

**LIST OF TOPICS ENCOURAGING COOPERATION WITH USA IN HORIZON 2020 WORK PROGRAMME 2014-15**

Marine and Arctic Research:

	<b>Identifier</b>	<b>Short title</b>	<b>Indicative budget (EUR million)</b>
<b>2014</b>	BG 8 (Challenge 2)	Developing in-situ Atlantic Ocean Observations for a better management and sustainable exploitation of the maritime resources	15-20
	BG 13 (Challenge 2)	Ocean Literacy – Engaging with society – Social innovation	3.5
	BG 14 (Challenge 2)	Supporting international cooperation initiatives: Atlantic Ocean Cooperation Research Alliance <sup>64</sup>	3.5
	BG 15 (Challenge 2)	European polar research cooperation	2
	INFRASUPP 5 (Research Infrastructures)	Policy measures for research infrastructures	4
	INFRASUPP 6 (Research Infrastructures)	International Cooperation for research infrastructures	7 (for several actions)
	INFRAIA 1 (Research Infrastructures)	Integrating and opening research infrastructures of European interest (area: “Research infrastructures for terrestrial research in the Arctic.”)	10
	<b>2015</b>	SFS 10 B	Tackling disease related challenges and threats faced by European farmed aquatic animals
BG 1 (Challenge 2)		Improving the preservation and sustainable exploitation of Atlantic marine Ecosystems	8-12
BG 7 (Challenge 2)		Response capacities to oil spills and marine pollutions	4-6

Health research and cooperation possibilities related to EDCTP 2:

	<b>Identifier</b>	<b>Short title</b>	<b>Indicative budget (EUR million)</b>
<b>2014</b>	HOA 5	Grant to the Global Alliance for Chronic Diseases	180.000

<b>2015</b>	PHC 33 (Challenge 1)	New approaches to improve predictive human safety testing	10-15
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Transport research:

	<b>Identifier</b>	<b>Short title</b>	<b>Indicative budget (EUR million)</b>
<b>2014</b>	MG 1.4	Coordinated research and innovation actions targeting the highest levels of safety for European aviation	15
	MG 5.2 (Challenge 4)	Reducing impacts and costs of freight and service trips in urban areas	2-4

Materials research / Critical Raw Materials:

	<b>Identifier</b>	<b>Short title</b>	<b>Indicative budget (EUR million)</b>
<b>2014</b>	NMP 20 (LEIT)	Widening materials models	3-5
	NMP 26 (LEIT-NMP)	Joint EU & MS activity on the next phase of research in support of regulation NANOREG II	6-10
<b>2015</b>	NMP 23 (LEIT-NMP)	Novel materials by design for substituting critical elements	3-5
	SC5 13f (Challenge 5)	Strategic international dialogues and cooperation with raw materials producing countries and industry	1-2

Other activities

	<b>Identifier</b>	<b>Short title</b>	<b>Indicative budget (EUR million)</b>
<b>2014</b>	ICT 11 c (LEIT)	Future Internet Research and Experimentation	1.5

	ICT 14 a&b (LEIT)	Advanced 5G network infrastructures for the future internet	98&25
	SC 5-13	Strategic international dialogues and cooperation on raw materials with technologically advanced countries	1-2 million
	LCE 16	Understanding, preventing and mitigating the potential environmental impacts and risks of shale gas exploration and exploitation	1-3
	SFS 10 B (2015 as well)	Tackling disease related challenges and threats faced by European farmed aquatic animals	4
	DRS 4 (Challenge 7)	Crisis management topic 4 – feasibility study for strengthening capacity-building for health and security protection in case of large-scale pandemics – Phase I Demo	47.40 (divided over DRS 2,4,5,7,8,16,18,19,20,21)
	BES 9 (Challenge 7)	Supply chain security topic 2 – technologies for inspections of large volume freight	5-12
<b>2015</b>	ICT 25 c (LEIT)	Generic micro- and nano-electronic technologies	3
	ICT 38 (LEIT-ICT)	International partnership building and support to dialogues with high income countries	3
	SC 5-13	Strategic international dialogues and cooperation on raw materials with technologically advanced countries	1-2 million
	SFS 16	Tackling malnutrition in the elderly	9
	DRS 1 (Challenge 7)	Crisis management topic 1 – potential of current measures and technologies to extreme weather and climate events	5-12
	DRS 3 (Challenge 7)	Crisis management topic 3 – demonstration activity on large scale disasters' governance and resilience of EU external assets against major identified threats or causes of crisis	10-20
	FCT 16 (Challenge 7)	Ethical/Societal dimension topic 4 – understanding the underlying social, psychological and economic aspects of the genesis, methods and motivation of organised crime (including cyber related offenses)	2-5
	BES 8 (Challenge 7)	Supply chain security topic 1 – development of an enhanced non-intrusive (stand-off) scanner	2-5

Energy research

	Identifier	Short title	Indicative budget (EUR million)
2014 / 2015	LCE 15 (Challenge 3)	Enabling decarbonisation of the fossil fuel-based power sector and energy intensive industry through CCS	4-16
2014	LCE 16 (Challenge 3)	LCE 16 – 2014: Understanding, preventing and mitigating the potential environmental impacts and risks of shale gas exploration and exploitation	1-3

**EURATOM PROGRAMME COMPLEMENTING HORIZON 2020**

	Identifier	Short title	Indicative budget (EUR million)
2014	NFRP 2	Tool for the fast and reliable prediction of severe accident progression and anticipation of the source term of a nuclear accident	2-4
	NFRP 12	Nuclear developments and interaction with society	2-3

2014 - 2015	Euratom US.DOE Fusion CA 14 <sup>th</sup> Coordinating Committee	<u>U.S.-Euratom Joint Action Plan in fusion R&amp;D</u>	
		International network of programmes and facilities in support to ITER	
		Assessment costs and approach to the ITER operation phase.	
		Specific cooperation on fusion reactor materials	
		Education & Training schemes at international level.	
		Communication to general public in fusion topics involving academia, industry and laboratories.	
		<u>Mapping of bilateral collaborative activities.</u>	