



# EURATOM WORK PROGRAMME 2018 and ITALIAN PERFORMANCE ANALISYS

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G. Cuttone & B. Mourenza

# WP 2018 - MAIN INPUTS FOR THE STRATEGIC PROGRAMMING

- **COMPLETED INPUTS**
  - Analysis of the outcome of the Euratom fission Call 2014-2015
- **PENDING INPUTS**
  - Analysis following the results of the Euratom fission Call 2016-2017
  - Analysis of where Euratom and Horizon 2020 themes can work together to address societal challenges – e.g. medical applications of radiation
  - Stakeholder consultation
  - Results of a study commissioned under the procurement contract with Ernst & Young

# RESULTS OF THE FIRST FISSION CALL UNDER WP 2014-2015

- Very high success rate: 33.33% in terms of eligible proposals and 37.63% in terms of Euratom funding requested (Horizon 2020 averages: 13.39% and 14.51% respectively)
- Research stakeholders from new Member States are becoming well integrated (EU-13/EU-28 participation rate is relatively very high at 22.25% compared to Horizon 2020 average of 9.87%)
- Participation from associated (CH) and third countries is 4.85% and 6.12% respectively (Horizon 2020 averages: 5.88% and 4.82%)
- Participation from private sector and SMEs is 23.47% and 6.38% respectively (Horizon 2020 averages: 30.59% and 16.07%)
- Successful introduction of the European Joint Programme (EJP) in the field of radiation protection (CONCERT)

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# WP 2018 - 67,7 MILLION EURO FOR FISSION INDIRECT ACTIONS

- Nuclear Safety Research
- Waste Management Research
- Research for Decommissioning
- Radiation Protection Research
- Nuclear Education and Training
- Cross-cutting research





# WP 2018 - NUCLEAR SAFETY RESEARCH

- Long term operation, including increased knowledge on ageing phenomena, integrity assessment of systems, structures and components and accurate evaluation of safety margins
- Pre-normative research supporting harmonisation and standardisation as well as the licensing process
- Development and use of simulation tools, risk assessment, prevention and mitigation of severe accidents
- Innovative LWR Generation III design for increased safety and safety developments of advanced Gen-IV fast reactor technologies for sustainable use of fuel resources, or for cogeneration of heat and electricity, and SMRs
- Nuclear fuel reprocessing and fabrication of innovative fuel, partitioning and transmutation, as well as cross-cutting activities including qualification of nuclear materials and development of innovative materials to improve plant safety



# WP 2018 - WASTE MANAGEMENT RESEARCH

Depending on the findings of the on-going feasibility study of a European Joint Programme (EJP) in Radioactive waste management (JOPRAD), WP2018 could already launch this new initiative if sufficiently mature. The new EJP could address the following issues:

- R&D on demonstration of repository concepts and components and scientific issues in support of the target start of operation of the first geological repositories for high-level radioactive waste and spent fuel in Europe by 2025
- Research and Innovation for the management and disposal of other radioactive waste categories, such as intermediate-level and long-lived waste, as well as research on pre-disposal issues
- Support for long-term R&D on radioactive waste management
- Specific actions aimed at developing an Integrated Knowledge Management System of past and on-going R&D results on radioactive waste management and disposal solutions

# WP 2018 – RESEARCH FOR DECOMMISSIONING

Possible Research and Innovation Actions on decommissioning:

- Characterisation & survey prior to dismantling
- Management of decommissioning incl. setting up safety rules for decommissioning
- Technologies for segmentation & dismantling (remote techniques, lightweight and underwater cutting, etc.)
- Decontamination & remediation
- Minimisation of waste
- Site characterisation & environmental monitoring

Coordination and Support Actions (CSA) to strengthen networking and complementarity between national research programmes financed and/or managed by public authorities or by mandated bodies (e.g. agencies)



# WP 2018 – RADIATION PROTECTION RESEARCH

The future actions in radiation protection need to integrate outcome of the calls launched within the CONCERT European Joint Programme (2015-2020).

In this context WP 2018 could support:

- Further actions in the field of low dose research (not covered by CONCERT EJP)
- Cross-cutting research for the optimisation of the use of radiation in medical applications







# WP 2018 – NUCLEAR EDUCATION AND TRAINING

- Specific assessment should be carried out on the application of the ECVET and ECTS accreditation schemes across nuclear research and training in the EU, as well as to identify how these schemes can be improved to enhance the mobility of experts, scientists and engineers within the EU
- Euratom actions in nuclear education and training should aim at reinforcing confidence and public acceptance on nuclear science

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# RISULTATI EURATOM 2014-2015/2016-2017/2018

## *Topics NFRP*





# Bandi 2014-2015

No. topics	Budget Mill. EUR	Proposte presentate 	Proposte finanziate 	Tasso di successo 
14	87,87	62	21	34%

## Partecipazione



Partecipazione Italiana in proposte presentate	No. Partecipanti italiani finanziati	Tasso di successo partecipanti Italiani
48	18	37.5%

## Coordinamento



No. Proposte presentate a coordinamento italiano	No. Coordinamenti italiani finanziati	Tasso di successo coordinatori Italiani
3	1	33%

Contributo EU a partecipanti Italiani: **3.502.967 €**

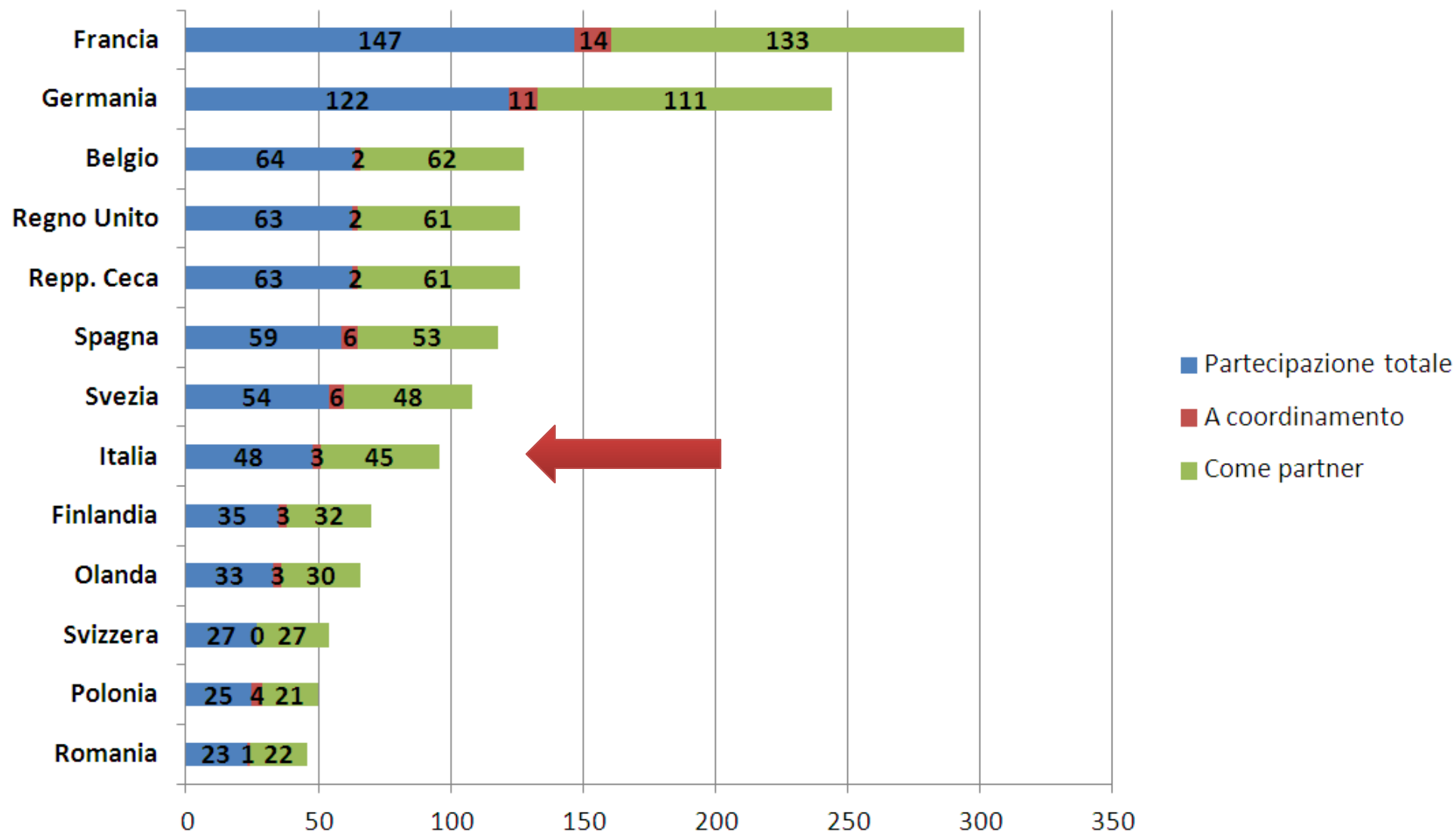


## Topics NFRP

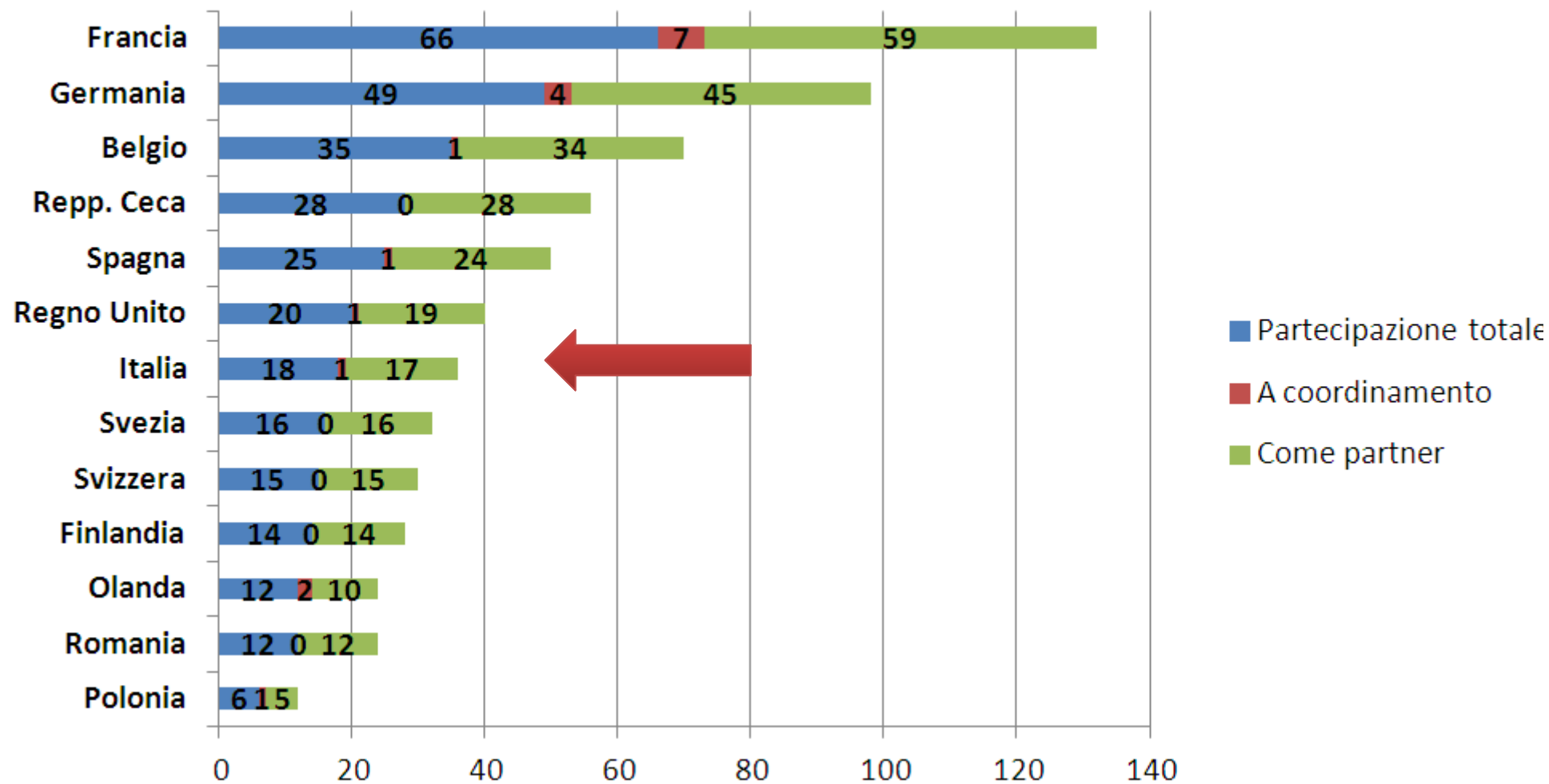
No. Topic	Titolo del topic	Tipo di azione	Numero totale EU di proposte presentate
NFRP-01-2014	Improved safety design and operation of fission reactors	RIA	<b>22</b>
NFRP-02-2014	Tool for the fast and reliable prediction of severe accident progression and anticipation of the source term of a nuclear accident	RIA	<b>5</b>
NFRP-03-2014	New innovative approaches to reactor safety	RIA	<b>9</b>
NFRP-04-2014	EU concerted development of Member State research on radioactive waste management	CSA	<b>2</b>
NFRP-05-2015	Supporting the licensing of geological repositories	CSA	<b>1</b>
NFRP-06-2014	Supporting the implementation of the first-of-the-kind geological repositories	RIA	<b>6</b>
NFRP-07-2015	Integrating radiation research in the European Union	Co-Fund -EJP	<b>1</b>
NFRP-08-2015	High density uranium fuel and targets for the production of medical radioisotopes	RIA	<b>2</b>
NFRP-09-2015	Transmutation of minor actinides (Towards industrial application)	RIA	<b>1</b>
NFRP-10-2015	Education and training (Bologna and Copenhagen processes)	CSA	<b>4</b>
NFRP-12-2014	Nuclear developments and interaction with society	RIA	<b>3</b>
NFRP-13-2015	Fostering the network of National Contact Points	CSA	<b>1</b>
NFRP-14-2014	Regional initiative aiming at nuclear research and training capacity building	CSA	<b>4</b>
NFRP-15-2015	Specific support to the work of the Sustainable Nuclear Energy Technology Platform	CSA	<b>1</b>



## Partecipazione in proposte presentate



## Partecipazione in proposte finanziate





# Bandi 2016-2017

No. topics	Budget Mill. EUR	Proposte presentate 	Proposte finanziate 	Tasso di successo 
14	105,04	72	25	<b>34,7%</b>

## Partecipazione



Partecipazione Italiana in proposte presentate	No. Partecipanti italiani finanziati	Tasso di successo partecipanti Italiani
69	26	<b>37.6%</b>

## Coordinamento



No. Proposte presentate a coordinamento italiano	No. Coordinamenti italiani finanziati	Tasso di successo coordinatori Italiani
4	1	<b>25%</b>

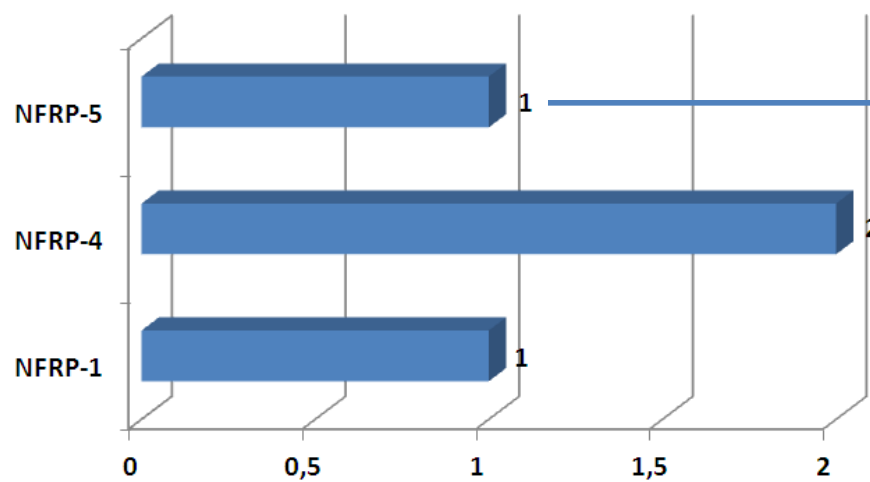
Contributo EU a partecipanti Italiani: **3.968.903,46 €**







## Coordinamenti Italiani presentati

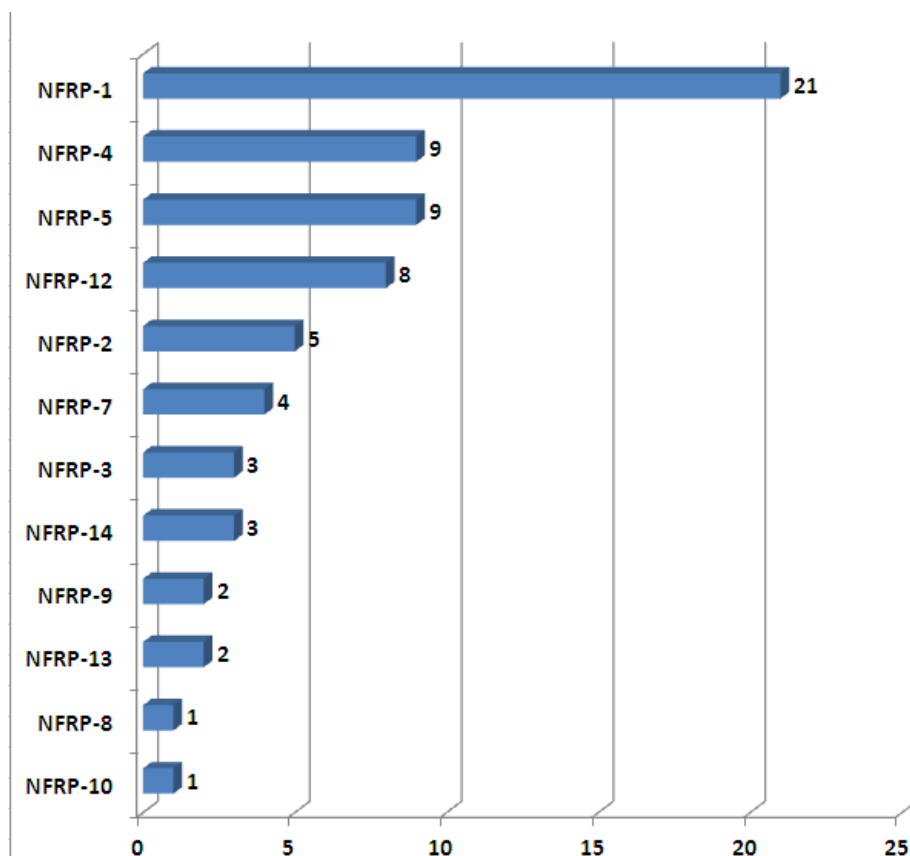


**1 Coordinamento  
italiano finanziato**

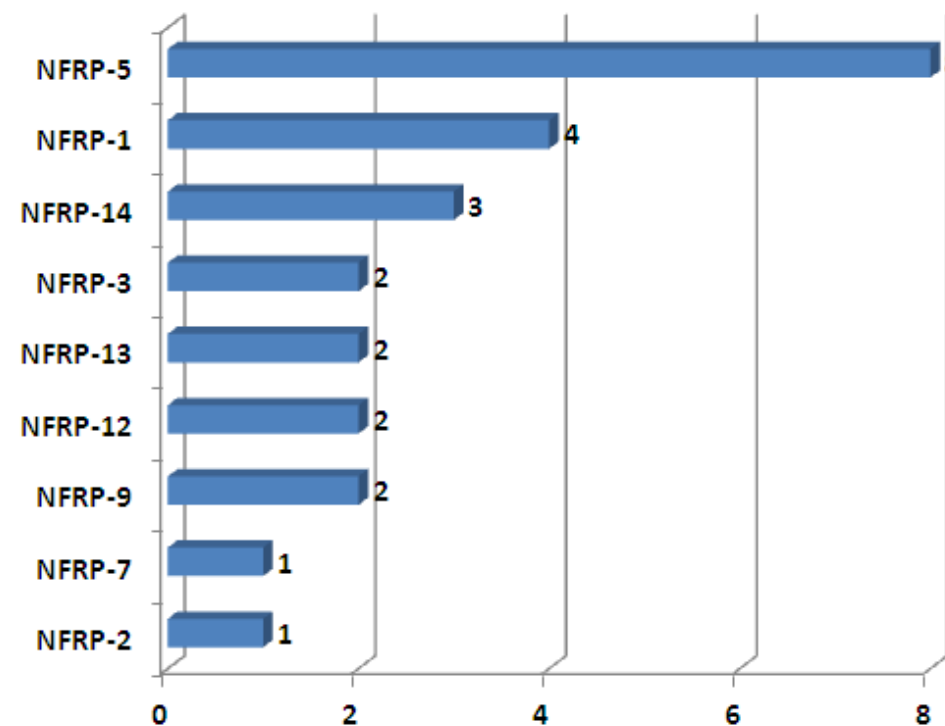




## Partecipazione Italiana in proposte presentate



## Partecipazione Italiana in proposte finanziate





## Coordinamenti presentati

Paese	Coord presentati
FR	14
SE	9
DE	7
CZ	7
FI	6
BE	5
ES	4
IT	4
UK	3
SK	3
PL	3
BG	2
CH	2
UA	1
AT	1
NL	1
<b>Totale complessivo</b>	<b>72</b>

## Coordinamenti finanziati

Paese	Coord finanziati
FR	10
SE	3
DE	3
FI	2
ES	2
PL	1
CH	1
AT	1
BE	1
IT	1
<b>Totale complessivo</b>	<b>25</b>





# Bandi 2018

No. topics	Budget Mill. EUR	Proposte presentate 	Proposte finanziate 	Tasso di successo 
11	68,8	56	14	25%

## Partecipazione



Partecipazione Italiana in proposte presentate	No. Partecipanti italiani finanziati	Tasso di successo partecipanti Italiani
58	24	41,3%

## Coordinamento



No. Proposte presentate a coordinamento italiano	No. Coordinamenti italiani finanziati	Tasso di successo coordinatori Italiani
5	2	40%

Contributo EU a partecipanti Italiani: 6.253.280,59 €

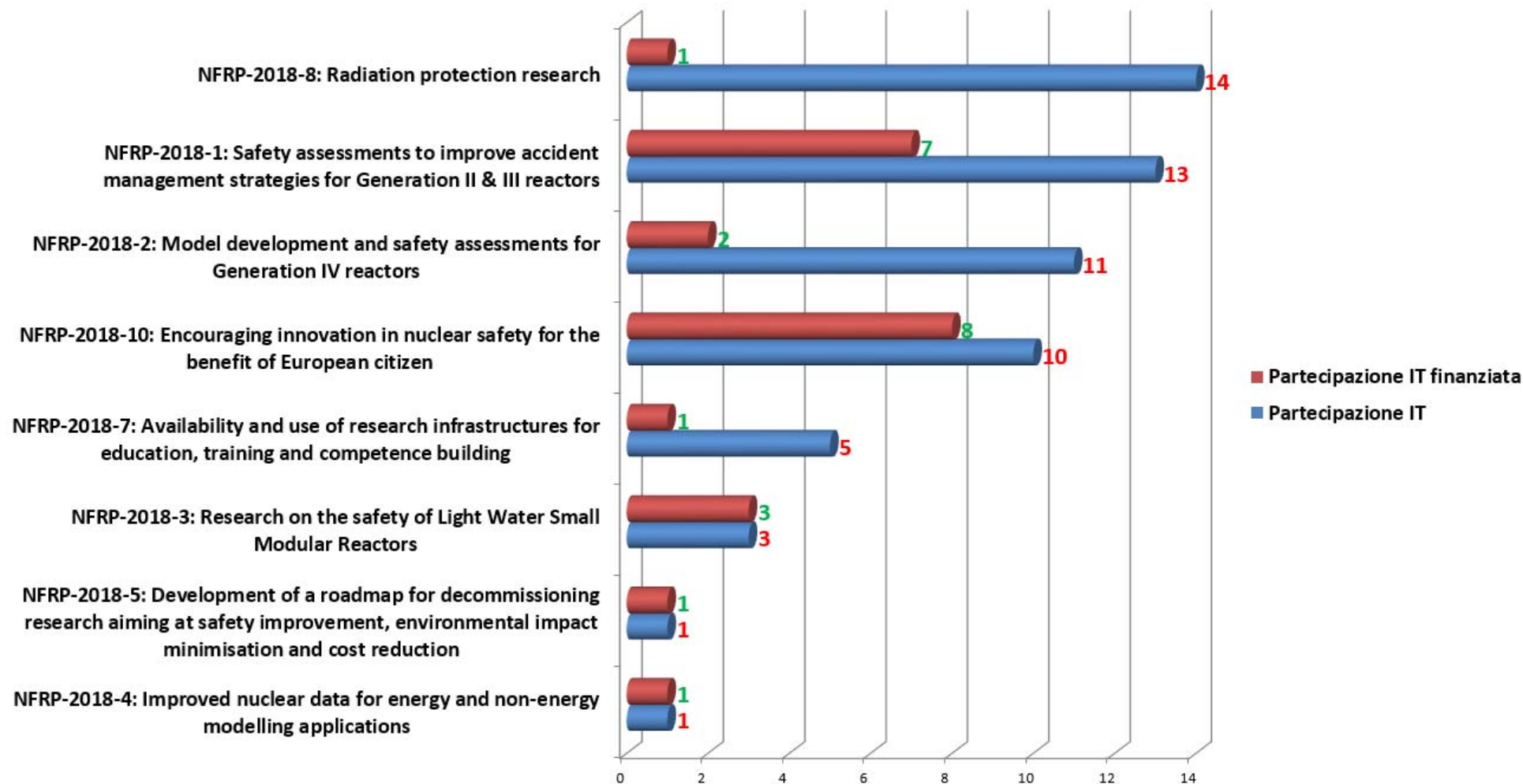


## WP 2018 Calendar

<b>WP Publication:</b>	27 October 2017
<b>Call open:</b>	15 May 2018
<b>Submission deadline:</b>	27 September 2018
<b>Evaluation:</b>	October - November 2018
<b>Info to the applicants:</b>	15 February 2019
<b>Signature of GAs:</b>	27 May 2019



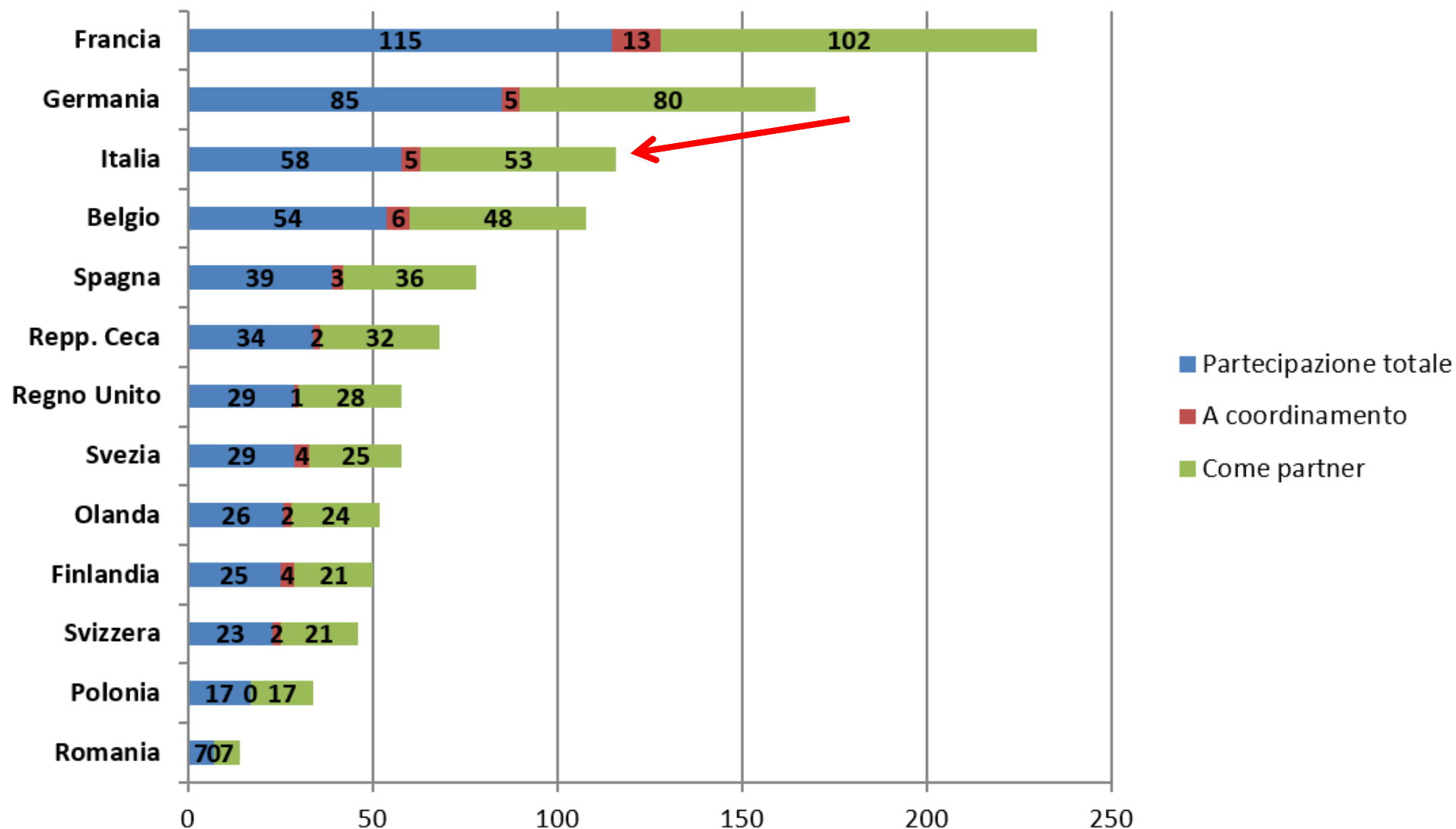
# Partecipazione IT nei bandi EURATOM 2018



*\*Partecipazione sia come partner e/o coordinatore*

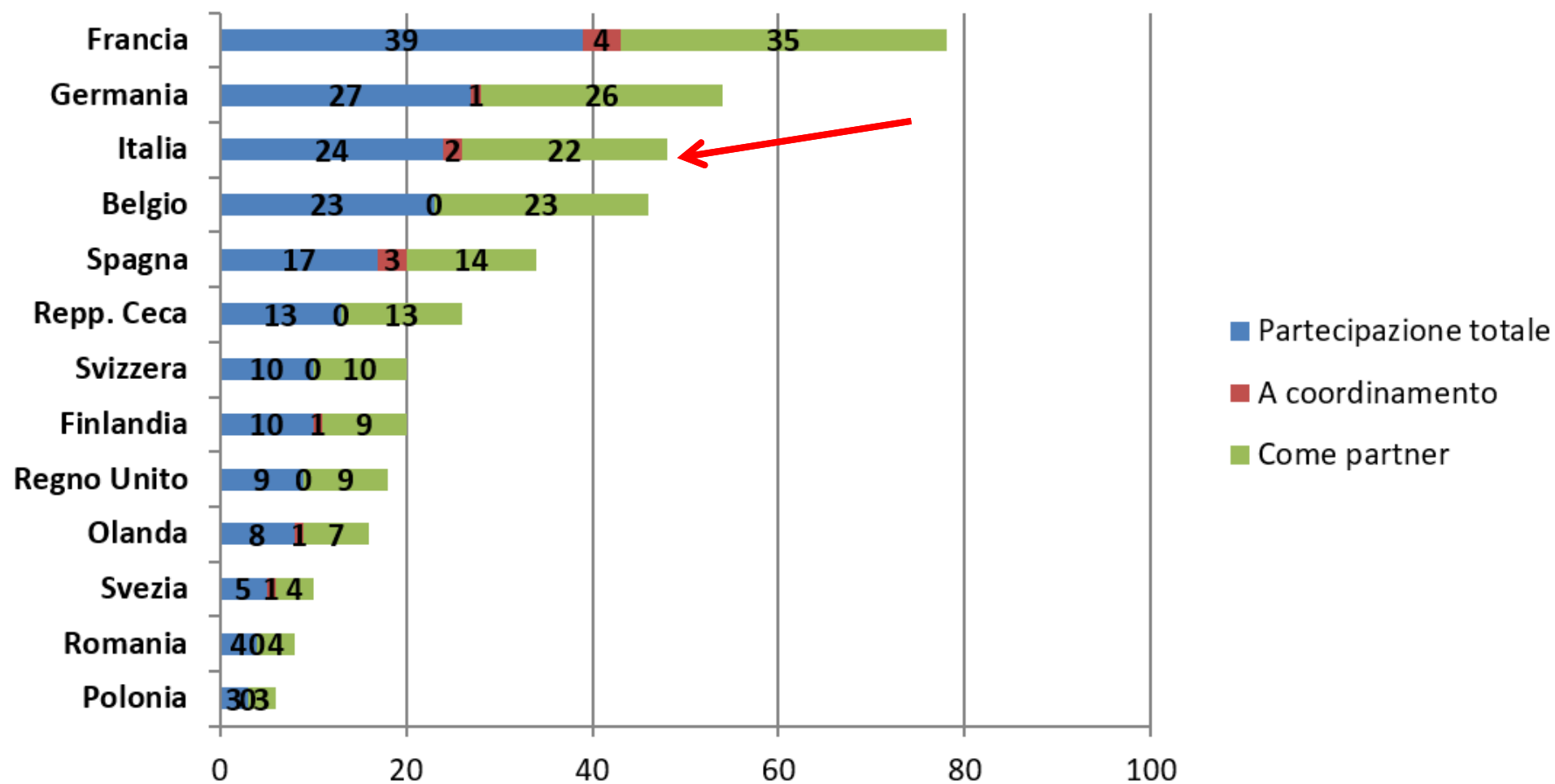


## Partecipazione in proposte presentate 2018





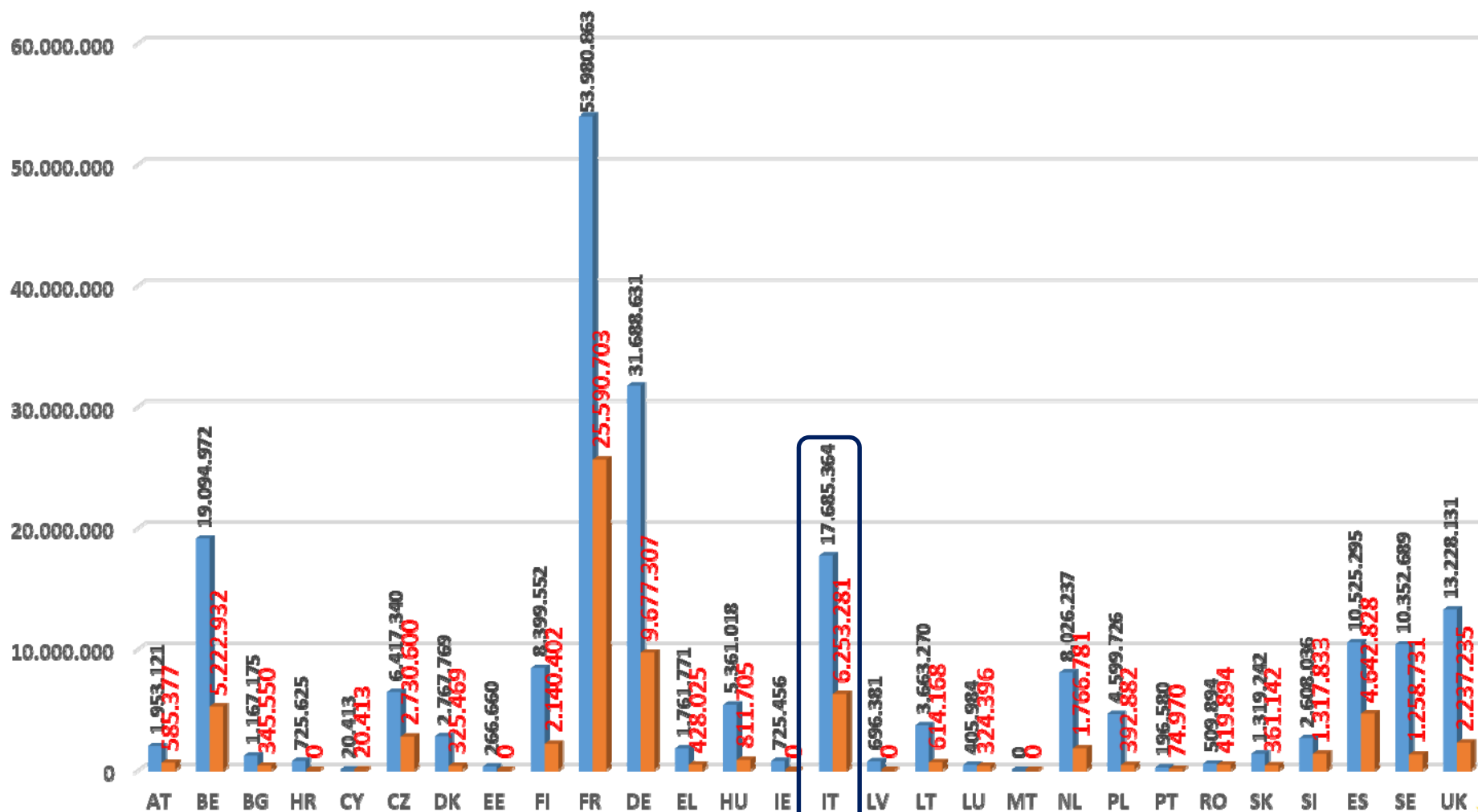
## Partecipazione in proposte finanziate 2018







# Euratom Contribution Requested/Granted





# Associated Countries

Associated Country	Participations in		Amount Requested	Amount Granted
	Submitted Proposals	Retained Proposals		
Switzerland	23	10	9.360.613	3.582.495
Ukraine	24	9	4.761.788	852.086
<b>Total</b>	<b>47</b>	<b>19</b>	<b>14.122.401</b>	<b>4.434.581</b>



# Third Countries

Third Country	Participations in Submitted Proposals	Participations in Retained Proposals	Amount Requested	Amount Granted
Australia	1	0	0	0
Belarus	6	0	808.038	0
Canada	5	2	300.000	0
China	3	1	0	0
Japan	4	1	0	0
Korea	1	1	0	0
Montenegro	1	0	0	0
Norway	12	4	747.951	323.764
Russian Federation	6	0	763.625	0
United States	6	3	306.700	0
<b>Total</b>	<b>45</b>	<b>12</b>	<b>2.926.314</b>	<b>323.764</b>

### No. topics



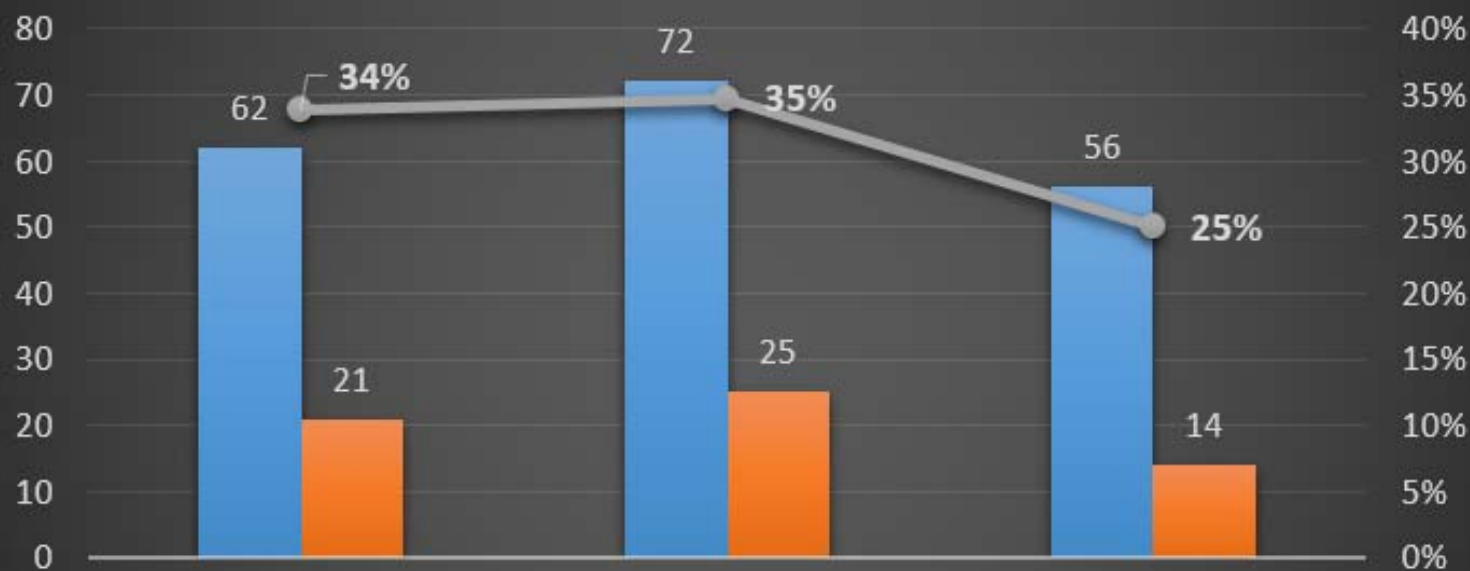
WP 2014-2015    WP 2016-2017    WP 2018

### Budget Mill. Eur



WP 2014-2015    WP 2016-2017    WP 2018

### Partecipazione EU - EURATOM

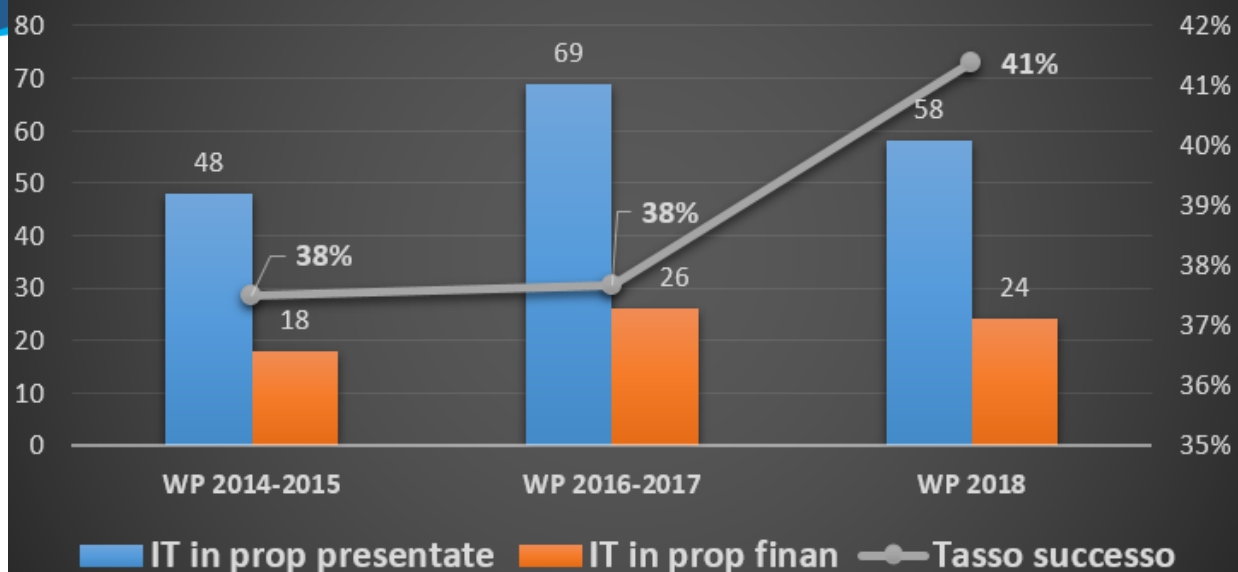


Proposte presentate    Proposte finan    Tasso successo

[www.apre.it](http://www.apre.it)



## Partecipazione ITALIA - EURATOM



## Coordinamenti ITALIA - EURATOM

