

Impact in H2020 SC1 The Impact criterion
Impact according to the EC Parts of the impact section in the application How to focus impact in designing a proposal 2. Examples of funded projects The evaluators' opinion 3. Concluding remarks

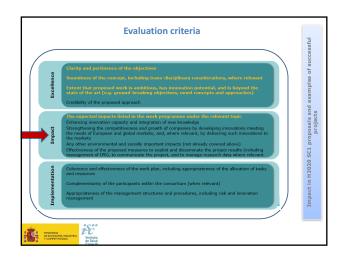
HINSTERO DE ECONOMÍA, NOLISTRIA POR CESTIVADO CESTIVADO

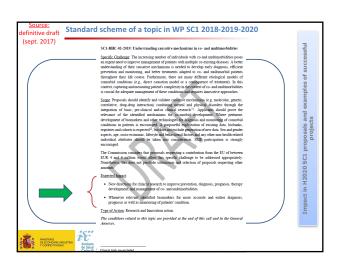
- 1. Impact in H2020 SC1 The Impact criterion
 - Impact according to the EC
 - Parts of the impact section in the application How to focus impact in designing a proposal

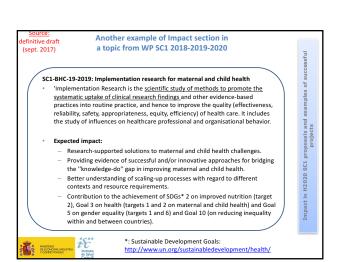
Impact in H2020 SC1 proposals and projects

- 1. The evaluators' opinion
- 3. Concluding remarks









Part B of a research project application 1. Excellence (science and technology) Impact in H2020 SC1 proposals proje Quality and Efficiency of the Implementation Members of the Consortium **Ethics and Security Issues** iE **Expected impact on** Related to the impact indication in the work programme Enabling and improving innovation capacities (new knowledge, knowledge transfer, evidence based policy making, policy innovations) <u>EU-</u> <u>level!!!</u> • Barriers/obstacles/assumptions/risks (at market/society level, not at project level) Measures to maximize impact Dissemination and exploitation of R&D results Transfer of R&D results Impact in H2020 SC1 proposals and projects Sustainability of impact? Knowledge management strategy (data management, IPR?, open access!)

Clarifying definitions Dissemination is the public disclosure of the results of the project in any medium. Disclosure may sound passive, like a shop opening up, but it is an activity, like a shopkeeper attracting customers. It is a process of promotion and awareness-raising right from the beginning of a project. It makes research results known to various stakeholder groups (link) research peers, industry and other commercial actors, professional organisations, policymakers) in a targeted way, to enable them to use the results in their own work. This process must be planned and organised at the beginning of each project, usually in a dissemination plan. 2. Exploitation is the use of the results during and after the project's implementation. It can be for commercial purposes but also for improving policies, and for tackling economic and societal problems. SC1 Communication means taking strategic and targeted measures for promoting the action itself and its results to a multitude of audiences, including the media and the public, and possibly engaging in a two-way exchange. The aim is to reach out to society as a whole and in particular to some specific audiences while demonstrating how EU funding contributes to tackling societal challenges. Impact iE Part B - Impact, of a research project application Please be specific, and provide only information that applies to the proposal and its object Wherever possible, use quantified indicators and targets. Describe how your project will contribute to: \circ each of the expected impacts mentioned in the work programme, under the relevant topic; on any substantial impacts not mentioned in the work programme, that would enhance innovation capacity, create new market opportunities, vireughen competitiveness and growth of companies, address issues related, to, climate change or the environment, or bring other important benefits for society. Describe any patrietwo-basteles, and say framework, sonditions (such as regulation, standards, public acceptance, workforce considerations, financing of follow-up steps, cooperation of other links in the value chain, that may determine whether and work extent the expected impacts will be achieved; (This should not include any risk factors occurring implementation, as covered in exciton 2.2). SC1 proposals an projects Measures to maximise impact a) Dissemination and exploitation of results Provide a draft 'plan for the dissemination and exploitation of the project's results' Please note that such a draft plan is an <u>admissibility condition</u>, unless the work programme topic explicitly states that such a plan is not required. Show how the proposed measures will help to achieve the expected impact of the project. MINISTERIO DE ECONOMÍA, INDUSTRIA Y COMPETITIVIDAD Part B - Impact, of a research project application (II) Now plan for the dissemination and exploitation of the project's results is key to maximising their impact. This plan should describe, in a concrete and comprehensive manner, the area in which you expect to make an impact and who are the potential users of your results. Tour plan should accorde how you intend to use the appropriate channels of dissemination and interaction with potential users. • Your plan should give due consideration to the possible follow-up of your project, once it is finished. Its exploitation could require additional investments, wider testing or scaling up. Its exploitation could also require other per-conditions the regulation to be adapted, or value chains to adopt the results, or the public at large being receptive to your results. Include a business plan where relevant. As relevant, include information on how the participants will manage the research data generated and/or collected during the project, in particular addressing the following issues: H2020 SC1 o What types of data will the project generate/collect? o How will this data be exploited and/or shared/made accessible for verification and re-use? If data cannot be made available, explain why. Impact in o How will this data be curated and preserved?

 $\circ\,$ How will the costs for data curation and preservation be covered?

MINISTERIO DE ECONOMÍA, INDUSTRIA Y COMPETITIVIDAD

Part B – Impact, of a research project application (III) As of the Work Programme 2017 actions under Horizon 2020 participate in the 'Pilot on Open Research Data in Horizon 2020, except if indicated otherwise. Once the action has started for at application stage three bunefactors which do not optous, will need to create a more detailed Data Management Plan for making their data findable, accessible, interoperable and reusable (FAIR).² 4 You will need an appropriate consortium agreement to manage (amongst other things) the ownership and access to key incoveledge (IPR, research data etc.). Where relevant, these will allow you, collectively and individually, to pursue market opportunities arising from the project's results. riangle The appropriate structure of the consortium to support exploitation is addressed in section 3.3. Outline the strategy for knowledge management and protection. Include measures to provide open access (free on-line access, such as the 'green' or 'gold' model) to peerreviewed scientific publications which might result from the project. ♣ Open access publishing (also called golf open access) means that an article is immediately provided in open access mode by the scientific publisher. The associated costs are surally shifted researcher is afficiated, or to the flushing opensy supervine the reasont. Gold open access costs are fully slightle as part of the grant. Note that if the gold route is chosen, a copy of the publication has to be deposited in a reposition yar well. Opting out of the Open Research Data Pilot is possible, both before and after the grant signature. For further guidance on open research data and data management, please refer to the <u>H2020 Online Manual</u> on the Participant ust be granted to all scientific publications resulting from Horizon 2020 actions (in particular eviewed articles). Further guidance on open access is available in the <u>H2020 Online Manual</u> on the Part B – Impact, of a research project application (and IV) B. Self-archiving (also called 'green' open access) means that the published article or the final peer-reviewed manuscript is archived by the researcher - or a representative - in an online repository before, after or dongside is publication. Access to this article is often - but not necessary's - delayed ('embargo period'), as some scientific publishers may wish to recoup their investment by selling subscriptions and charging pay-pet-dominodarien for set during an exclusivity period Describe the proposed communication measures for promoting the project and its findings during the period of the grant. Measures should be proportionate to the scale of the project, with clear objectives. They should be tailored to the needs of different target audiences, including groups beyond the project's own community. Where relevant, include measures for public/societal engagement on issues related to the project. MINISTERIO DE ECONOMÍA, PIDUSTRIA Y COMPETITIVIDAD Writing an 'exploitation/business plan' Include a business plan where relevant Key partners: Think about the motivation of partnerships! — Who are you key partners, key suppliers? - Which resources do need from them? – Which key activities will they perform? Which value do we deliver to the customer? - Which of our customer's problems are we helping to - Which customer needs are we satisfying? H2020 SC1 Please notice: Dissemination: Towards professionals Communication: Towards society MINISTERIO DE ECONOMÍA, INDUSTRIA Y COMPETITIVIDAD

About the 'Business Plan' Due to space limitation and following the recommendations from the EC (Document "Clarification for NMP+B project proposers and evaluators on "Business Plan" and "Synergies with ESIF"), only key aspects of the business plan can be briefly presented and main projections could be focused on total potential market in Europe and other major markets. It is also important to highlight that the full exploitation of results goes beyond economic and commercial value-making process, and also includes generation of inputs for future research, creation of novel norms and standards, innovative practices for the whole sector, etc.. t in H2020 SC1 proposals and projects Parts of the 'Business Plan' (be clear, support on facts and data, make well-based realistic projections, illustrate the evaluators with tables) 5-7 pages in part B Title: Outline of business plan Title: Outline of business plan Planned key exploitable results and their expected key areas of applications Description of the relevant market Business model: production/commercialisation by an involved SME? Direct selling? Licensing? Who will be in charge? Financial projections Commercialization roadmap Risk assessment Eventually: Alternative funding, sustainability Impact iti Impact in H2020 SC1 proposals an projects 2 examples of successfully evaluated projects (call H2020 SC1 2017) MINISTERIO DE ECONOMÍA, INDUSTRIA PERÍTURA DE SOUPERITIVIDAD DE SOUPERITIVIDAD DE SAUL SC1-PM-10-2017:Comparing the effectiveness of existing healthcare interventions in the adult population (I) ions in the adult population (1) Sessific Chillenge: Effective beath are and prevention may be improved by additional verificace as to the most effective health interventions. Growing numbers of patients affected by chronic diseases also call for efficiently munsaigng co-morbidities. Segge: Proposals banded compare the see of currently available preventains or the first operation of the first operation of the first operation of the first operation of the first one reproduct, preference will be given to proposals foresting on interventions to be the first one proposals foresting on interventions with high public health relevance and section-excessing major, i.e. interventions addressing conditions after a particularly frequent, may lead to co-morbidities, have a high negative impact on the quality of life of the individual ander are associated on this gainfarine cross or where avarage can be achieved. And ander are associated on the impression of the other of the control of the co Impact in H2020 SC1 proposals and projects The Commission considers that proposals requesting a contribution from the EU of between EUR 4 and 6 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other MNISTRADO DE ECONOMÍA, NOUSTRIA V COMPETITIVEMO DE SAÍLIDE Instituto DE SAÍLIDE DE SAÍLI

SC1-PM-10-2017:Comparing the effectiveness of existing healthcare interventions in the adult population (II)

Expected Impact: This topic is to provide the required evidence base for

- · more effective and safer interventions at individual and population level;
- enhanced compliance with healthcare interventions in the adult population;
- the use of health technology assessment methodology in this target group.

In particular:

- Improvement of individual patient outcomes and health outcome predictability through tailoring of interventions.
- Improvement of guideline development for prevention or treatment of diseases and the management of comorbidities.

SC1

H2020 SC1

· Provision of more accurate information to patients, caregivers and prescribers.

Type of Action: Research and Innovation action

The conditions related to this topic are provided at the end of this call and in the General Annexes.



SC1-PM-10-2017: Comparing the effectiveness of existing healthcare interventions in the adult population (II)

Expected Impact: This topic is to provide the required evidence base for:

- more effective and safer interventions at individual and population level;
- enhanced compliance with healthcare interventions in the adult population;
- enhanced compliance with healthcare interventions in the adult population
 the use of health technology assessment methodology in this target group.

In particular:

- Improvement of individual patient outcomes and health outcome predictability through tailoring of interventions.
- Improvement of guideline development for prevention or treatment of diseases and the management of comorbidities.
- Provision of more accurate information to patients, caregivers and prescribers.

Type of Action: Research and Innovation action

The conditions related to this topic are provided at the end of this call and in the General Annexes.





Success Example 1 to Topic SC1-PM-10-2017 Proposal abstract

The present proposal aims to identify, compare, and rank the most effective and costeffective self-management interventions (SMIs) for adults in Europe within four highpriority chronic conditions: type 2 diabetes, obesity, chronic obstructive pulmonary diease,
and heart failure. This project addresses an important gap in current knowledge applying
network meta-analysis, an extension of meta-analysis methodology that allows multiple
(rather than pairwise) comparisons of intervention effectiveness, to randomised controlled
trials (RCIs) that meet the study inclusion criteria. This centralised analysis of an estimated
4000 RCTs will substantially help to overcome current problems associated with the
dispersion and duplication of evidence. The work will be based on a validated taxonomy of
SMIs and will prioritise outcomes from the patients' perspective. In addition, a costeffectiveness of the most effective SMIs will be estimated to provide insights into the
economic consequences of adopting SMIs for societies, healthcare budgets, and patients.
Contextual factors associated with successful interventions will also be studied. Drawing on
our results, we will develop and pilot decision—making tools for adialitate accessor to evidencebased information on the most effective SMIs to key users through a user-friendly
interactive platform. A multi-component strategy for exploitation of the research findings
will lead to clear business cases for implementing it in different contexts within the
heterogeneous EU health system. The end goal of the project is to have an impact in
supporting policy-makers, guideline developers, researchers, industry, professionals and
patients to make informed decisions on the identification and implementation of the most
suitable SMIs, therefore contributing to the diffusion of the knowledge, healthcare
sustainability and equity and promoting EU competitiveness in a globally emerging market

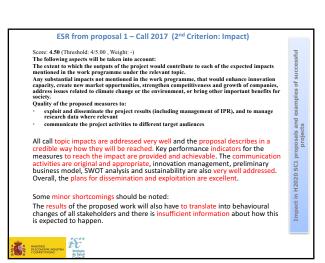




•

7

ESR from proposal 1 – Call 2017 (First Criterion: Excellence) Score: 4.50 (Threshold: 4/5.00 , Weight: -) The following aspects will be taken into account, to the extent that the proposed work corresponds to the topic description in the work programme: Clarity and pertinence of the objectives Soundness of the concept, and credibility of the proposed methodology Extent that proposed work is beyond the state of the art, and demonstrates innovation potential (e.g. ground-breaking objectives, novel concepts and approaches, new products, services or business and organisational models) Appropriate consideration of interdisciplinary approaches and, where relevant, use of stakeholder knowledge The objectives are clear, well described and address a very important group of conditions with high public health relevance and socioeconomic impact as required by the call. with high public health relevance and socioeconomic impact as required by the call. The concept is sound and the proposed work will go well beyond state of the art and open avenues for the application of improved approaches to utilisation of existing knowledge. The proposal lays the foundation for a standardised collection of evidence in a very structured and systematic way, covering the gaps of current knowledge and enabling advancement across all stages of the process. It is based on a holistic combination of research and involvement of the relevant stakeholders. Patients are actively involved, which is a strength. There are some minor shortcomings. For example, the estimation that around n=4,000 RCTs would be retrieved is not sufficiently well supported. Some of the details of how the taxonomy will be modelled and built as a result of the analysis remain unclear. The same applies to the design of the decision support tool. The cost analysis is elaborated but lacks explanations how the benefits for the different stakeholders will be modelled.



ESR from proposal 1 – Call 2017 (3 rd Criterion: Implementation)		
Score: 4.00 (Threshold: 3/5.00, Weight: -)	3	
The following aspects will be taken into account:	SS	
 Quality and effectiveness of the work plan, including extent to which the resources assigned to work packages are in line with their objectives and deliverables 	ncce	
 Appropriateness of the management structures and procedures, including risk and innovation management 	of s	
 Complementarity of the participants and extent to which the consortium as a whole brings together the necessary expertise 	ples	
 Appropriateness of the allocation of tasks, ensuring that all participants have a valid role and adequate resources in the project to fulfil that role 	exam	
The consortium composition and the responsibilities are adequately explained. The work plan is very complex and features series of analyses of data, with a logical flow between work packages. There is good complementarity between participating partners and the task allocation is appropriate. The IP issues receive appropriate attention in a dedicated task.	1 proposals and examples of successful projects	
Some concerns about the implementation of the plan and its monitoring need to be mentioned:	2020 SC1	
There are multiple tasks for data mining activities, analysis, interpretation, and modelling of vast amounts of data and these tasks are highly interdependent. With this structure the risk of negative cascading effects seems high. The necessary monitoring of the smooth flow between tasks is not sufficiently addressed. The risks of delays appear underestimated and the contingency plans are not convincingly presented.	Impact in H2020	

SC1-PM-08-2017: New therapies for rare diseases (I) SC1-PM-08-2017: New therapies for rare diseases Specific Challenge: Rare diseases are diseases which affect not more than 5 per 10 000 persons in the European Union, as defined in the context of the EU legislation. A considerable amount of knowledge has been generated by biomedical research in recent years, yet most of the 6 000 to 8 000 rare diseases are lacking therapies despite many of these diseases being life-threatening or chronically debilitating. Specific problems posed in therapy development for rare diseases include the small and specine proteins posed in merapy development for rare diseases include the small and dispersed patient populations and the nature of the therapies proposed, which are often highly specialised and novel. Amongst other challenges, this leads to the requirement for seeking early advice of regulatory authorities during development. In addition, despite the special incentives for the development of orphan medicinal products, and the often high prices of some of the developed therapies, the limited market for such therapies lead to a low commercial return, and/or limited access.

in H2020 SC1 proposals and projects Impact

SC1-PM-08-2017: New therapies for rare diseases (II)

Scoge: Support will be provided to clinical trials on substances where orphan designation has been given by the European Commission, where the proposed clinical trial design takes into account recommendations from protocol assistance given by the European Medicines Agency, and where a clear patient recruitment strategy is presented. Clinical trials may focus on a range of interventions with an orphan designation, from small molecule to gene or cell therapy, may include novel interventions and/or reuproposing of existing and known interventions. The intervention must have been granted the EU orphan designation at the latest on the date of the full proposal call closure. A consider feasibility assessment justified by available published and preliminary preclinical or clinical results and supporting data shall also be provided. Appropriate plans to engage with patient organisations. Member States health authorities and considerations of efficacy/potential clinical benefit as well as early indication on health economies should be integrated in the application. In addition to the clinical trial, proposals may also include limited elements of late stage preclinical research and or experimental evaluation of potential risks which must be complementary/contribute to the clinical trial(s). The participation of SMEs is encouraged.

Selected proposals shall contribute to the objectives of, and follow the guidelines and policies

Selected proposals shall contribute to the objectives of, and follow the guidelines and policies of the International Rare Diseases Research Consortium, IRDiRC (www.irdirc.org).

The Commission considers that proposals requesting a contribution from the EU of between EUR 4 and 6 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other





SC1-PM-08-2017: New therapies for rare diseases (III)

Expected Impact: • In line with the objectives of the Union pharmaceutical legislation on orphan medicinal products, proposals shall contribute to advance the development of new therapeutic options with concrete benefits for patients living with rare diseases.

- Rapid progress in orphan drug development due to well-prepared clinical trials and a multinational multicentre clinical trial with an appropriate number of patients.
- Develop a preliminary assessment of the potential economic and public health aspects of the new therapeutic option
- Contribute to growth of SMEs involved in drug development.
- In line with the Union's strategy for international cooperation in research and innovation, proposals shall contribute towards IRDiRC objectives.

Type of Action: Research and Innovation action

The conditions related to this topic are provided at the end of this call and in the General



0000
ale
Instituto
de Salud

H2020 SC1 Impact in

Impact in H2020 SC1 proposals an projects

Success Example 2. Topic SC1-PM-08-2017 **Anonymised Proposal abstract**

Disease X is a rare brain cancer with one of the highest mortality rates. It is considered an orphan disease due to its low prevalence (less than 0.5 cases per 10,000 inhabitants in the EU) and the lack of plausible therapies. Based on the discovery of the XXXXXXX the SME XYZ (leading this application) defined a novel anticancer drug target, molecule X. An innovative activator, DrugA, was designed and showed safety and efficacy in preclinical and preliminar clinical studies. A first-in-man clinical trial I/Ila (ClinicalTrials.gov identifier #) further demonstrated its safety and efficacy in humans. The European Medicines Agency (EMA) designated DrugA orphan drug for the treatment of this specific brain cancer and approximately half of the patients wsubmitted to >2 months of treatment showed positive response.

The present project aims to perform a clinical phase IIB study to demonstrate DrugA efficacy against brain cancer, in its most aggressive form. In this context, a written formal report from the EMA after scientific advice and protocol assistance (aaaaaa2014) indicates that DrugA would obtain Conditional Marketing Authorisation if this phase-IIB study further demonstrates statistically significant efficacy, in addition this project will further investigate DrugA safety, mechanism of action and biomarkers for diagnosis, prognosis and response to treatment. These studies will let us (i) know the molecular basis underlying the response to DruGA treatment, (ii) define new biomarkers, (iii) design more efficacious personalized treatments and (iv) investigate therapeutic alternatives in patients who do not respond to treatment.



ESR from proposal 2 – Call 2017 (First Criterion: Excellence)

c: 4.00 (Threshold: 4/5.00, Weight: -)
following aspects will be taken into account, to the extent that the proposed work corresponds to the
description in the work programme:
Clarity and pertinence of the objectives
Soundness of the concept, and credibility of the proposed methodology

- avunumes of the concept, and creanisity of the proposed methodology Extent that proposed work is beyond the state of the art, and demonstrates innovation potential (e.g. ground-breaking objectives, novel concepts and approaches, new products, services or business and organisational models)
- The objectives of the proposal are clear and pertinent to the call.
- The sclentific concept seems sound and credible with relevant data provided that are supported by preclinical and an initial phase I/IAI clinical trial. The proposed methodology seems less credible, as a preclinical evaluation of the impact of the product formulation (which is not specified in detail) versus pure molecule (Ref. in, Biochim Biophys Acta, reports different activities of the R and S enantiomers on the proposed target) nor the pharmacokinetics of the 2 enantiomers has been discussed in the proposal. The propect could be too ambitious as it aims to perform dose optimization, subpopulation identification, as well as biomarker determination.
- The innovation potential is clear, with a new drug target discovered using an innovative therapeutic approach and a new mechanism of action.

 The interdisciplinary content of the proposal is good and highlighted by a well-constructed network. The use of stakeholders' knowledge such as patient organizations is only mentioned in a generic manner.





ESR from proposal 2 – Call 2017 (2nd Criterion: Impact)

Score: 4.50 (Threshold: 4/5.00, Weight:-)
The following aspects will be taken into account:
The extent to which the outputs of the project would contribute to each of the expected impacts mentioned in the work programme under the relevant topic.
Any substantial impacts not mentioned in the work programme, that would enhance innovation capac reate new market opportunities, strengthen competitiveness and growth of companies, address issues related to clinate change or the environment, or bring other important benefits for society.

- Quality of the proposed measures to:

 exploit and disseminate the project results (including management of IPR), and to manage research data where relevant

 communicate the project activities to different target audiences
- The outputs of the proposal would contribute to the expected impacts mentioned in the work program, although the benefit of the new drug for patients in terms of life expectancy and quality of life is not clearly described in the proposal. It will contribute to rapid progress in drug development, thus contributing to IRDIRC goals. Moreover, the proposal presents a preliminary assessment of the potential economic and public health aspects.
- It will strengthen the innovation capacity and improve the growth prospect of SMEs involved in the consortium, therefore generating a positive impact on their future development. The project might also have an important societal impact.
- The dissemination plan and communication strategy seem appropriate, although it should have listed a more detailed and direct link between the communication channels and the communication aims targeted to various audiences.





10

Impact

ESR from proposal 2 – Call 2017 (3rd Criterion: Implementation)

Score: 4.50 (Threshold: 45:00). Weight: -)
The following spects will be taken into account:

Ouality and effectiveness of the work plan, including extent to which the resources assigned to work packages are in line with their objectives and deliverables.

Appropriateness of the management structures and procedures, including risk and innovation management.

Complementarity of the participants and extent to which the consortium as a whole brings together the necessary expertise.

Appropriateness of the allocation of tasks, ensuring that all participants have a valid role and adequate resources in the project to fulfill that role

1. The work plan is effective, with sufficient details broken down into work packages, individual tasks, detailed deliverables, and milestones, with two WP interfaces being central to the implementation of the project.

2. There is a good presentation of the project management structure with sufficiently described decision taking procedures, although it was somewhat felt that, given the complexity of the project and the clinical study design, a number of shortcomings were present in the discussion about risks with the proposed adaptive design, after regulatory feedback will have been obtained.

3. The consortium partners' expertise sufficiently complements each other in the project execution, having significant experience in different parts of the work plan.

4. All the participants seem to have a valid role in the project, being involved in most of its tasks, and the task allocation and the corresponding budget well justified.

