

# RRI a Horizon 2020

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**Departament d'Economia  
i Coneixement**



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



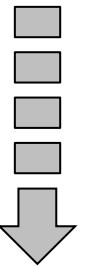
**Recerca Responsable i Innovadora - RRI**

RRI

Ciència | Societat  
(6PM – 2002-2007)  
80 M€

- Juny 2001 – Comunicat CE
- Desembre 2001- “Science and Society Action Plan”

Ciència **EN** Societat  
(7PM – 2007-2013)  
330 M€



Ciència **AMB** i **PER** la Societat

Ciència ↔ Societat

(Horizon 2020 – 2014-2020)  
500 M€



*“..we can only find the right answers by involving as many stakeholders as possible in the research and innovation process. **Research and innovation must respond to the needs and ambitions of society, reflect its values and be responsible...our duty as policy makers (is) to shape a governance framework that encourages responsible research and innovation”***

*Geoghegan-Quinn, “Science in Dialogue – Conference on Responsible Research and Innovation” (Odense, Dinamarca, 23-25 Abril 2012)*

*“To support “the best science *for the world*” and not just “the best science *in the world*”*

*P. Morten Østergaard, Ministre danès de Ciència i Economia (Odense, Dinamarca, 23-25 Abril 2012)*

# Legislació Horizon 2020

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- **Reglament No 1291/2013 del Consell i Parlament Europeu d'11 desembre 2013 on s'estableix Horizon 2020:** RRI is designed to be implemented as a [cross-cutting issue](#) in Horizon 2020, outlined in its article 14. This approach is designed to make RRI mainstream throughout Horizon 2020. In practice, this means that special attention has been paid to ensure that RRI elements will appear in relevant call topics within Horizon 2020. Specifically, internal screenings are planned to monitor the level of RRI embedding in the different work programmes. Criteria for evaluating the success of such approach include the integration of multi-actor and public engagement, gender, ethics, science education and open access.
- ***Work Programme Horizon 2020 (general)***
- ***Work Programmes Programmes.***

# Legislació Horizon 2020

RRI

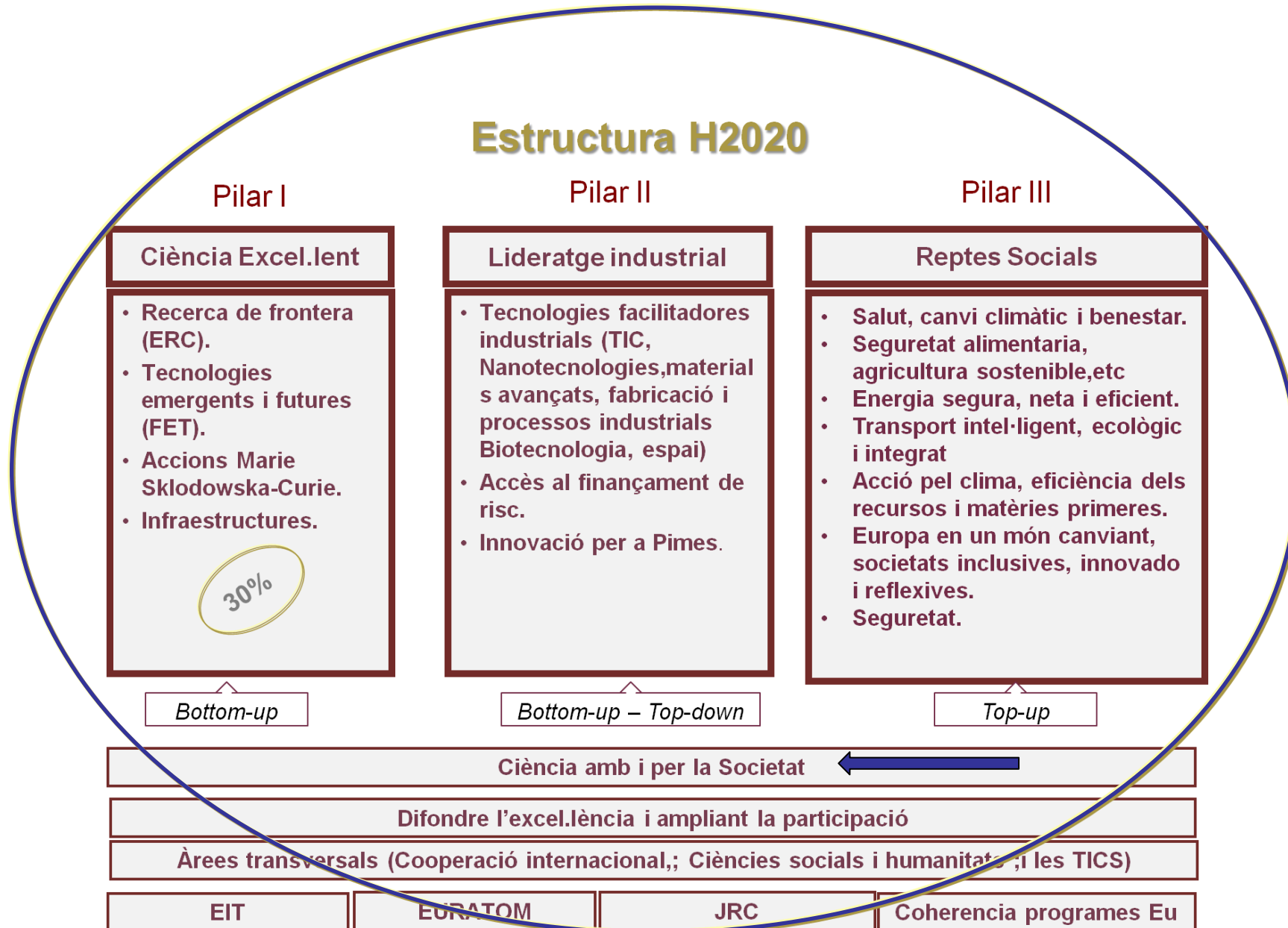
## Reglament Horizon 2020

- Art. 12 External advice and societal engagement
- Art. 13 Cross-cutting actions
- Art. 15 Gender equality
- Art. 16 Ethical principles

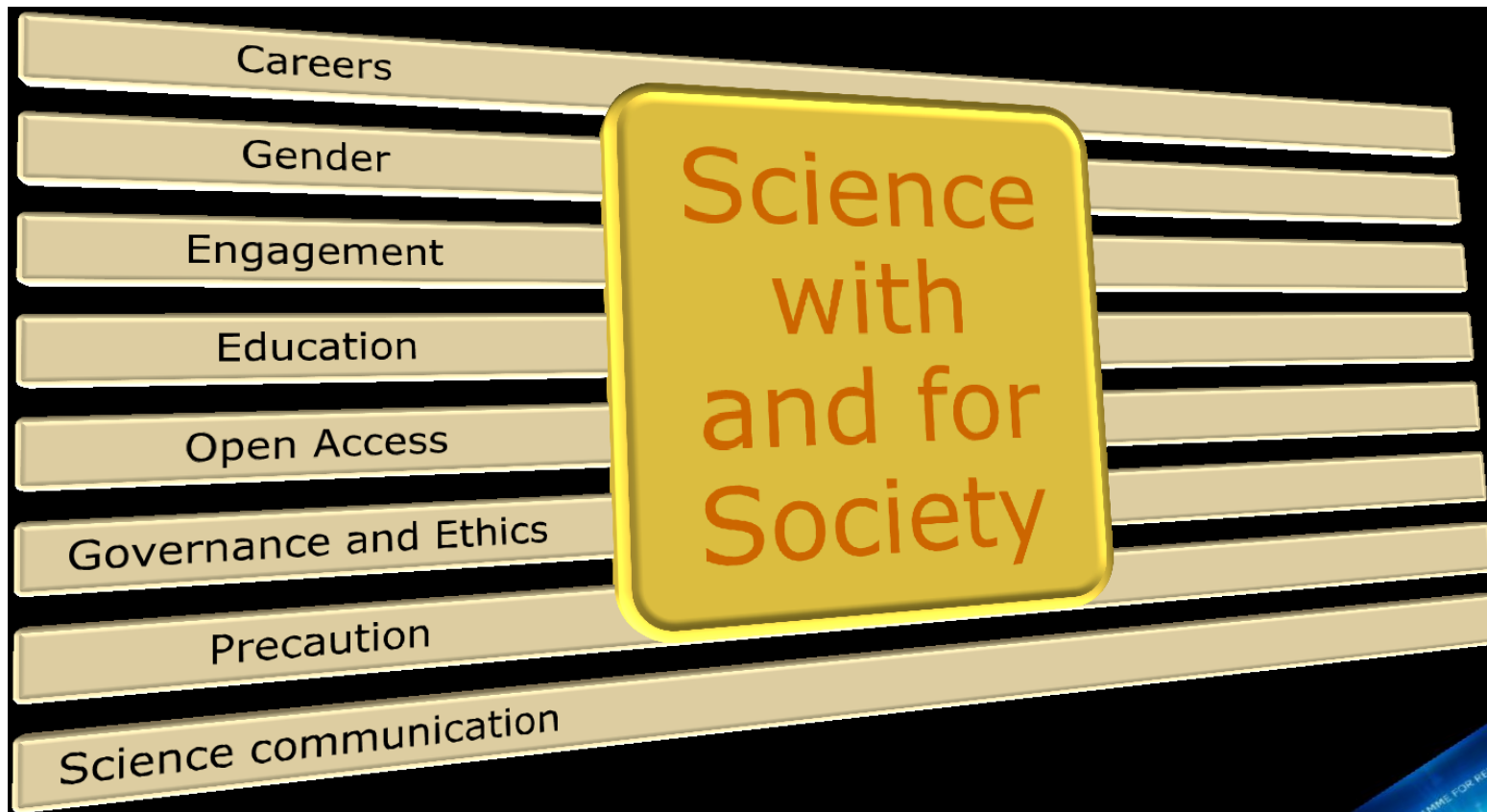
## Normes de participació Horizon 2020

- Art. 12 Proposals
- Art. 13 Ethics Review
- Art. 16 Grant Agreement
- Art. 19 Implementation of the action
- Art. 37 Appointment of independent experts
- Art. 40 Exploitation and dissemination of results
- Art. 41 Transfer and licensing of results

## ■ RRI a Horizon 2020:



# Ciència Amb i Per la Societat





# Ciència en Societat – FP7 (2007-2013)

## Projectes finançats

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	Projectes finançats
Línea d'acció 1 - Governança	84
Línea d'acció 2 – Potencial	52
Línea d'acció 3 - Comunicació	15
Línea d'acció 4 – Activitats Estratègiques	3
<i>Total</i>	154

7 Topics sobre RRI (Convocatòria 2012: 3;  
Convocatòria 2013: 4)

# SWAFS– Horizon 2020

## WP 2014-2015

	2014 Topics	2015 Topics	Total
<i>Making science education and careers attractive for young people (SEAC)</i>	3 (12,2 M€)	2 (10,4 M€)	5 (22,6 M€)
<i>Promoting gender equality in research and innovation (GERI)</i>	3(9,5 M€)	2(9,0 M€)	5 (18,5 M€)
<i>Integrating society in science and innovation (ISSI)</i>	3(10,3 M€)	4(22,0 M€)	7 (32.3M€)
<i>Developing governance for the advancement of responsible research and innovation (GARRI)</i>	6(12,3 M€)	2(5,3 M€)	8 (17,6 M€)
<b>Total</b>	<b>15 (44,3 M€)</b>	<b>10 (46,7 M€)</b>	<b>25 (91,0 M€)</b>

**4 projectes RRI** (*RRI in higher education curricula; Fostering RRI uptake in current research and innovations systems; Supporting structural change in reserach organisations to promote RRI; RRI in industrial context* )

# RRI- Horitzontal H2020

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➤ **SC2. Seguretat alimentaria, agricultura,..**

ISIB-8-2014 Towards an innovative and responsible bioeconomy

➤ **NMP**

NMP 32 2015 Societal engagement on responsible nanotechnology

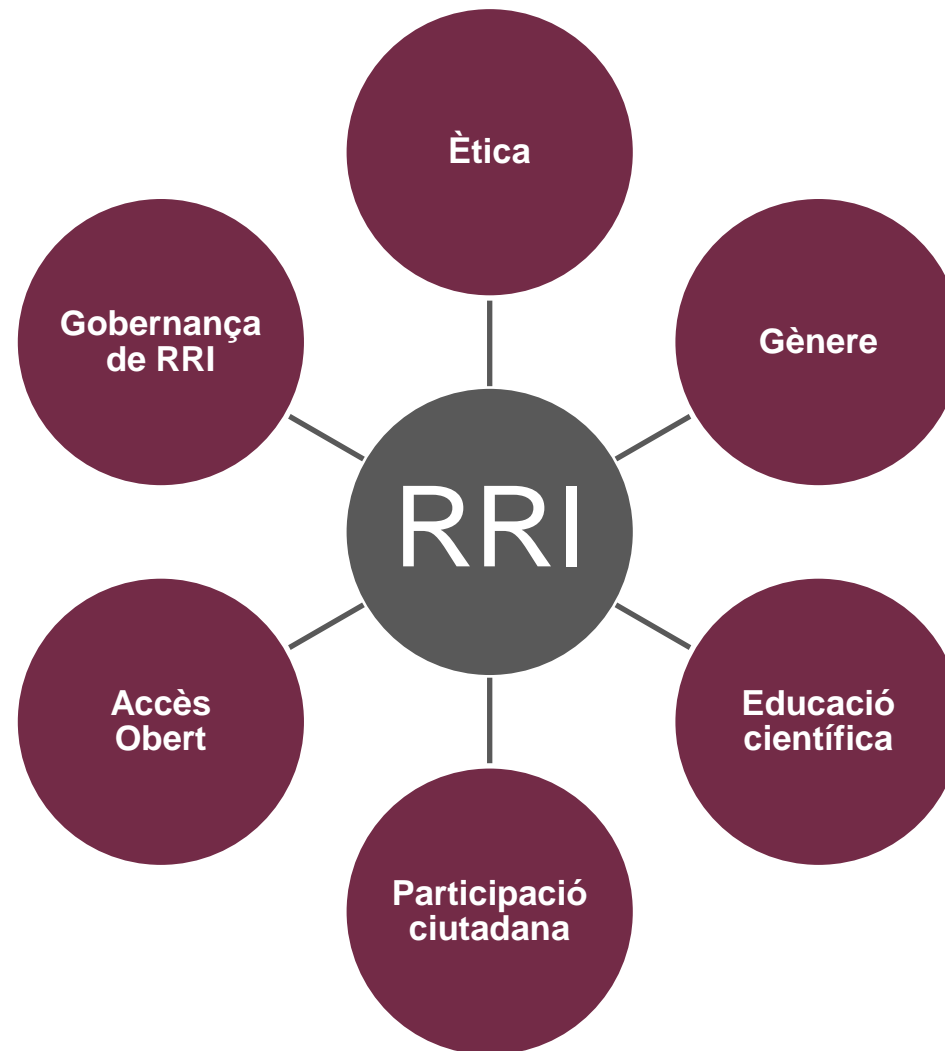
➤ **TIC:**

ICT10.1.2016 **Enabling responsible ICT-related research and innovation**

➤ **SC6 Europa en un món canviant:**

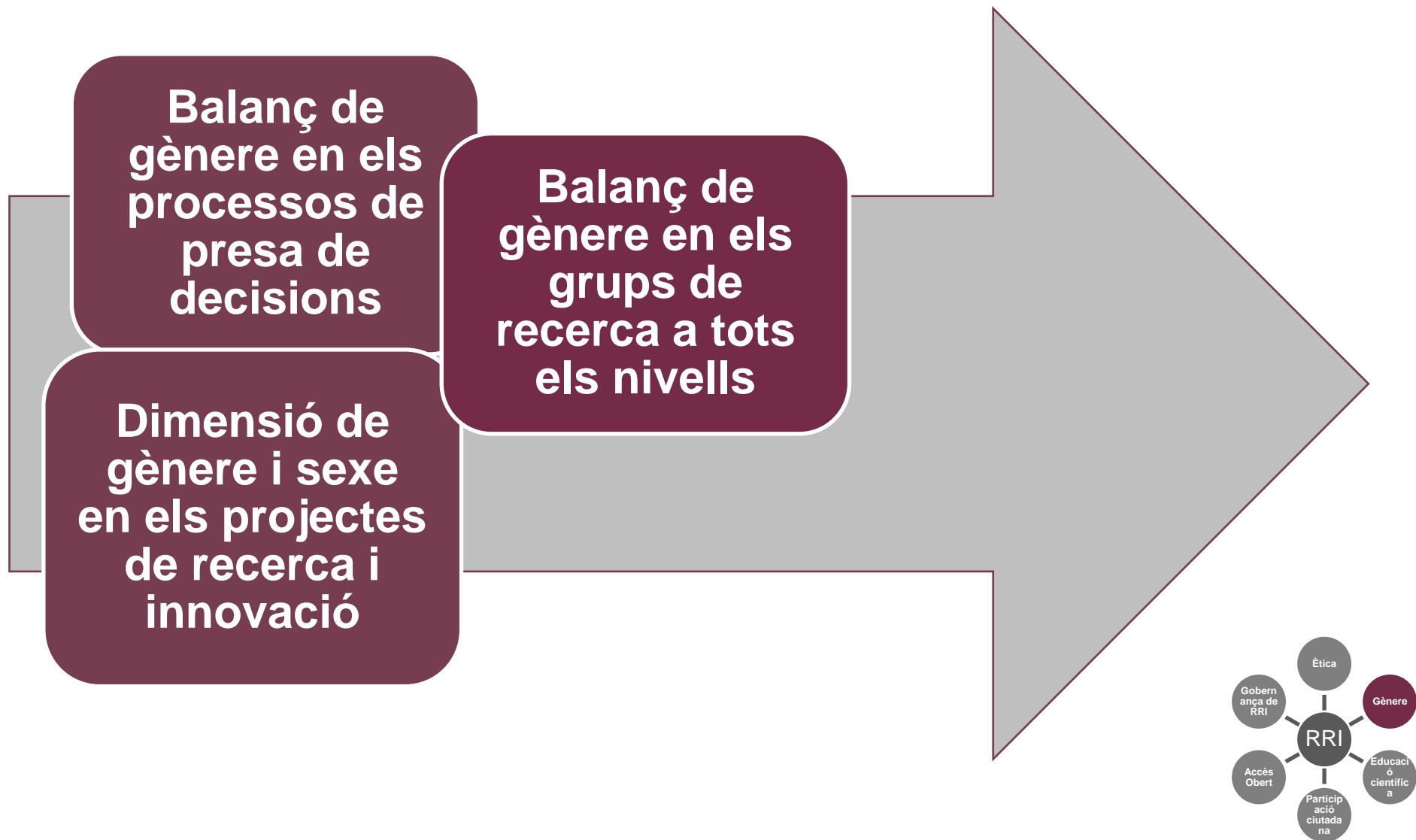
REV-INEQUAL-2017-9 Social Sciences and Humanities – **Responsible Research and Innovation** (SSH-RRI) hub for information and communication technologies (ICT)

## ➤ Elements de la RRI:



*For, with and  
by society*

## ■ Gènere a H2020, 3 objectius:





## Balanç de gènere en els grups de recerca a tots els nivells

*Si no es compleix, la CE pot aplicar mesures (rejection of costs, finalització del projecte, etc) (Art. 33,1 del mono I multi beneficiary Model Grant Agreement)*

**Justificació**  
Balanç de gènere

**Proposta**  
Indicar el gènere de la persona principal responsable del projecte i de l'equip.

*While signing the Grant Agreement, beneficiaries "must take all measures to promote equal opportunities between men and women in the implementation of the action" and "must aim, to the extent possible, for a gender balance at all levels of personnel assigned to the action, including at supervisory and managerial level" (Art. 33,1 del mono I multi beneficiary Model Grant Agreement.*

**Acordament**  
oportunitats i gènere a tots els nivells

**Avaluació**  
A igualtat de puntuació, el balanç de gènere és un factor en el ranking

## Balanç de gènere en els processos de presa de decisions

- Polítiques.
- Projectes institucionals.
- Polítiques i Iniciatives de Recursos Humans (*Human Resources Strategy for Researchers, Charter of Researchers i Code of Conduct*, etc).
- Programes de mobilitat i formació investigadors (MSCA).





Alguns topics necessiten de l'anàlisi de gènere o sexe

### Justificació

El consorci haurà de justificar la dimensió de gènere si es rellevant com a part dels *deliverables*

### Proposta

*“Where relevant describe how sex and/or gender analysis is taken into account in the project's content”*

### Grant Agreement

La dimensió de gènere forma part del DOW.

### Avaluació

Els experts avaluen la inclusió de la dimensió de gènere sota el criteri d'excel·lència



# Gènere a H2020



	Pilar I. Ciència Excel·lent		Pilar II. Lideratge Industrial			Pilar III. Reptes Socials						
	FET	Infraestructures	TIC	NMP/Biotecnologies i manufactures	Espai	SC 1 Salut	SC 2. Agricultura	SC3. Energia	SC4. Transport	SC5. Canvi climàtic	SC6. Europa en un món	SC7. Societats Segures
<b>Gènere</b>	1	0	2	4	2	20	4	4	9	6	15	8
<i>Total Projectes WP</i>	4	22	46	46	30	51	49	47	53	32	44	59

-Nº de topics on surt la paraula gènere en el WP 2014-2015.

-No s'inclouen els topics inclosos a "Altres" del WP ni els de les PPPs (Public Private Partnerships)

# Gènere a H2020



Some Comments Experts (*Evaluation Summary Report (ESR)*):

- ✓ SC6: The treatment of gender issues is among the strong parts of the proposal.
- ✓ SC1: The project clearly takes the gender dimension extremely seriously.
- ✓ SC6: The horizontal themes are given proper representation in the management structures.
- ✓ ICT: Gender issues are not taken into account. Strong weakness.

		SC6. Europa en un món	SC7. Societats Segures
Gènere		15	8
Total Projectes WP		44	59

-Nº de topics on surt la paraula gènere en el WP 2014-2015.

-No s'inclouen els topics inclosos a "Altres" del WP ni els de les PPPs (Public Private Partnerships)

## Aspectes ètics:

- Part integral de tots els projectes d'H2020.
- Compromís normativa nacional, europea, drets humans, etc.
- Tots els actors de la societat (recerca, societat civil) han d'actuar de manera "responsable" i amb integritat.

- Marc legal:

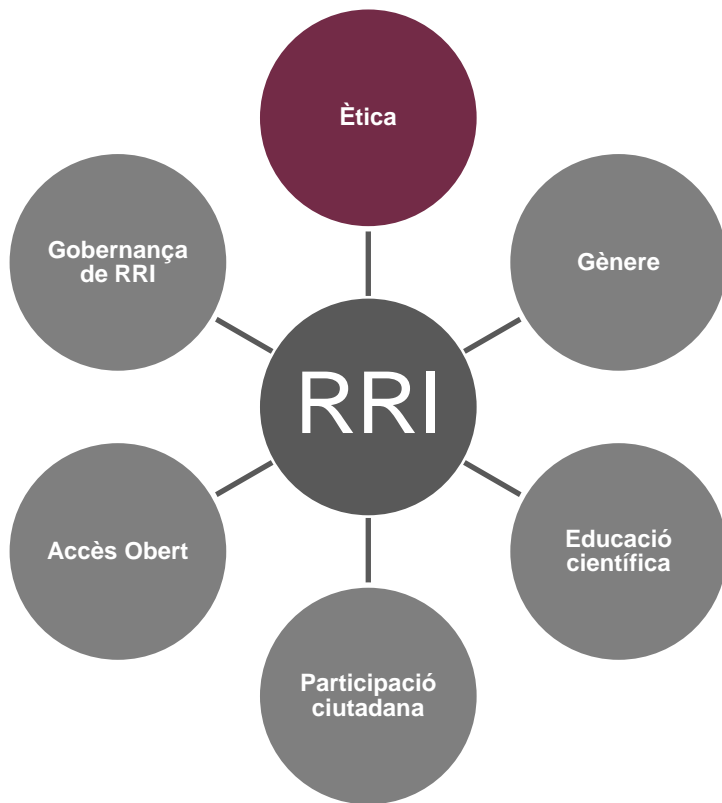
-H2020 – Regulation of Establishment: *Ethical Principles* (Article 19)

-Horizon 2020 Rules for participation: *Ethics Review* (Article 14)

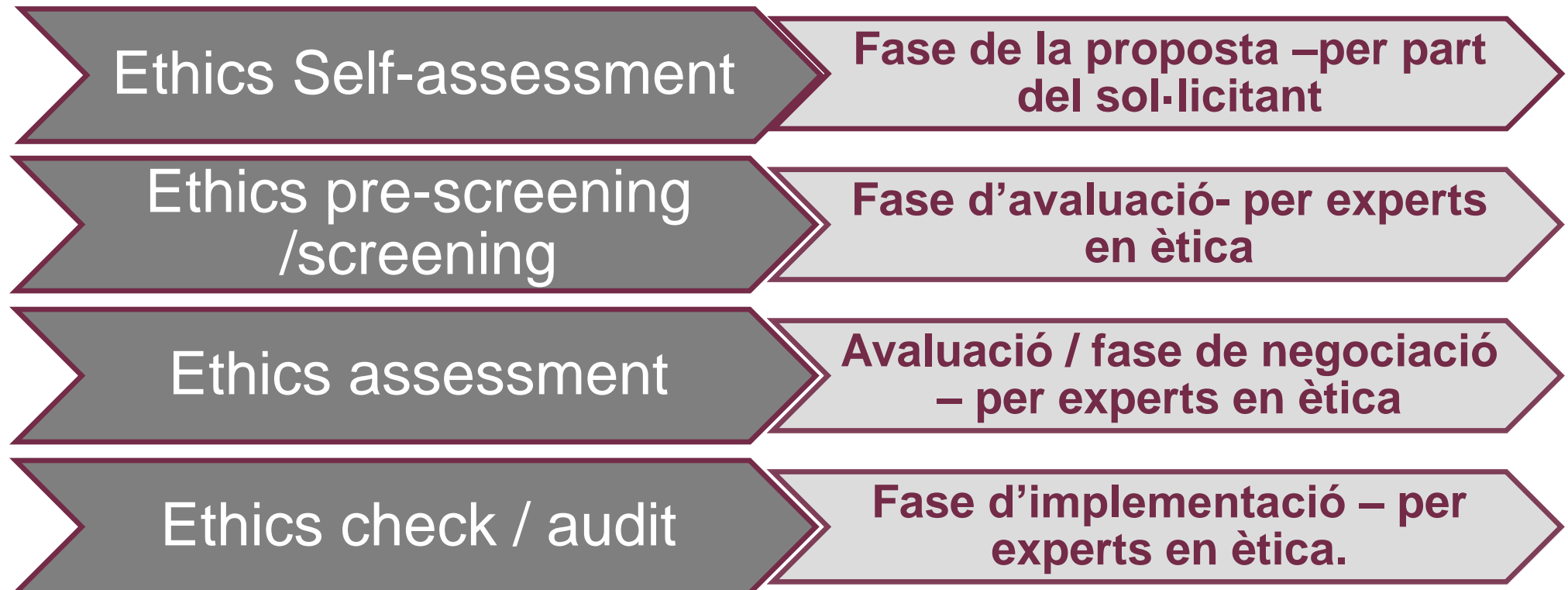
-Model Grant Agreement: *Ethics* (Article 34)

-Veure mes:

[http://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/ethics\\_en.htm](http://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/ethics_en.htm)



# Procediment d'aproximació als aspectes ètics a *Horizon 2020:*



# Aspectes a tenir en compte:

- Manca de consistència.
- Participació de tercers països.
- Manca de informació, es detecten aspectes ètics però no es comenta com es controlarà.
- Seguretat pels participants i investigadors.
- Projectes que involucren a menors (0-17 anys: no es comenta benefici de l'infant en la recerca).
- Recerca clínica. No es justifica bé la intervenció humana des d'una perspectiva ètica i de protecció de dades, els formularis de consentiment no s'han aportat, etc.
- Recerca en animals: no es comenta nº utilitzat, metodologies, si hi ha altres alternatives a la no utilització d'animals.
- Protecció de dades i privacitat (codificació, emmagatzematge i conversió de les dades personals en anònimes).
- Referències escasses o superficials de la legislació.
- No tenir en compte alguns aspectes ètics que provenen: participació de grups especials de la població// recerca que es desenvolupa en zones en conflicte o àrees on no existeixen infraestructures de recerca, etc.

# Aspectes ètics a H2020

	Pilar I. Ciència Excel·lent		Pilar II. Lideratge Industrial			Pilar III. Reptes Socials						
	FET	Infraestructures	TIC	NMP/Biotecnologies i manufactures	Espai	SC 1 Salut	SC 2. Agricultura	SC3. Energia	SC4. Transport	SC5. Canvi climàtic	SC6. Europa en un món canviant	SC7. Societats Segures
<b>Aspectes Ètics</b>	2	0	1	1	0	13	0	0	3	0	4	14
<i>Total Projectes WP</i>	4	22	46	46	30	51	49	47	53	32	44	59

*-Nº de topics on surt la paraula Ètica en el WP 2014-2015.*

*-No s'inclouen els topics inclosos a "Altres" del WP ni els de les PPPs (Public Private Partnerships)*

# Aspectes ètics a H2020

	Pilar I. Ciència Excel·lent	Pilar II. Lideratge Industrial			Pilar III. Reptes Socials						
	FET	Infraestruc-	NMP/Biotecno-		SC 2	SC3	SC4	SC5. Canvi	SC6. Europa en	SC7. Societats Segures	
Aspectes Ètics	2	<b>Some Comments Experts (<i>Evaluation Summary Report (ESR)</i>):</b> ✓ SC6: The ethics section is much more developed than in other proposals. ✓ SC7: Ethical issues tackle poorly									14
Total Projectes WP	4										59

-Nº de topics on surt la paraula Ètica en el WP 2014-2015.

-No s'inclouen els topics inclosos a "Altres" del WP ni els de les PPPs (Public Private Partnerships)



## Participació ciutadana – *Public engagement*:

- Participació de la societat civil en totes las fases de la recerca (definició d'agenda, desenvolupament de la recerca, resultats)
- Integració de la societat en el contingut de la recerca i innovació.





## Participació ciutadana /Compromís del públic:



- Inclou la major diversitat possible d'actors en els assumptes de la ciència, la recerca, la tecnologia i la innovació (participar, reflexionar i deliberar).
- Implica l'establiment de vies de diàleg bidireccionals i iteratives i l'intercanvi de coneixements entre molts actors per fomentar l'enteniment mutu i la creació conjunta dels resultats de la recerca i la innovació i les agendes polítiques

**Recerca i  
Innovació  
Participativa**

**Responsabilitat  
conjunta i  
aprenentatge  
mutu.**

**Polítiques de  
creació conjunta**



## Participació ciutadana /Compromís del públic

- *Accions Mutual Learning Actions (MML).*
- *Multi-actor Approach.*
- *Concepte Co-Creation.*
- *End-user.*
- *Outreach activities.*
- *Agenda ( focus grups, face to face, online surveys, etc).*

...

## Multi-actor Approach – SC2 (Agricultura)



Descripció del topic: “**Proposals should fall under the concept of multi-actor approach**”  
(Pàgina 4, nota a peu de plana nº 4 del WP SC2 descriu aquesta aproximació).

*“The multi-actor approach aims at more demand-driven innovation through the genuine and sufficient involvement of various actors (end-users such as farmers/farmers' groups, fishers/fisher's groups, advisors, enterprises, etc.) all along the project: from the participation in the planning of work and experiments, their execution up until the dissemination of results and the possible demonstration phase. The adequate choice of key actors with complementary types of knowledge (scientific and practical) should be reflected in the description of the project proposals and result in a broad implementation of project results. The multi-actor approach is more than a strong dissemination requirement or what a broad stakeholders' board can deliver: it should be illustrated with sufficient quantity and quality of knowledge exchange activities and a clear role for the different actors in the work. This should generate innovative solutions that are more likely to be applied thanks to the **cross-fertilisation of ideas between actors, the co-creation and the generation of co-ownership for eventual results**. A multi-actor project needs to take into account how the project proposal's objectives and planning are targeted to needs / problems and opportunities of end-users, and the complementarity with existing research. Facilitation between actors and openness to involve additional actors/groups of actors in the project, for instance relevant groups operating in the EIP context, are strongly recommended. See topics SFS-1A; SFS-1C; SFS-2A; SFS-2B; SFS-3A; SFS-4; SFS-5; SFS-7A; SFS-13; SFS-20; ISIB-2; ISIB-4B, WASTE-2 and WASTE-7”*

# Multi-actor Approach – SC2 (Agricultura)



Descripció del topic: “**Proposals should fall under the concept of multi-actor approach**”  
(Pàgina 4, nota a peu de plana nº 4 del WP SC2 descriu aquesta aproximació).

*“The multi-actor approach aims at more demand-driven innovation through the genuine and sufficient involvement of various actors, including farmers, fishers/fisher's groups, and other stakeholders, and their participation in the dissemination of results. The adequate choice of key actors with complementary skills and knowledge should be reflected in the description of the project. The multi-actor approach is more likely to deliver the expected results. The multi-stakeholders' board can deliver: it should be established from the start and facilitate the exchange activities and a clear role for the different actors in the work. This should generate innovative solutions that are more likely to be applied thanks to the **cross-fertilisation of ideas between actors, the co-creation and the generation of co-ownership for eventual results**. A multi-actor project needs to take into account how the project proposal's objectives and planning are targeted to needs / problems and opportunities of end-users, and the complementarity with existing research. Facilitation between actors and openness to involve additional actors/groups of actors in the project, for instance relevant groups operating in the EIP context, are strongly recommended. See topics SFS-1A; SFS-1C; SFS-2A; SFS-2B; SFS-3A; SFS-4; SFS-5; SFS-7A; SFS-13; SFS-20; ISIB-2; ISIB-4B, WASTE-2 and WASTE-7”*

WP SC2 : Convocatòria 2014 (12 topics)  
Convocatòria 2015 (8 topics)

148 M€ WP 2014-2015.

## Co-Creation (SC6 – WP 2016-2017)



*“Co-creation is the active flow of information and ideas among different sectors of society (academia, government at all levels, business, third sector and citizens) which allows for a better understanding of **participation, engagement and empowerment** when developing policy and programmes, creating and improving services and tackling systemic change within each dimension of society.*

*Through engaging citizens to redesign and remake their cities and communities together with businesses, public authorities, universities and all stakeholders, co-creation can lead to **citizen empowerment**, jobs creation through innovation, more efficient and effective public administration and strengthening democracy through open government. Co-creation can increase the innovation capacity of all sectors, by increasing the sources for new ideas, and facilitating cross-fertilisation through knowledge and experience sharing. Through the co-production of services with citizens and business, co-creation can reduce costs and build on design driven ideas and testing of new solutions” (Draft WP SC6 2016-2017)*

# Public Engagement a H2020

	Pilar I. Ciència Excel·lent		Pilar II. Lideratge Industrial			Pilar III. Reptes Socials						
Participació ciutadana	FET	Infraestructures	TIC	NMP/Biotecnologies i manufactures	Espai	SC 1 Salut	SC 2. Agricultura	SC3. Energia	SC4. Transport	SC5. Canvi climàtic	SC6. Europa en un món canviant	SC7. Societats Segures
Co-creation	0	0	2	0	0	0	0	0	0	0	3	0
Multi-actor	0	0	1	0	0	1	1	0	0	3	9	0
End-user	0	1	7	7	0	2	8	7	3	4	0	19
Total Projectes WP	4	22	46	46	30	51	49	47	53	32	44	59

*-Nº de topics on surt el concepte de public engagement en el WP 2014-2015.*

*-No s'inclouen els topics inclosos a "Altres" del WP ni els de les PPPs (Public Private Partnerships)*

# Public Engagement a H2020

Some Comments Experts (*Evaluation Summary Report (ESR)*):

Participació ciutadana	
Co-creation	
Multi-actor	
End-user	
Total Projectes WP	

- ✓ SC1: The project includes close collaboration with patient associations
- ✓ SC6: End-users and stakeholders are considered as part of the project and networking
- ✓ SC6: Engagement with several endusers and stakeholders is proposed which is good.
- ✓ SC2: The strategy will target a variety of actors (... , NGOs, young professionals, citizens and other actors involved) with dedicated communication tools.
- ✓ NMP: It is not fully explained how affordable the developed solutions will be to the end-users
- ✓ PHC: However, other elements such as enhancement of citizen participation and participatory management concepts are much less developed
- ✓ SWAFS: There is a lack of provision for two-way information exchange between scientists and society.

-Nº de  
 -No s'ii  
 Partne

ats
es



## Accès obert:

- Optimitzar l'impacte de la recerca pública.  
Impacte esperat:
- Millor explotació de resultats per la indústria innovadora → Creixement i generació d'ocupació.
- Millor difusió de resultats de la recerca cap a la comunitat científica i cap a la societat → Millor ciència, més transparència.
- Estratègia central de la CE per millorar la circulació de la informació i per tant de la innovació.

### Documents d'interès:

Comunicació de la Comissió Europea: *Towards better access to scientific information: Boosting the benefits of public investments in research* - COM(2012) 401 final

*Recommendation on access to and preservation of scientific information* - SWD(2012) 222 final



# Com s'implementa a Horizon 2020?

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- Necessari ( Green Open Access i Gold Open Access)
- Novetat a H2020: **Pilot on *Open Research Data*** (Article 29.3 del Model Grant Agreement). En el WP 2014-2015, les àrees que participen són:
  - ✓ *Future and Emerging Technologies;*
  - ✓ *Research infrastructures – part e-Infrastructures;*
  - ✓ *Leadership in enabling and industrial technologies – Information and Communication Technologies;*
  - ✓ *Societal Challenge: Secure, Clean and Efficient Energy – part Smart cities and communities;*
  - ✓ *Societal Challenge: Climate Action, Environment, Resource Efficiency and Raw materials – with the exception of raw materials topics;*
  - ✓ *Societal Challenge: Europe in a changing world – inclusive, innovative and reflective Societies;*
  - ✓ *Science with and for Society.*

***Data Management Plan (DMP)***

# Open Access a H2020

	Pilar I. Ciència Excel·lent		Pilar II. Lideratge Industrial			Pilar III. Reptes Socials						
	FET	Infraestructures	TIC	NMP/Biotecnologies i manufactures	Espai	SC 1 Salut	SC 2. Agricultura	SC3. Energia	SC4. Transport	SC5. Canvi climàtic	SC6. Europa en un món canviant	SC7. Societats Segures
<b>Open Access</b>	0	0	0	2	0	0	0	0	0	0	0	0
Total Projectes WP	4	22	46	46	30	51	49	47	53	32	44	59

-Nº de topics on surt la paraula Open Access en el WP 2014-2015.

-No s'inclouen els topics inclosos a "Altres" del WP ni els de les PPPs (Public Private Partnerships)

# Open Access a H2020

	Pilar I. Ciència Excel·lent	Pilar II. Lideratge Industrial			Pilar III. Reptes Socials							
										SC6.	SC7. Societats Segures	
	<b>Some Comments Experts (<i>Evaluation Summary Report (ESR)</i>):</b>											
Open Access	<ul style="list-style-type: none"> <li>✓ SC6: The question of data management is addressed adequately.</li> <li>✓ FET: All data collected would be released under open licences.</li> <li>✓ MSCA: IPR issues are not properly addressed. Open access not mention.</li> <li>✓ SWAFS: Open access policies for outputs are not clearly defined and plausible.</li> </ul>											
Total Projectes WP											0	59

-Nº de topics on surt la paraula Open Access en el WP 2014-2015.

-No s'inclouen els topics inclosos a "Altres" del WP ni els de les PPPs (Public Private Partnerships)



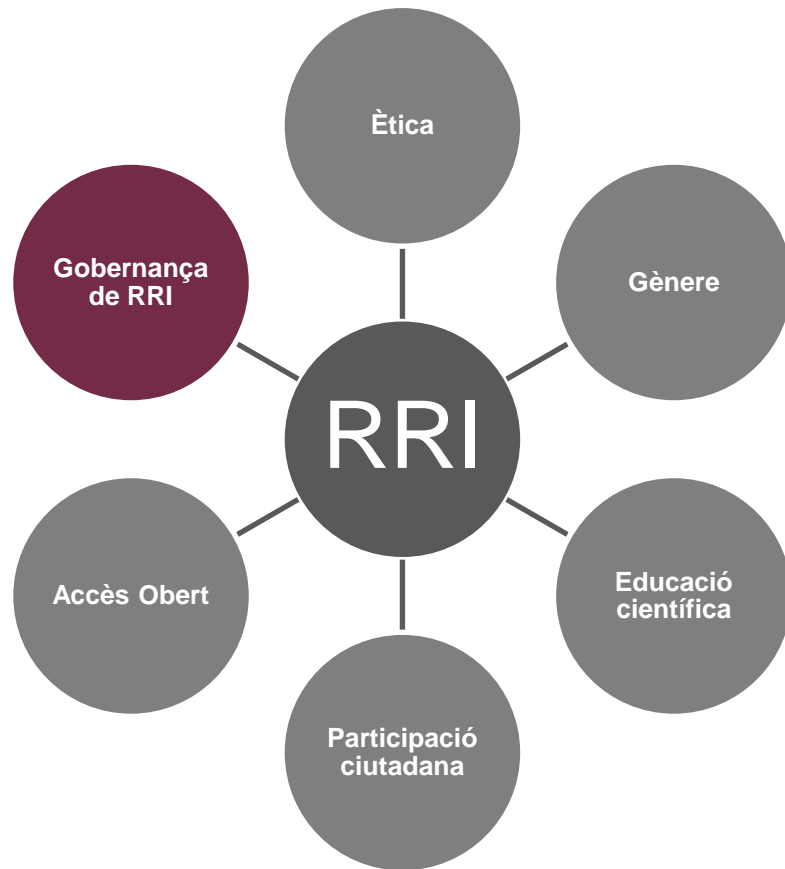
## Educació científica:

- Mètodes d'ensenyament basats en la indagació.
- Suport a projectes multiplicadors, formació de professorat.
- Us de continguts didàctics: Comunitat de professors Scientix – [www.scientix.eu](http://www.scientix.eu)
- Grup d'experts en Educació científica (en valoració).

# Educació Científica a H2020

	Pilar I. Ciència Excel·lent		Pilar II. Lideratge Industrial			Pilar III. Reptes Socials						
	FET	Infraestruc- tures	TIC	NMP/Biotecno- logies i manufactures	Espai	SC 1 Salut	SC 2. Agricultura	SC3. Energia	SC4. Transport	SC5. Canvi climàtic	SC6. Europa en un món canviant	SC7. Societats Segures
<b>Educació</b>	0	7	10	6	1	5	4	11	3	0	3	3
<i>Total Projectes WP</i>	4	22	46	46	30	51	49	47	53	32	44	59

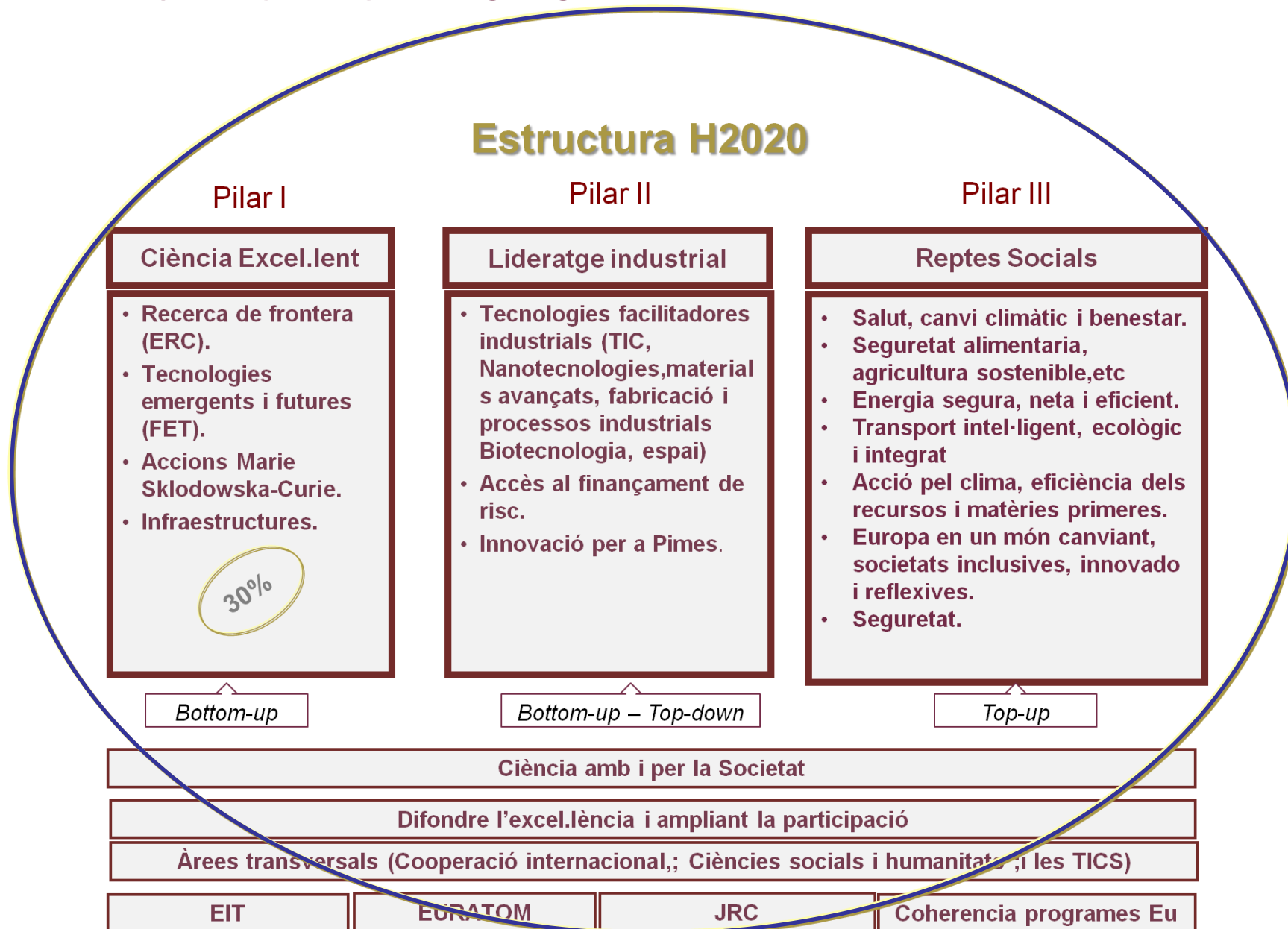
-Nº de topics on surt el concepte/activitat d'educació científica en el WP 2014-2015.  
-No s'inclouen els topics inclosos a "Altres" del WP ni els de les PPPs (Public Private Partnerships)



## Governança de la RRI:

- Anàlisi d'escenaris (grup d'experts).
- Comunicació d'EC, a dos nivells:  
H2020 – Com aplicar la RRI (any 2013); ERA pels Estats Membres (any 2013).

## ■ RRI a Horizon 2020:



# RRI- Horitzontal H2020

WP 2014-2015 & Draft WP 2016-2017

## Infrastructures

- ✓ INFRAINNOV-1-2017 Fostering **co-innovation** for future detection and imaging technologies.

## FET

- ✓ FET-PROACTIVE 2014/2015 **Global Systems Science**
- ✓ FET PROACTIVE 2014/2015 **Knowing, doing, being: cognition beyond problema solving.**

## Nanotechnologies, Advanced Materials, Biotechnology and Advance Manufacturing and Processing

- ✓ NMP 30- 2015 Next generation tools for risk governance of nanomaterials.
- ✓ NMP 31- 2014 Novel Visualisation tools for enhanced nanotechnology awareness
- ✓ NMP 32 2015 Societal engagement on responsible nanotechnology
- ✓ NMBP 17-2017 **Mobilising** the European nano-biomedical **ecosystem**.
- ✓ NMBP 47-2016 Improving nanotechnology (KETs) skills by **involving multiple stakeholders**.
- ✓ NMBP 50-2016 **Networking and sharing best practices** in using regional clusters strategies with a focus on **supporting innovation** in the NMBP thematic area.
- ✓ NMBP 51-2017 Governing innovation of nanotechnology through enhanced **societal**
- ✓ **Engagement**
- ✓ NMBP 52 2017 Enhancing **public awareness** on nanotechnology



# RRI- Horitzontal H2020

WP 2014-2015 & Draft WP 2016-2017

## ICT

- ✓ ICT 31. 2015 Human Centric Digital Age (contingut)
- ✓ ICT10.1. 2016 **Enabling responsible ICT-related research and innovation**
- ✓ ICT10.2. 2016 Establishing a structured **dialogue between creative people and technologists.**

## Espai

- ✓ GALILEO-1-2014-2014 EGNSS awareness raising, capacity **Building and/or promotion activities**, inside or outside of the European Union.
- ✓ COMPET-10-2014 **Outreach through education**

## SC1. Salut

- ✓ HCO 15-2014 Monilisation and mutual learning action plan
- ✓ SC1-HCO-14-2016 Digital **Health literacy** and workforce IT skills.
- ✓ SC1- PM-04-2016. Networking and optimising the **use of population and patient cohorts.**
- ✓ **European Innovation Partnership on Active and Healthy Ageing**
- ✓ Organitzacions de la Societat Civil juguen un rol clau en la elaboració de les prioritats de recerca del full de ruta.

# RRI- Horitzontal H2020

WP 2014-2015 & Draft WP 2016-2017

## SC2. Seguretat alimentaria, agricultura...

BG-13-2014 **Ocean literacy** – Engaging with society – Social Innovation

ISIB-2-2014/2015 **Closing the research and innovation**: the crucial role of innovation support services and knowledge Exchange.

ISIB-8-2014 **Towards an innovative and responsible bioeconomy**

SFS- 2017 New Partnerships and tools to enhance European **capacities** for in-situ conservation.

RUR- 2017 Networking European farms to boost thematic **knowledge exchanges and close the innovation gap**

*RUR- 2017* Building a future **science and education** System fit to deliver to practice.

## SC3. Energia

Topics Smart Cities

EE7 – 2017 **Engaging private consumers** towards sustainable energy

EE8 – 2017 **Behavioral change** toward energy efficiency through ICT,

E11-2016 **Engaging and activating public authorities.**

# RRI- Horitzontal H2020

WP 2014-2015 & Draft WP 2016-2017

## SC 5. Canvi climàtic

- ✓ SC5-5-2014/2015 **Coordinating and supporting research and innovation for climate action**
- ✓ SC5-12-2016 **Multi-stakeholder dialogue** platform to promote innovation with nature to address societal challenges.
- ✓ SC6-21-2017 Coordination of **citizen observatories initiatives**.

## SC6. Europe in a changing world – Inclusive, Innovative and Reflective Societies

- ✓ REFLECTIVE-8-2015 Communication and dissemination platform
- ✓ REFLECTIVE-9-2015 Social Platform and Reflective Societies
- ✓ INSO-5-2015 Social Innovation Community
- ✓ INSO-6- 2015 Platform for ICT for Learning and Inclusion
- ✓ Convocatòria **Co-creation** for growth and inclusion (14 Topics).
- ✓ REV-INEQUAL-2017-9 Social Sciences and Humanities – **Responsible Research and Innovation** (SSH-RRI) hub for information and communication technologies (ICT)
- ✓ REV-INEQUAL-2016-10 **Multi-stakeholder platform** for enhancing youth digital opportunities

# RRI- Horitzontal H2020

WP 2014-2015 & Draft WP 2016-2017

## SC7. Societats Segures

- ✓ FCT8.2014 **Trans-national cooperation among public end-users in security research stakeholders.**
- ✓ FCT14-2014 Enhancing cooperation between law enforcement agencies and **citizens – Community policing**
- ✓ FCT16-2015 Better understanding the role of new social media networks and their **use for public** security purposes.
- ✓ Topics de Seguretat Digital - RRI

RRI en tots els projectes d'H2020!! Llistat anterior de topics on alguns o tots els elements de la RRI es mencionen en el propi contingut de la temàtica

## Recerca Responsable i Innovadora - RRI

***RRI: canvi cultural i no  
un exercici burocràtic de  
“marcar la casella***



A word cloud visualization of RRI concepts. The most prominent words are 'Innovation' (green), 'Responsible' (dark red), 'Research' (orange), and 'Society' (dark red). Other visible words include 'ambitions', 'policy', 'innovative', 'civil', 'expectations', 'engaged', 'dialogue', 'foster', 'creation', 'science', 'participatory', 'challenges', 'connection', 'aspirations', 'solutions', 'societal', 'inclusive', 'engaging', and 'scientific'.

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