

Investigación e Innovación Responsables

R&I más abierta e inclusiva, que responda mejor a las necesidades de la ciudadanía

Rosina Malagrida, Responsable del Living Lab de Salud de IrsiCaixa

Reunión de coordinación EURAXESS Spain

Ministerio de Economía, Industria y Competitividad, Madrid, 16 de marzo de 2017

En el marco del proyecto europeo:

Con la colaboración de:



“Nothing about Us, Without Us”

1983: Principios de Denver



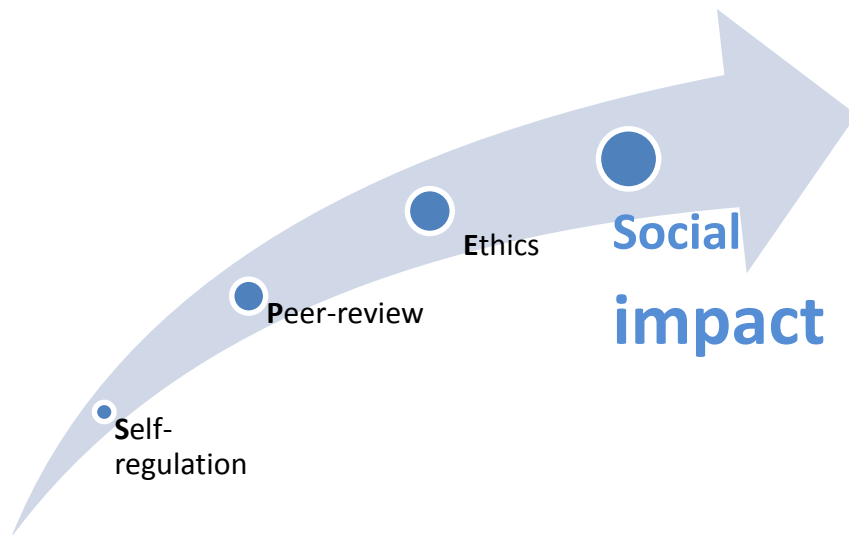
¿CAMBIO de paradigma?



CAMBIO de paradigma

El s.XXI requiere una revolución en cada una de las etapas del proceso de I+D+I

Open science



Open innovation



RRI: I+D+I más abierta y más inclusiva, que responda mejor a las necesidades sociales



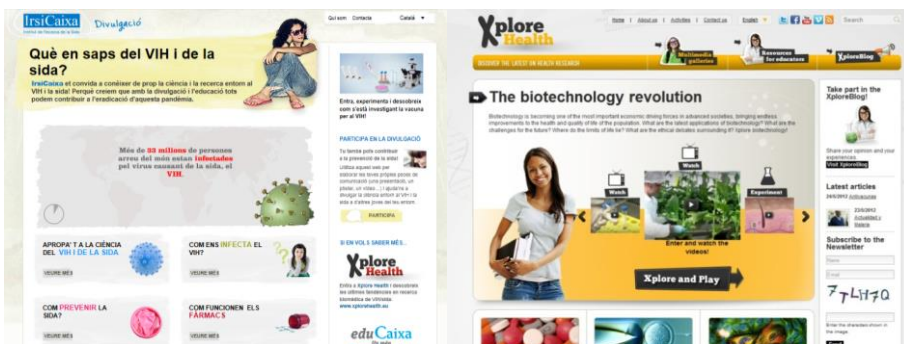
IrsiCaixa
Institut de Recerca de la Sida



➔ Comunicación Científica



➔ Educación - Divulgación



➔ Participación en gobernanza & en I+D+i

Responsible Research & Innovation (RRI):

- **Deliberación:** Comité Asesor Comunitario, Programas investigación, Mapas de opinión
- **Colaboración:** Investigación Participativa Comunitaria

➔ Formación & Asesoramiento Investigación



CRISH
Inspires



IrsiCaixa

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PROGRAMA

Reunión de coordinación EURAXESS Spain

11.45-12.45h: **Introducción** a la RRI.

Comida

11.45-14.45h **Taller I:** Reflexión conjunta sobre los obstáculos y oportunidades de aplicar la RRI

12.45-13.45h **Taller II:** Preparación de presentaciones sobre principales líneas de actuación en RRI

Break

16-17h **Taller III:** Aplicación de la RRI a un proyecto.

Índice

- 1. Algunos casos prácticos hacia una I+D+I más abierta e inclusiva**
- 2. ¿Qué tienen en común? Características de la RRI**
- 3. Herramientas para aplicar la RRI: El RRI Toolkit**
- 4. Conclusiones**

1. Algunos casos prácticos hacia una I+D+I más abierta e inclusiva



Open innovation...

1/5 Living Labs

Living Lab SPORTIS

- **Múltiples actores:** empresas, administración pública, centros de investigación y consumidores en el proceso de innovación
- **Co-creación:** definición y ejecución de proyectos y validación de producto
- **Misión:** Cubrir necesidades y expectativas en el sector deporte.
- **Sistema:** País Vasco



**European
Network of
Living Labs**

2/5 Value Sensitive Design

Necesidad de ANTICIPAR para alinear la innovación con los valores sociales



- Se estudiaron los valores de los distintos actores
- Cambios en el diseño y las políticas pueden ayudar a paliar controversias
- Los aerogeneradores podrían diseñarse para incorporar diferentes valores:
 - Que protejan los Países Bajos de futuras inundaciones
 - Que permitan el paso de las mareas para respetar aspectos ambientales
 - Que las políticas aporten beneficios para la ciudadanía

Values	Embedding in design	
	Institutional	Technological
Cost	subsidies in support of innovation	grid innovations
Sustainability	priority for offshore wind in spatial planning of North Sea	'cradle-to-cradle' reuse of materials
Reduction CO ₂	emission trading system in Europe	power2gas
Employment	stimulate public-private partnerships	construction of grid infrastructure
Competitive power of Dutch Industry	finance R&D	Multifunctional industrial use of wind farms
Protection of environment	allocation of conservation areas	gravity based foundations for turbines

3/5 Ferran Adrià: investiga la eficiencia de la creatividad

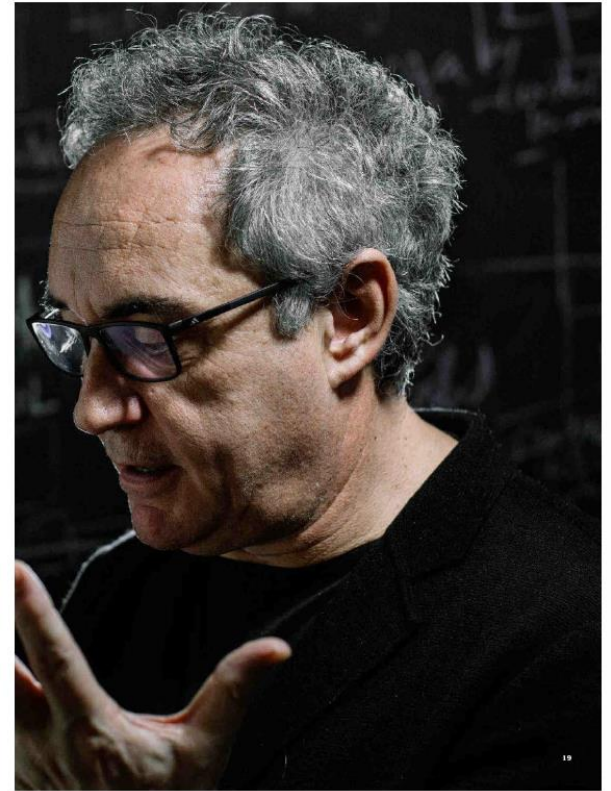
“El Bulli invertía un 22% de sus recursos en I+D+I”

“Podemos comprar talento y hasta creatividad, ¿pero podemos comprar la eficiencia?”

“Las empresas mantienen sus departamentos de **I+D como búnkers cerrados** al resto de la organización”.

“La creatividad debe conectar toda la organización y no limitarse a unos **señores que se encierran** a crear sistemas y productos que muchas veces la compañía no **necesita**”.

“Hay que crear sistemas que **faciliten la comunicación y las sinergias** y donde la innovación nutra todos los departamentos”.



4/5 X-Patient

The Art of Medicine

The shift to personalised and population medicine

J A Muir Gray. Lancet 2013;382:200-1

Decisions for the patient, **without** the patient



Effectiveness

Quality

Safety

Value

Paradigm shifts

The driver is the patient, not the doctor



From the patient's perspective

CLÍNICA
BARCELONA
Hospital Universitari

“Collecting data on patient experience is not enough, they must help to improve care (quality, service design, patient empowerment)”

5/5 B-corporation

Brought to you by
the community of

Certified



Corporations

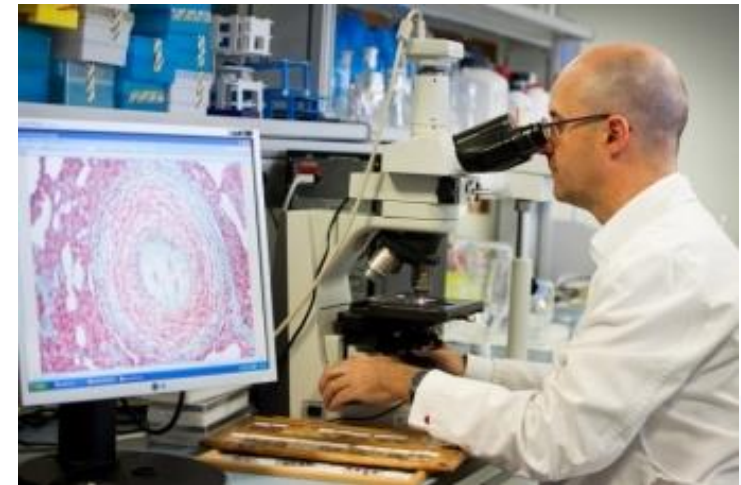


What are B Corps?

B Corps are a new type of company that uses the power of business to solve social and environmental problems. Watch our video!

[Read More »](#)

- **Negocios para solucionar problemas ambientales y sociales.**
- **Políticas:** proveedores locales, políticas de personal...
- **Métricas de impacto:** formación personal, consumos, servicios para entidades sociedad civil, ...
- **Proveedores:** cuestionario de evaluación de proveedores, política de selección beneficiando ciertos valores...
- Hacer constar en la **misión y visión** estos criterios de responsabilidad.



*MANREMYC's commitment is to be able not only to get **certified** by a third party but also to start a learning process in **how to improve our business** practices was our motivation. We want to evaluate and improve our multi-stakeholder business model to make N.R available, **accessible, affordable and accepted** by deprived communities. P.J.Cardona, CEO*



Open Science...

1/5 Intervenciones comunitarias

Sana Mente:

Investigación participativa y gobernanza participativa
Living Lab IrsiCaixa



+450 actores involucrados

- Estudiantes de secundaria
- Estudiantes universitarios
- Investigadores y profesionales asistenciales
- Gestores de políticas públicas
- Entidades de la Sociedad Civil

- Legitimidad
- Capacitación de actores
- Cultura de innovación
- Soluciones adaptadas a las necesidades de los distintos actores

Modelo de Science Shop

2/5 Ciencias Ciudadanas y Science Shops

Science Shops

- Normalmente ubicadas en universidades
- Invitan a entidades de la sociedad civil a sugerir temas de investigación potencial
- Estudiantes llevan a cabo las investigaciones
- 40 años de tradición en Europa y a nivel global
- Promueven la cultura de investigación
- Promueven cambio transformativo

Citizen Science

- Proyectos de investigación que invitan a la ciudadanía a aportar datos
- Investigación estructurada donde el balance entre objetivos de investigación, educación, sociales y políticos varia según el proyecto.

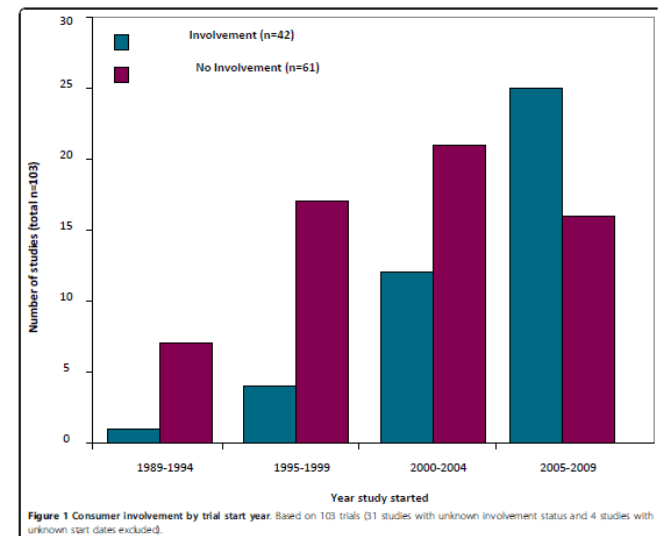


3/5 Comités Asesores Comunitarios y presencia de ciudadanos en otros comités

Pacientes: tradicionalmente objetos de investigación y beneficiarios de resultados



Comité Asesor Comunitario de IrsiCaixa



C.L. Vale, et al. Trials 2012

4/5 Participación en agendas de investigación

Burhn:

Agenda de Investigación en Quemadas
VU University of Amsterdam



El picor se añade a la agenda de investigación

The Five phases of the Dialogue Model by the Vrije Universiteit Amsterdam

1. Exploration

Interdisciplinary team

Literature study interviews

2. Consultation

5 focus groups
burn survivors

3 focus groups
researchers & health profs

2 feedback meetings

3. (Interim) Prioritization

Questionnaire

Delphi round

1 feedback meeting

Problem trees
Priority lists

4. Integration

Dialogue meeting: 1 day
15 burn survivors and
15 professionals

Research & Policy agenda

5. Programming and implementation

Programs and projects

4/5 Participación en agendas de investigación

Co-ResponsaVIHlidad:

Agenda de Investigación en Prevención del VIH

Living Lab IrsiCaixa

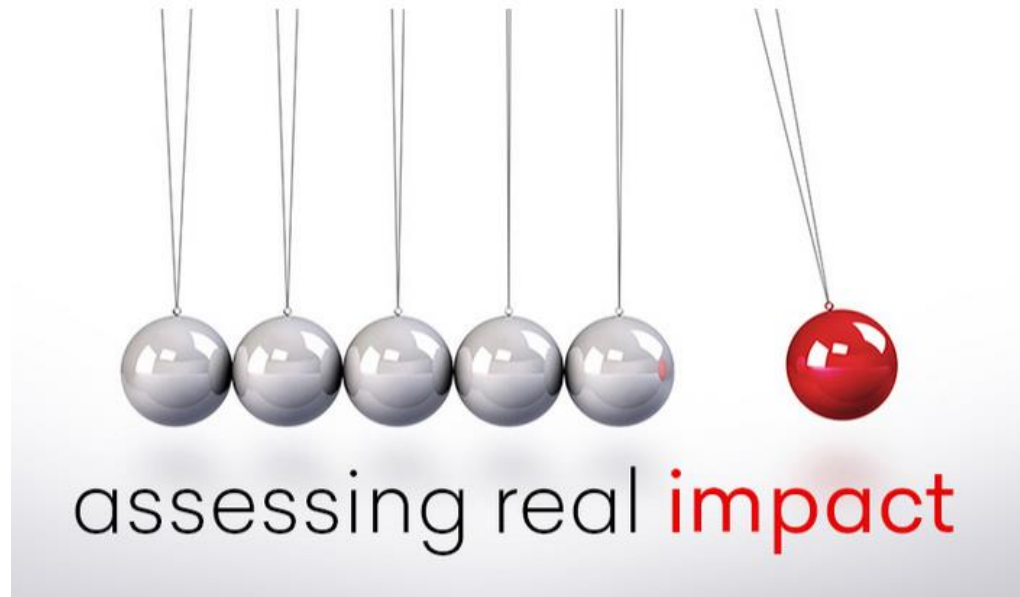


+660 actores involucrados

- Estudiantes de secundaria
- Estudiantes de máster
- Investigadores
- Profesionales asistenciales
- Gestores de políticas públicas
- Entidades de la Sociedad Civil

- Legitimidad
- Capacitación de actores
- Cultura de innovación
- Transferencia de conocimiento
- Necesidades no cubiertas

5/5 Evaluación: Debate internacional sobre futuro de I+D+I



Started 2013



www.scienceintransition.nl

La ciencia requiere una reforma:

- Calidad se mide con parámetros bibliométricos
- **Relevancia social:** infravalorada. Preguntas de baja prioridad
- La evaluación y la calidad de la ciencia se están reconsiderando:
 - **Eliminar cantidad** como categoría para evaluar
 - **Decisiones transparentes**
 - **Tener en cuenta intereses de distintos actores sociales**



January, 2014

Biomedical research: increasing value, reducing waste



Of 1575 reports about cancer prognostic markers others (table). Through consideration of these drivers, Published Online

2012





Impulso político...

1/4 RRI: desde la CE



El S.XXI requiere una revolución en cada una de las etapas del proceso de I+D+I

La ciencia

está cambiando cada aspecto del método científico para que sea **más abierta, inclusiva e interdisciplinaria**

The European Charter & Code for Researchers

In 2005, the European Commission adopted a European Charter for Researchers and a Code of Conduct for the Recruitment of Researchers. These two documents, addressed to researchers as well as research employers and funders in both the public and private sectors, are key elements in the EU's policy to boost researchers' careers.

882 organisations have endorsed the Charter & Code principles.

Research careers in Europe are fragmented at local, regional, national or sectoral level, not allowing Europe to make the most of its scientific potential.

(CIBERBBN) Biomedical Research Networking Center in Bioengineering, Biomaterials and Nanomedicine [↗](#) [📄](#)

(CIBERDEM) Biomedical Research Centre in Diabetes and Associated Metabolic Disorders [↗](#) [📄](#)

(CIBEREHD) Networked Biomedical Research Centre for Hepatic and Digestive Diseases [↗](#) [📄](#)

(CIBERER) Centre for Biomedical Research on Rare Diseases [↗](#) [📄](#)

(CIBERSAM) Biomedical Network Research Centre in Mental Health [↗](#) [📄](#)

(CRESIB) Barcelona Centre for International Health Research [📄](#)

ALBA Synchrotron Light Laboratory [↗](#) [📄](#)

Achucarro Basque Centre for Neuroscience [↗](#) [📄](#)

Agencia Andaluza del Conocimiento [📄](#)

Agencia Estatal Consejo Superior de Investigaciones Científicas (CSIC) [📄](#)

Agency for Management of University and Research Grants (AGAUR) [📄](#)

Agrotecnio Center [📄](#)

Aragon Health Sciences Institute (IACS) [📄](#)

BC3 Basque Centre for Climate Change [📄](#)

BCMaterials [📄](#)

Barcelona Digital Centro Tecnológico [📄](#)

Barcelona Supercomputing Center [📄](#)

Impulso político

3/4 RRI: RFO que la fomentan como “Cross cutting issue”



Science
with and for Society

4/4 Vinnova: Transdisciplinariedad enfocada a retos sociales

Initiation

Develop idea
and consortium
(8-9 months)

Collaboration

Development and
integration,
restricted tests,
user involvement
(2.5 years)

Implementation

Full-scale tests in
real environments,
user involvement
(2 years)

"Vinnova promotes **sustainable growth** by funding needs-driven **research** and stimulating **collaborations** between companies, universities, research institutes and the public sector"



- **Agencia de innovación de Suecia**
- **Cambio de estrategia en 2007. En 2011 lanzan nueva convocatoria**
- **3Ps: profit but also people and planet**
- **Transdisciplinarity addressing societal challenges**
- **Propuestas basadas en retos sociales y con financiación en tres fases (trabajo iterativo, guiado por la evaluación continuada)**

School for everyone, from the first day in the new country

- Many students with a foreign background are not eligible for higher education and are therefore alienated from society
- Develop and test multi-lingual e-learning solution for immigrant students that yet do not master the Swedish language
- Technology providers, publishers, research institutes, universities, municipalities, schools, authorities



CHALLENGE 2015-2017
Information Society
STAGE
✓✓



Operator of the future

- Low productivity, high salaries, poor ergonomics and difficulties to attract younger talents
- Powerful, mobile, IT-tools and processes developed for the operator of the future, today
- Companies from three industries (mining, vehicles, steel), consultancy firms, technical college, software firms

CHALLENGE 2012-201
Competitive Industries
STAGE
✓✓



c/o city

- Secure a sustainable eco system in concentrated cities (urbanization)
- Ecosystem services for a sustainable city planning to benefit the citizens' wellbeing and which fulfill the city's demand for clean water, clean air and reduced environmental influences
- Municipalities, architects, building developers, academia, non-profit organizations and consultants

CHALLENGE 2015-2017
Sustainable Attractive Cities
STAGE
✓✓



2. ¿Qué tienen en común?

Características de la RRI

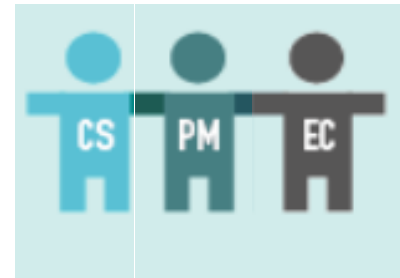
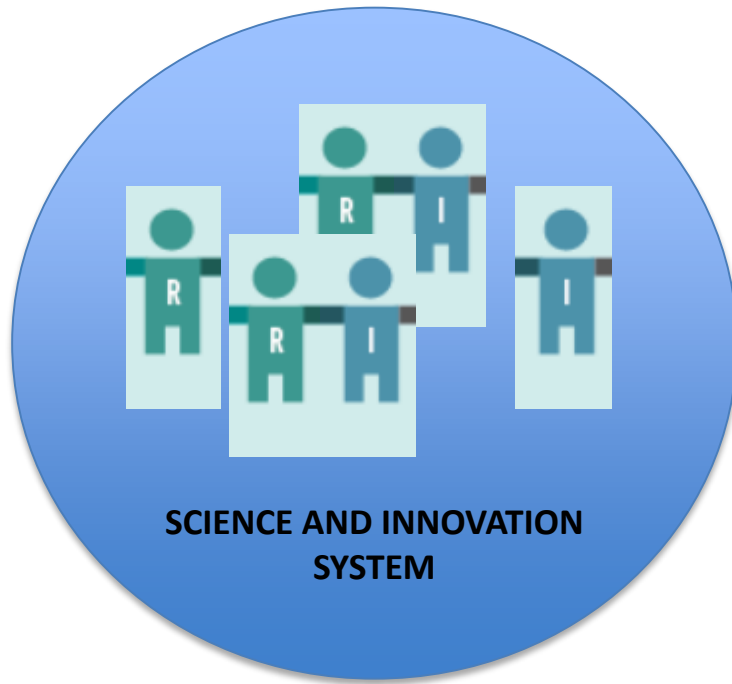
1/5 Voluntad de responder a retos sociales y ambientales

Big societal challenges



Distintas soluciones, interdisciplinares, transdisciplinares, locales y globales

2/5 Voluntad de replantear la relación entre la ciencia y los distintos actores sociales

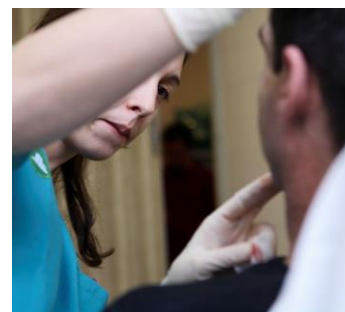


Información, divulgación y márketing

→ Hacer I+D+I más comprensible y fomentar legitimidad y consumo



SISTEMA DE CIENCIA E INNOVACIÓN



EL MUNDO

3

radio 5
rne

B

europa
press

LA VANGUARDIA

EL PAÍS

RAC
1

la xarxa

EFE

Science &
society

el Periódico

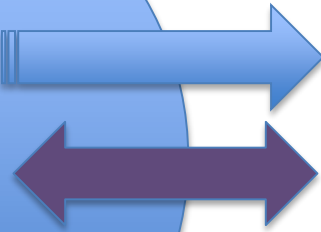
DIARIO MEDICO

Información, divulgación: diálogo

→ Aún con un foco en que sea comprensible



**SISTEMA DE CIENCIA E
INNOVACIÓN**



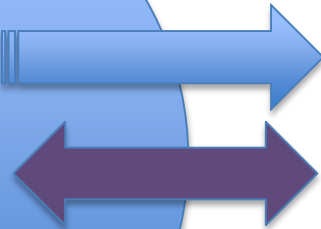
DEFICIT MODEL



NECESIDAD DE CAMBIO TRANSFORMATIVO



**SISTEMA DE CIENCIA E
INNOVACIÓN**



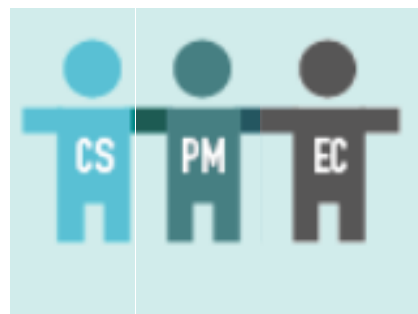
?



**SISTEMA DE CIENCIA E
INNOVACIÓN**



**SISTEMA DE CIENCIA E
INNOVACIÓN**

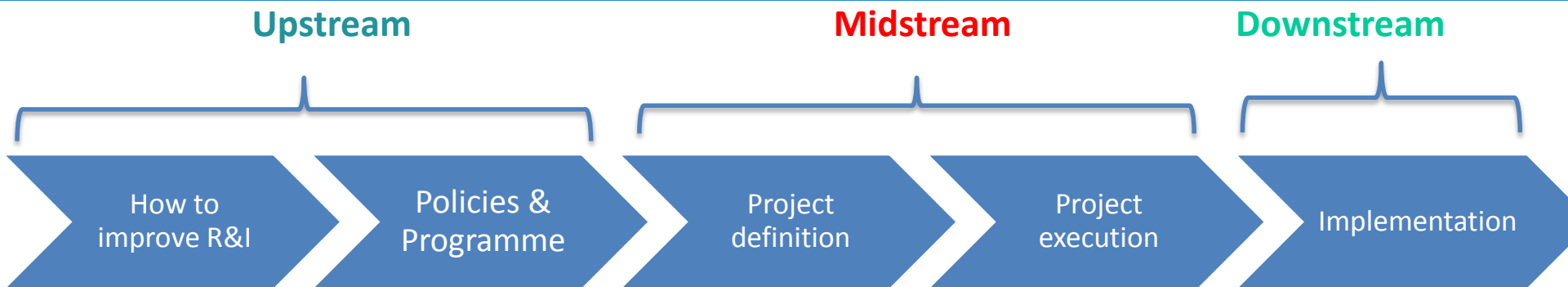


En el proceso de I+D+I
**RESPONSABILIDAD
COMPARTIDA**

FROM
PUBLISHING AS FAST AS
POSSIBLE
TO
SHARING KNOWLEDGE &
DECISIONS AS FAST AS
POSSIBLE

FROM
PUBLIC ENGAGEMENT
TO
PUBLICLY ENGAGED
SCIENCE

3/5 Participación de actores que operan en distintas fases



WHAT?

Gestores de políticas:

Financiación

Evaluación

Asesores

ELSA

HOW?

Científicos e ingenieros:

Códigos de conducta

Comités de revisión

WHETHER TO ADOPT?

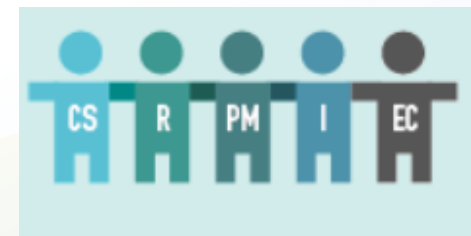
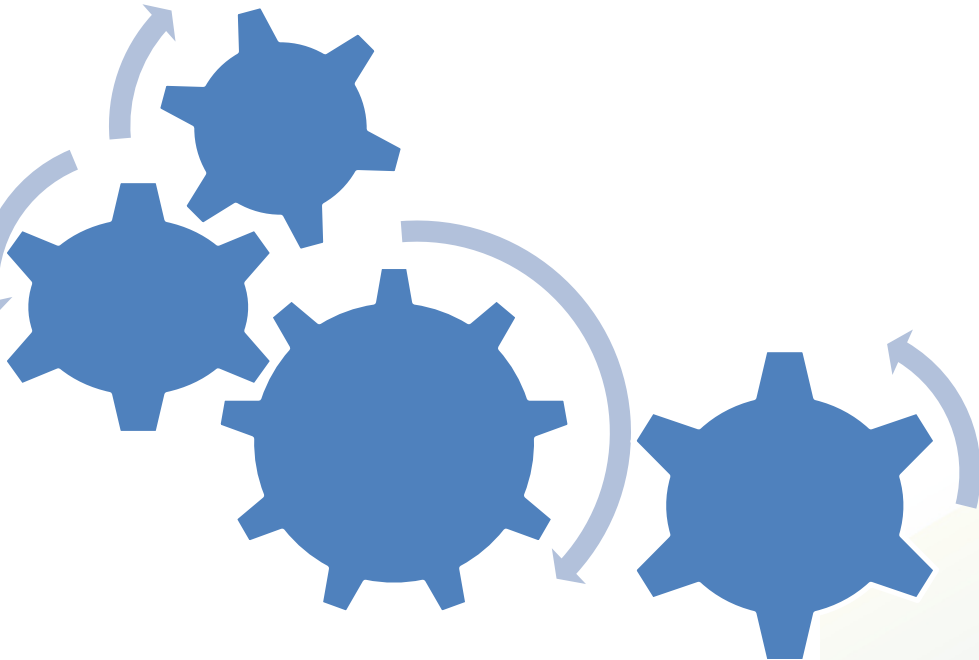
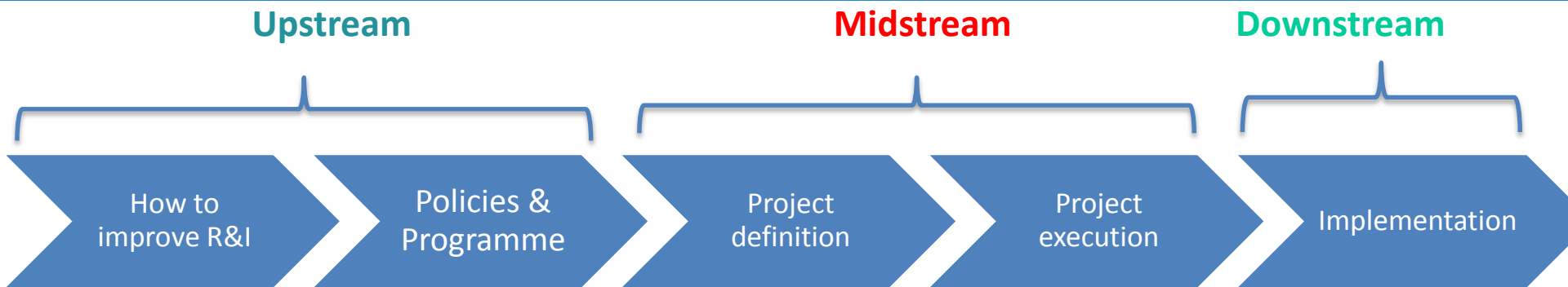
**Consumidores y
agencias reguladoras:**

Tests seguridad/eficacia

Mecanismos del
mercado

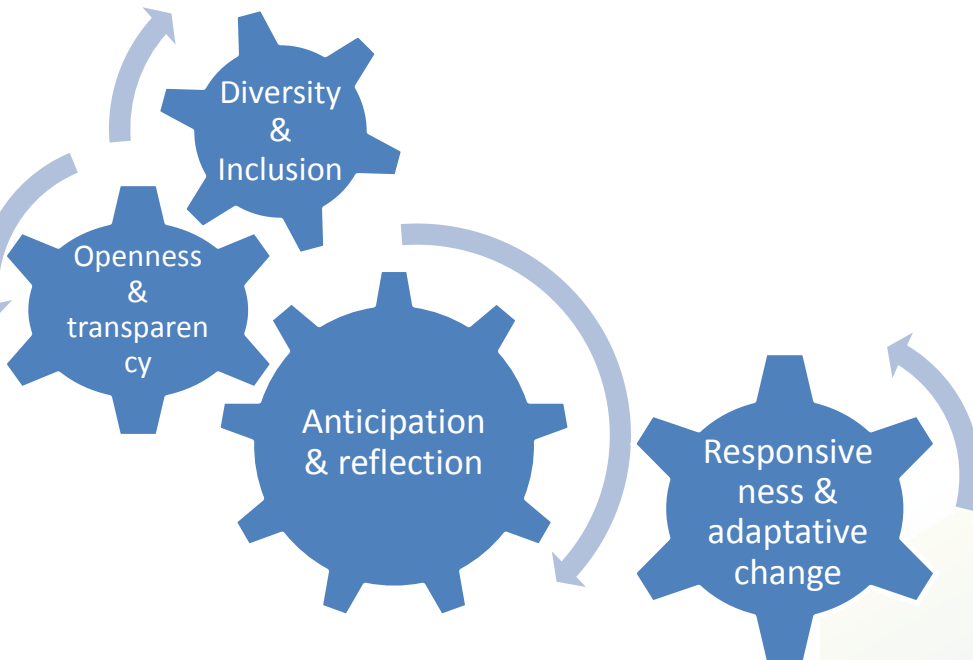
Litigaciones

4/5 RRI: un proceso dinámico e iterativo



Actores con interés

4/5 RRI: un proceso dinámico e iterativo



5/5 Mètodes de deliberació col·laborativa

Com millorar la
I+D+i

Polítiques &
Programes

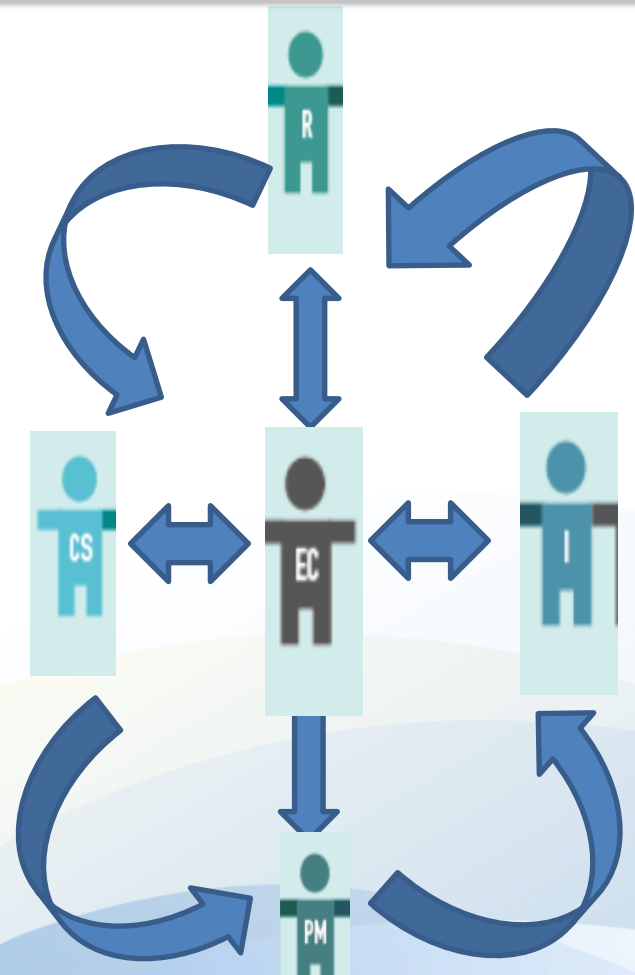
Definició de
projectes

Execució de
projectes

Implementació



SISTEMA DE CIÈNCIA I INNOVACIÓ



Definición de RRI

"Responsible Research and Innovation is a transparent, interactive process

...by which societal actors and innovators become mutually responsive to each other

...with a view to the (ethical) acceptability, sustainability, and societal desirability of the innovation process and its marketable products

...(in order to allow a proper embedding of scientific and technological advances in our society)"

Von Schomberg definition, 2011



RRI Tools:
towards RRI in action
www.rri-tools.eu

RRI Tools. Fostering Responsible Research and Innovation

FP7-project RRI Tools will develop a Training and Dissemination Toolkit for fostering Responsible Research and Innovation. The EC has identified seven so-called Grand Challenges society is facing today, and research and innovation are expected to significantly contribute to meeting these challenges. However, research and innovation practices themselves require modifications, for instance because they often fail to address societal needs, leave open implementation gaps, or spark controversy. Thus, the EC has put forward the notion of Responsible Research and Innovation, or RRI, to simultaneously address both society's Grand Challenges and shortcomings existing in research and innovation practices. This policy brief provides a working definition of RRI and reports on the state of the art in responsible research and innovation.

RRI Tools – background and aims

Science and technology have proven to be transformative forces throughout history. Today they have gained humans the capacity to alter ecosystems and the Earth's climate and even to manipulate the building blocks of life itself. Research and innovation have changed our world and our lives, and will continue to do so. However parallel to the large positive impacts on human welfare and wellbeing that science and technology have had and probably will have, they also create new risks and ethical dilemmas, do not always succeed in solving the problems they are meant to, and sometimes spur controversy.

Over the last few decades many experiments have been done that aimed at decreasing the distance between science and society. For instance, in various public engagement exercises the public has been involved in discussions and policy decisions regarding science; collaborations between sciences, ethics and social sciences have been set up; experiments have been done with open source research data, user-driven innovation, citizen science, and much more besides.

These efforts have led to a European-wide approach in Horizon 2020 called Responsible Research and Innovation. RRI seeks to bring issues related to research and innovation into the open, to anticipate the consequences of research and innovation, and to involve society in discussing how science and technology can help create the kind of world and the kind of society we want for generations to come.

In five years time RRI Tools will develop a Training and Dissemination Toolkit concerning responsible research and innovation and put it to use through a Community of Practice. The toolkit will consist of a set of tools intended for a variety of users: raising awareness about RRI, and raising, implementing and disseminating RRI in Europe. A multi-disciplinary consortium with 26 partners operating in 30 European countries will develop and continuously optimize the toolkit. RRI Tools will address policymakers, researchers, life sciences industries, civil society organizations (CSOs), and science educators at national and regional levels, spreading RRI throughout society.

FACTS ON RRI TOOLS - Fostering Responsible Research and Innovation

GOAL
Propagating "responsibility" in the governance of science and technology, ethics and privacy, by raising and disseminating a list of Tools for policymakers, researchers, innovative industries, CSOs and educators.

COORDINATION
"la Caixa" Foundation

PARTNERS
26 institutions, active in 30 European countries

DURATION
5 years (01/2014 - 12/2019)

BUDGET
€ 9 million

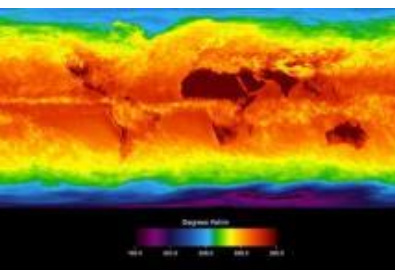
RRI Tools working definition

Following a survey of the relevant literature and consultation with experts, RRI has been provisionally defined as follows:

Responsible Research and Innovation is a dynamic, iterative process by which all stakeholders involved in the RRI practice become mutually responsive and share responsibility regarding both the outcomes and process requirements.

These projected outcome and process requirements will be elaborated below, but in short we can say that:

1. RRI's aim is to create a society in which research and innovation practices evolve towards sustainable, ethically acceptable, and socially desirable outcomes; and
2. RRI does so in such a way that the responsibility for our future is shared by all people and institutions affected by and involved in research and innovation practices.



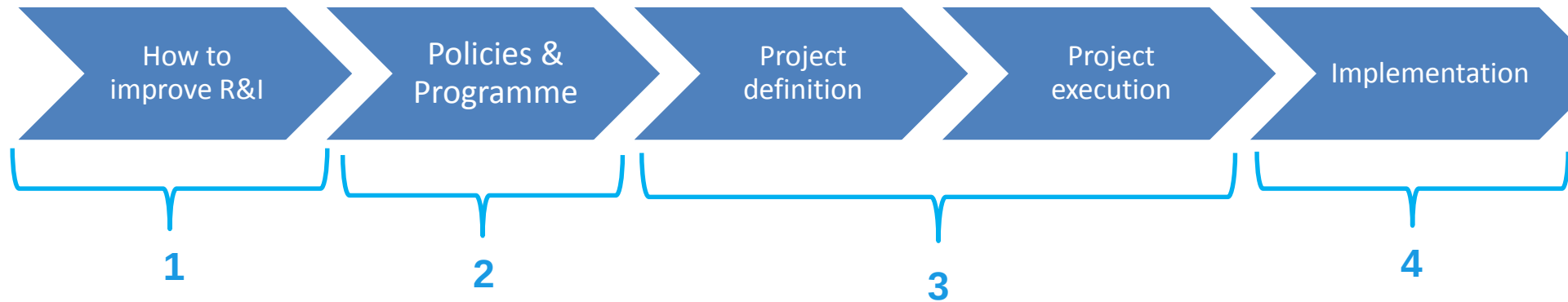
Agendas políticas de la RRI en H2020: enfoque holístico



3. Herramientas para aplicar la RRI

El RRI Toolkit: www.rri-tools.eu

Recursos para implementar la RRI



¿Qué me ofrece el RRI Toolkit?

Algunos ejemplos

El RRI Toolkit

Tipos de recursos disponibles



Biblioteca

Documents, videos, presentations, blogs to get informed on RRI and key issues

271



Proyectos

Get to know other projects already addressing RRI values

56



Prácticas inspiradoras

Good practices in RRI.
Want to follow their lead?

38



Herramientas

Access to different instruments to implement RRI and its policy agendas

104

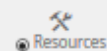
- + Herramienta para la Auto-Reflexión
- + Comunidad de práctica (+1000)
- + Herramientas para formación y difusión
- + Guías para la implementación

Toolkit /

RRI Toolkit

Built with and for the Community of Practice

Select between...



Resources



Users

I am looking for...

Type here what you are looking for

SEARCH

Inspiring Practice

Business & Industry

Filter resources by:

Type:

- ☒ Inspiring Practice
- ☐ Library Element
- ☐ Project
- ☐ Tool

Useful for:

- ☒ Business & Industry
- ☐ Civil Society Organizations
- ☐ Education Community
- ☐ Policy Makers
- ☐ Research Community

Address:

- ☐ Ethics
- ☐ Gender Equality
- ☐ Governance
- ☐ Open Access
- ☐ Public Engagement
- ☐ Science Education

more filters

By expertise required:

- ☐ Beginner
- ☐ Master
- ☐ Practitioner

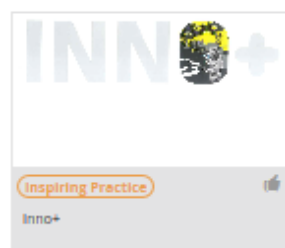
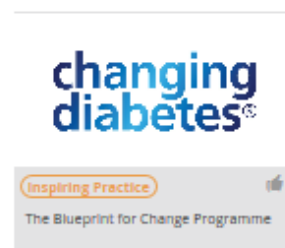
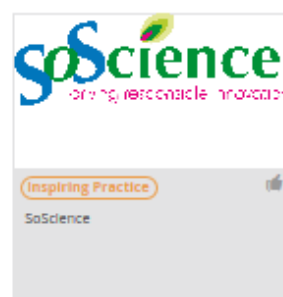
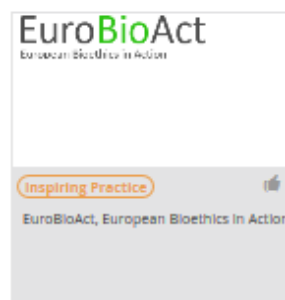
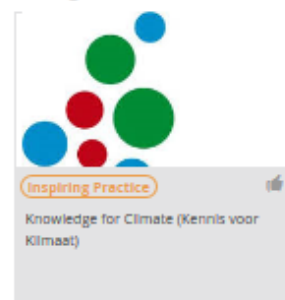
By language:

By category:

Inspiring Practice

- ☐ Organization
- ☐ Other
- ☐ Programme
- ☐ Project
- ☐ Tool

showing 12 results



Recursos para implementar la RRI

How to
improve R&I

Policies &
Programme

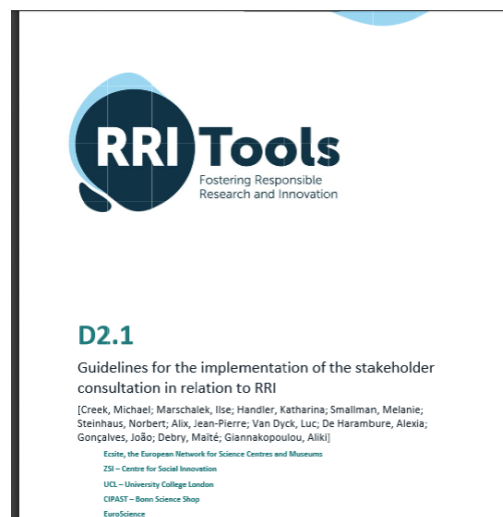
Project
definition

Project
execution

Implementation

1

Metodología para organizar talleres de consulta



411 Participantes – 27 Workshops en 30 países

Recursos para implementar la RRI

How to
improve R&I

Policies &
programme

Project
definition

Project
execution

Implementation

2

Marcos / Manifiestos / Documentos oficiales
/ Premios



Descripción de estructuras



Programas piloto, guías, planes para cambio estructural
en las agendas políticas



(Gender equality plans, PE plans,
Research Integrity Codes of Conduct,
Policies on open Access,
Plans for structural change...)

Métodos para definir agendas de investigación

Patient participation as dialogue: setting research
agendas

Tineke A. Abma Bc Msc PhD* and Jacqueline E. W. Broerse Msc PhD†
*VU Medical Center, EMGO Institute, Department of Medical Humanities, Amsterdam, The Netherlands
†Communication/Athena Institute, VU University, Amsterdam, The Netherlands



The gender-sensitive
research cycle
(yellowwindow.be)

Guías para definir convocatorias de financiación

Indicadores & herramientas de evaluación

Recursos para implementar la RRI

How to
improve R&I

Policies &
programme

Project
definition

Project
execution

Implementation

3 Estructuras para la evaluación y la supervisión de la I+D+I: Comités de Ética, Comités Asesores Comunitarios...



Stakeholders
Acting Together
On the ethical
impact assessment
of Research and
Innovation

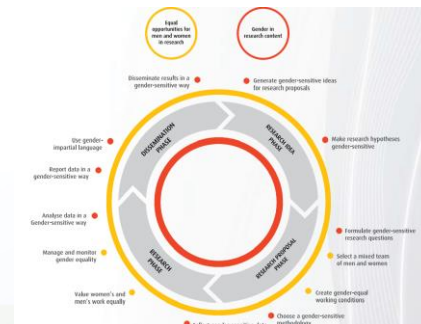
ABOUT SATORI

NEWS & MEDIA

RESULTS

EVENTS

COMPREHENSIVE
EMPIRICAL
ANALYSIS OF
ETHICS PRACTICES
IN THE EU



The gender-sensitive research
cycle (yellowwindow.be)

Recursos para implementar la RRI

How to
improve R&I

Policies &
programme

Project
definition

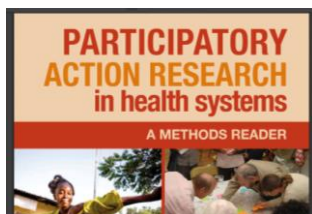
Project
execution

Implementation

- 3 **Otras estructuras & métodos para la co-creación:**
Community Based Participatory Research, Open Innovation,
citizen Science, midstream modulation ...



**European
Network of
Living Labs**



Recursos para implementar la RRI

How to
improve R&I

Policies &
programme

Project
definition

Project
execution

Implementation

3



Evidence based policy making

Recursos para implementar la RRI

How to
improve R&I

Policies &
programme

Project
definition

Project
execution

Implementation

+ Recursos para formación:
programas, recomendaciones y recursos



ALLEA
ALL European
Academies

Education à l'éthique

Déclaration du Groupe de travail per
sciences et l'éthique



4. Conclusiones

Una I+D+I más eficaz y de más impacto

1/8 Las necesidades en I+D+I van ligadas a los valores



Algunas innovaciones tienen consecuencias no esperadas y son controvertidas

2/8 El modelo de civilización viene definido en gran medida por avances en I+D+I

Faltan canales para CO-CREAR: ¿Qué innovación queremos? ¿Qué investigación necesitamos?



EPSRC

Engineering and Physical Sciences
Research Council

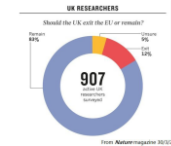
Anticipate, reflect, engage and act (AREA)

4/8 En RRI: PARTICIPACIÓN $\neq$ “delegated power”

LADDER OF PARTICIPATION



Level of participation	Examples of methods
Delegated power	Citizens decide
Collaboration	Participatory research, open innovation
Consultation	Evidence based policy making, feedback for research lines of their interest...
Public Contribution	Citizen Science, communication campaigns run by the community, crowdfunding...
Informing	Communication and traditional education campaigns run by experts



REFERENDUM

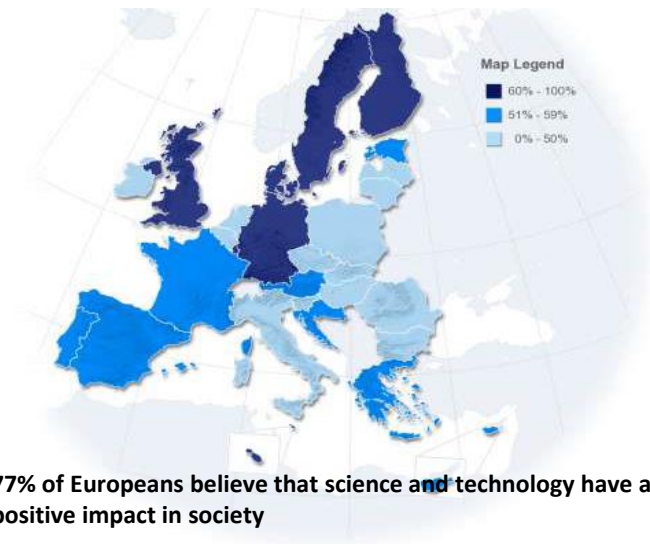


5/8 Hay una demanda social

DK	72%
SE	69%
DE	66%
MT	65%
UK	64%
LU	63%
FI	62%
EL	59%
FR	58%
CY	57%
EU	55%
EE	55%
AT	55%
ES	53%
PT	51%
IE	50%
BG	50%
BE	49%
PL	48%
NL	47%
LT	47%
IT	47%
CZ	46%
LV	45%
HU	44%
SK	43%
RO	43%
SI	40%
HR	37%

What is the level of involvement citizens should have when it comes to decisions made about science and technology?

Answer: Public dialogue is required (Req: 55% - Not Req: 37%)



62% agree that science makes our way of life change too fast

55% think that public dialogue is required when it comes to decisions made about science and technology

“Nothing about Us, Without Us”



1983: Principios de Denver

6/8 Oportunidad para dar mejor respuesta a las voces silenciosas....



The 10/90 gap

Most drug research is for the wealthiest people on earth

More than

\$70bn

is spent each year in the world on research and development of new drugs

Less than

10%

of this is spent on

90%

of the world's health problems

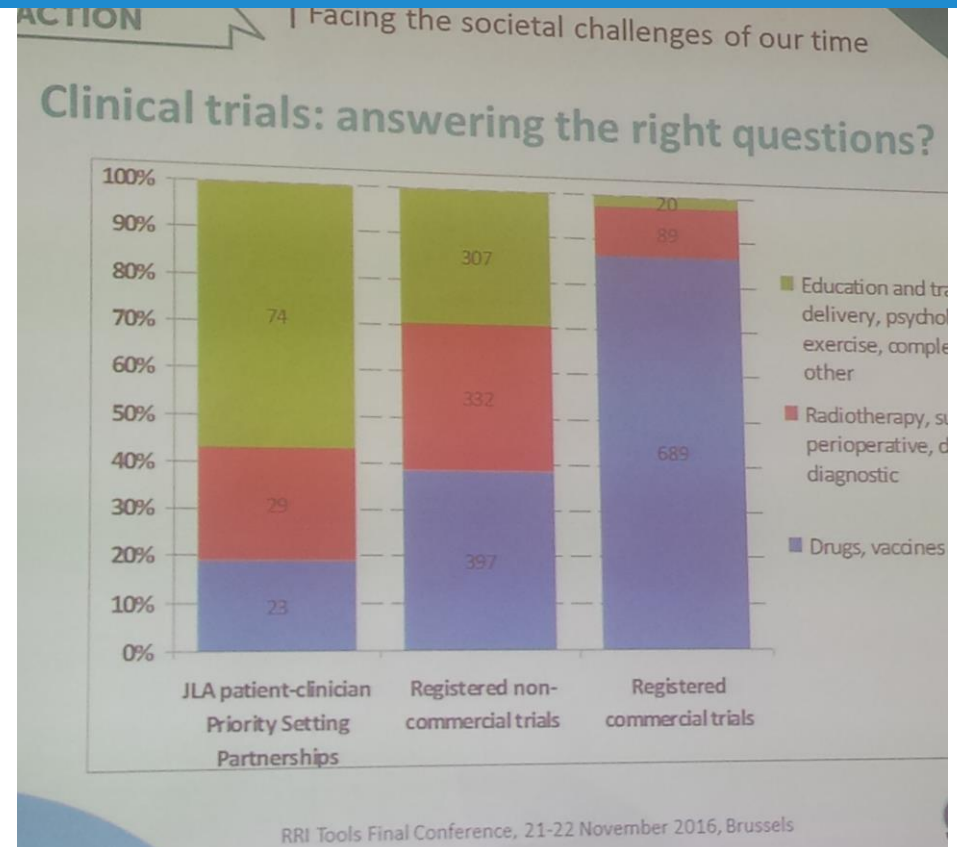
New drugs are needed for: sleeping sickness, dengue fever, malaria, schistosomiasis, tuberculosis, chagas disease, lymphatic filariasis, leishmaniasis, leprosy, onchocerciasis.

*The Guardian. Special
Report. Aids.*

7/8 Ya hay actores que empiezan a dar voz a estos actores silenciosos



Pacientes en órganos de decisión



Education and training, service delivery, psychological, physical exercise, complementary, diet...

Radiotherapy, surgery and perioperative, devices and diagnostic

Drugs, vaccines and biologicals

8/8 R+D+I: Excelencia, Apertura, Impacto

Open **Innovation**
Open **Science**
Open to the **World**

– a vision for Europe

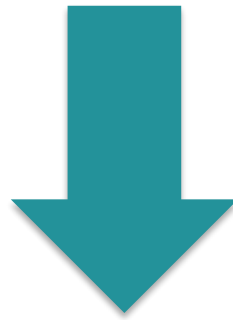
EC, 2016

Investigación de **excelencia**

Apertura
I+D+I más eficiente

Impacto
R+D+i **éticamente** aceptable
Alineada con las **necesidades** sociales
Legitimizada (cultura de innovación)
Sostenible

DEFICIT MODEL



Modelo de responsabilidad
compartida

¡COMPARTE TU RESPONSABILIDAD!
¡Muchas gracias!



Living Lab de Salud
Promovemos la salud con y para la sociedad

Rosina Malagrida

Head of Living Lab for Health

IrsiCaixa, Hospital Germans Trias, Barcelona

rmalagrida@irsicaixa.es

www.irsicaixa.es/publicengagement

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@EnRRICH_EU

Otros miembros de IrsiCaixa:

Pep Coll

Researcher and MD at IrsiCaixa

Josep Carreras

Educator and science communicator
at Living Lab for Health

PROGRAMA

Reunión de coordinación EURAXESS Spain

11.45-12.45h: **Introducción** a la RRI.

Comida

13.45-14.45h **Taller I:** Reflexión conjunta sobre los obstáculos y oportunidades de aplicar la RRI

14.45-15.45h **Taller II:** Preparación de presentaciones sobre las agendas políticas de la RRI (género, educación, ética, participación y open Access) utilizando la web de RRI Tools (www.rri-tools.eu).

Presentaciones.

La presentación debe incluir: Objetivos, principales líneas de actuación y un ejemplo de una herramienta para aplicar alguna de estas líneas.

Break

16-17h **Taller III:** Aplicación de la RRI a mi entorno laboral. Utilizando la herramienta “ [Action Catalogue](#)”, identificamos una metodología y se hacen propuestas de cómo se podría implementar.

Presentaciones.