

Assessing scientific, political and social impact of research and widening actions.

Explanation and practical cases

Workshop: The key factors for impact in strategic research and innovation funding in a view of widening actions

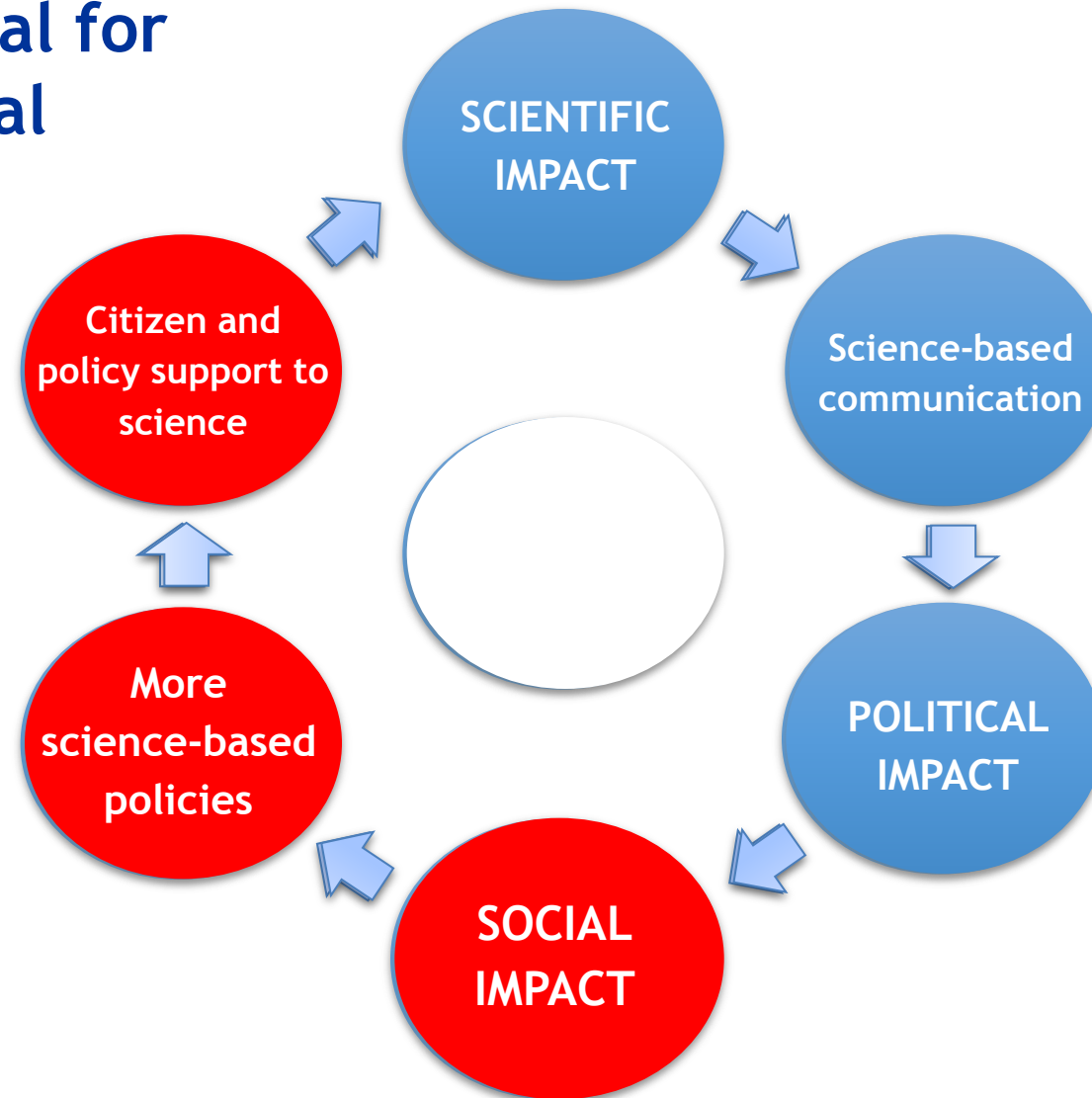
Tallinn, 10-11 October, 2017

Marta Soler-Gallart, CREA Community of Research
University of Barcelona

<http://crea.ub.edu>



**Social impact is crucial for
the social and political
support to science**

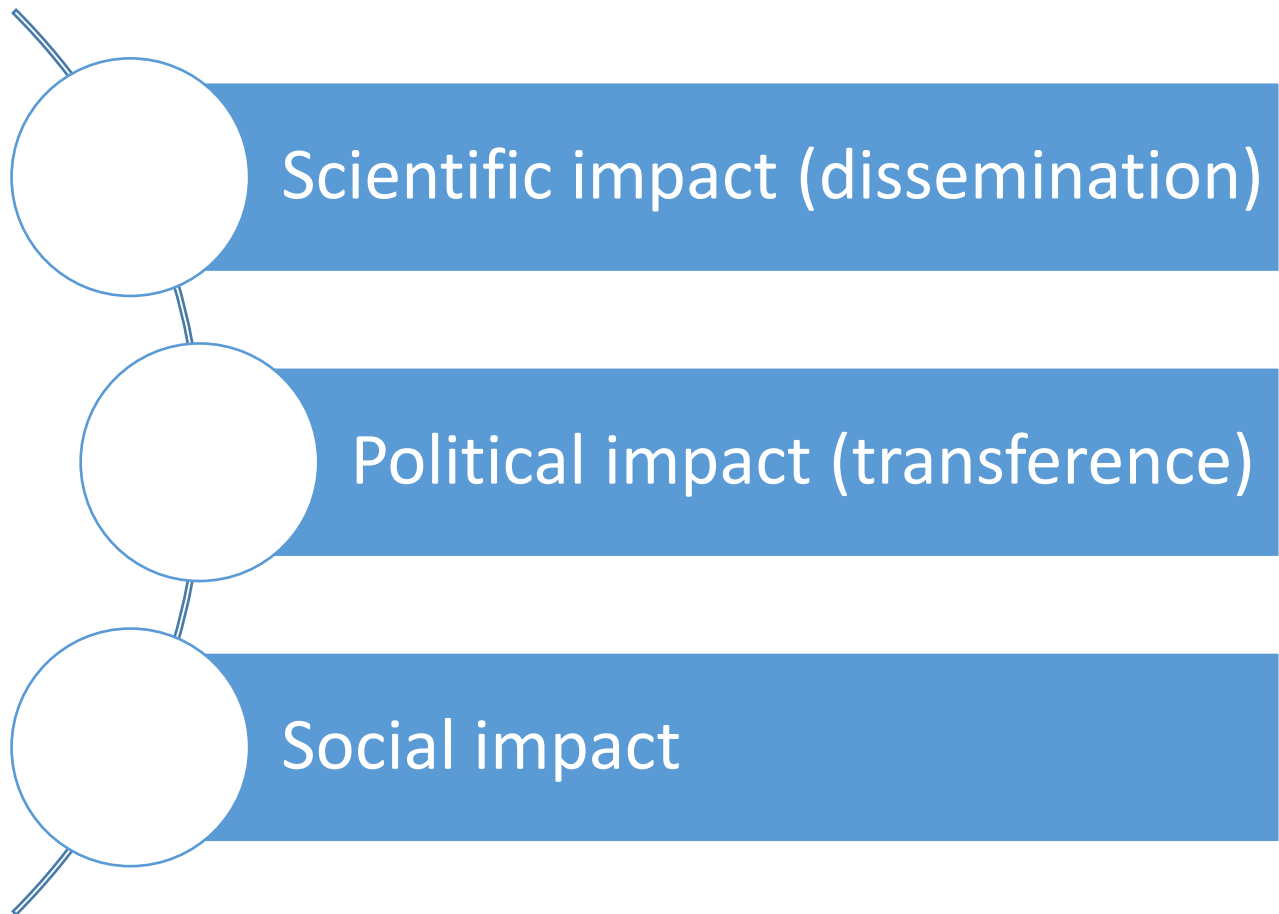




Scientific impact (dissemination)

Political impact (transference)

Social impact



When the scientific community (peers), but also institutions, NGOs and citizens and large get to **know the research results**.

When policy makers, institutions, companies and citizens at large **use the research results** to plan their interventions (or develop products).

When there is evidence of **social improvements** experienced by individuals and society (according to societal objectives) **resulting from** the transference of **the research results**.

Impact evaluation (last call FP6, FP7) Ex-post evaluation FP7, SSH



- On-line questionnaire, 473 SSH projects in FP6, FP7, HERA, NORFACE and ERC-Ideas
- Analysis of CORDA data
- Analysis of 162 SESAM reports from FP7 projects
- 26 interviews with main researchers
- 15 interviews with Officers from DG Research
- Bibliometric analysis of a projects' sample
- Webometric analysis of FP6 and FP7 projects

Case studies on Successful and Non successful FP7 SSH projects

- 14 Top Success and 8 Non successful projects
- Interviews to researchers, policy makers, stakeholders, and end users
- Analysis of documents

Comparative policy analysis of SSH National Evaluation Frameworks



- 12 case studies of European member states and Australia, US, Brazil
- 102 interviews with representatives of national agencies (i.e. NSF, HEFCE, ANR, CNPq etc.) and stakeholders



Interim evaluation H2020, Challenge 6

- Analysis of CORDA data
- On-line questionnaire (on steps done and planned to achieve social impact)
- Analysis of policy and H2020 documents



Development of impact indicators

- Integrative panels: scientific, political and social impacts
- Delphi panel on political impact
- Piloting on selection, monitoring and evaluation of SSH research in National Agencies (foreseen)

A review of literature on evaluating the scientific, social and political impact of social sciences and humanities research

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Benedetto Lepori³, Judith Mosoni-Fried⁷, Esther Oliver⁴,
Emilia Primeri¹, Lidia Puigvert⁴, Andrea Scharnhorst⁸,
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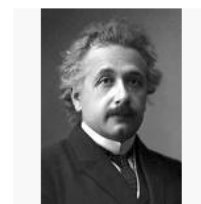
*Corresponding author. Email: emanuela.reale@ircres.cnr.it.

Abstract

Recently, the need to contribute to the evaluation of the scientific, social, and political impact of Social Sciences and Humanities (SSH) research has become a demand of policy makers and society. The international scientific community has made significant advances that have transformed the impact of evaluation landscape. This article reviews the existing scientific knowledge on evaluation tools and

Scientific impact assessment: metrics

- ✓ Impact factor (journal level)
- ✓ H-index (author level)



Albert Einstein

Institute of Advanced Studies, Princeton

[Physics](#)

No verified email



Title 1–20

Cited by

Year

[Can quantum-mechanical description of physical reality be considered complete?](#)

A Einstein, B Podolsky, N Rosen

Physical Review 47:401–404, 1935

12721

1935

Google Scholar



Citation indices

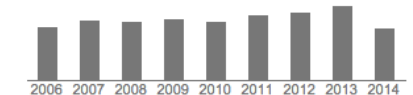
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Since 2009

Citations 86302 28107

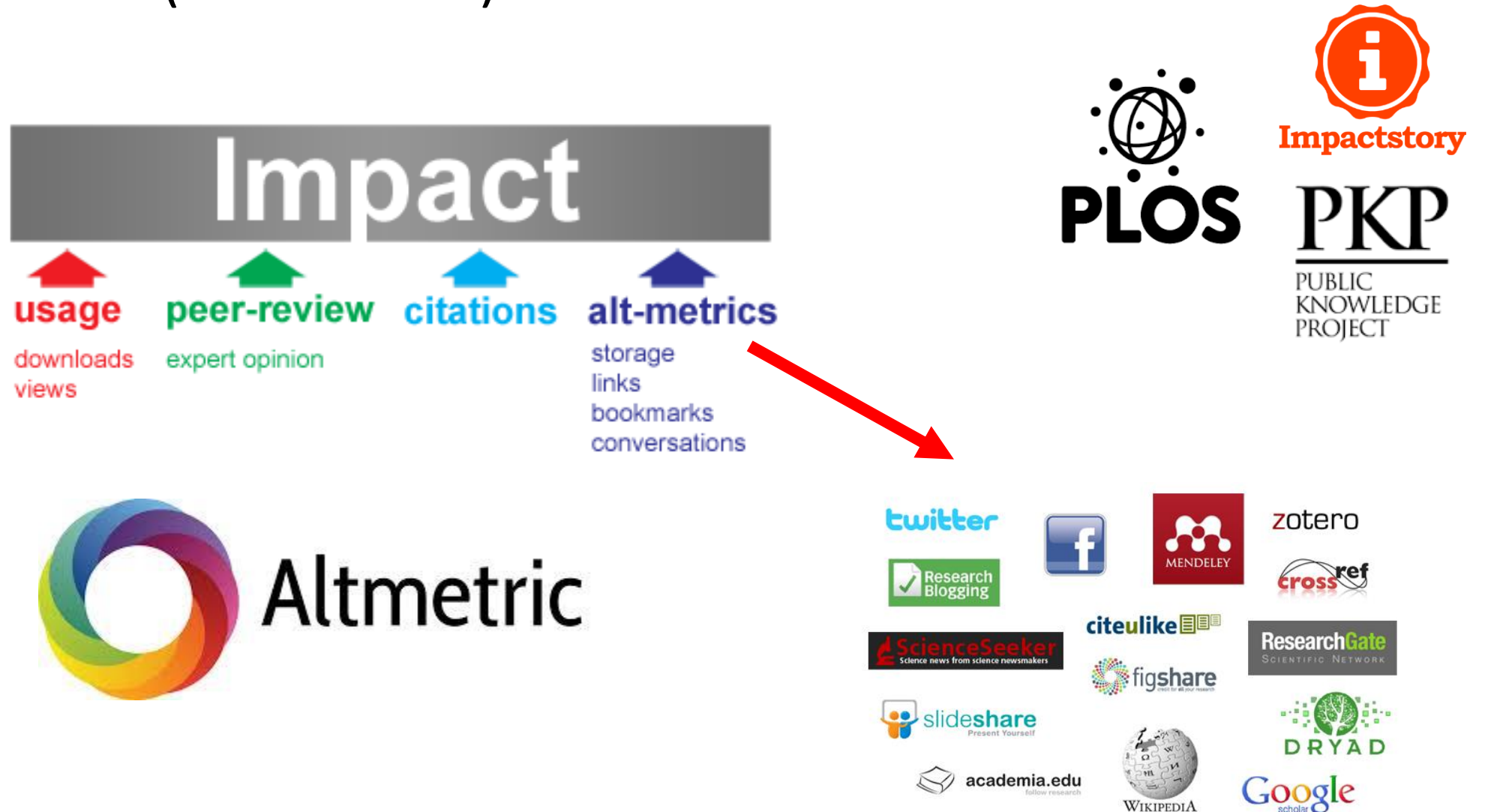
h-index 103 62

i10-index 362 197



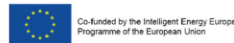
Scientific impact assessment: metrics

✓ Altmetrics (article level)



Scientific dissemination (but impact?)

✓ Outreach activities from scientists to broader publics



www.nezeh.eu

March 2016 - PR No. 7

PRESS RELEASE

“NEARLY ZERO ENERGY HOTELS FOR ACHIEVING LOW CARBON GROWTH IN EUROPE”

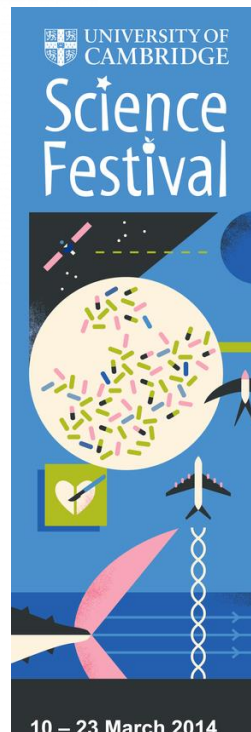
High Level Event at the European Parliament - 17th March 2016 in Brussels

The neZEH High Level Event “[Nearly Zero Energy Hotels for Achieving Low Carbon Growth in Europe](#)” hosted by [Member of the European Parliament Mrs. Maria Grapini](#) (S&D Romania) took place at the European Parliament in Brussels on the 17th of March 2016, with great success.

The event aimed at steering the attention of regional, national and European policy makers to [commit](#) to [nearly zero energy](#) growth in the tourism sector, to reduce legislative barriers and to introduce supportive measures. More than [65 participants](#) took part of the event, representing policy makers, as well as private sector representatives from the tourism and energy efficiency arena.

The [distinguished panellists](#), composed of Members of the European Parliament from Romania, Hungary and Croatia, the European Commission Directorate General for ENER and GROWTH, the Executive Agency for Small and Medium-sized Enterprises (EASME), the Region of Île-de-France in France, the Croatian Ministry of Tourism, UNWTO, the European Hotel Association HOTREC and NECSTouR, shared their reflections and proposed suggestions on how to scale up neZEH results and move from 16 pilot projects to a critical mass of hotels achieving neZEH status in Europe.

A fruitful discussion was held around the working version of the [neZEH project's Position Paper](#) aimed at addressing the tourism – energy – buildings nexus for EU Policy makers where



Social and political impact assessment

- ✓ Qualitative data (i.e. case studies) most used for evaluating social impacts and broader benefits for society
- ✓ Narrative descriptions of the potential (ex-ante) or achieved (ex-post) benefits for society.
- ✓ Descriptions try to include as robust as possible evidence of these benefits

Assessment tool	Method
Payback Framework	Using mixed methods case studies to gather the policy benefits from undertaking research between researchers and different actors, such as policy makers, stakeholders, and social movements
SIAMPI Social Impact Assessment Methods for research funding instruments	Using case studies to assess the “productive interactions” between researchers and stakeholders generating socially relevant applications
Agora Model	Multi-actor interaction to improve science and society relationships engaging scholars and stakeholders in open debates
Opportunity approach	Analysing opportunities that are intended, provided, perceived, and mobilized by policy actors and beneficiaries of research programmes using case studies
Successful actions	Checking actions based on results coming from research efforts that were successfully implemented thus generating efficiency and equity through participatory methods and techniques.

Social impact assessment. Methods:

- ✓ Case studies: Units are required to provide societal outputs and narratives
- ✓ Case studies: Involve self-assessment and Panel expert evaluation
- ✓ Identification of “Success stories”

REF
2014

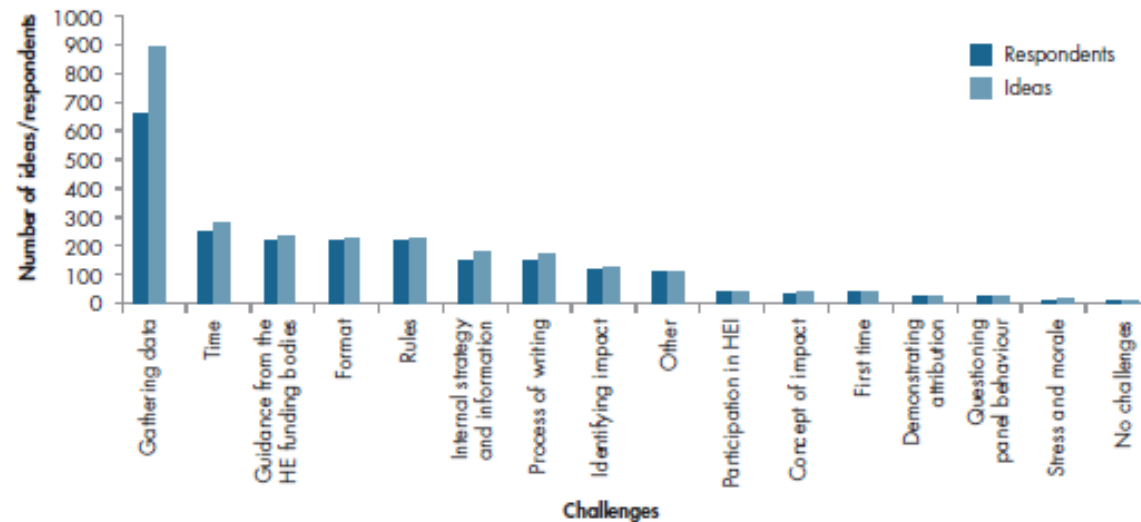


Social impact assessment. Methods:

the basic principle is that peer review lies at the heart of the evaluation process, but that peer review needs to be informed by whatever data is available and useful (Interview, responsible at HEFCE, UK)

In REF2014, the biggest challenge in preparing impact case studies was the requirement to ‘evidence’ impact (gathering data)

Figure 3-2: Challenges Identified by survey respondents in developing impact case studies (above) and impact templates (below)





- Initiative to create a repository of data and tools that will be useful to assess the **impact of federal R&D investments.**
- Focused (Level I) on **job creation, using data from research institutions' existing database** records.
- Goal: to utilize existing administrative data from federal agencies and **match them with existing research databases on economic, scientific and social outcomes.**
- From January 2016, redirected to Federal RePORTER is an initiative of STAR METRICS® to create a searchable database available to the public.



Federal RePORTER



STAR METRICS® Level I
Process Guide



Participation Agreement



Participation Guide



Common Data Challenges



Indirect Cost Proposal



Data Dictionary



Job Classification Guidance



Employment Calculations



Technical Specifications



Join InCommon

Social impact assessment. Methods:

- ✓ **SISM: Social Impact in the Social Media**
- ✓ Identify what is relevant for citizens and society
- ✓ Identify quantitative and qualitative evidence on how research outcomes are shared in social media
 - ✓ Two ways: 1) define keywords from projects' outcomes
2) use project acronym





Top Down Approach

- List of keywords
- Social media: Facebook, Twitter,
- Online sources: Youtube, Wikipedia

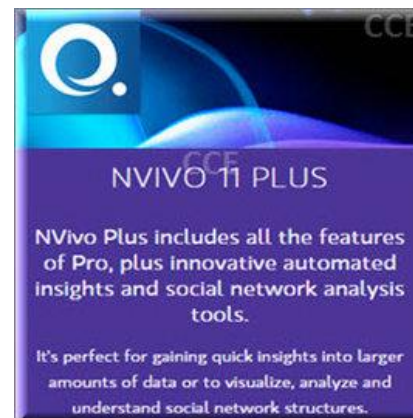
We can search for keywords from projects and programme priorities.



Bottom-up Approach

- List of topics which emerge from primary and secondary sources, from citizens
- Social media: Facebook, Twitter
- Online resources: Wikipedia

We can identify topics which are relevant for society but not covered by programmes.





Social Impact Open Repository

Responds to the **open demand of measurable parameters of social improvements** generated by scientific projects, promoting **a necessary alternative** to the stagnation of scientific results and enabling real social impact.

Non-profit initiative launched by the IMPACT-EV consortium (EU)

<http://www.ub.edu/sior/>



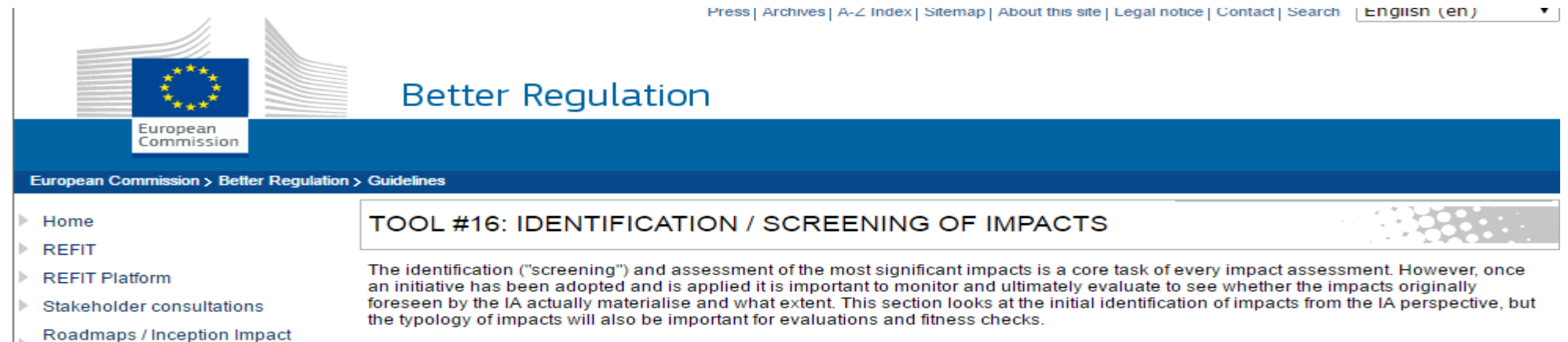
SOCIAL IMPACT CRITERIA

- **Connection** to **UN Sustainable development Goals, EU2020** targets or other **similar official targets**
- **Percentage of improvement achieved** in relation to the starting situation
- **Transferability of the impact**, the actions developed based on the project's findings have been transferred to other contexts besides the original one
- **Publication in scientific journals** (with a recognized impact), governmental or non-governmental official bodies
- **Sustainability**, the impact achieved by the action developed based on the project's findings has showed to be sustainable throughout time


Social Impacts definitions

Using the conception of Social Impacts as described in the EC Better Regulation “Toolbox”:

- ❖ Economic impact
- ❖ Societal impact
- ❖ Environmental impact and
- ❖ Human rights impact



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 Better Regulation

European Commission > Better Regulation > Guidelines

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TOOL #16: IDENTIFICATION / SCREENING OF IMPACTS

The identification ("screening") and assessment of the most significant impacts is a core task of every impact assessment. However, once an initiative has been adopted and is applied it is important to monitor and ultimately evaluate to see whether the impacts originally foreseen by the IA actually materialise and what extent. This section looks at the initial identification of impacts from the IA perspective, but the typology of impacts will also be important for evaluations and fitness checks.

Atapuerca project

From 1995-01-01 to

Website

Score: 10

This is the provisional score according to the available data

Project Impacts

Targets Oriented

Research Team

Project Description

Creation of employment, economic growth and cultural development in the region

1. Creation of employment

Evidence:

1130 Jobs

Creation of 11 workplaces in different categories at Universitat Rovira i Virgili (Tarragona, Spain) between 1995 and 2004 (10 of them were new creations with permanent contracts linked to the project).

3 years Predoctoral Grants provided by Atapuerca Foundation during 2000-2004.

Source: Official report (external from research team)

<http://www.jcyl.es/jcyl/patrimoniocultural/atapuerca/DocumentosQueAcompanan.pdf>

2. Creation of intangible cultural happiness

Evidence:

Around 815.700 visitors

The attractiveness of Atapuerca connects directly to the meaning that visitors attribute to humanity and its origins. The intergenerational groups (like families) have an incredible opportunity to talk and transmit to the youngest important issues like the relations between sciences, religions and ideologies.

Source: Official report (external from research team)

<http://www.jcyl.es/jcyl/patrimoniocultural/atapuerca/DocumentosQueAcompanan.pdf>

Tweets by @SIORRepository

SIOR
@SIORRepository

François Englert, Nobel Prize in Physics will be Keynote Speaker at #SIS2016 in #Barcelona
socialimpactscience.org/sis2016/ @NobelPrize

29 Apr

SIOR Retweeted

Rocío García Carrión
@RocioCarrion81

Prof @PaulineMRose presents @REAL_Centre at CamERA 2016 conference @CambridgeEdFac
Ensuring Impact! @SIORRepository



18 Mar

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IMPACT-EV
@IMPACT_EV

Nobel Prizes Ada Yonath and Harald zur Hausen, speakers on Social Impact of Science #SIS2016
socialimpactscience.org/sis2016/

17 Mar

SIOR
@SIORRepository

Call for #SIS16 abstracts, symposium and brown-bag seminar open until May, 2nd. Submit your proposal today! socialimpactscience.org/sis2016/

16 Mar



ATAPUERCA

Página Web de Juan Luis Arsuaga y el
Equipo de Investigación Centro UCM-ISCIII





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BIENVENIDA DE JUAN LUIS ARSUAGA

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Arsuaga's Notebook

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- [DOS MUNDOS, DOS HISTORIAS](#)
- [MORRIS GOODMAN, EL CIENTÍFICO...](#)

News



Oldest hominin DNA sequenced Max Planck researchers sequence the



International weekly journal of science

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Letter

Nature **452**, 465-469 (27 March 2008) | doi:10.1038/nature06815; Received 15 October 2007; Accepted 4 February 2008

The first hominin of Europe

Eudald Carbonell^{1,4}, José M. Bermúdez de Castro², Josep M. Parés^{2,3}, Alfredo Pérez-González^{2,4}, Gloria Cuenca-Bescós³, Andreu Ollé⁴, Marina Mosquera⁴, Rosa Huguet⁴, Jan van der Made⁶, Antonio Rosas⁶, Robert Sala⁴, Josep Vallverdú⁴, Nuria García^{2,8}, Darryl E. Granger², María Martínón-Torres², Xosé P. Rodríguez⁴, Greg M. Stock^{2,10}, Josep M. Vergès⁴, Ethel Allué⁴, Francesc Burjachs^{1,11}, Isabel Cáceres⁴, Antoni Canals⁴, Alfonso Benito⁴, Carlos Díez^{1,2}, Marina Lozano⁴, Ana Mateos², Marta Navazo^{1,2}, Jesús Rodríguez², Jordi Rosell⁴ & Juan L. Arsuaga^{2,8}

- Institut Català de Paleoecologia Humana i Evolució Social, Àrea de Prehistòria, Universitat Rovira i Virgili, Plaça Imperial Tàrraco 1, 43005 Tarragona, Spain
- Centro Nacional de Investigación sobre Evolución Humana, Avenida de la Paz 28, 09004 Burgos, Spain
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Science 11 August 1995:
Vol. 269 no. 5225 pp. 826-830
DOI: 10.1126/science.7638598

REPORTS

Lower Pleistocene hominids and artifacts from Atapuerca-TD6 (Spain)

E Carbonell, JM Bermudez de Castro, JL Arsuaga, JC Díez, A Rosas, G Cuenca-Bescos, R Sala, M Mosquera, XP Rodríguez

Author Affiliations

ABSTRACT

Human remains dating to more than 780,000 years ago are associated with a rich faunal and lithic assemblage in the Pleistocene cave site of Gran Dolina (TD), Sierra de Atapuerca, Burgos, Spain. The micromammal species represent the late Biharian (Mimomys savini zone), and the lithic objects represent pre-Acheulean technology (Mode 1) and comes from the TD6 level below the Matuyama-Brunhes boundary. The Gran Dolina hominid fossils cannot be comfortably accommodated in any of the defined Homo species. They could be considered a primitive form of Homo heidelbergensis, but a new species might be named in the future if the sample is enlarged. The new human fossil evidence demonstrates that Western Europe was





- Creation of employment



Museum of Human Evolution
(created in 2010):

- 500.000 visitors
- More than 1130 new jobs
- Economic impact: 53 million €



Noticias agencias

Visitas a Atapuerca se duplican tras apertura del
Museo de Evolución Humana

- Creation of Companies with core business (CNAE Activity) related to the Atapuerca findings (20 companies):

SCHOLA ACTIVA SIERRA DE ATAPUERCA SL



MNEMOSFERA SL.

Datos Identificativos de MNEMOSFERA SL.

Denominación:	MNEMOSFERA SL.
Objeto Social:	Organización de visitas en yacimientos arqueológicos y espacios patrimoniales en general, así como museos. Información y edición de materiales relacionados. Actividades de ocio y tiempo libre. Organización de eventos sociales, conferencias, cursos, actos divulgativos. Visitas guiadas
Número D-U-N-S:	465433541
Domicilio Social:	CALLE IGLESIA (ATAPUERCA)...
Localidad:	ATAPUERCA (Burgos)

SCHOLA ACTIVA SIERRA DE ATAPUERCA SL en Atapuerca

CALLE LAS ROMANAS - OLMOS DE ATAPUERCA, 6, ATAPUERCA, 09199 , BURGOS

Cif: B094... [Ver CIF completo](#)

Ventas: Entre 0,6 y 1,5 millones €

[Evolución de las ventas](#)

Encontrados 2 cargos en esta empresa.

[Ver todos los cargos](#)

Administrador: ISAB...

Administrador: EDUA...

[2 cargos de la empresa](#)

[gratis a toda la información de SCHOLA ACTIVA SIERRA ...](#)

A 24 111 personas les gusta esto.

Paleorama

gestión y dinamización sostenible del patrimonio arqueológico

2001: Creation of Paleorama SL

El patrimonio cultural requiere atención.

Olvidar un yacimiento excavado es abandonarlo al deterioro y al expolio.

- Development of industrial and ICT sector:



antoni.canals@prehistoria.urv.cat



- Creation of other **new jobs** in the region from tourism development and other services related to this sector.



Farm School , Youth Hostel, rural houses, restaurants, etc...

- Promotion of **economical growth** in the region.

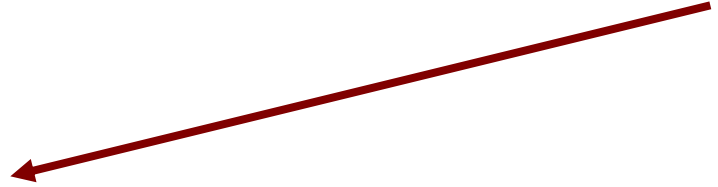




SIOR

Social Impact Open Repository

- Link between social impacts of researchers to their individual profiles



ORCID

Connecting Research and Researchers



- Link between social impacts of research projects and entries in Wikipedia
- Collaboration to open peer review of social impact to all citizens

The screenshot shows a user's ORCID iD profile. At the top, there's a search bar and navigation links: FOR RESEARCHERS, FOR ORGANIZATIONS, ABOUT, HELP, and SIGN OUT. Below this, the ORCID logo and tagline 'Connecting Research and Researchers' are visible. The main content area features a 'SIOR Social Impact Open Repository' link. Below this, the 'ORCID ID' is displayed as 'orcid.org/0000-0001-7592-090X' with a 'View public version' button. To the right, there's a 'Biography' section with expandable categories: Education (0), Employment (0), Funding (0), and Works (1). Each category has a '+ Add' button and a 'Sort' button. The 'Works' section is currently expanded, showing one entry.



*The open repository scores research on metrics such as **social improvement, transferability to diverse populations or social contexts, and sustainability.** SIOR data are also used to back research proposals. Nature, 528, 193 (Dec 2015)*

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EVIDENCE FOR SOCIETY

Transforming The Future Of European People Through Research

 European Parliament Headquarters, **November 8, 2017 (3pm-6pm)**

74 Days

04 Hrs

08 Min

19 Sec

 [REGISTRATION](#)

November 8, European Parliament



Recognizing fundamental contributions and trajectories



Research Enabling Social Impact (RESI):


The cumulative impact of the theory and research that has contributed to further research which in turn has achieved social impact.

In order to find a solution there are many research projects and scholarly work exploring different avenues. They have all been necessary to find the solution, facing both failures and successes on the way.



SIS2016

1ST CONFERENCE ON SOCIAL IMPACT OF SCIENCE

Barcelona, 25-29th of July 2016




1ST CONFERENCE ON SOCIAL IMPACT OF SCIENCE
Barcelona, 25-29th of July 2016




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Keynote Speakers at SIS2016




The curiosity of the human mind is essential if you want citizens who think rather than accept the first nonsense they come to.

François Englert, Nobel Prize in Physics 2013



People called me a dreamer. Dreamer or not, it was hard work that brought results.


Ada Yonath, Nobel Prize in Chemistry 2009



I believe that we should take a position for basic research to advance in this topic. We need to look for epidemiological clues that indicate us the different tumors that could be caused by an infection, although we might not know it yet.


Harald zur Hausen, Nobel Prize in Medicine 2008

MIDDAY SPECIAL SESSION: THE ROLE OF FUNDING AGENCIES IN PROMOTING SOCIAL IMPACT



Alan Tomkins
National Science Foundation

Saba Hinrichs-Krapels
The Policy Institute at King's College London





- Researchers from all disciplines, 40 countries
- Agencies (NSF, RCUK, DG.RTD,...)
- Publishers (PLOS, Nature, Thomson Reuters, ...)

EXAMPLE 1:

Social Impact of Research: combating cancer disease

Research Impact enabling Social Impact: research about the possible connection between infection agents and human cancer.



**Harald zur Hausen
Nobel Prize in Medicine
2008**

“In the late 1960s Herpes simplex type 2 (HSV-2) emerged as the prime suspect based on some seroepidemiological observations. I had asked my colleague Heinrich Schulte-Holthausen to use the same technique to search for HSV-2 sequences in cervical cancer biopsies. **All attempts, however, failed.**”

Later “Up to 20% of sera from human adults also revealed neutralising antibodies to this virus. **Our attempts** to isolate a human correlate, **however, failed.**”

“I have devoted my scientific life to the question to what extent infectious agents contribute to human cancer, trusting that this will contribute to novel modes of cancer prevention, diagnosis and hopefully later on also to cancer therapy. I am of course pleased to see that **at least part of this programme has been successful.**”

EXAMPLE 2:

Social Impact of Research: 1) creation of employment and economic growth in the region and 2) creating intangible cultural happiness, from the discovery of homo antecessor and the related Museum of Human Evolution.

Research Impact enabling Social Impact: Groups of paleontologists working in Atapuerca Mountains since 1863.



Atapuerca Project

1863: the first discoveries of fossils were found.

1976: first human remain is found

1997: discovery of a new human species: *homo antecessor*

More than a century of research has been developed in Atapuerca, which eventually **enabled the discovery of *homo antecessor***, as one of the earliest known human species in Europe.

EXAMPLE 3:

Social Impact of Research: Polymer photovoltaic diodes **promise to enable** very low cost solar cells. Then, **potential to succeed** in current lighting technologies.

Research Impact enabling Social Impact: Many groups and studies are working to identify alternative energy sources.



The strong focus of our activity is on the scientific understanding of the electronic properties and fundamental physics of this novel class of semiconductors. Conjugated polymers are low-dimensional semiconductors with strong electron-phonon and electron-electron interactions, and their physics differs dramatically from those of conventional inorganic semiconductors such as silicon. **It is a field where new fundamental scientific discoveries are still waiting to happen.**

**Optoelectronics Group
Cavendish Laboratory, University of Cambridge**

What's next?

- Need to improve the gathering of evidences on social impact (difficulties for doing by the researchers themselves)
- Need to improve peer review procedures
- Need to connect research to improvements in citizens' lives

Register of Commission expert groups and other similar entities

[Subscribe to this group](#)

Type A - Individual expert appointed

Name	Nationality
AUGUSTYN Anna Maria	Poland
CHEVAL Sorin	Romania
DE GENNARO Michele	Italy
FLECHA José Ramón Chair	Spain
KODRATENKO Irena	Belgium
MAIMETS Toivo	Estonia
MOHLER Christine	Germany
PALAT Milan	Czech Republic
PASKALEVA Krassimira	Bulgaria
PEJIC BACH Mirjana	Hungary
PLESCAN Angela Christina	Romania
RADAUER Alfred	Austria
SORENSEN Karen Hanghoj	Denmark
SOUTHWOOD David	United Kingdom
VALTA Katerina	Greece
VAN DEN BESSELAAR Peter	Netherlands
WIDERA Barbara	Poland

Details

Additional Information

Subgroups

Statistics

Members

Name: Expert group on evaluation methodologies for the interim and ex-post evaluations of Horizon 2020 (E03426)

Active

Abbreviation: EG METHO

Policy Area: Research and Innovation

Lead DG: RTD - DG Research and Innovation

Type: Formal, Permanent

Scope: Limited

Mission: The Expert Group on the Evaluation of Social Impacts of EU Framework Programmes will identify, adapt and/or develop methodologies for the assessment of the social impacts since FP4 until now using a portfolio analysis.

Task: Assist the Commission in the preparation of legislative proposals and policy initiatives

Composition: Environment, Space and Satellites (research), Agriculture, Statistics, Climate, Other (Big data, evaluation, Social assessment, Private consumer engagement and Energy, Energy, Data analysis and transport, Micro, macro-migration, labour market, ICT, creative industries, SMEs, Raw materials, IT and health, Impacts and micro-steal, Data mining, resource efficiency, Exports and competitiveness)

Publication in RegExp: 24 May 2016

Creating Act: Commission Decision C(2016)1349 - 9 March 2016

Link to Website: <http://ec.europa.eu/programmes/horizon2020/en/>

Last updated: 01 Jul 2016



ANEP (National Agency of Evaluation and Prospective)

- Interviews with the 50 responsible researchers of the different scientific areas of ANEP, to identify research projects and groups achieving social impact in Spain



**Agència
de Gestió
d'Ajuts
Universitaris
i de Recerca**

- Modification of the Guide for Proposers for Beatriu de Pinos Postdoctoral Research Grant in relation to social impact
- Inclusion of monitoring system to support researchers gathering their social impact.

DG Scientific & Technological Research General Secretariat of Research Projects

- Modification of the Guide for Proposers (National Plan RTD) in relation to social impact
- Inclusion of social impact criteria in the Guide for Evaluators (National Plan RTD)



"la Caixa" Foundation

- Modification of the Guidelines for Evaluators for Recercaixa Programme, in relation to social impact. Webinar training for evaluators.
- Inclusion of monitoring system to support researchers gathering their social impact.

	What information we gather from projects	What information is missing	How can we monitor this impact? RESEARCHER DRIVEN	How can we monitor this impact? INSTITUTION DRIVEN
SCIENTIFIC IMPACT (science dissemination)				
POLITICAL IMPACT (transference)				
SOCIAL IMPACT (i.e. societal, economic, environmental, human rights)				

