FLAG-ERA

Joint Transnational Call 2016

for Flagship-Proof-of-Concept Projects on

ICT for Social Sciences,
High-Efficiency Sensor Networks,
Digital Medicine for Cancer,
and **Cooperative Robots**.

Call Announcement

Versions:
22/01/2016: Call publication
01/02/2016: Addition of Latvian participation in DMC topic (p. 4 and p. 24)
26/02/2016: Addition of Croatian participation in CR topic (p. 4 and p. 18)
26/02/2016: Addition of Estonian participation in all topics (p. 4 and p. 19)

Deadline: 31 March 2016, 17:00 CET

Documents and procedures:	http://www.flagera.eu
FLAG-ERA Joint Call Secretariat:	**Anabela Isidro** **+351 1 213911552** **FLAG-ERAJTC2016@fct.pt**
Indicative budget:	14.5 M€

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Introduction

FLAG-ERA, the Flagship ERA-NET, gathers national and regional funding organisations in Europe and beyond with the goal of supporting the Future and Emerging Technology (FET) Flagship programme and concept. Flagships have introduced a new model for long-term, large-scale initiatives in the European Research Area, based on a unifying vision, a core project serving this vision, and mechanisms to align efforts funded from various sources with this core project and toward this unifying vision. Flagships thus bring a large-scale integration of efforts while keeping flexibility through agile alignment mechanisms, and offer new possibilities, for example to harness the power of large-scale data integration or to combine vertical integration along the value chain with horizontal integration across disciplines.

In the process of selecting the first two Flagships, namely the Graphene Flagship and the Human Brain Project (HBP), four other candidates were pre-selected out of 21 proposals and led to Flagship preparatory actions, also known as "Pilots": FuturICT, Guardian Angels, IT Future of Medicine, and Robot Companions. Though these four Pilots were eventually not selected in the final phase, they have identified topics where the Flagship model could bring much added value and have generated considerable interest in many European countries. FLAG-ERA has therefore planned, after a first Joint Transnational Call (JTC) dedicated to the two Flagships, a second one to build on the visions identified by the four Flagship Pilots.

More specifically, the present JTC aims at supporting projects showing, through the implementation of selected activities in the topics of the Pilots, how the possibilities offered by the Flagship model can bring added value. These Flagship-proof-of-concept projects should thus showcase federative activities with the potential to leverage other relevant initiatives and to develop a long-lasting coordination of a large cluster of European and international research centres sharing the proposed unifying vision. They should be complementary with existing initiatives and focus on transformative activities with a high potential impact, in particular through changes of organisation and practices (e.g., by bringing together different disciplines or by developing new methodologies, evaluation metrics, benchmarking protocols, data production and sharing protocols, test platforms, and other tools supporting coordination of efforts and reproducibility of experiments, etc.). They should also organise networking activities with the research community interested in the topic and deliver plans and recommendations to further develop activities and collaborations along the previous lines in order to reach maximum impact.

Since the objective is to foster large scale cooperation at the European level, contrarily to more traditional ERA-NET calls, the goal is to support one inclusive project per topic. While stemming from the Flagship preparatory actions, this new call is open to research teams independently of whether they were members of the Pilot consortia or not.

The topics are detailed in Annex I. The funding organisations participating in each topic of the call are listed in the next section. The JTC will be conducted simultaneously by these funding organisations, whose representatives form the Call Steering Committee (CSC), and will be coordinated centrally by the Joint Call Secretariat (JCS). The funding organisations Contact Points (CPs) are provided in Annex II, and the contact information of the JCS is provided on the front page of the present Call Announcement.

Topics, participating funding organisations and budgets

The Call covers four topics, each corresponding to the domain of a Pilot:

- ICT for Social Sciences (ICTSS),
- High-Efficiency Sensor Networks (HESN),
- Digital Medicine for Cancer (DMC), and
- Cooperative Robots (CR).

The descriptions of these Call topics are provided in Annex I.

The table below provides the budgets which have been allocated by the participating funding organisations for each topic. Note that some funding organisations do not participate in some topics. Applicants can submit proposals requesting funding up to these allocated budgets per funding organisation.

Country / Region	Funding Organisation	Indicative Budget			
		Topic 1 ICTSS	Topic 2 HESN	Topic 3 DMC	Topic 4 CR
Belgium / French-speaking community	FNRS	50 k€	50 k€	50 k€	50 k€
Belgium / Flanders	VLAIO	500 k€	500 k€	500 k€	500 k€
Croatia	MZOS	-	-	-	125 k€
Estonia	ETAg	50 k€	50 k€	50 k€	50 k€
France	ANR	500 k€	500 k€	-	500 k€
	INCa	-	-	400 k€	-
Italy	MIUR (grants[1])	500 k€	500 k€	500 k€	500 k€
	MIUR (loans[1])	500 k€	500 k€	500 k€	500 k€
Latvia	LZA	380 k€	200 k€	200 k €	200 k€
Romania	UEFISCDI	125 k€	125 k€	125 k€	125 k€
Switzerland	SNSF	1000 k€[2]	1000 k€[2]	-	1000 k€[2]
Turkey	TUBITAK	400 k€	400 k€	400 k€	400 k€
	Total:	4005 k€	3825 k€	2 725 k€	3950 k€

Eligibility

FLAG-ERA is a hybrid funding instrument: Proposals are submitted by international consortia with partners from multiple countries and the proposal evaluation and selection are international, but grant agreements for the selected projects are established directly between the consortium partners and their respective funding organisations.

Each partner is directed by a principal investigator (PI), who will interact with its respective funding organisation. One partner acts as the coordinator for the consortium and is the single point of contact with FLAG-ERA.

[1] MIUR (Italy) allocates 500 k€ of research grants and 500 k€ of loans (for enterprises only) per topic.
[2] SNSF (Switzerland) allocates 1000 kCHF maximum per topic in which it participates. The requested costs have to be expressed – and will be allocated – in CHF. The table assumes a parity change rate.

Eligibility of the Consortium

Each consortium submitting a proposal shall specify the selected topic and the requested funding shall not exceed the allocated budgets of the funding organisations for the topic as provided in the above table. However, since at most one project will be selected per topic, proposals are encouraged to involve partners requesting funding from all funding organisations participating in the topic.

Consortia can include members who participated in a Pilot as well as members who did not. There can be more than one partner per funding organisation in a proposal. A given partner can participate in several proposals.

Research groups or private partners performing research who are willing to collaborate and contribute to the proposed project without funding may do so, either as part of a consortium if their contribution is needed for the project, in which case they should show that they have secured the necessary funding and will be requested to sign the project consortium agreement, or as an invited member, in which case they can be simply mentioned in the proposal and possibly provide a letter of support. Proposals are encouraged to foresee networking activities involving the community at large and to collect a few representative letter of support from invited members. However, they should not depend too heavily on unfunded partners for scientific and technical activities.

The coordinator must be a partner funded by an organisation participating in the call.

Eligibility of Partners

The eligibility criteria for partners are specified by the chosen funding organisation. Be aware that some funding organisations:

- require that eligibility of partners is checked with them prior to applying;
- fund only basic research or only applied and/or innovation-related research.

Details as well as contact points can be found in Annex II.

All partners in the consortium should ensure that no doubts exist about the eligibility of their institution (university, academic institutions, industry), the eligibility of their PI (permanent staff, position secured for the duration of the project, etc.), and their eligible costs. It is the responsibility of each partner to ensure eligibility according to the applicable rules and regulations. Check the detailed rules and regulations of each organisation in Annex II for partner-specific conditions. Make sure that all partners who must contact their funding organisation prior to submission have done so.

If after submission, a partner or cost in a proposal nevertheless appears to be not eligible, subject to approval of the CSC, the applicant might be invited to propose a correction to the problem. Until a correction is submitted and approved by the CSC, the proposal will be deemed to not include the corresponding part and evaluated accordingly.

Project duration

Proposals shall plan for a period of three years and according to the individual funding organisations' rules and regulations (see Annex II).

Application Procedure

Preparation of joint transnational proposals

A Partner Search Tool is made available to the applicants on the call web page[3]. This tool enables applicants to indicate an interest in finding partners for a project they are preparing or to describe their competencies in order to find a project, and to view Expressions of Interest that have already been submitted.

Keep in mind that proposals are encouraged to include at least one partner for each funding organisation participating in the topic. This element is considered in the evaluation (cf. criterion 3c below).

Also keep in mind that a given partner can participate in several proposals and that, in order to encourage both variety in the proposals and broad coverage, partially overlapping proposals are considered perfectly acceptable.

Before submitting a proposal, ensure that it is valid:

- The research is in line with one of the four topics of the call;
- The consortium as a whole meets the eligibility criteria;
- Each partner of the consortium meets the eligibility criteria.

Submission of joint transnational proposals

A one-stage submission process applies. One joint proposal document (in English, in PDF format) shall be prepared by the partners of a joint transnational proposal and submitted by the coordinator.

Proposals must be submitted in electronic format no later than March 31, 2016 - 17:00 CET via the electronic submission system (http://submission.flagera.eu/).

It is recommended to submit a preliminary proposal several days before the deadline to allow dealing with unforeseen issues. Proposals that have already been submitted can be modified until the deadline.

Partners whose funding organisation requires submitting forms alongside the consortium application must do so at this point.

The coordinator and all partners must be authorised and able to diligently answer e-mail queries after the submission. If a PI is not available, he must be represented by a collaborator of the same organisation.

[3] http://www.flagera.eu/flag-era-call-2016

Further information

For further details, please refer to the submission forms available through the FLAG- ERA website. For additional information, please contact the Joint Call Secretariat, or the funding organisation representative in your country (see Annex II for contact data).

Evaluation and Selection of Proposals

For each topic, proposals are assessed by an independent international Scientific Evaluation Panel (SEP). If needed, based on the number of submitted proposals and their technical content, the evaluation can involve external reviewers.

Evaluation Criteria

The proposals are evaluated and ranked according to the following four criteria, each of these being equally weighted:

1. **Relevance** to the call:
   a. Relevance to the general call objectives (cf. pages 3 and 9);
   b. Relevance to the topic (cf. pages 10 to 13).
2. **S/T Quality:** Scientific and/or technological excellence with respect to the topics of the call:
   a. Soundness of the concept, and quality of the objectives;
   b. Progress beyond the state-of-the-art;
   c. Originality and novelty of ideas;
   d. Quality and effectiveness of the methodology;
3. **Implementation:** Quality and efficiency of the implementation and management:
   a. Appropriateness of the management structure and procedures;
   b. Quality and relevant experience of individual participants;
   c. Quality and added value of the consortium (complementarity, balance, coverage in term of countries[4], etc.);
   d. Appropriateness of allocation and justification of requested resources (staff, equipment…);
   e. Involvement of the community at large (beyond the project partners and countries) in the networking activities;
   f. Identification of risks and mitigation plans.
4. **Impact:** Quality of long-term plans and potential impact through the development, dissemination and exploitation of results:
   a. Potential impact at the European and/or international level;
   b. Societal and scientific importance;
   c. Appropriateness of measures for the dissemination and/or exploitation of project results.

[4] No penalty will be applied if a funding organisation who joined after the call launch is not represented.

Each criterion will be scored between 0 and 5 points. The total score for a proposal will thus be between 0 and 20 points. Only projects having individual scores of 3 points or more and a total score of 14 points or more will be considered eligible for funding. The assessment of each proposal will be detailed in a consensus report, which will be made available to the applicants.

Selection of proposals

Based on the outcome of the evaluation, the CSC might invite applicants to a negotiation stage according to the remarks and suggestions of the reviewers before preparing the list of projects recommended for funding. After publication of this list, the final funding decisions and contract negotiations are completed at the national level.

Management of Projects

Setting up the Consortium

If a proposal is recommended for funding by the CSC, each partner enters into direct contact with its respective funding organisation to prepare the contract for the project. The subsequent negotiation phase between the partners and the funding organisations follows their established procedures and, if successful, results in a grant agreement between the two parties.

All partners of a consortium should request funding starting at approximately the same date, to ensure that the collaborative research can be performed as planned.

The administrative and financial management of funding is overseen by the respective funding organisations, according to their rules and guidelines.

At the latest three months after project start, a consortium agreement (CA) has to be signed by all partners and sent to the FLAG-ERA JCS. Some funding organisations may require that the consortium agreement is signed before the grant agreement can be finalised or before any payment.

Reporting and Publications

The coordinators of funded projects have to submit a scientific report on each 12-month period of the project. The reports must be sent to the FLAG-ERA JCS within two months after the end of each period. In addition the consortia must present the status of their projects at annual events. The related costs are eligible and it is recommended to include them in the project budget.

Some funding organisations require separate reports for individual project partners. This will be specified in their grant agreement.

Any publications resulting from FLAG-ERA funded projects must acknowledge FLAG-ERA, and an electronic copy must be sent to the FLAG-ERA JCS.

ANNEX I – JTC 2016 Topics

This Annex describes the four topics of the JTC 2016 (cf. next pages). Each proposal should address one of these topics as well as the transversal goals described in introduction on page 3, and in particular:

- Describe how the proposed activities can attract, leverage or federate other initiatives, programmes and projects at the regional, national, European or international level.
- Describe how the proposed activities are complementary with existing initiatives and have a transformative character with a high potential impact, in particular through changes of organisation and practices in research and innovation activities.
- Describe the proposed networking activities with the community interested in the topic and long-term plans to further develop research and innovation in the domain beyond the proposed project, and how these plans can be updated at the end of the project by taking into account its outcomes.

The following subsections provide, for each topic, the vision and expected long-term user benefits, the targeted new technologies, and some potential key enablers for the development of these technologies.

Topic 1 - ICT for Social Sciences (ICTSS)

Important note: Proposals should be relevant both to the topic described below and to the transversal call objectives described on pages 3 and 9. Proposals should both describe how the topic is addressed in the three year time frame of the project and explain how the proposed activities can be further developed in the longer term.

Globalisation and technological change have made our world a different place. They have created or intensified a number of serious problems, such as global financial and economic crises, political instabilities and revolutions, the quick spreading of diseases, disruptions of international supply chains, organised crime, international conflict and world-wide terrorism, increased cyber-risks, etc. In order to address such challenges of humanity in the 21st century, there is a need to develop the capacity to explore and manage our future. New tools should be developed to enable citizens, companies, public authorities and policy makers to participate in social, economic and political affairs, to test the social and economic effect of policies, and more generally to anticipate, detect and mitigate or even prevent crises.

For that purpose, social science theories should be coupled with participatory modelling, a big data approach and large scale simulations. A fundamental understanding of the society and more generally of techno-socio-economic systems is needed, i.e. the laws and processes which bind people and make societies work should be studied and quantified in a global manner involving various levels and viewpoints. The needed data should be collected, annotated and documented in ways which make them reliable and easy to share and reuse. New models and tools for social mining and forecasting should be developed, for example to detect and assess changes in health trends, collective opinions and social attitudes, consumer behaviour, demographics, migrations and mobility patterns, emergence of tensions in communities, etc. The predictive power of these models should be quantified on real or realistic data in a reproducible way to ensure their reliability. Various platforms should be developed to involve users, collect and share data, experiment models, and disseminate results.

This requires new approaches for multi-level, complex, global systems, by bringing the best knowledge of experts on information and communication systems, data management, machine learning, complex systems and the social sciences together.

Topic 2 - High-Efficiency Sensor Networks (HESN)

Important note: Proposals should be relevant both to the topic described below and to the transversal call objectives described on pages 3 and 9. Proposals should both describe how the topic is addressed in the three year time frame of the project and explain how the proposed activities can be further developed in the longer term.

Energy efficiency is becoming a main driver for the information revolution and, particularly for the Internet-of-Things (IoT), for creating autonomous smart systems that can act as true smart electronic assistants for people, offering personalized advice, and thus enabling a better life. The goal is to develop extremely energy-efficient and smart electronic personal companions that will assist humans from infancy to old age. These devices should be private and secure systems, feature sensing beyond human capabilities, and embed computation and communication. Particular applications include:

- Monitoring the physical / physiological status of individuals in health care, rehabilitation, and sports, with an awareness of the context of activity of these individuals. With a strong focus on prevention and early diagnosis, these devices can help keep healthcare affordable and accessible to all.
- Observing ambient conditions for environmental threats and communicate with each other to expand their information base. In combination with the previous functionality, it becomes possible to correlate a person's physical state with the environmental context.
- Perceiving emotional or affective conditions, and both supporting patients and enhancing the performance of healthy people, such as with smart-drive assistants for improved safety.

For that purpose, drastically reduced energy consumption must be achieved for sensing, computing and communication, techniques for energy harvesting must be developed, and these energy consumption reductions and harvesting techniques must be tuned to each specific application. For sensing energy consumption, reduction in size down to the nanoscale should be sought. For computation energy consumption, novel logic and analogue circuits, devices and memory concepts and system level energy efficient computational architectures should be designed. For communication energy consumption, adaptive, reduced complexity and duty-cycled burst-mode radios should be envisioned. For energy harvesting, multiple sources of energy should be considered, including solar, thermal and mechanical. Efficient energy storage and management techniques should be developed. All functions, from harvesting to sensing, computing and communication, should be tightly integrated and co-developed for increased efficiency. Multiple system functionalities should be integrated into small devices, and in particular into wearable devices which should be flexible, lightweight, and thin, for some specific applications such as analysis of biological and behavioural signals for healthcare. Proposed projects should showcase at least one example of such integrated devices.

This requires gathering highly plurisdisciplinary teams supporting advances ranging from physics to smart modelling, including algorithmics, protocols and data management, and a co-design approach involving the whole spectrum from practical applications to basic science.

Topic 3 - Digital Medicine for Cancer (DMC)

Important note: Proposals should be relevant both to the topic described below and to the transversal call objectives described on pages 3 and 9. Proposals should both describe how the topic is addressed in the three year time frame of the project and explain how the proposed activities can be further developed in the longer term.

Despite major progress in our understanding of cancer pathogenesis, the disease still remains one of the world's major healthcare challenges, a problem exacerbated in Europe by the ageing of the population. However, every patient is different, in the way they metabolise drugs, respond to treatment and experience side-effects. Likewise, every tumour is different, also potentially reacting differently to the same therapy. Each tumour is a heterogeneous entity, with subsets of tumour cells exhibiting their own unique properties, and reacting differently to the treatment the patient receives. In oncology as in many other diseases, we are therefore faced with enormous complexity, both in determining the optimal treatment for an individual patient, as well as in the development of new generations of drugs to meet the medical needs of these patients. The 'omics' era provides powerful tools for a personalised understanding of oncogenesis and other diseases. In particular, large amounts of detailed data can be generated in an individualised way. However, data alone cannot directly benefit patients and understanding of disease processes. Further technological and methodological advances are required to translate these technological leaps and new types of data into pre-clinical and clinical applications.

For that purpose, a system biology approach with a wide sharing of data and protocols ensuring reproducibility of results are needed. Detailed patient-specific computer models and simulations of the complex biological processes involved in cancer should be developed. These models should cover multiple levels spanning molecules, cells, tissues, whole body and populations, and take into account the various genetic and environmental factors. They should have predictive capacity, for example yielding the probability of recovery for a given patient and a given treatment. The reliability of the predictions should themselves be quantified. Molecular, biological and clinical data should be widely shared while taking into account the constraints of patient privacy, so that models can be trained on much more data and tested on common datasets. Significant attention should be granted to data quality and reliability. All these developments should be accompanied by policies and guidelines tackling the related conceptual, ethical, regulatory and financial issues.

This requires a tight integration of skills from several disciplines including medicine, biology, bio-engineering, statistics, machine learning and computer science, and dedicated efforts for data collection, curation and sharing and for model validation.

Topic 4 - Cooperative Robots (CR)

Important note: Proposals should be relevant both to the topic described below and to the transversal call objectives described on pages 3 and 9. Proposals should both describe how the topic is addressed in the three year time frame of the project and explain how the proposed activities can be further developed in the longer term.

Developing robots able to assist humans, for example to sustain welfare in an ageing society, to enhance productivity and safety at work, or to cope more effectively with natural disasters, is a major challenge. Such cooperative robots not only need to carry loads, move, find their way and recognize objects, but they must also interact, physically and socially, with humans, be safe, dependable, unobtrusive, affordable, and recyclable.

For that purpose, a new generation of robotic technologies is needed. A radical rethinking of robot bodyware and a tighter integration of software and hardware are required. This involves new, bio-inspired materials and structures. Continuous deformable bodyware is expected to provide robots with enhanced motor capabilities in walking, running, grasping, and other functions, and with the capacities to interact safely, dependably and effectively with humans and the physical environment, and to achieve energy efficiency. Unconventional distributed sensing and actuation systems integrated into the new bodyware also need to be developed. Following the principles of embodied intelligence, the physical body should have a more prominent role in motor control and adaptive behaviour, possibly also involving emotions. New, adaptive, learning-based perceptual and cognitive capabilities leading to high levels of autonomous behaviour and dependability should be developed and experimentally tested in context, for various types of bodies, environments and applications, possibly requiring novel validation methods and tools. Experimental data should be widely shared among research teams. In particular, databases of robotic perceptions and associated desired behaviours as well as metrics to assess software components should be created and shared to enable reproducible testing. In addition to the technological developments, methodologies for investigating social and legal implications of machines working with and for us in our society need to be studied and put in place.

This requires gathering highly plurisdisciplinary teams supporting advances ranging from material science and bio-engineering to machine learning and artificial intelligence, and a co-design approach involving technology developers, technology users, and dedicated skills to provide the needed transversal infrastructures.

ANNEX II – National Requirements

Belgium / French speaking community – FNRS

Country/Region	Belgium, French-speaking Community
Funding organisation	Fund for Scientific Research – FNRS
National contact person	**Freia Van Hee**, freia.vanhee@frs-fnrs.be, +32 2 504 93 09 **Joël Groeneveld**, joel.groeneveld@frs-fnrs.be, +32 2 504 92 70
Funding commitment	50 k€ per topic, total of 200 k€
Specific rules about project duration	The maximum amount of requested funding per project is 50 k€ for a total period of three years.
Eligibility of a partner as a beneficiary institution	FNRS funds only basic research (low Technology Readiness Level) carried out in a research institution from the "Fédération Wallonie-Bruxelles". The FNRS will not fund industrial partners. The applicant must be affiliated to a research institution from the Fédération Wallonie-Bruxelles. The applicant should also: • be a permanent researcher of FNRS (Chercheur qualifié, Maître de recherches or Directeur de recherches), • or hold a tenure track position (or an assimilated position including pending tenure track) within a research institution from the Fédération Wallonie-Bruxelles, • or be a permanent research staff member of a federal scientific institution including the Ecole Royale Militaire in which case he can act as a co-promotor only. The applicant should not have reached retirement at the starting date of the project. If the applicant reaches the age of retirement in the course of the project, he should precisely describe in the proposal how the handover will be managed
Eligibility of costs, types and their caps	• Equipment • Running costs: travel expenses; organisation of small scientific events in Belgium; consumables and the following support costs: o Conception d'ouvrage o Réalisation de dictionnaire o Achat de livre o Encodage o Location de licence de logiciel o Inscription à un congrès o Ordinateur o Scannage "Overhead" is not an eligible cost. If the project is selected for funding, these costs will be subject to a separate agreement between the institution of the beneficiary and the FNRS. General rules and regulations of FNRS apply: www.frs-fnrs.be
Submission of the proposal at the national level	No parallel submission of the proposal at the national level is required.

Submission of financial and scientific reports at the national level	• Financial reports: yearly reports to FNRS according to the rules and regulations • Scientific reports: the reporting in the framework of FLAG-ERA replaces the reporting of FNRS
Information available at	http://www.ncp.fnrs.be/index.php/appels/era-nets
Other	The research groups of the French-speaking Community who are applying to a particular topic should aim to submit a joint budget.

Belgium / Flanders – VLAIO

Country/Region	Belgium/Flanders
Funding organisation	Vlaio (Vlaams Agentschap Innoveren en Ondernemen) (former IWT).
National contact person	**Geert Carchon** **geert.carchon@vlaio.be** **+32/(0)2/432 42 94**
Funding commitment	500.000€ : Topic 1 ICTSS 500.000€ : Topic 2 HESN 500.000€ : Topic 3 DMC 500.000€ : Topic 4 CR
Specific rules about project duration	Projects can have a duration up to 3 years.
Eligibility of a partner as a beneficiary institution	- All companies with operational activities in Flanders can be funded. -The minimal grant for the Flemish partners is 50,000.00 EUR. The maximum grant is 500.000,00 EUR. The budget for the Flemish partners should follow the Vlaio cost model. -The company must have a stable financial situation. -The project must be compatible with the regional program. Any kind of research supporting military purposes is not funded. -The project must add benefit to the regional economy. Companies should describe the added value for Flanders ("Toegevoegde waarde in Vlaanderen" - max 5 pages). This document should be part of the hard copy sent to Vlaio and will be evaluated by Vlaio. -Declaration (sent to Vlaio) that o The Flag-Era procedures and rules will prevail on Vlaio-procedures and rules. o Vlaio can perform all due diligence to evaluate the international project. o There are no government claims on the company and there is no double financing. o That the given financial information is correct. o Electronic version of the application sent to Flag-ERA is identical to the hard copy of the application sent to Vlaio. ---- DECLARATION FORM (in Dutch): Voeg aan uw aanvraag onderstaande tekst toe en onderteken deze. De ondertekening moet voor uw bedrijf gebeuren door een persoon die de betrokken rechtspersoon rechtsgeldig kan verbinden. Ik verklaar in naam van het bedrijf akkoord te gaan met de Euronanomed procedure met inbegrip van de National requirements voor België Vlaanderen en dat deze procedure voorrang heeft op de Vlaio-procedure. Hierbij geef ik Vlaio de toestemming alle nodige enquêtes te laten uitvoeren naar aanleiding van de aanvraag bij Vlaio tot financiële steun

	voor het FLAG-ERA project: <titel project>. In hoofde van het aanvragend bedrijf verklaar ik dat het bedrijf op datum van deze aanvraag geen vervallen schulden bezit met betrekking tot belastingen en/of RSZ alsook in orde is met betrekking tot de nodige (milieu)vergunningen. Ik verklaar tevens voor dit projectvoorstel geen andere overheidssteun aangevraagd of ontvangen te hebben. Tevens verklaar ik dat alle relevante informatie m.b.t. deelnemingen en stemrechten van mijn bedrijf en zijn aandeelhouders volledig en correct is. Ik verklaar dat het aanvragend bedrijf op datum van deze aanvraag in orde is met betrekking tot de nodige vergunningen en dat indien voor het project specifieke autorisaties of verzekeringen vereist zijn, deze tijdig zullen aangevraagd worden en dat de activiteiten die dergelijke autorisaties/verzekeringen vereisen niet zullen uitgevoerd worden zonder dat deze autorisaties/verzekeringen bekomen werden. Datum: handtekeningen voorafgegaan door “gelezen en goedgekeurd” Voor het aanvragend bedrijf
Eligibility of costs, types and their caps	http://www.iwt.be/subsidies/oeno-bedrijfsproject
Submission of the proposal at the national level	- It is mandatory that the Flemish companies apply at Vlaio at the closing of the call by means of the abstract of the project, innovation goal and valorisation perspective of the Flemish partner.
Submission of financial and scientific reports at the national level	http://www.iwt.be/subsidies/oeno-bedrijfsproject
Information available at	http://www.vlaio.be
Other	-

Croatia – MZOS

Country/Region	Croatia
Funding organisation	Ministry of Science, Education and Sports
National contact person	**Hrvoje Pavletić** hrvoje.pavletic@mzos.hr
Funding commitment	125,000 € for Topic 4: Cooperative robotics (CR)
Specific rules about project duration	No constraint in addition to the transnational level (3 years duration)
Eligibility of a partner as a beneficiary institution	Scientific institutions listed in National Register of Scientific Institutions
Eligibility of costs, types and their caps	Personnel costs, consumables, equipment, materials, dissemination costs, travels costs, project management costs, and indirect costs
Submission of the proposal at the national level	No
Submission of financial and scientific reports at the national level	Yes. Submission of financial and scientific reports at national level is required
Information available at	http://public.mzos.hr/Default.aspx?sec=2630
Other	-

Estonia – ETAg

Country/Region	Estonia
Funding organisation	Eesti Teadusagentuur (ETAg) / Estonian Research Council
National contact person	**Aare Ignat**, Tel: +372 7317364 aare.ignat@etag.ee
Funding commitment	50 k€ per topic
Specific rules about project duration	No constraint in addition to the transnational level (3 years duration)
Eligibility of a partner as a beneficiary institution	According to National Eligibility Criteria of research project proposal in international calls
Eligibility of costs, types and their caps	According to National Eligibility Criteria of research project proposal in international calls (personnel costs, Travel costs, Subcontracting costs, Costs for publishing and dissemination, consumables, organising meetings, Fees for participating in scientific forums/conferences, Overhead costs)
Submission of the proposal at the national level	No
Submission of financial and scientific reports at the national level	Financial reporting: at the national level according ETAg procedure. Scientific reporting: as it takes the place on the FLAG-ERA level.
Information available at	www.etag.ee
Other	-

France – ANR

Country/Region	France
Funding organisation	Agence Nationale de la Recherche (ANR)
National contact person	**Fabien Guillot**, Tel: +33 1 73 54 81 97 fabien.guillot@agencerecherche.fr **Edouard Geoffrois**, Tel: +33 1 73 54 81 49 edouard.geoffrois@agencerecherche.fr
Funding commitment	500 k€ per topic (ANR participates for the following 3 topics: ICTSS, HESN, CR)
Specific rules about project duration	No constraint in addition to the transnational level (3 years duration)
Eligibility of a partner as a beneficiary institution	The general rules of ANR apply (cf. link below). In particular, both public research institutions and enterprises can apply.
Eligibility of costs, types and their caps	The general rules of ANR apply (cf. link below). Personnel, consumables, subcontracts (within 50% of the eligible costs for the partner), equipment and travel costs are eligible. Funding rates are 100% of additional costs for public research institutions, 45% of total costs for SMEs, and 30% of total costs for large companies.
Submission of the proposal at the national level	No
Submission of financial and scientific reports at the national level	Financial reporting at the national level is needed, using the usual ANR procedures. The FLAG-ERA level reporting takes the place of the scientific reporting for ANR.
Information available at	http://www.anr.fr/AAPProjetsOuverts.
Other	Applicants from France must read the specific appendix available at the above-mentioned link.

France – INCa

Country/Region	France
Funding organisation	National Cancer Institute (INCa)
National contact person	**Etienne LONCHAMP** **Research and Innovation Division** 52 avenue André Morizet 92513 Boulogne Billancourt Cedex, France Email: elonchamp@institutcancer.fr Phone: + 33 (0)1 41 10 16 24
Funding commitment	400 k€ for topic Digital Medicine for Cancer (DMC)
Specific rules about project duration	3 years maximum
Eligibility of a partner as a beneficiary institution	- Public research institutions (university, EPST, EPIC, etc.) - Non-profit organisations (associations, foundations, etc.) - Hospitals or other health care providers (CHU, CRLCC, etc.)
Eligibility of costs, types and their caps	The general rules of INCa apply (For additional information please refer to general rules published on www.e-cancer.fr) - Equipment: the total amount of the "equipment" expenses could not exceed a maximum of 30% of the total grant awarded - Consumables and subcontracting - Personnel costs • Salary costs for permanent staff may be included in the budget with the exception of civil servants • Please note that salary for PhD student is not eligible - Travel and accommodation: only for the partner team members and for project management meetings; the total amount of the "Travel and accommodation" expenses could not exceed a maximum of 8% of the total grant awarded - Indirect costs/overheads: overheads may not exceed a maximum of 4% of the total eligible costs (personnel costs, running costs, equipment)
Submission of the proposal at the national level	Not required
Submission of financial and scientific reports at the national level	No scientific reports are requested beyond those submitted by the project coordinators to the FLAG-ERA Joint Call Secretariat. Financial reporting at national level is needed, using usual INCa procedures. This is asked at the end of the project.
Information available at	Information will be available soon after the launch of the call at www.e-cancer.fr
Other	-

Italy – MIUR

Country/Region	Italy
Funding organisation	Ministry for Education, University and Research (MIUR)
National contact person	For international aspects: – **Aldo Covello**, tel. +39 06 5849 6465, e-mail: aldo.covello@miur.it – **Giorgio Carpino**, tel. +39 06 5849 7147, e-mail: giorgio.carpino@miur.it For national aspects: – **Marco Pagnani**, tel. 06 9772 7587, e-mail: marco.pagnani@miur.it
Funding commitment	Funding per topic: 1) ICT for Social Sciences: 1000 k€, of which 500 k€ as grant and € 500 k€ as loan 2) High-Efficiency Sensor Networks: 1000 k€, of which 500 k€ as grant and € 500 k€ as loan 3) Digital Medicine for Cancer: 1000 k€, of which 500 k€ as grant and € 500 k€ as loan 4) Cooperative Robots: 1000 k€, of which 500 k€ as grant and € 500 k€ as loan
Specific rules about project duration	The same as for the international call
Eligibility of a partner as a beneficiary institution	1) Type/nature of participants According to art. 60 of the Decree-Law n. 83/2012, the following entities are eligible: enterprises, universities, research institutions, research organizations providing that they have stable organization in Italy. 2) Legal/administrative/financial conditions: The participant must not be defaulting with regard to other funding received by the Ministry. The participant must not have requested/got any other funding for the same research activities. The participant must respect the Italian law against "mafia". 3) Financial conditions For any private entity, the following financial criteria, calculated using the data reported in the last approved balance sheet, must be fulfilled CN > (CP – I)/2 Where: CN = net assets (Capitale netto) CP = sum of the costs of all the projects for which public funding has been requested by the participant during the year I = sum of the contributions received, approved or requested for the same projects OF/F < 8% Where: OF = financial charges (Oneri finanziari) F = turnover (Fatturato)
Eligibility of costs, types and their caps	All activities classifiable as Basic Research, Industrial research and Experimental development are eligible for funding. Furthermore, Basic and Industrial research activities altogether must be predominant with respect to Experimental development activities. All costs incurred during the lifetime of the project under the following categories are eligible: Personnel, Equipment, Subcontracting, Consumables, Dissemination and Coordination activities, and Overheads.

<table>
<tr><td></td><td>
<table>
<tr><td colspan="2" rowspan="2">Activity typology / Applicant typology</td><td colspan="4">Funding Rates</td></tr>
<tr><td colspan="3">Enterprises and private research bodies (which meets the requirements of research organization under EU Reg. no. 651/2014 of the Commission - June 17, 2014)</td><td rowspan="2">Universities, public research institutions, research organizations (public and private) in accordance with Reg. EU n. 651/2014 of the Commission - June 17, 2014)</td></tr>
<tr><td></td><td></td><td>Small Enterprises</td><td>Medium Enterprises</td><td>Big Enterprises</td></tr>
<tr><td rowspan="2">Basic Research</td><td>grant</td><td>40%</td><td>30%</td><td>20%</td><td>70%</td></tr>
<tr><td>loan</td><td>55%</td><td>65%</td><td>75%</td><td>0%</td></tr>
<tr><td rowspan="2">Industrial Research</td><td>grant</td><td>40%</td><td>30%</td><td>20%</td><td>50%</td></tr>
<tr><td>loan</td><td>55%</td><td>65%</td><td>75%</td><td>0%</td></tr>
<tr><td rowspan="2">Experimental Research</td><td>grant</td><td>30%</td><td>20%</td><td>10%</td><td>25%</td></tr>
<tr><td>loan</td><td>50%</td><td>60%</td><td>70%</td><td>0%</td></tr>
</table>

On request of applicants a pre-payment may be done, equal to:
- 80% of the total contribution for public entities
- 50% of the total contribution for private entities
The remaining part of contribute will be paid in instalments after each financial and progress reporting period.</td></tr>
<tr><td>Submission of the proposal at the national level</td><td>Full proposals shall be submitted at European level.
Italian participants could be requested to provide to MIUR additional documents, such as:
1. “Domanda di finanziamento”;
2. “Dichiarazioni del soggetto proponente”;
3. “Dichiarazioni dell’affidabilità economico-finanziaria”;
4. “Dichiarazione di impegno a fornire una polizza fideiussoria”;
5. “Dichiarazione di conformità ai requisiti per lo status di organismo di ricerca e diffusione della conoscenza”;
6. “Costi ammissibili”.
All these documents will be available at MIUR International Research website in a single editable file containing all the instructions for the submission.
The admission for funding is subject to the adoption of the necessary accounting and administrative measures for the allocation of the resources.</td></tr>
<tr><td>Submission of financial and scientific reports at the national level</td><td>Every six months.</td></tr>
<tr><td>Information available at</td><td>http://www.ricercainternazionale.miur.it
http://www.ricercainternazionale.miur.it/era/eranet-e-sa/flag-era.aspx</td></tr>
<tr><td>Other</td><td>It is recommended to contact the National contact person already in early stage of project preparation.</td></tr>
</table>

Latvia – LZA

Country/Region	Latvia
Funding organisation	Latvijas Zinatnu akademija (LZA)
National contact person	**Atis Kapenieks, atis.kapenieks@rtu.lv, +37129355511** **Maija Bundule, maija.bundule@lza.lv, +37167227790**
Funding commitment	Topic ICTSS: 380 k€ Topic HESN: 200 k€ Topic DMC: 200k€ Topic CR: 200 k€
Specific rules about project duration	No constraint in addition to the transnational level (3 years duration)
Eligibility of a partner as a beneficiary institution	Higher education institutions, their institutes and R&D centres. Scientific institutions listed in National Register of Scientific Institutions. The funding of RTD activities is provided pursuant in accordance with the Commissions Regulation (EC) No 800/2008 of 6 August 2008 declaring certain categories of aid compatible with the common market in application of Articles 87 and 88 of the Treaty (General block exemption Regulation) and Regulation of the Council of Ministers of the Republic of Latvia No 414 on the procedure for providing support for participation in international cooperation programs for research and technology (adopted on 19 June 2012).
Eligibility of costs, types and their caps	Personnel costs, consumables, equipment (only depreciation costs), reagents, materials and etc., subcontracts (up to 25% of total direct costs), travels costs, project management costs and indirect costs (can reach a maximum of 20% of the total direct costs).
Submission of the proposal at the national level	Yes. But only for projects that are approved for funding
Submission of financial and scientific reports at the national level	Yes. Submission of financial and scientific reports at national level is required
Information available at	www.izm.gov.lv
Other	-

Romania – UEFISCDI

Country/Region	Romania
Funding organisation	Unitatea Executivă pentru Finanţarea Învăţământului Superior, a Cercetării, Dezvoltării şi Inovării (UEFISCDI)
National contact person	**Domnica Cotet**; Tel: +40213023880, domnica.cotet@uefiscdi.ro
Funding commitment	500 k€ per total (125 k€ per topic)
Specific rules about project duration	No additional constraint in addition to the transnational level (3 years maximum)
Eligibility of a partner as a beneficiary institution	Eligible entities for funding are: universities, public institutions, R&D national institutions, joint-stock companies, SME's and large companies, NGOs (associations, foundations, etc.), others. Funding rates are in respect of with state aid legislation.
Eligibility of costs, types and their caps	a. Staff costs; b. Logistics expenses - Capital expenditure ; - Expenditure on stocks - supplies and inventory items; - Expenditure on services performed by third parties cannot exceed 25 % of the funding from the public budget. The subcontracted parts should not be core/substantial parts of the project work; c. Travel expenses; d. Overhead (indirect costs) is calculated as a percentage of direct costs: staff costs, logistics costs (excluding capital costs and cost for subcontracting) and travel expenses. Indirect costs will not exceed 20 % of direct costs.
Submission of the proposal at the national level	No
Submission of financial and scientific reports at the national level	Financial reporting at the national level is needed, using the usual UEFISCDI procedures.
Information available at	http://uefiscdi.gov.ro/Public/cat/651/ERA-NET.html
Other	Applicants from Romania must read the specific appendix available at the link mentioned before.

Switzerland – SNSF

Country/Region	Switzerland
Funding organisation	Swiss National Science Foundation (SNSF) Division II – Mathematical, Natural and Engineering Sciences Wildhainweg 3 P.O. Box 8232 CH-3001 Berne http://www.snf.ch
National contact person	**Dr. Patrick Vonlanthen** – scientific officer patrick.vonlanthen@snf.ch +41 31 308 24 14
Funding commitment	3 MCHF (1 MCHF maximum per project). The requested costs have to be expressed – and will be allocated -- in CHF. The table on page 4 of this document assumes a parity change rate 1 CHF = 1 €. A maximum number of three projects will be funded, one per call in which the SNSF participates (ICT for Social Sciences, High-efficiency Sensor Networks, Cooperative Robots).
Specific rules about project duration	Cost neutral extensions are possible, but no supplementary grants will be allocated. In particular, completion of PhD theses beyond the project duration has to be secured through third party (non-SNSF) funding, or has to be requested in the submitted budget already (and will be spent during a cost-free extension of the Swiss part of the project).
Eligibility of a partner as a beneficiary institution	All Swiss applicants must be eligible for the Project Funding scheme of the SNSF Division II. Swiss applicants who have not previously obtained a Project grant in Division II must contact the national contact person.
Eligibility of costs, types and their caps	Projects must comply with the SNSF Project Funding (Division II) regulations and practices.
Submission of the proposal at the national level	Applicants must provide basic administrative data by submitting an application in the online mySNF tool on or before the day the consortium application is submitted. Please select the Programmes/ERA-NET funding instrument when creating the administrative application.
Submission of financial and scientific reports at the national level	Yearly financial reports have to be submitted to the SNSF. No scientific report is requested beyond the one that is submitted by the project coordinators to the FLAG-ERA Joint Call Secretariat.
Information available at	http://www.snf.ch http://www.snf.ch/SiteCollectionDocuments/allg_reglement_e.pdf http://www.snf.ch/en/funding/documents-downloads/Pages/default.aspx http://www.snf.ch/SiteCollectionDocuments/allg_lifetime_management_e.pdf
Other	Please note that article 15 of the SNSF Funding Regulations (multiple parallel grants) applies. In particular, the submitted proposal must be thematically clearly different from other ongoing SNSF grants. Grants will be managed according to the standard SNSF rules.

Turkey – TUBITAK

Country/Region	Turkey
Funding organisation	The Scientific and Technological Research Council of Turkey
National contact person	**Serkan ÜÇER**, serkan.ucer@tubitak.gov.tr, ncpict@tubitak.gov.tr, +90.312.2989413
Funding commitment	€400.000 for each topic
Specific rules about project duration	Max 36 months
Eligibility of a partner as a beneficiary institution	Higher education institutions, their institutes and R&D centres; Associate laboratories; State laboratories; Private non-profit institutes and Companies (Industry & SMEs) whose main objective is to carry out S&T activities
Eligibility of costs, types and their caps	Equipment, consumables, human resources, travel, overheads, dissemination (like printing of booklets or organizing workshops)
Submission of the proposal at the national level	No
Submission of financial and scientific reports at the national level	Yes. Submission of financial and scientific reports at national level is required according with the rules of TUBITAK 1001 Programme. This is asked at the end of first year of the project and then every 6 months.
Information available at	Information will be available soon after the launch of the call at www.h2020.org.tr website
Other	