L'Italia e il primo anno di Horizon 2020

MIUR-APRE-CNR, Roma, 9 Aprile 2015

SOCIETAL CHALLENGE 6
INCLUSIVE, INNOVATIVE AND REFLECTIVE SOCIETIES

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* Personally speaking
A new approach: Man and Technology

- Humanities – Engineering (SSH-STEM)
- Tangible – Intangible (real and virtual)
- Social habits - Technological developments
- Economics - Technical feasibility
- Understanding - Creativity – Implementation

Source: D. Rossetti
### H2020 Budget

**SSH especially in**
- **MSC**
- **ERC**
- **SC6**

**Embedding**

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**Source:** H2020 Regulation n° 1291/2013

<table>
<thead>
<tr>
<th>IX Excellent science, of which:</th>
<th>EUR million in current prices</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. European Research Council (ERC)</td>
<td>13 094.8</td>
</tr>
<tr>
<td>2. Future and Emerging Technologies (FET)</td>
<td>2 696.3</td>
</tr>
<tr>
<td>3. Marie Skłodowska-Curie actions</td>
<td>6 162</td>
</tr>
<tr>
<td>4. Research infrastructures</td>
<td>2 488</td>
</tr>
</tbody>
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<thead>
<tr>
<th>II Industrial leadership, of which:</th>
<th>EUR million in current prices</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Leadership in enabling and industrial technologies (<em>) (</em>**)</td>
<td>13 557</td>
</tr>
<tr>
<td>2. Access to risk finance (**)</td>
<td>2 842.3</td>
</tr>
<tr>
<td>3. Innovation in SMEs (*** )</td>
<td>616.2</td>
</tr>
</tbody>
</table>

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<tr>
<th>III Societal challenges, of which (****)</th>
<th>EUR million in current prices</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Health, demographic change and well-being</td>
<td>7 471.8</td>
</tr>
<tr>
<td>2. Food security, sustainable agriculture and forestry, marine, maritime and inland water research, and the bioeconomy</td>
<td>3 851.4</td>
</tr>
<tr>
<td>3. Secure, clean and efficient energy</td>
<td>5 931.2</td>
</tr>
<tr>
<td>4. Smart, green and integrated transport</td>
<td>6 339.4</td>
</tr>
<tr>
<td>5. Climate action, environment, resource efficiency and raw materials</td>
<td>3 081.1</td>
</tr>
<tr>
<td>6. Europe in a changing world – Inclusive, innovative and reflective societies</td>
<td>1 309.5</td>
</tr>
<tr>
<td>7. Secure societies – Protecting freedom and security of Europe and its citizens</td>
<td>1 694.6</td>
</tr>
</tbody>
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<thead>
<tr>
<th>IV Spreading excellence and widening participation</th>
<th>EUR million in current prices</th>
</tr>
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<tbody>
<tr>
<td>V Science with and for society</td>
<td>462.2</td>
</tr>
</tbody>
</table>

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<tr>
<th>VI Non-nuclear direct actions of the Joint Research Centre (JRC)</th>
<th>EUR million in current prices</th>
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</thead>
<tbody>
<tr>
<td>VII The European Institute of Innovation and Technology (EIT)</td>
<td>2 711.4</td>
</tr>
</tbody>
</table>

**TOTAL** | 77 028.3
Preparing the SC6 WP: a long *itinere* full of interactions

- Stocktaking of FP7 and CIP, first calls of H2020 in 2014
- Commission drafts the WP taking on board stakeholders insights: Advisory Group, written inputs, workshops, conferences, *ad-hoc* meetings
- Involvement of Commission Services: 12 Units from 5 Directorates and 2 DGs (RTD & CNECT)
- Consultation with Policy DGs (H2020 Group - ISC)
- Programme Committee (Member States)

Source: D. Rossetti
5 Calls in SC6 open in 2015

EURO
YOUNG
REFLECTIVE
INT
INSO

Source: EC, SC6, WP 2014-2015
**EURO-Call: Overcoming the crisis (€ 17 M)**

<table>
<thead>
<tr>
<th>ERA-NET on Smart Urban Futures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meeting new societal needs by using emerging technologies in the public sector</td>
</tr>
</tbody>
</table>

Source: EC, SC6, WP 2014-2015
YOUNG-Call: The young generation (€ 9.45)

Lifelong learning for young adults: better policies for growth and inclusion in Europe

The young as a driver of social change
<table>
<thead>
<tr>
<th>REFLECTIVE-Call (€ 27.5 M)</th>
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<tbody>
<tr>
<td>Emergence and transmission of European cultural heritage and Europeanisation</td>
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<td>European cohesion, regional and urban policies and the perceptions of Europe</td>
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<td>Cultural opposition in the former socialist countries</td>
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<td>The cultural heritage of war in contemporary Europe</td>
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<tr>
<td>Innovation ecosystems of digital cultural assets</td>
</tr>
<tr>
<td>Communication and dissemination platform</td>
</tr>
</tbody>
</table>

Source: EC, SC6, WP 2014-2015
INT-Call: Europe as a global actor (€ 9 M)

**INT-1 and INT-2: Coordination and Support Actions**

Enhancing and focusing R&I cooperation with the Union’s key international partners
(2015 focus on: Australia, Brazil, South Africa, Ukraine USA, complementing focus on other countries in 2014)

Encouraging the R&I cooperation between the Union and selected regional partners
(2015 focus on: Southern Mediterranean Neighbourhood; Eastern Partnership, complementing focus on other regions in 2014)


Source: EC, SC6, WP 2014-2015
INT-Call: Europe as a global actor (€ 34 M)

Europe's contribution to a value-based global order and its contestants

The EU's contribution to global development: in search of greater policy coherence

Rethinking the EU crisis response mechanism in light of recent conflicts

Re-invigorating the partnership between the two shores of the Mediterranean

Towards a new geopolitical order in the South and East Mediterranean region

Source: EC, SC6, WP 2014-2015
INT-Call: Europe as a global actor

| The European Union and the Eastern Partnership |
| The European Union, Turkey and its wider neighbours: challenges and opportunities |
| The EU and integration challenges in the Balkans |
| European cultural and science diplomacy: exploiting the potential of culture and science in the EU's external relations |
| The cultural, scientific and social dimension of EU-LAC (Latin America and the Caribbean) relations |

Source: EC, SC6, WP 2014-2015
<table>
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<tr>
<th><strong>INSO Call: New forms of innovation (€ 21 M + € 11 for SME)</strong></th>
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<tbody>
<tr>
<td><strong>ICT-enabled open government</strong></td>
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<tr>
<td><strong>Innovative schemes for open innovation and science 2.0</strong></td>
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<tr>
<td><strong>Social Innovation Community</strong></td>
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<tr>
<td><strong>Innovative mobile e-government applications by SMEs</strong></td>
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<tr>
<td><strong>SME Business model innovation</strong></td>
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<tr>
<td><strong>Prize: European Capital of Innovation 2016</strong></td>
</tr>
</tbody>
</table>

Source: EC, SC6, WP 2014-2015
Award criteria

1. Excellence
2. Impact
3. Quality and efficiency of implementation

Source: EC, Evaluation criteria
Scoping Paper of SC6 – 2016-2017

- “Co-creation for growth and inclusion”
- “Reversing inequalities”
- “Engaging together globally”
- “Understanding Europe”
- Other Actions to support ERA and IU

Source: EC, SC6, PC, 23/1/2015
SC6 2016-17 WP close to the Juncker priorities

- A new Boost for Jobs, Growth and Investment
- A Connected Digital Single Market
- A Deeper and Fairer Internal Market with a Strengthened Industrial Base
- A Stronger Global Actor
- Towards a New Policy on Migration
- An Area of Justice and Fundamental Rights Based on Mutual Trust

Source: Juncker priorities, EP, 15/7/2014
SSH embedding

“Social sciences and humanities research will be fully integrated into each of the priorities of Horizon 2020 and each of its specific objectives (...) so that the SSH can make a contribution wherever they are needed.”

Horizon 2020 Framework Regulation

Source: H2020 Regulation n° 1291/2013
SSH embedding is aimed at closing the collaborative gap between STEM & SSH in R&I activities.

Develop integrated SOCIO-TECHNICAL solutions

- Economy and markets
- Policy-making and governance
- Legal and institutional framework
- Human behavior and social values
- Demographic realities and trends
- Cultural values and beliefs
- Ethical considerations

Source: EC, DG RTD, B.6
Conclusions

- Stoctaking of previous EU projects:

- Think as a Coordinator or as a Partner (Management)

- Different instruments (IA, RIA, CSA, ERA NET, …)

- Look beyond Societal Challenge 6 (Embedding, MSC, ERC)

- Multi/pluri/inter/trans-disciplinary projects

- If no submission of proposals, register as an Expert at:

Source: D. Rossetti
Population ageing in Europe

Study on eGovernment and the Reduction of Administrative Burden

A global actor in search of a strategy

Financial crisis: causes, policy responses, future challenges

Research and Innovation performance in the EU 2014

http://ec.europa.eu/research/social-sciences/index.cfm
http://ec.europa.eu/egovernment
Annex 1

Societal Challenge 6 Projects and Actions funded in 2014 (tbc)
EURO-Call: Overcoming the crisis

Resilient and sustainable EMU

- Effective mechanisms of fiscal coordination in the EU
- Fair and sustainable taxation
- The impact of macroeconomic and social imbalances on economic stability
- The global impacts of the crisis in Europe and the international monetary relations

FIRSTRUN: Fiscal rules and strategies under externalities and uncertainties (Research Institute for the Finnish Economy - FI)

ADEMU: A dynamic Economic and Monetary Union (EUI - IT)

FAIRTAX: Revisioning the ‘Fiscal EU’: Fair, sustainable, and coordinated tax and social policies (Umea University - SE)

EMU_SCEUS: The choice for Europe since Maastricht. MS preferences for economic and financial integration (University of Salzburg - AT)
EURO-Call: Overcoming the crisis

The European growth agenda

- Reform management for economic recovery
- Innovation-based growth strategy for Europe
- Global production and innovation networks - costs and benefits for EU
- Migration, prosperity and growth

**ISIGROWTH**: Innovation-fuelled, sustainable, inclusive growth (Scuola Normale Superiore Sant'Anna – IT)

**IIT**: Industrial innovation in transition (Aalto – FI)

**FIRES**: Financial and institutional reforms for the entrepreneurial society (Utrecht University – NL)

**QUINNE**: Quality of jobs and innovation generated employment outcomes (Lunds Universiteit – SE)

**GEMM**: Growth, equal opportunities, migration and markets (University of Essex – UK)
EURO-Call: Overcoming the crisis

European societies after the crisis

- Individual reactions to the crisis and challenges to European solidarity
- Unity in diversity: prospects of a European identity and public sphere
- Innovative social investment approaches for the modernisation of social policies and services

SPRINT: Social protection innovative investment in long term care (University of Warwick - UK)

TRANSOL: European paths to transnational solidarity at times of crisis: Conditions, forms, role-models & policy responses (Univ. of Siegen - DE)

REINVEST: Rebuilding an inclusive, value-based Europe of solidarity and trust through social investments (Katholieke Universiteit Leuven - BE)

INNOSI: Innovative social investment: Strengthening communities in Europe (Manchester Metropolitan University - UK)

SOLIDUS: Solidarity in European societies: empowerment, social justice and citizenship (University of Barcelona – ES)

RE.CRI.RE.: Between the representation of the crisis and the crisis of representation. How crisis changed the symbolic background of European societies and identities. Implication for policies and policy making (Association des Agences de la démocratie locale - FR)
EURO-Call: Overcoming the crisis

Political challenges for Europe
- The future of European integration
- Challenges to democratic practices and parties in the context of the crisis
- Political leadership in times of economic, political and social crisis

EUENGAGE: Bridging the gap between public opinion and European leadership: Engaging a dialogue on the future path of Europe (Università degli Studi di Siena - IT)
ENLIGHTEN: European legitimacy in governing through hard times: the role of European networks (Copenhagen Business School - DK)
TRANSOCRISIS: Enhancing the EU’s transboundary crisis management capacities: strategies for multi-level leadership (LSE - UK)
YOUNG-Call: The young generation

Early job insecurity and labour market exclusion:

NEGOTIATE: Negotiating early job - Insecurity and labour market exclusion in Europe (Hogskolen Oslo – NO)

EXCEPT: Social exclusion of youth in EU: Cumulative disadvantage, coping strategies, effective policies and transfer (Tallinn Univ. – EE)
YOUNG-Call: The young generation

Youth mobility: opportunities, impacts, policies

MOVE: Mapping mobility – Pathways, institutions and structural effects of youth mobility in EU (Univ. du Luxembourg – LU)

YMOBILITY: Youth mobility: Maximising opportunities for individuals, labour markets and regions in EU (La Sapienza – IT)
YOUNG-Call: The young generation

Societal and political engagement of young people and their perspectives on Europe

**PARTISPACE:** Spaces and styles of participation: Formal, no formal and informal possibilities of young people participation in European cities (Goethe University – DE)

**CATCH-EYOU:** Constructing active citizenship with European youth: Policies, practices, challenges and solutions (Univ. di Bologna – IT)
**YOUNG-Call: The young generation**

Societal and political engagement of young people and their perspectives on Europe

Developing reusable service components, methods and applications to enable public authorities to quickly open their decision-making processes

**STEP:** using web / social media mining, gamification and visualisation features to promote the societal and political participation of young people in the decision-making process on environmental issues (Draxis Environmental S.A. – EL)

**EUTH:** digital European youth participation platform to be used by administrations and youth organizations to set up participative processes (NEXUS Institut für Kooperations Management und Interdisziplinäre Forschung GmbH - DE)
REFLECTIVE-Call

ERA-NET on uses of the past

HERA JRP UP: Joint Research Programme – uses of the past (NWO – NL)
Advanced 3D modelling for accessing and understanding European cultural assets

**DIGIART:** The Internet of historical things and building new 3D cultural worlds (Liverpool University – UK)

**SCAN4RECO:** Multimodal scanning of cultural heritage assets for their multilayered digitization and preventive conservation via spatiotemporal 4D Reconstruction and 3D Printing (EKETA – EL)

**INCEPTION:** Inclusive cultural heritage in Europe through 3D semantic modelling (Università Ferrara – IT)

**GRAVITATE:** Geometric reconstruction and novel semantic reunification of cultural heritage objects (University of Southampton – UK)
REFLECTIVE-Call

Social Platform on Reflective Societies

**CULTURALBASE**: Social platform on cultural heritage and European identities (Univ. de Barcelona – ES)

Mobilising the network of NCPs in SC6

**NET4SOCIETY4** – Transnational network of NCP for SC6 (DLR – DE)
INT-Call: Europe as a global actor

Enhancing and focusing R&I cooperation with the Union’s key international partners - Encouraging the R&I cooperation between the Union and selected regional partners

**China**: DRAGON-STAR Plus Dragon - Sustaining Technology and Research Plus (FORTH – EL)

**Africa**: RINEA – R&I Support for Europe and Africa (DLR – DE)

**Middle East**: MERID - Middle East R&I dialogue (Euro-Mediterranean University – MT)

**Black Sea**: BLACK SEA HORIZON - Enhanced bi-regional STI cooperation between the EU and the Black Sea Region (ZSI - AT)
# INSO-Call: New forms of innovation

## ICT-enabled open government

**WELIVE**: A new concept of public administration based on citizen co-created mobile urban services (Fundacion Tecnalia R&I – ES)

**YDS**: Your Data Stories (Athens Technology Center – EL)

**ROUTE-TO-PA**: Raising open and user-friendly transparency-Enabling technologies for public administrations (Università di Salerno – IT)

**DIGIWHIST**: The digital whistleblower. Fiscal transparency, risk assessment and impact of good governance policies assessed (University of Cambridge – UK)

**OpenBudgets.eu**: Financial transparency platform for the public sector (Fraunhofer – DE)
# INSO Call: New forms of innovation

## Understanding and supporting business model innovation

**ENViSION**: Empowering (European) SME business model innovation (Technische Universiteit Delft, NL)

## The economic impact of the Innovation Union

**I3U**: Investigating the impact of the Innovation Union (University of Maastricht, NL)

## Platform for ICT for Learning and Inclusion

**I-LINC**: Platform for ICT learning and inclusion for youth employability and entrepreneurship (Telecentre Europe – BE)
Annex 2

SSH flagged Topics in 2015
SSH flagged Topics in 2015

SC1 Health, demographic change and wellbeing

*Call for Personalising health and care*

**PHC-04-2015** Health promotion and disease prevention: improved inter-sector co-operation for environment and health based interventions

**PHC-21-2015** Advancing active and healthy ageing with ICT

**PHC-22-2015** Promoting mental wellbeing in the ageing population

**PHC-24-2015** Piloting personalised medicine in health and care systems

**PHC-25-2015** Advanced ICT systems and services for integrated care

**PHC-27-2015** Self-management of health and disease and patient empowerment supported by ICT
SSH flagged Topics in 2015

SC2 Food security, agriculture and (...) the bioeconomy

Call for Sustainable Food Security

SFS-01c-2015 Assessing sustainability of terrestrial livestock production
SFS-11b-2015 Consolidating the environmental sustainability of European aquaculture
SFS-16-2015 Tackling malnutrition in the elderly
SFS-18-2015 Small farms, global markets: the role of small and family farms in food and nutrition security*
SFS-20-2015 Sustainable food chains through public policies: the cases of the EU quality policy and of public sector food procurement

* topic dedicated to SSH research
SSH flagged Topics in 2015

SC2 Food security, agriculture and (...) the bioeconomy

Call for Blue Growth

BG-1-2015 Improving the preservation and sustainable exploitation of Atlantic marine ecosystems

BG-2-2015 Forecasting and anticipating effects of climate change on fisheries and aquaculture

Call for an Innovative, Sustainable and Inclusive Bioeconomy

ISIB-3-2015 Unlocking the growth potential of rural areas through enhanced governance and social innovation
SSH flagged Topics in 2015

SC3 Secure, clean and efficient energy

Call for Competitive low-carbon energy

LCE-06-2015 Transmission grid and wholesale market
LCE-09-2015 Large scale energy storage
LCE-21-2015 Modelling and analysing the energy system, its transformation and impacts*

* topic dedicated to SSH research
## SSH flagged Topics in 2015

### SC4 Smart, green and integrated transport

#### Call Mobility for growth

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>MG-5.4-2015</td>
<td>Strengthening the knowledge and capacities of local authorities</td>
</tr>
<tr>
<td>MG-5.5-2015</td>
<td>Demonstrating and testing innovative solutions for cleaner and better urban transport and mobility</td>
</tr>
<tr>
<td>MG-8.4-2015</td>
<td>Smart governance, network resilience and streamlined delivery of infrastructure innovation</td>
</tr>
<tr>
<td>MG-9.1-2015</td>
<td>Transport societal drivers*</td>
</tr>
</tbody>
</table>

* topic dedicated to SSH research
SSH flagged Topics in 2015

SC5 Climate action, environment, resource efficiency, raw materials

**Call Water innovation**

- WATER-1b-2015  Demonstration/pilot activities
- WATER-2b-2015  Integrated approaches to food security, low-carbon energy, water management and climate change mitigation

**Call Waste: A resource to recycle, reuse & recover raw materials**

- WASTE-6a-2015  Eco-innovative solutions
- WASTE-6b-2015  Eco-innovative strategies
SSH flagged Topics in 2015

SC5 Climate action, environment, resource efficiency, raw materials

Call for a Low-carbon Economy

SC5-05b-2015  Earth-system modelling and climate services
SC5-07-2015   More effective ecosystem restoration in the EU
SC5-10c-2015  An EU support mechanism for evidence-based policy on biodiversity and ecosystems services
SC5-17-2015   Demonstrating the concept of 'Citizen Observatories'
SC5-19b-2015  Mapping Member State research and innovation in climate change, environment, resource efficiency and raw materials
SSH flagged Topics in 2015

SC6 Europe in a changing world – inclusive, innovative & reflective societies

**Call Overcoming the Crisis**
EURO-5-2015 ERA-NET on Smart Urban Futures*
EURO-6-2015 Meeting new societal needs by using emerging technologies in the public sector

**Call Young Generation**
YOUNG-3-2015 Lifelong learning for young adults*
YOUNG-4-2015 The young as a driver of social change*

**Call New Forms of Innovation**
INSO-1-2015 ICT-enabled open government*
INSO-5-2015 Social innovation community*

*topic dedicated to SSH research
SSH flagged Topics in 2015

SC6 Europe in a changing world – inclusive, innovative & reflective societies

Call Reflective Societies: Cultural Heritage and European Identities

REFLECTIVE-2-2015  Emergence and transmission of European cultural heritage and Europeanisation*
REFLECTIVE-3-2015  European cohesion, regional and urban policies and the perceptions of Europe*
REFLECTIVE-4-2015  Cultural opposition in the former socialist countries*
REFLECTIVE-5-2015  The cultural heritage of war in contemporary Europe*
REFLECTIVE-6-2015  Innovation ecosystems of digital cultural assets*
REFLECTIVE-8-2015  Communication and dissemination platform*
REFLECTIVE-11-2015 Enabling Innovation - Creating Impact from SSH*

*topic dedicated to SSH research
**SSH flagged Topics in 2015**

**SC6 Europe in a changing world – inclusive, innovative & reflective societies**

*Call Europe as a Global Actor*

| INT-3-2015 | Europe's contribution to a value-based global order* |
| INT-4-2015 | The European Union's contribution to global development |
| INT-5-2015 | Rethinking the European Union crisis response mechanism* |
| INT-6-2015 | Re-invigorating the partnership between the two shores of the Mediterranean* |
| INT-7-2015 | Towards a new geopolitical order in the South and East Mediterranean region* |
| INT-8-2015 | The European Union and the Eastern Partnership* |
| INT-9-2015 | The European Union, Turkey and its wider neighbourhood* |
| INT-10-2015 | The European Union and integration challenges in the Balkans* |
| INT-11-2015 | European cultural and science diplomacy: exploiting the potential of culture and science in the EU’s external relations* |
| INT-12-2015 | Cultural, scientific and social dimension of EU-LAC relations* |

*topic dedicated to SSH research
SSH flagged Topics in 2015

SC7 Secure societies

**Call Disaster Resilience**

**DRS-11-2015** Mitigating the impacts of climate change and natural hazards on cultural heritage sites, structures and artefacts

**DRS-14-2015** Critical Infrastructure resilience indicator - analysis and development of methods for assessing resilience

**DRS-15-2015** Protecting potentially hazardous and sensitive sites/areas considering multi-sectorial dependencies

**DRS-22-2015** Impact of climate change in third countries on Europe's security

**Call Border Security and External Security**

**BES-13-2015** Conflict prevention and peace building: training curricula for conflict prevention and peace building personnel
### SSH flagged Topics in 2015

#### SC7 Secure societies

**Call Fight against crime and terrorism**

<table>
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<tr>
<th>Code</th>
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<tr>
<td>FCT-2-2015</td>
<td>Advanced easy-to-use forensic tools at the scene of crime</td>
</tr>
<tr>
<td>FCT-4-2015</td>
<td>Internet forensics to combat organized crime</td>
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<tr>
<td>FCT-9-2015</td>
<td>Identity management</td>
</tr>
<tr>
<td>FCT-15-2015</td>
<td>Better understanding the role of new social media networks and their use for public security purposes*</td>
</tr>
<tr>
<td>FCT-16-2015</td>
<td>Investigating the role of social, psychological and economic aspects of the processes that lead to organized crime (including cyber related offenses) and terrorist networks and their impact on social cohesion*</td>
</tr>
</tbody>
</table>

*topic dedicated to SSH research*
SSH flagged Topics in 2015

LEIT-ICT

*Call Information and Communication Technologies*

- **ICT-10-2015**: Collective awareness platforms for sustainability and social innovation
- **ICT-19-2015**: Technologies for creative industries, social media and convergence
- **ICT-20-2015ab**: Technologies for better human learning and teaching
- **ICT-30-2015b**: Internet of Things and platforms for connected smart objects

LEIT-NMBP

*Call Nanotechnologies, Advanced Materials and KET support actions*

- **NMP-32-2015**: Societal engagement on responsible nanotechnology