitation such as developing, creating, manufacturing and marketing a product or process, creating and providing a service, or in standardisation activities.



Dissemination focusing on early adopters (problem owners) and channels



The **public disclosure of the results by appropriate means**, other than resulting from protecting or exploiting the results, including by scientific publications in any medium.

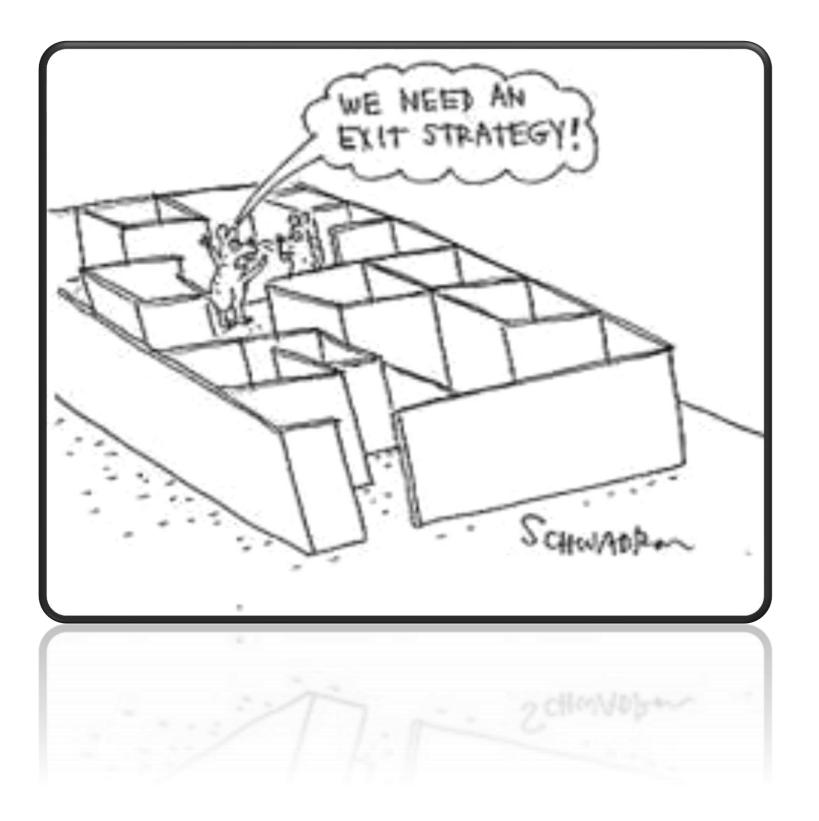


Communication targeting general public, stakeholders



Communication measures should promote the project throughout the full lifespan of the project. The aim is **to inform and reach out to society and show the activities performed, and the use and the benefits the project** will have for citizens.





Exploitation is not Dissemination is not Communication





For proposal writing: dissemination vs exploitation

Dissemination	
Describing and making available results so that they can be used	Making use of res
Audiences that may make use of results	Groups and entiti u
All results which are not restricted due to the protection of intellectual property, security rules or legitimate interests	All results ge Participant shall the results it own by and

Making results available

Facilitating further use of results

Scientific publication Policy brief/marketing materials Workshops, demonstrations Trade fairs Online repository/portals Pitching events Standardisation committees



December 2021 ©META Group, All Rights Reserved Innovation management IP Management Data Management plan Business plan Patent License agreement

Exploitation

esults, for scientific, societal or pomic purposes

ties that **are making concrete** use of results

generated during project I make best efforts to exploit ons, or to have them exploited nother legal entity

Making use of results

PhD thesis/ post Spin-off/ Start-up Further R&D Manufacturing Service provision Contract research Direct sales Educational activities Policy making - standard

For proposal writing: communication vs dissemination

Communication	Disser
About the project and results	About r
Multiple audiences Beyond the project's community (include media and the public)	Audiences that may us work, e.g. peers (scient community), industry actors, professional org
Inform and reach out to society, show the benefits of research	Enable use and

Informing about project	Informing about results	Mal
Newsletter	Videos	
Press release	Articles in magazines	
Project factsheet,	Event presentation	
brochures	Project website	
Project website	Online repository	
Social media		
TA December 2021		



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emination

results only

ise the results in their own ntific of the project 's own ry and other commercial rganisations, policy makers

d uptake of results

aking results available for use

Scientific publication Policy brief/roadmap Workshops demonstration

Exhibitions/open days/guided visits

Participation to trade fairs

Something to be considered for dissemination – the pitch

To secure **resources** it is key to convince the director of our department or division or an investor.

Consider to present your KERs and rise interest in a very short time.

Prepare a pitch avoiding science, highlighting novelty and added value, showing confidence and facts.

Validation tasks will be key to collect data for your pitch and UVP







Please take a 10 minutes break...





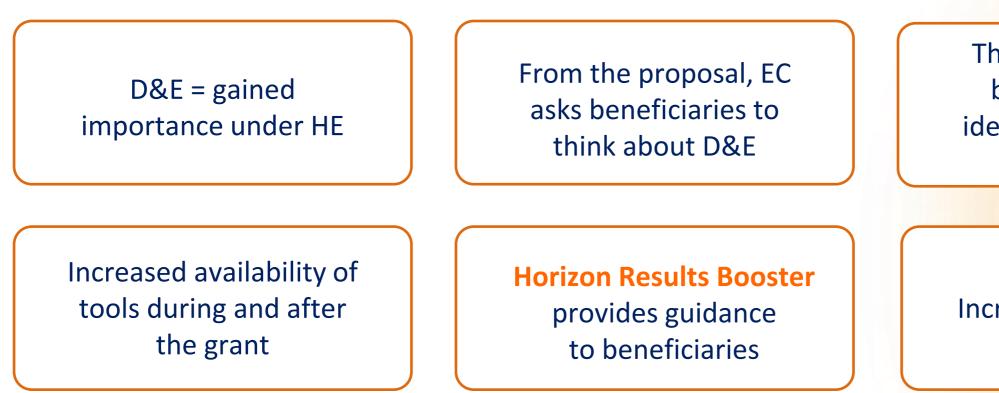


The impact section

Andrea Di Anselmo 10.10 - 11.00



Let's keep in mind HE's novelties compared to H2020





December 2021 ©META Group, All Rights Reserved The proposal form has been redesigned to identify the role of each partner

HRP TV Increased trainings and webinars

Working on the proposal – IMPACT SECTION (section 2)

Project's pathways towards impact (2.1)

- a narrative explaining how the project's results are expected create a benefit beyond the project timeline, with its unique contribution towards:
 - the outcomes
 - the wider impacts (scientific, economic/technological, societal)
- the target groups specific and detailed
- requirements and potential barriers

Measures to maximise impact – C&D&E (2.2)

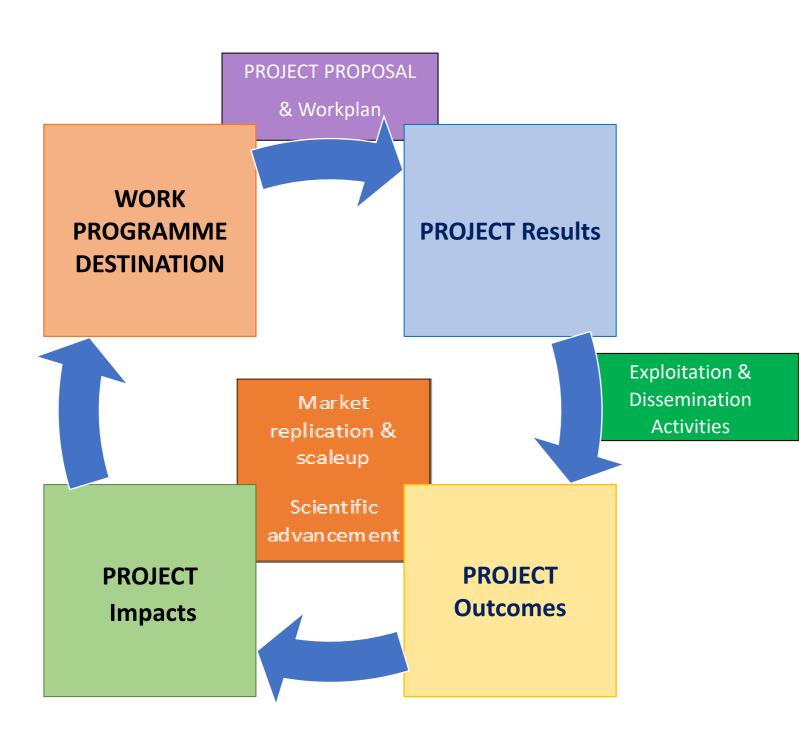
- Planned measures a first version of the 'plan for the dissemination and exploitation" including communication activities (keep in mind differences and highlight KPIs).
- Outline the strategy for the management of intellectual property

Impact Canvas (2.3)

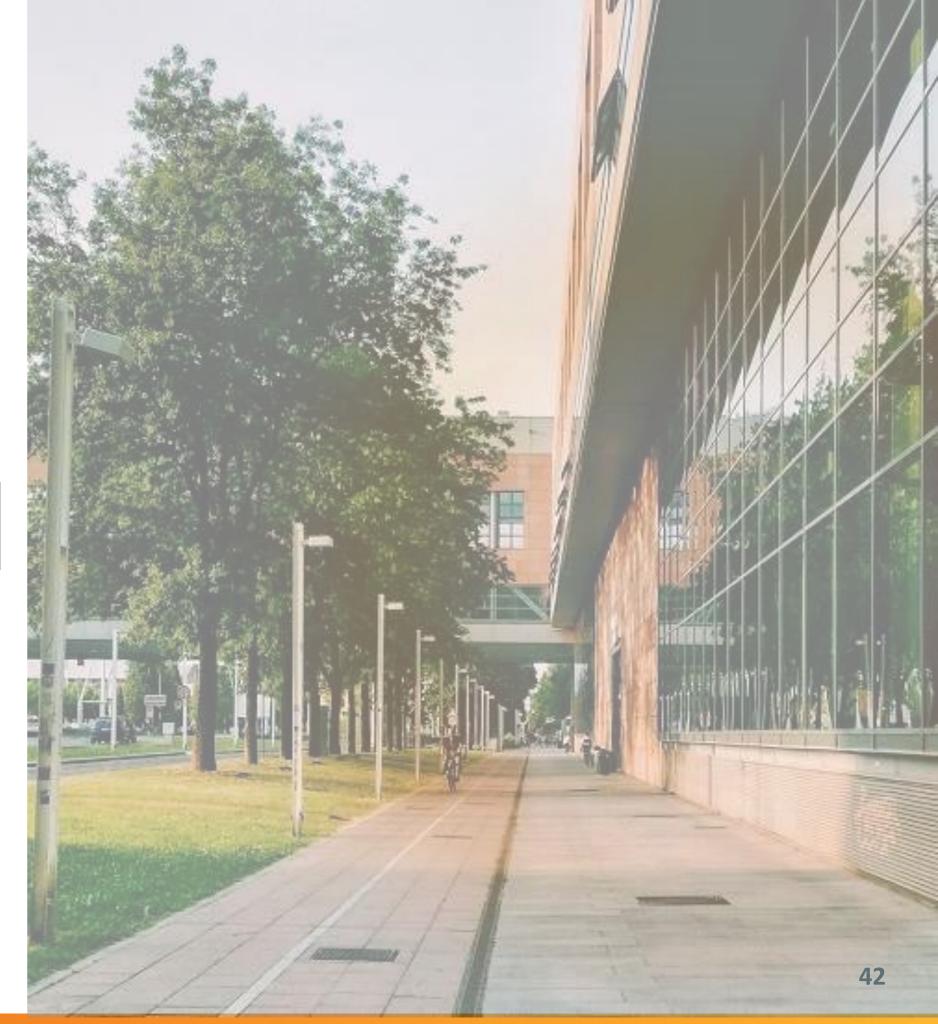
• Summary of the key elements of the project impact pathway and of the measures to maximise its impact.



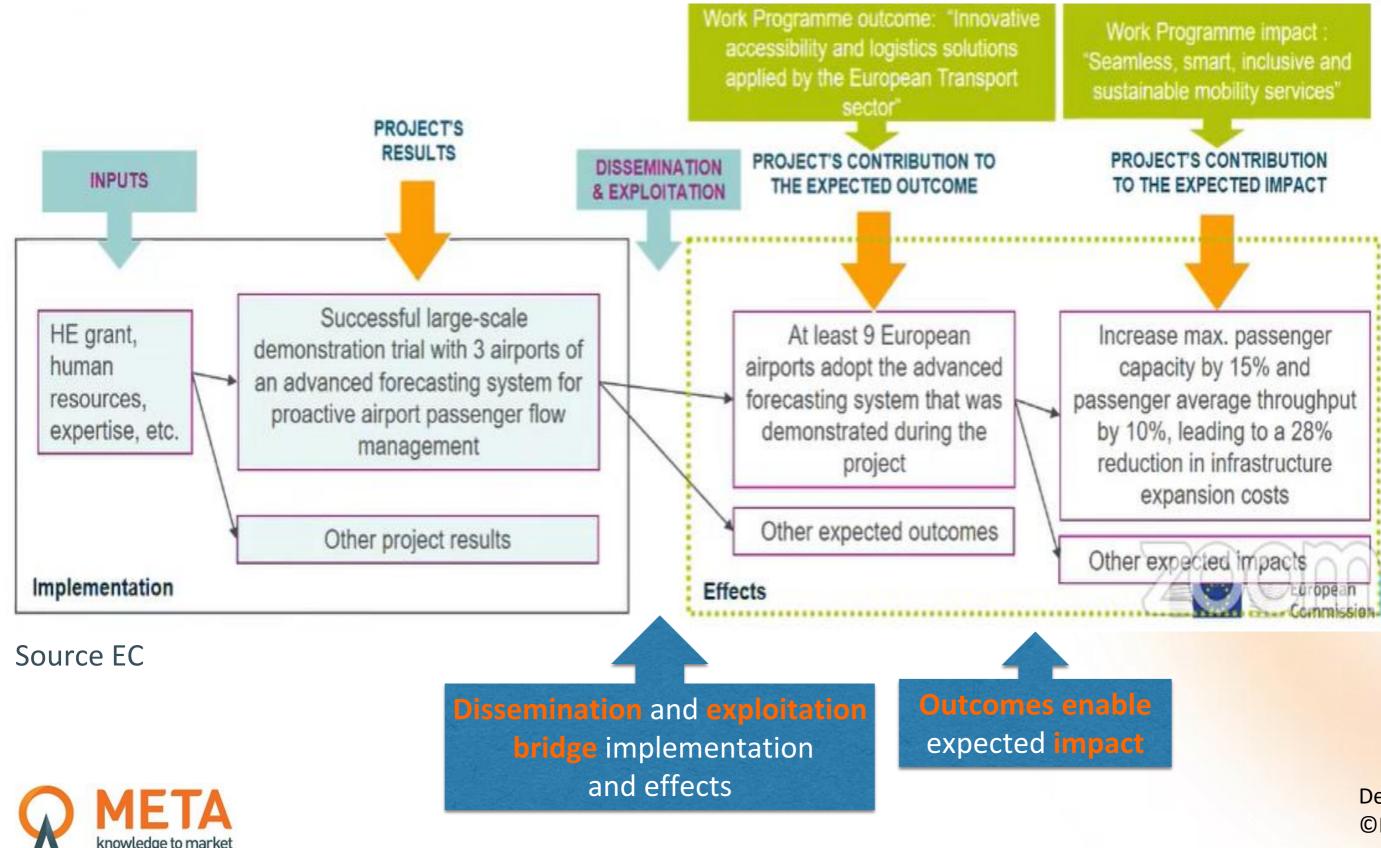
2.1 – the impact cycle tool







Overall picture on impact - an example from the Commisison



Outcomes - igniting long term impact

Outcomes

- The expected effects, over the short-medium term, of a project.
- **Results** contribute to outcomes, fostered by the **dissemination** and exploitation **measures** (uptake, diffusion, deployment, and/or use of the project's results by **direct target groups**).
- **Outcomes generally** occur **during or shortly after** the end of the project.

Pathway to impact

Logical steps towards the achievement **of the expected impacts**

A pathway begins with the **projects' results, to their dissemination, exploitation and communication.**





Example for outcomes: 9 European airports adopt the advanced forecasting system demonstrated during the project.

Impact in Horizon Europe

Impact

Wider long term effects on society (including the environment), the economy and science,

It refers to the **specific contribution** to the work programme's expected impacts described in the destination.

Impact is <u>enabled</u> by the <u>outcomes</u> of R&I investments and generally occurs some time after the end of the project.



Example for impact: airports increase max passenger capacity by 15% and passenger average throughput by 10%, leading to a 28% reduction in infrastructure expansion costs



2.2 – describe measures to maximise impact

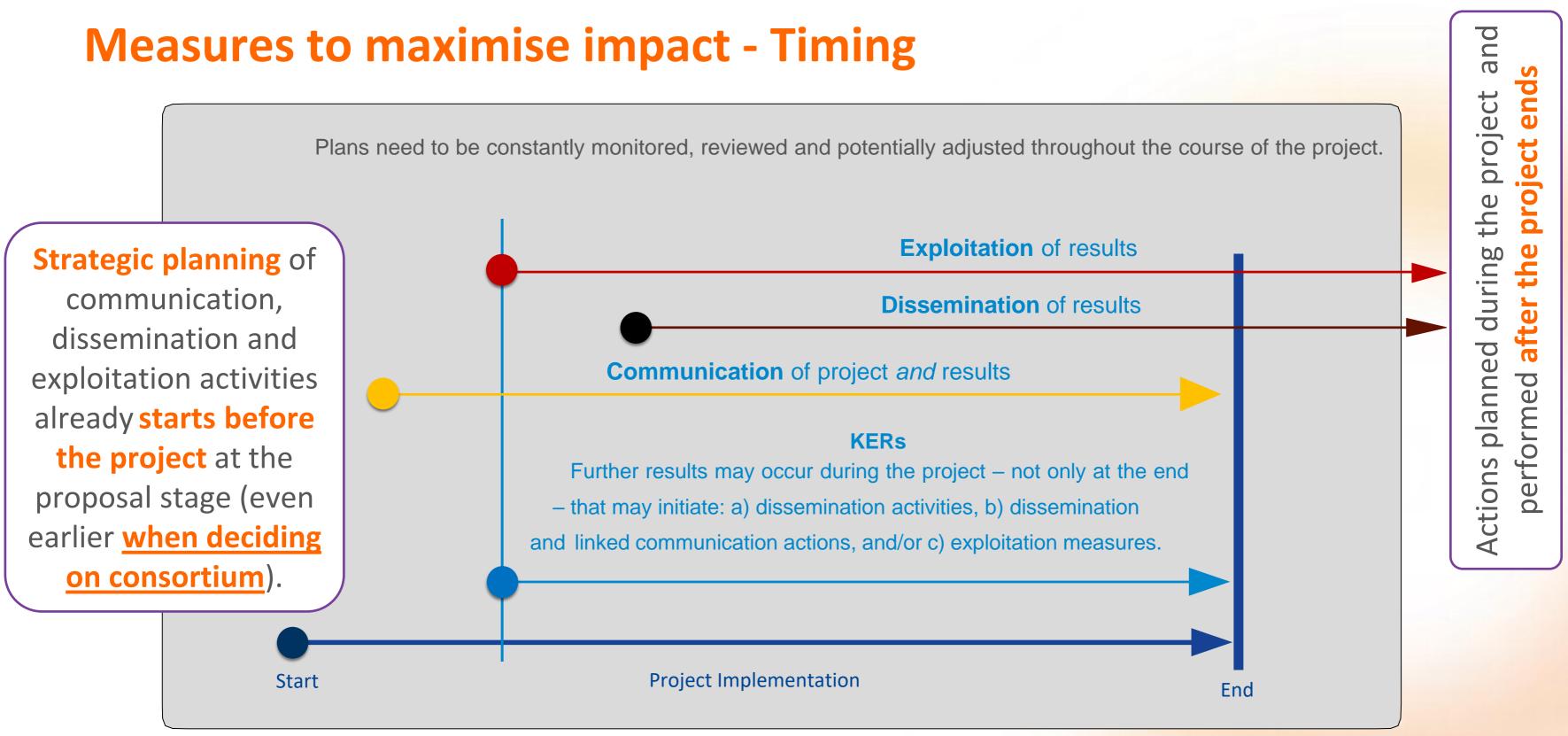
Dissemination, exploitation and communication

To include a draft plan in proposal is an admissibility condition, unless the work programme topic explicitly states otherwise.

All measures should be proportionate to the scale of the project, and should contain concrete actions to be implemented both during and after the end of the project

Elements of the D&E&C plan

- Planned measures to maximise the impact of projects
- Target groups (e.g. scientific community, end users, financial actors, public at large) and proposed channels to interact
- Communication measures for promoting the project and its findings throughout the full lifespan of the project
- Policy feedback measures to contribute to policy shaping and supporting the implementation of new policy initiatives and decisions
- Follow-up plan to foster exploitation/uptake of the results





2.3 Impact canvas

SPECIFIC NEEDS	EXPECTED RESULTS	D & E & C N
What are the specific needs that triggered this project?	What do you expect to generate by the end of the project?	What dissemination, communication meas to the results?
	List Here the Key Exploitable results (KERs) you are planning to develop by the end of the project, to respond to the call.	
TARGET GROUPS	OUTCOMES	IMPA
 Who will use or further up-take the results of the project? Who will benefit from the results of the project? Provide a first list of potential "customers" of the expected KERs, considering how you are planning to bring them into use. 	of project results to the target group(s)?List here	What are the expect economic and socie project contributing impacts outlined i destination in the wor List Here havin outcomes.



MEASURES

n, exploitation and asures will you apply

scribe here how you o use the KERs. For you using them side the partnership? Have you already an eminate KERs?

Have you an idea icate the project.

ACTS

cted wider scientific, ietal effects of the g to the expected in the respective ork programme? ving in mind the



No use no impact







Characterisation Table

- A tool to define information for each KER
- It summarises the main features of a KER and on the proposed exploitation route.
- It follows a problem oriented (demand driven) logic, it does not focus on the scientific dimension of the KER but offers a snapshot of the key elements to be considered when dealing with use.
- Information summarised in the characterisation table is the base for the **D&E** plan/business plan for the result.



Characterisation Table

- problem addressed and alternative solutions
- unique value proposition
- description of the KER.



Profiling Key Exploitable Results (KERs) 1/3

KER - Problem	The problem you are addressing (the problem your "Customer" is meant here as the people, companies who own the problem and will use /adopt the result
KER - Alternative solution	How your customer, the problem owner, has solved or is attempting to solve it today.
KER – UVP, USP	The competitive advantages , what your solution/ (innovative aspects), what distinguishes competition/current solutions?
KER - Description	Your solution/finding (i.e. product, service, procespolicy recommendation, publication, etc.). Illustrates solve "customers" problem/s.



""customer" has). es, organisations, etc. lt.

d the problem so far

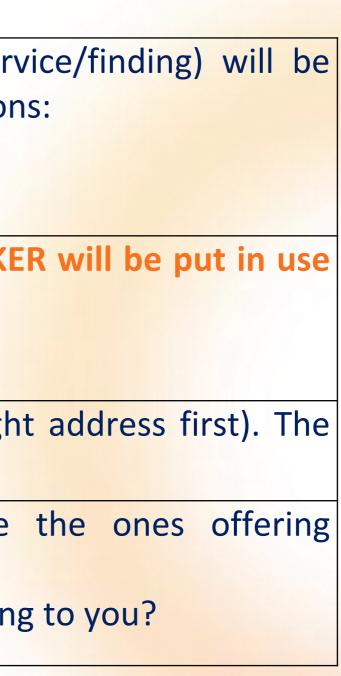
/finding does better it from the

ss, standard, course, te how your solution

Profiling Key Exploitable Results (KERs) 2/3

Market – Target	The market in which your solution (product/services used/can "compete", answer the following question - What is the size?
market	- Who are the customer segments?
Go to Market –	Explain what is your "business model", how the Ki
Use model	(made available to generate an impact).
Market - Early adopters	Who might be the early adopter (those you might ones who fill the problem harder.
Market - Competitors	Who are your "competitors" (note: they are "alternative solutions)? What are their strengths and weaknesses comparin





Profiling Key Exploitable Results (KERs) 3/3

Go to Market – IP	What is the Background (type/partner)? Provide information considering also what already a Consortium Agreement.
Go to Market – IP	What is the Foreground (type/partner)? Provide information considering also what already a Consortium Agreement. Need to sign further agreements?
Go to Market – Timing	What is the time to market?





OUTCOME TABLE

Use model	Early adopters	Partner(s)	Expected outcomes	Project outcomes	Linked WP
KER 1					
KER 2					
KER 3					



IMPACT TABLE

Impact category	Expected IMPACTS	PROJECT contribu
Economic		
Scientific		
Societal/ environmental		





Paving the way to sustainability - Roadmap

- The highest risk a consortium faces is not being able to **implement** the exploitation and dissemination plan and increase the TRL or go to market, due to lack of resources.
- The exploitation roadmap is designed to mitigate this risk and focus on the "pathway" to pave to way toward use and a stronger impact.
- The roadmap helps the consortium to identify actions and their **planning** after the **end** of the project.



Exploitation roadmap

KER 1	
Actions	Briefly describe actions planned to be executed 3-6 mont
Roles	Roles of partners involved in the actions defined above.
Milestones	List the milestones and KPIs to be used for monitoring t
	listed above. Add timeline.
	Costs estimated to implement actions. They should be do
Costs	 Time spanning between the End of the project and the First invoice – scale up (Fixed C + Variable C).
Revenues	Projected revenues and eventual profits once the KER defined considering:
	 Time spanning between the End of the project and the Go to market (revenues coming and increasing).
Financial	Resources needed to bridge the investment needed to in
coverage	is used.



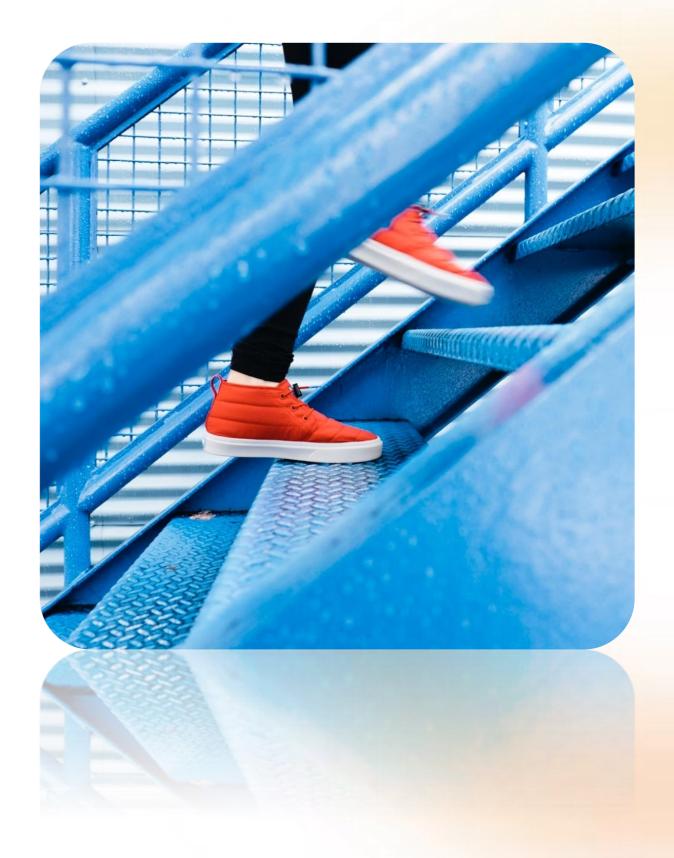
ths after the end of the project.

- the implementation of the actions
- lefined considering two timelines: e Go to market.
- will be used. Revenues should be
- e Go to market (no revenue).
- increase TRL and ensure the result

HE – Workplan: Key documents/information related to impact 1/2

- A 'plan for D&E&C activities' to be provided (mandatory project deliverable) within 6 months after signature date. It shall be periodically updated with the project's progress.
- Outline of the strategy for IP management, foreseen protection measures (patents, design rights, etc.), and how these will be used to support exploitation (use).
- Appropriate consortium agreement to manage ownership and access to key knowledge (IPR, research data etc.).
- Must indicate the owner(s) of the results (results ownership list) in the final periodic report.







The Horizon Results Booster







- Services for FP7, H2020 and HE projects (ongoing and closed) free of charge, supported by the European Commission
- Services can be requested "à la carte"
- Access from the platform <u>https://www.horizonresultsbooster.eu</u>

3000 services available until end of 2024

META is the main contractor for the service delivery





Horizon Results Booster - Services

HRB provides a set of support services free of charge to boost impact of EU projects:

Dissemination

- **PDES-A**: create a Project Group (PG) and a portfolio of results for joint dissemination.
- **PDES-B**: prepare a joint dissemination plan and video.

Exploitation

- **PDES-C**: define/improve the exploitation strategy.
- **BPD**: draft/finalize the business plan.



Info at https://www.horizonresultsbooster.eu

Go to Market

- Pitching
- IPR support
- Innovation Management
- Exploitation options
- Business services (commercialisation plan, business plan evaluation, startup creation)
- Access to non-EU funding

Thanks for your time

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