

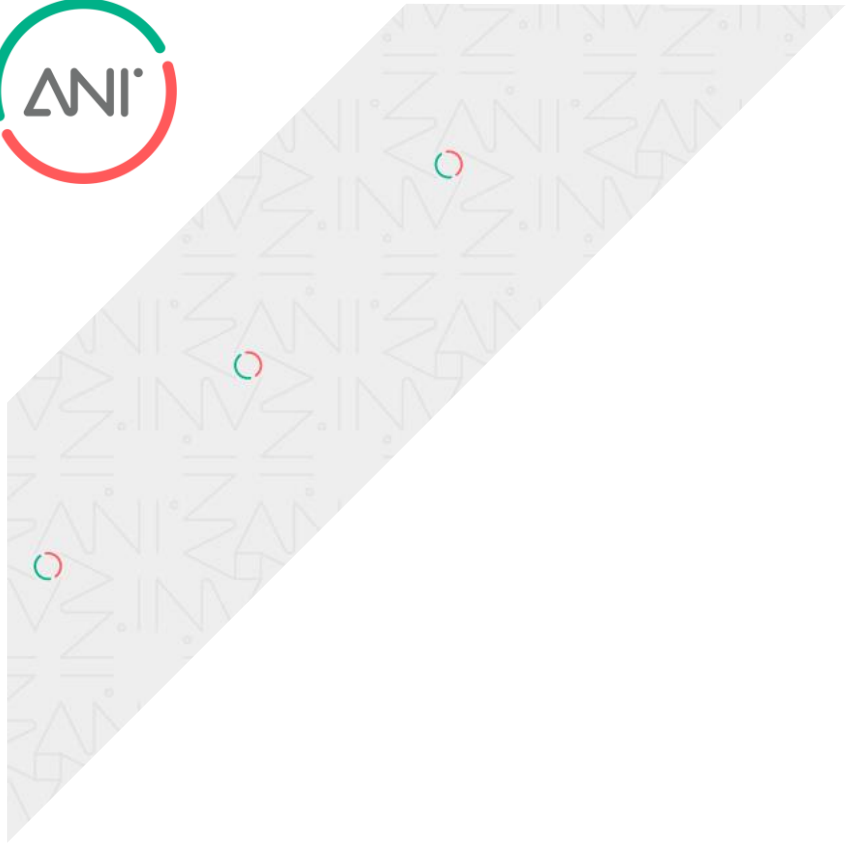


AGÊNCIA NACIONAL
DE INOVAÇÃO



HORIZONTE 2020

**COMO SELECIONAR O INSTRUMENTO CERTO, PARA O
PROJETO CERTO, NA ETAPA CERTA**





HORIZONTE 2020

Excellent Science
~ 24 400 M€

European Research Council
Frontier Research by the best individual teams

Future and Emerging Technologies

Collaborative research to open new fields of innovation

Marie Skłodowska-Curie Actions

Opportunities for training and career development

Research Infrastructures
(including e-infrastructure)
Ensuring access to world class facilities

Bottom up

Industrial Leadership
~ 17 800 M€

Leadership in enabling and industrial technologies
Space, ICT, NMBP
(*nanotechnologies, advanced materials, biotechnology, manufacturing*)

Access to Risk finance
Leveraging private finance and venture capital for research

Innovation in SMEs
Fostering all forms of innovation in all types of SMEs

Top down

Societal Challenges
~ 29 700 M€

1. Health, demographic change and wellbeing
2. Food security, sustainable agriculture, marine and maritime research & the bioeconomy
3. Secure, clean and efficient energy
4. Smart, green and integrated transport
5. Climate action, environment, resource efficiency and raw materials
6. Inclusive, innovative and reflective societies
7. Security society

Top down

European Institute of Innovation and Technology (EIT) (~2700 M€)

Spreading Excellence and Widening Participation (~1900 M€)

Science with and for Society (~1600 M€)

Joint Research Centre (JRC)



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PILAR I

EUROPEAN RESEARCH COUNCIL



ERC Grants: what are they?

- ✓ Tailored for the researcher: his | her career, his | her idea
- ✓ Excellence is the sole criterion for evaluation
- ✓ Aimed for:
 - ✓ Interdisciplinary proposals
 - ✓ High-risk /high gain
 - ✓ Ground-breaking proposals





ERC Grants: what are they?

- ✓ One PI, One HI, One ERC project
- ✓ Portability of the Grant
- ✓ PI & his | her team





ERC Grants: what are they?

Starting Grants

2-7 years after PhD)
1,5 M €
for 5 years

Consolidator Grants

(7-12 years after PhD)
2 M €
for 5 years

Advanced Grants

Significant research
achievements (last 10 Y)
2,5 M €
for 5 years

Synergy Grants (SyG)

research achievements
10 M €
For 6 years



ERC Grants: who can apply?

✓ PI eligibility

- ✓ The PI may be of any age and nationality
- ✓ For Starting & Consolidator, there is an eligibility window based on your PhD

✓ Hosting Institution eligibility

- ✓ public or private research organization
- ✓ located in one of the EU Member States or Associate Countries





ERC Grants: who can apply?

Starting Grants

2-7 years after PhD)
1,5 M €
for 5 years

✓ Eligibility check

✓ How much time has passed since you got your PhD? – reference is January 1st of the year of the Work Programme.

Consolidator Grants

(7-12 years after PhD)
2 M €
for 5 years

✓ Eligibility Extension

- ✓ Maternity: at least 18 months/child,
- ✓ Paternity: effective number of days
- ✓ National service, clinical training, long-term illness



ERC Grants: who can apply?

Starting Grants

2-7 years after PhD)
1,5 M €
for 5 years

Consolidator Grants

(7-12 years after PhD)
2 M €
for 5 years

Eligibility for MDs

- ✓ A medical degree will not be accepted by itself as equivalent to a PhD award.
- ✓ To be eligible, MDs need:
 - ✓ MD and a PhD degree OR
 - ✓ MD degree and proof of an appointment that requires doctoral equivalency (e.g. professorship appointment) + information on their research experience



ERC Grants: who can apply?

Starting Grants

2-7 years after PhD)
1,5 M €
for 5 years

Consolidator Grants

(7-12 years after PhD)
2 M €
for 5 years

Eligibility windows for MDs

- ✓ MD and a PhD degree – date of the earliest degree is what counts
- ✓ MD degree + appointment with doctoral equivalence - date of the medical doctor degree completion plus two years (i.e. 4 - 9 for Starters, and over 9 - 14 years for Consolidators).



ERC Grants: who can apply?

Starting Grants

2-7 years after PhD)
1,5 M €
for 5 years

✓ PI profile

- ✓ 'potential for research independence;
- ✓ a promising track record

✓ A StG PI is expected to

- ✓ 50% working time to ERC and 50% of working time in EU or Associated Country

Track record: **Up to 5 publications** in major international peer-reviewed multi-disciplinary scientific journals **and/or** in the leading international peer-reviewed journals, peer-reviewed conferences proceedings **and/or** monographs)"



ERC Grants: who can apply?

Consolidator Grants

(7-12 years after PhD)
2 M €
for 5 years

- ✓ PI profile
 - ✓ 'shown research independence
 - ✓ a promising track record
- ✓ A CoG PI is expected to
 - ✓ 50% working time to ERC and 50% of working time in EU or Associated Country

Track record: **Up to 10 publications** in major international peer-reviewed multi-disciplinary scientific journals **and/or** in the leading international peer-reviewed journals, peer-reviewed conferences proceedings **and/or** monographs)"



ERC Grants: who can apply?

Advanced Grants

Significant research achievements (last 10 Y)
2,5 M €
for 5 years

- ✓ PI profile
 - ✓ ‘active researchers with a significant research achievements in the last 10 years
 - ✓ Track record of an exceptional leader
- ✓ A AdG PI is expected to
 - ✓ 50% working time to ERC and 50% of working time in EU or Associated Country

Track record: **Up to 10 publications** in major international peer-reviewed multi-disciplinary scientific journals **and/or** in the leading international peer-reviewed journals, peer-reviewed conferences proceedings **and/or** monographs)”



ERC Grants: who can apply?

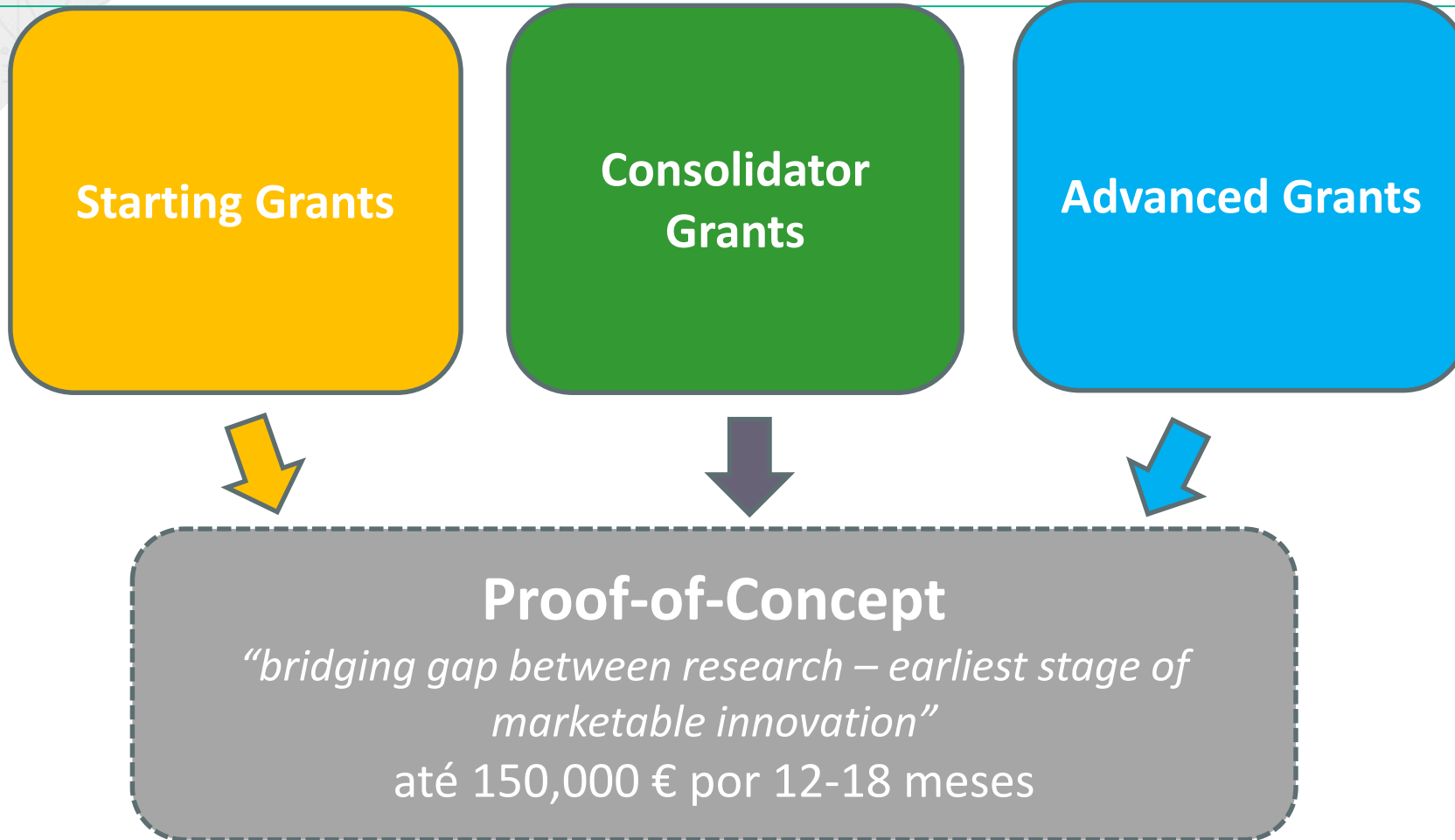
**Synergy Grants
(SyG)**
research
achievements
10 M €
For 6 years

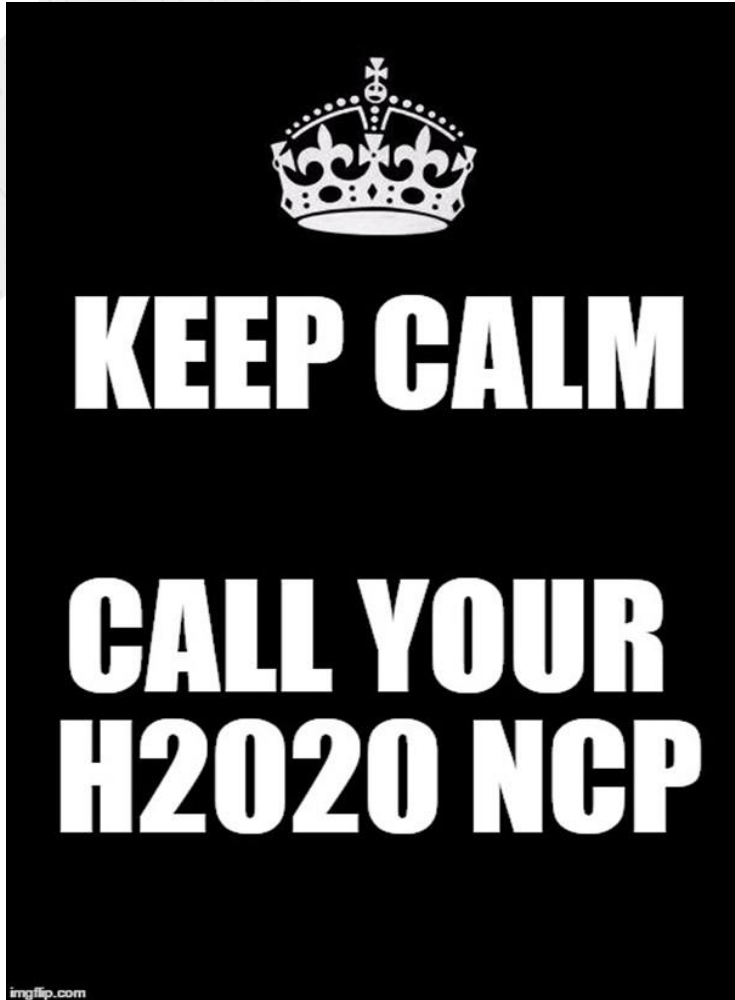
- ✓ 2-4 PI
 - ✓ 'group of innovative and active PI with competitive track records as appropriate to their career stage
- ✓ SyG Team is not expected to change
- ✓ PIs are expected to
 - ✓ 30% working time to ERC and 50% of working time in EU or Associated Country

**Since 2019, one PI can
be in a HI in a third
country**



ERC Grants: what are they?





ERC
Sociedades
SWAF S



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ERC | Marie Skłodowska-Curie
Sociedades | Widening
SWAF S



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On maternity leave at the
moment

[Website GPPQ](http://www.gppq.pt)

PERIN - doubling the Portuguese Presence in European Programs



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PILAR I

MARIE SKŁODOWSKA-CURIE ACTIONS



MARIE SKŁODOWSKA-CURIE ACTIONS – WHAT ARE THEY?



- ✓ Based on mobility (international, intersectorial, interdisciplinary)
- ✓ all scientific domains
- ✓ Strong accent on participation of industry, SMEs and non-academia overall
- ✓ Level of involvement is proportional to the participant's needs
- ✓ Totally aligned with the objectives of H2020 (e.g. HR Charter&Code, RRI)



MARIE SKŁODOWSKA-CURIE ACTIONS – WHAT DO THEY FUND?



Human resources for research and innovation

- ✓ **UNIT COSTS (per person*month)**
- ✓ **Organisational costs**

Research, networking and training costs

Management and indirect costs

- ✓ **Costs of researchers/seconded staff**

Living allowance or Top-up allowance

Mobility allowance

Family allowance



MARIE SKŁODOWSKA-CURIE ACTIONS – FOR NETWORKS

RISE – Research and Innovation Staff Exchange

A joint research and innovation project is implemented by the exchange of individual staff for 1-12 months (**research, managerial or technical staff**)

Min. 3 entities of different countries (inc 3rd countries) and sectores (academic + non-acad.)

ITN – Innovative Training Networks (**Doctoral Programs**)

European Training Networks
European Industrial Doctorates
European Joint Doctorates

Early-stage researchers (Ph.D. students) are hired to work in different institutions but network and receive training together



MARIE SKŁODOWSKA-CURIE ACTIONS – FOR MSCA FOR INSTITUTIONS AND/OR INDIVIDUALS

IF – Individual Fellowships

Proposals are submitted by a researcher in liaison with a host for full-time research activities and career development.

Successful proposals receive up to 2 years' support (additional 1-year return phase in GF, for hosts in 3rd countries).

COFUND

Fellowship Programs

Na institution that finances or manages a doctoral or post-doctoral programme gets app. 50% of the costs financed by the EC



MARIE SKŁODOWSKA-CURIE ACTIONS – DEADLINES

ITN - Doctoral Programmes		12/09/2018 – 14/01/2019	EUR 530,1 million EID: 35 million EJD: 35 million
RISE – staff exchange		5/12/2019 – 28/04/2020	EUR 80 million
IF Indiv. Fellowships		11/04/2019 – 11/09/2019	EUR 295,1 million SE 8 million GF 50 million +WF 10 million
COFUND NIGHT		4/04/2019 – 26/09/2019 12/09/2018 – 14/01/2019	EUR 100 million EUR 8 million

MSCA Special Needs Allowance: EUR 1 million in 2019 and in 2020 (upon invitation)



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TECNOLOGIAS FUTURAS E EMERGENTES

(FET)

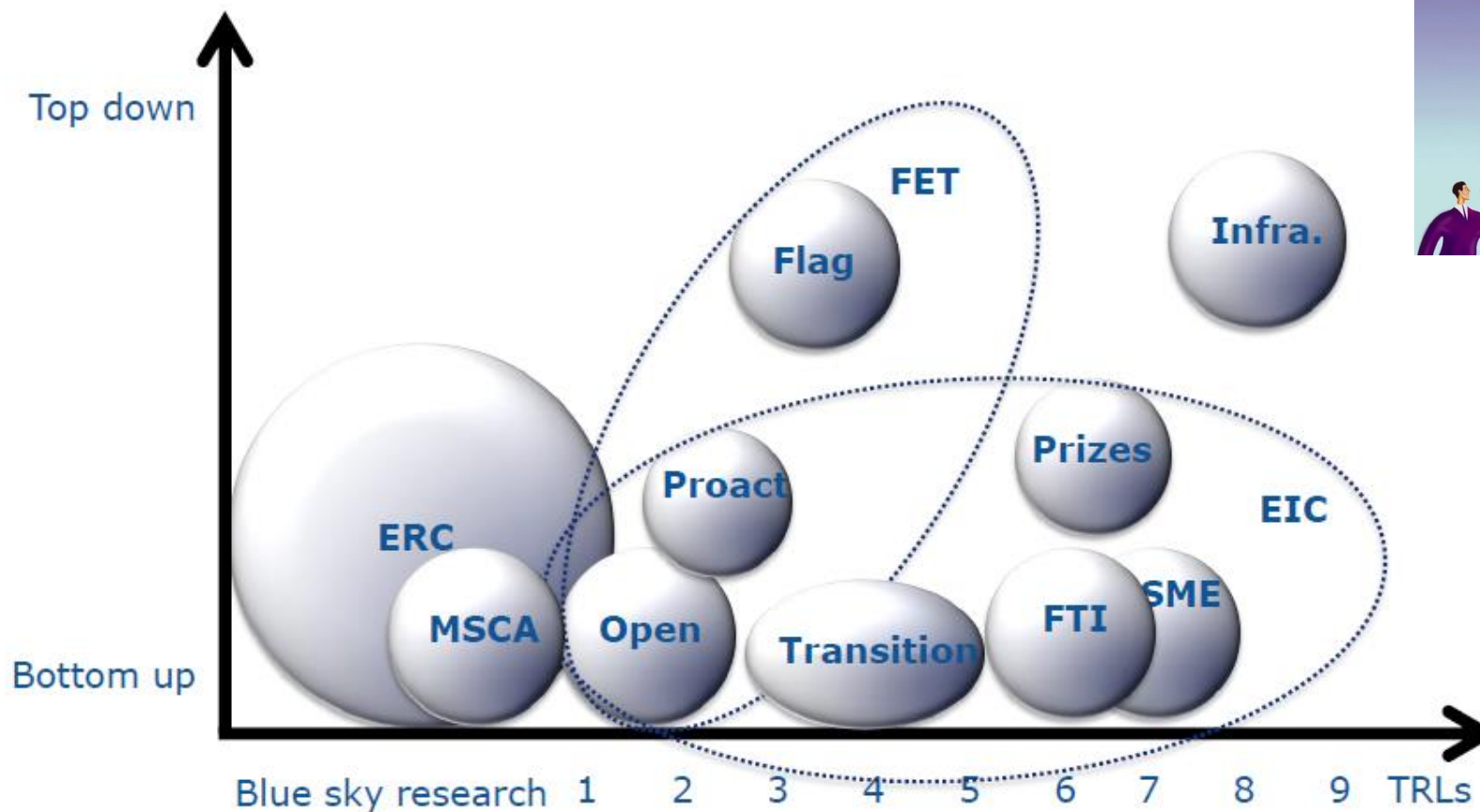
Let's try something new?





EUROPEAN INNOVATION COUNCIL PILOT (EIC)

EIC cobre toda a cadeia de inovação!





LINHAS DE ATIVIDADE DAS FET

Atividades FET

- Terreno fértil para colaborações multidisciplinares nas FET
- Novos **ecossistemas europeus de I&D**
- Sementes para a liderança industrial de futuro e enfrentar os desafios sociais
- Concentre-se na investigação **para além** do que é atualmente conhecido

Aberto, leve e ágil



Investigação baseada em roteiros

FET-Open

Early Ideas

40% do orçamento do H2020

**Explorar
ideias novas**

FET Proactive

*Exploration and
Incubation*

**Desenvolver tópicos e
comunidades**

FET Flagships

*Large-Scale
Partnering
Initiatives*

**Enfrentar
grandes desafios**

FETOPEN

Deafie o pensamento atual e as correntes de I&D...

FETOPEN

Go far beyond what is
considered a standard
technology



Challenge current paradigms and venture into the unknown.

From new
knowledge...

...to new
technologies



FET-OPEN CHALLENGING CURRENT THINKING – CALL CONDITIONS

- Deadline: 18.09.2019; 13.05.2020
- Projetos Colaborativos até 3M€
- TRL 1-3/4 (RIA, 100%)
- Proposta 1+15 páginas



FET Innovation Launchpad

Procure explorar o que foi desenvolvido pelos seus pares!



FET INNOVATION LAUNCHPAD

100 k€/ projeto

Orçamento 2019:
2,7 M€

Próximos cut offs:
08.10.2019
14.10.2020



+ Transformar resultados de Projetos FET em
inovação societal ou económica

Atividades propostas

Processos de comercialização, análise de Mercado e de competitividade, análise da tecnologia, verificação do potencial de inovação, consolição de PI, desenvolvimento do estudo caso de negócio, etc.

FET PROACTIVE

Quer construir a sua comunidade?

Sozinho vai mais depressa mas em conjunto irá mais longe...



FET PROACTIVE: EMERGING PARADIGMS AND COMMUNITIES

Objetivo

Projetos inovadores de investigação e inovação de alto risco/alto retorno que visam demonstrar um novo paradigma tecnológico

FETProact-EIC-05-2019

- a) Human-Centric AI
- b) Implantable autonomous devices and materials
- c) Breakthrough zero-emissions energy generation for full decarbonisation

Orçamento: 52 M€
Deadline: 03.09.2019
RIA

FETProact-EIC-07-2020

- a) Future technologies for social experience
- b) Measuring the unmeasurable — Sub-nanoscale science for Nanometrology
- c) Digital twins for the life-sciences

Orçamento: 50 M€
Deadline: 22.04.2020
RIA



FET FLAGSHIPS

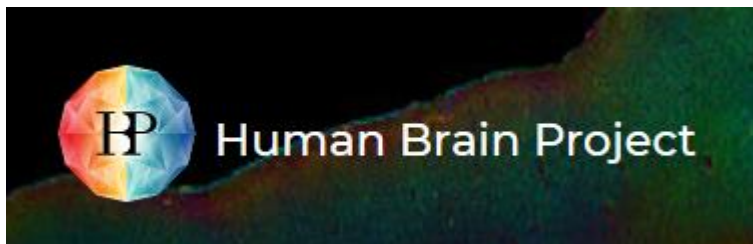
Será possível enfrentar os grandes desafios?



FET FLAGSHIPS



GRAPHENE FLAGSHIP



QUANTUM FLAGSHIP



- + FETFLAG-06-2020: **International Cooperation on Quantum Technologies** (CSA; 0,50 M€; 13.11.2019)
- FETFLAG-07-2020: **Training and Education on Quantum Technologies** (CSA; 0,30 M€; 13.11.2019)

Áreas estratégicas Europeias | Abrem concursos para a submissão de propostas | Excelentes *para networking*

ERA-NETs de Apoio



FLAG-ERA



QUANTERA

Participe! O networking é o mais importante!

Próximos Eventos



Bucareste | 13-14.06





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Curioso? Agendamos conversa?

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93 929 09 20

H2020 National representative & National Contact Point

ICT | FET & BOF FET FLAGSHIPS | EuroHPC | NMBP | RFCS | Legal & Financial Aspects

Information and communications technology (ICT) | Future and Emerging Technologies (FET) | GB European High-Performance Computing JU (EuroHPC) | Nanotechnologies, Advanced Materials and Manufacturing and Processing (NMP)