



European **Political**
Strategy Centre |

Engaging Society around Innovation

"Shaping New Horizons"
14 January 2016
Brussels

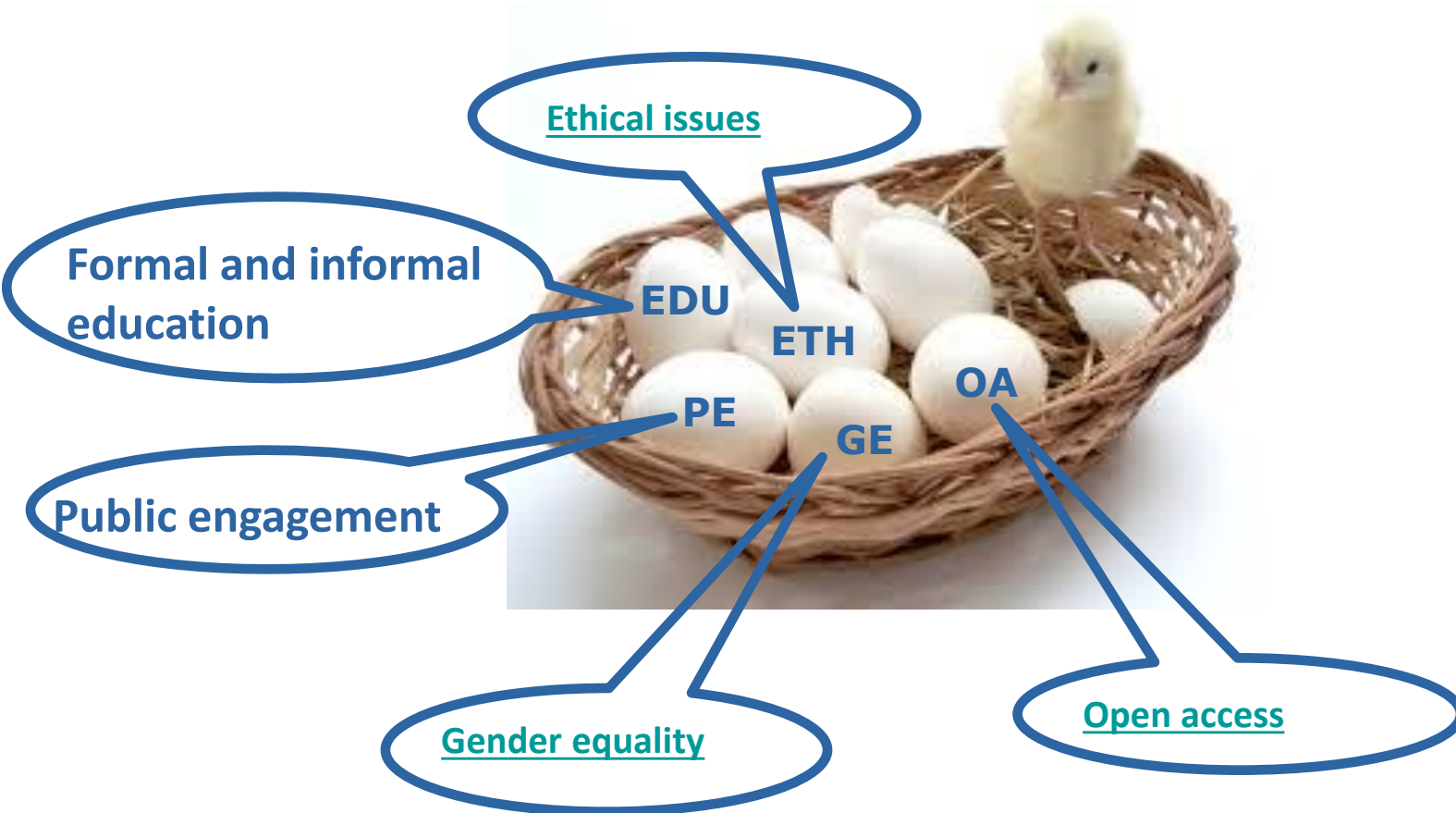
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Innovation and Technology I

- **Innovation, Technology, Economy: the sets of Arrangements by which society satisfies its needs. (The Nature of Technology, W. Brian Arthur, 2009)**
- **Innovation is not only technology.**
- **Technology as an autopoietic ecosystem?**
- **Technology domains are organic: industry blur.**
- **Technological Revolutions challenge man to change behaviour and world-view.**

Innovation and Technology II

- **Shall we abandon the factory age?**
- **Shall we close down the Cartesian Dream?**
- **How shall we account for our encounters with the phenomena of Nature?...**
 - Wholeness not perfection?**
 - Resilience not efficiency?**
 - The Planet not ourselves alone?**
 - Future generations, too?**



**Responsible Research and Innovation:
a cross-cutting issue in H2020**

Human-centric?



This....

Or this?



A new limit...

Sky

Earth

Self



Enlightenment

Sustainability

Hyperconnectivity



XVIII century

XX century

XXI century



Human-centric?



Alone!

Rational subject

Modern proxy

Plural!

Relational selves

Hyperconnected proxy

Relational self, anchored in plurality (H. Arendt), i.e.:

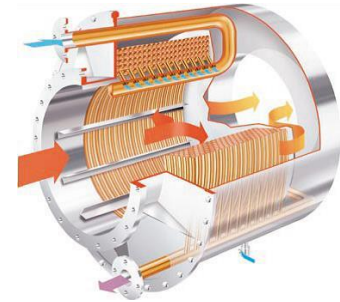
1. Equal (from within, not given, granted)
2. Unique (not reducible to attributes)
3. Relational (identity and freedom rely on appearing to other selves)





Avoid silos

Encourage (embrace?) interactions



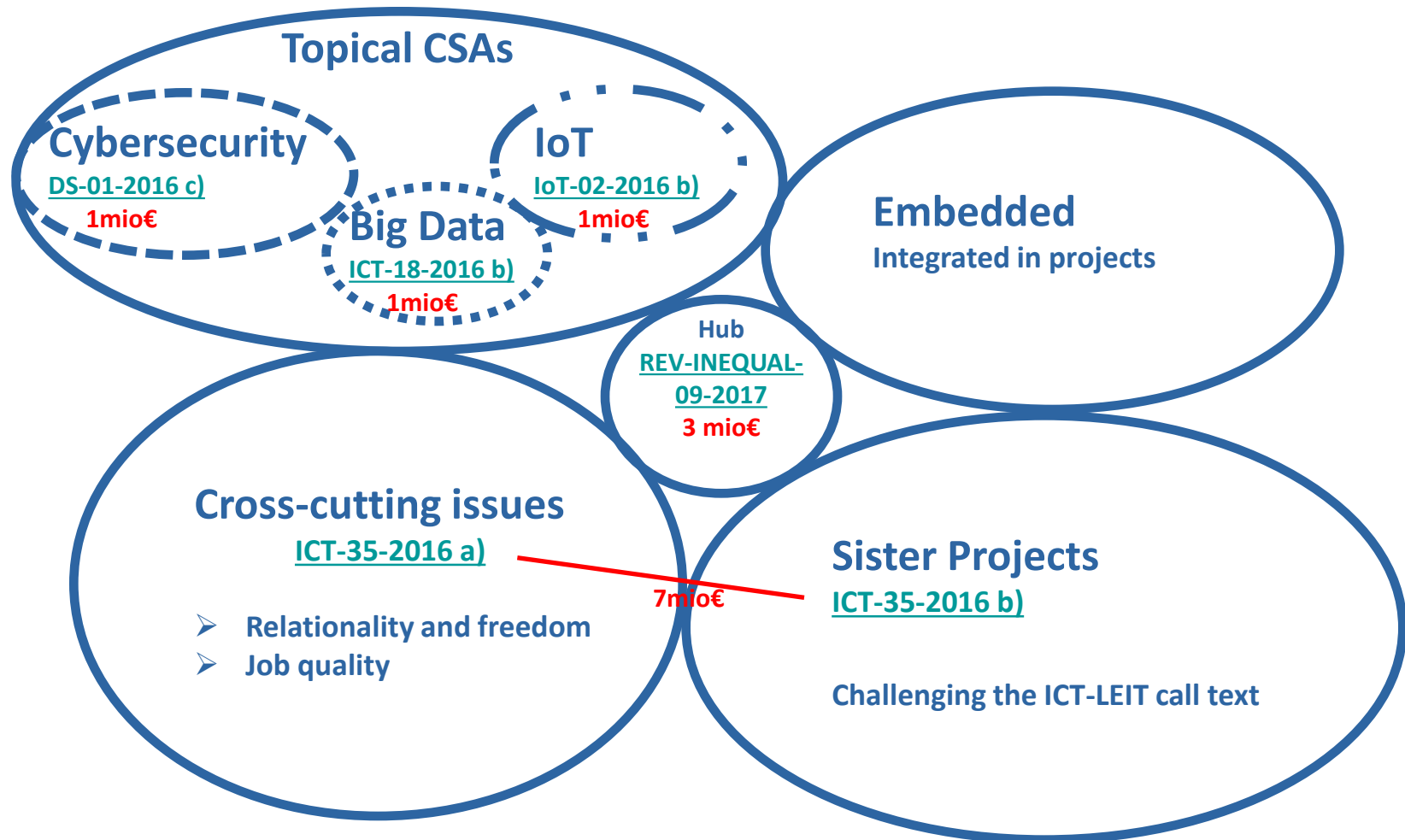
More than
compliance



Think of humans as relational selves

*Social and free
Vulnerable attention*





Relationality and freedom

"How can we avoid the traps of ICTs ending up in isolating humans behind their screen, or harnessing them in a passive role? In the forthcoming hyperconnected era, it is essential to acknowledge the dual human aspirations for relationships and for freedom, and the dynamic nature of the relationships between humans and artefacts".

Job quality

"What are the conditions for ICT-enabled innovations to generate interesting and rewarding jobs, and reduce the risk of excluding sections of society from the labour market? What economic models can ensure a fair sharing of the created added value?"



- *Unveiling implicit biases in ICT-research agendas*
- *Propose constructive alternative framings*
- *Foster innovation through widening of imaginaries,*
- *Provide challenging questions, issues and solutions*
- *Relevance beyond disciplinary boundaries*

Expected Impact:

- *Alternative approaches and new perspectives for future societal relevant ICT research and innovation activities.*
- *Increased research collaboration and common agenda between ICT and RRI-SSH communities.*
- *Improved take-up of responsible ICT research and innovation that takes into account human and societal concerns and expectations under new technological conditions*
- *Increased relevance and usability of SSH knowledge for ICT R&I processes in order to align ICT R&I with human needs and societal expectations.*
- *Increased societal relevance of future research agendas in ICT-related areas.*

- *Stimulate responsible and inclusive ICT R&I*
- *Encourage the uptake of SSH in ICT projects*
- *Coordinate the embedded expertise and connect it with SSH expertise beyond H2020 funded-projects*
- *Activate a shared understanding of responsible and inclusive innovation in H2020-funded ICT-related innovation + make it happen*

In a nutshell, activate constructive interactions between SSH and ICT to ensure that H2020-funded ICT-related innovation is responsible and inclusive



Coordination:

- *Ensure dialogue and sharing of experience and knowledge among ICT, SSH and stakeholders (including CSOs and users)*
- *Channel the fruits of this dialogue in the policy process, the future research agenda and practice, both in ICT and SSH*

Support:

- *Enable information sharing among similar activities and efforts*
- *Provide tools and advice to foster responsible and inclusive ICT-related innovation*
- *Communication activities*
- *Foster debates and stimulate reflection*



Expected Impact:

- *R&I at the service of reversing inequalities and contribute to responsible and inclusive innovation*
- *Improve take-up of societal concerns in ICT-related R&I*
- *Increased worldwide visibility and influence of European communities with a shared vision for inclusive ICT-related R&I*
- *Propose measurable KPIs*



Thank you for your attention!

1. RRI-SSH in ICT-related parts of H2020

<https://ec.europa.eu/digital-agenda/en/responsible-research-and-innovation-ict-related-parts-h2020>

2. Breaking barriers, building bridges: a smart approach to multiple disciplinarity

<http://ec.europa.eu/digital-agenda/en/news/how-carry-out-multiple-disciplinary-research-effectively>

3. The Onlife Initiative

<http://ec.europa.eu/digital-agenda/en/onlife-initiative>

4. The SR/CR Community of Practice

<https://ec.europa.eu/digital-agenda/en/content/cop>

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