



# HORIZON 2020

JOINT INNOVATION CENTRE  
OF BAS

April 04, 2014





## H2020 GENERAL (1/2)

- Horizon 2020 is a financial instrument to address the key EU challenge and goal – to stabilise the financial and economic system in the short term while taking measures to create the economic opportunities of tomorrow.
- H2020 is the biggest EU Research and Innovation programme with nearly €80 billion of funding in 7 years (2014 to 2020)





## H2020 GENERAL (2/2)

- Horizon 2020 aims at securing Europe's global competitiveness and well-being through:
  - means to drive economic growth and create jobs
  - smart, sustainable and inclusive growth
- Horizon 2020 is open to everyone – institutes, universities and companies in all EU countries and beyond





# Research is an Investment in our Future

H2020, an integrated programme:

- coupling research to innovation
- removes barriers to innovation
- makes it easier for the public and private sectors to work together in delivering innovation
- ensures simplified administrative procedures





# SCOPE

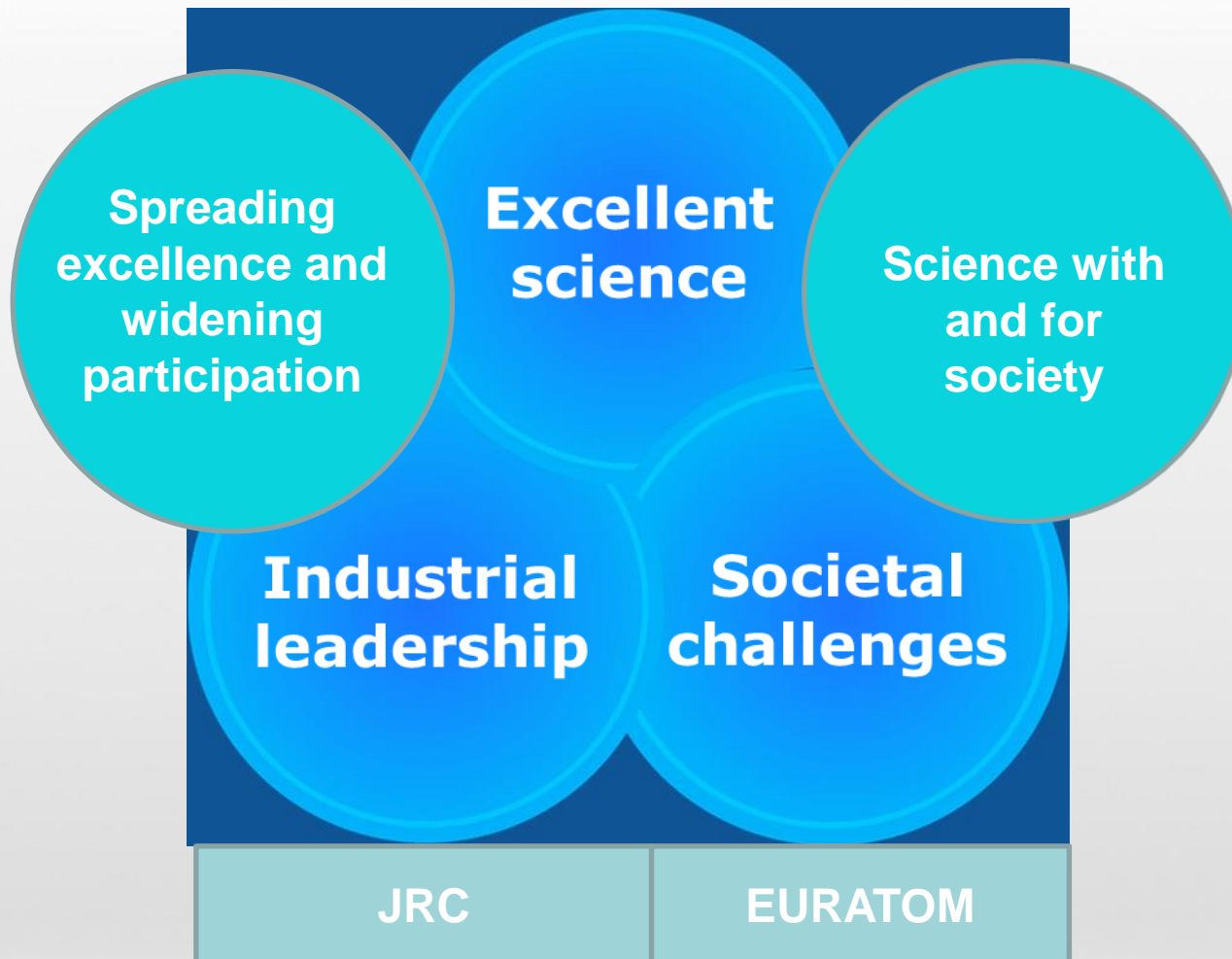
H2020 – the new financial instrument bringing together three separate programmes / initiatives

- The 7th Research Framework Programme (FP7)
- Innovation aspects of Competitiveness and Innovation Framework Programme (CIP)
- EU contribution to the European Institute of Innovation and Technology (EIT)





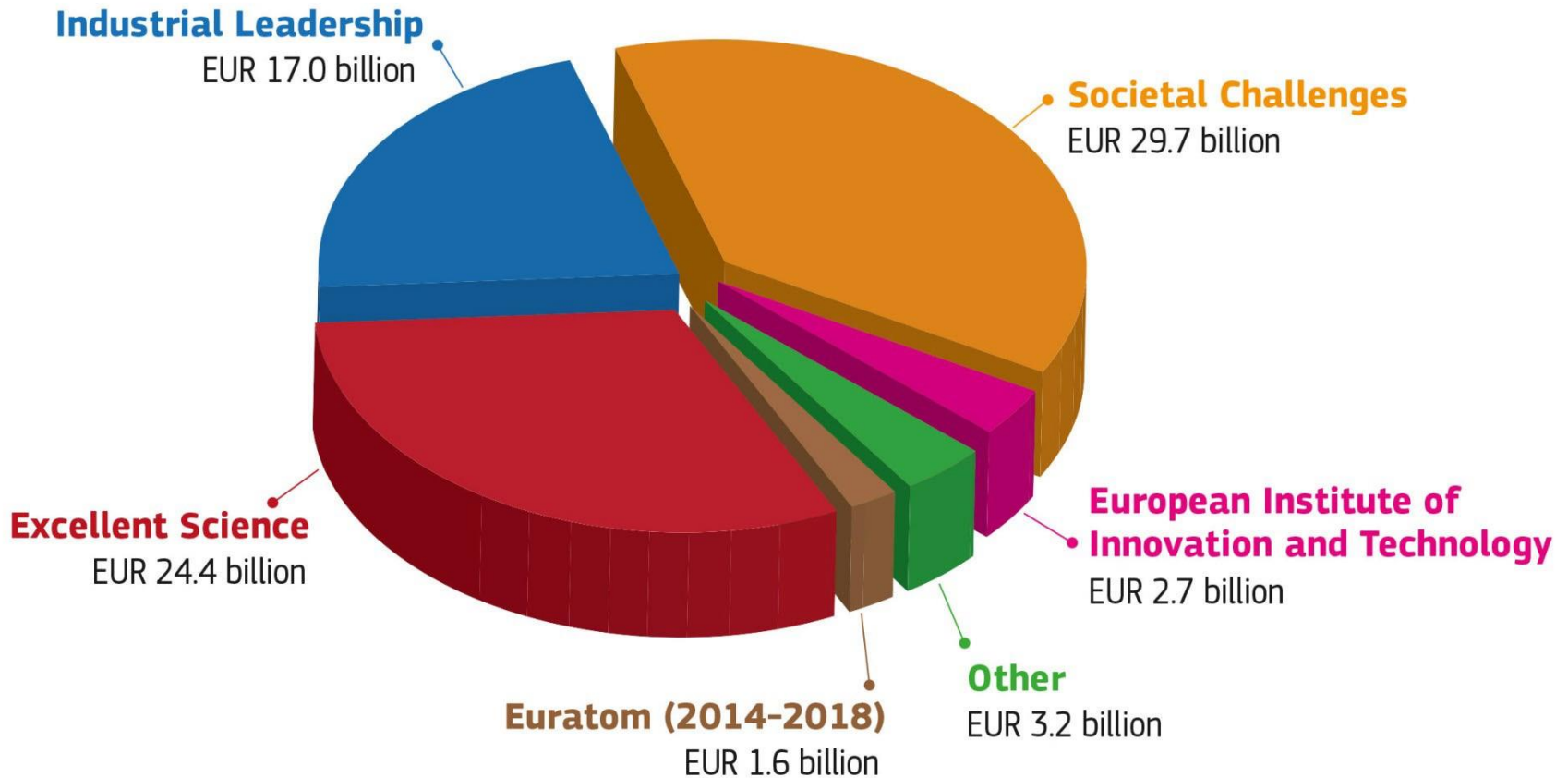
Horizon 2020 emphasizes on three pillars (priorities) supported by two specific objectives





# € 79 billion from 2014 to 2020

## HORIZON 2020 BUDGET (in current prices)





## Priority 1. Excellent Science – €24.4 B

Meeting a critical need to reinforce, widen and extend the excellence of the Union's science base and to ensure a supply of world-class research and talent to secure Europe's long term competitiveness and well-being.

### Focus areas:

- **European Research Council**
- **Future and Emerging Technologies (FET)**
- **Marie Skłodowska-Curie actions**
- **Research infrastructures**







## Priority 2. Industrial Leadership – €17.0 B

Maintaining and increasing the Union's industrial leadership through stimulating the private sector R&D and innovation investment, promoting research and innovation with a business driven agenda and accelerating the development of new technologies

### Focus areas:

- **Leadership in enabling and industrial technologies (LEIT)**
- **Access to risk finance**
- **Innovation in SMEs**





## Priority 3. Societal Challenges (1/2) – €29.7

### B

Increase the effectiveness of research and innovation in responding to key societal challenges. Those activities should be implemented using a challenge-based approach which brings together resources and knowledge across different fields, technologies and disciplines.

#### Focus areas:

- Health, demographic change and well-being
- Food security, sustainable agriculture and forestry, marine and maritime and inland water research
- Secure, clean and efficient energy
- Smart, green and integrated transport





## Priority 3. Societal Challenges (2/2) – €29.7

B

### Focus areas:

- Climate action, environment, resource efficiency and raw materials
- Europe in a changing world - inclusive, innovative and reflective Societies
- Secure societies - Protecting freedom and security of Europe and its citizens





Specific objective. Spreading excellence and widening participation (1/2) €816 M

Exploiting the potential of Europe's talent pool and ensuring that the benefits of an innovation-led economy are both maximised and widely distributed across the Union in accordance with the principle of excellence.





## Specific objective. Spreading excellence and widening participation (2/2) €816 M

### Focus areas:

- Teaming of excellent research institutions and low performing RDI regions
- Twinning of research institutions
- ERA chairs
- Policy Support Facility (PSF)
- Supporting access to international networks for excellent researchers and innovators who lack sufficient involvement in European and international networks
- Strengthening the administrative and operational capacity of transnational networks of National Contact Points





## Specific objective. Science with and for society (1/3) €462 M

Building effective cooperation between science and society, foster the recruitment of new talent for science, and pair scientific excellence with social awareness and responsibility.





## Specific objective. Science with and for society (2/3) €462 M

### Focus areas:

- Make scientific and technological careers attractive and foster sustainable interaction stakeholders
- Promote gender equality
- Integrate society in science and innovation issues, policies and activities
- Encourage citizens to engage in science and promote the diffusion of science-based activities





## Specific objective. Science with and for society (3/3) €462 M

- Develop the accessibility and the use of the results of publicly-funded research
- Develop the governance for the advancement of responsible research and innovation by all stakeholders
- Take due and proportional precautions in research and innovation activities - potential environmental, health and safety impacts
- Improve knowledge on science communication (scientists, general media and the public)







## Non-nuclear direct actions of the Joint Research Centre (JRC) – €1.9 B

The JRC should continue to provide independent customer-driven scientific and technical support for the formulation, development, implementation and monitoring of Union policies.

### Focus areas:

- Smart, inclusive and sustainable growth,
- Security and citizenship
- Global Europe





## Ново

- Една нова програма, обхващаща три различни предходни инициативи/програми\*;
- Изразен фокус върху иновации – от изследванията до крайния пазар за всички форми на иновации.
- Фокус на социалните предизвикателства в ЕС, например здраве, чиста енергия и транспорт;
- Опростен достъп за всички фирми, университети, изследователски организации във всички държави-членки и извън тях.

*\*Седма рамкова програма (FP7), иновационната част от Competitiveness and Innovation Framework Programme (CIP), Европейския институт за иновации и технологии (EIT)*

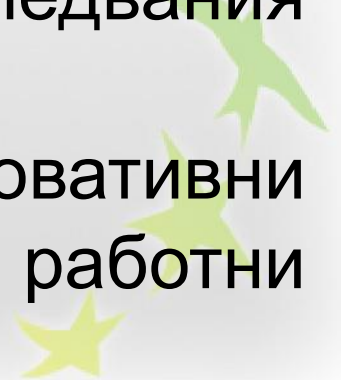




## Х2020 - Приоритет 2, Бизнес (1)

### **Приоритет 2. Водещи позиции в промишлеността**

- Стратегически инвестиции в ключови технологии (напредничави производства, микроелектроника); внедряване на иновации в съществуващи и възникващи сектори.
- Европа се нуждае от привличането на повече частни инвестиции в изследвания и иновации.
- Европа има нужда от повече иновативни МСП за по-голям растеж и нови работни места.





## X2020 - Приоритет 2, Бизнес (1/1)

**Област на въздействие 1: Водещи позиции при базовите промишлени технологии (LEIT)**

Инвестиции във висококачествени научни изследвания и демонстрационни дейности и иновации в следните базови и промишлени технологии:

- Информационни и комуникационни технологии („ИКТ“).
- Нови материали.
- Биотехнологии.
- Нови производства и обработки.





## X2020 - Приоритет 2, Бизнес (1/1)

**Област на въздействие 1: Водещи позиции при базовите промишлените технологии (LEIT)**

• **Отворени процедури за кандидатстване:**

SMEs + providers of ICT innovative solutions

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/89-ict-18-2014.html>

Post-lithium ion batteries for electric automotive applications

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2528-nmp-17-2014.html>

Materials solutions for use in the creative industry sector (SMEs with R&D capacities)

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2513-nmp-18-2014.html>



## Х2020 - Приоритет 2, Бизнес (1/3)

### **Област на въздействие 2: Достъп до рисково финансиране**

Подобряване на достъпа до рисково финансиране за инвестиции в научни изследвания и иновации чрез:

- финансови инструменти;
- заеми;
- гаранции;
- дялово финансиране





## Х2020 - Приоритет 2, Бизнес (2/3)

### **Област на въздействие 2: Достъп до рисковото финансиране**

- Услуга за заеми за изследвания и иновации (R&I).
- Подобряване на достъпа до рисковото финансиране за R&I проекти на големи и средно големи фирми, университети и изследователски институти; R&I инфраструктура; ПЧП; и специални проекти, включително за уникални нови технологии и проекти за комерсиализация и демонстрационни производствени технологии.
- **Легитимни фирми:** всички от ЕС и асоциираните страни.



## Х2020 - Приоритет 2, Бизнес (3/3)

**Област на въздействие 2: Достъп до рисковото финансиране, дялов инструмент за R&I:**

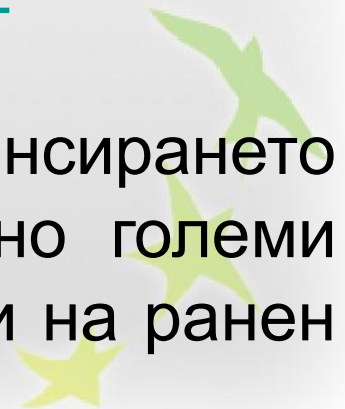
- Boosting the Investment-Readiness of SMEs and Small Midcaps

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2070-bir-1-2014.html>

- Capacity-Building in Technology transfer

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2071-cbtt-1-2014.html>

- Предназначен за подобряване на финансирането на нови R&I-ориентирани МСП и средно големи фирми, чрез рискови фондове за проекти на ранен етап.





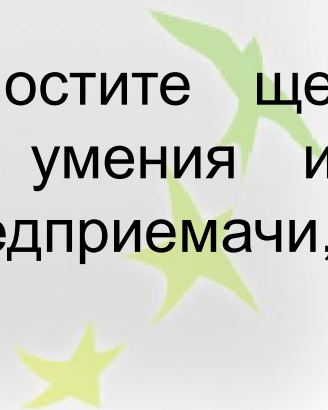


## Х2020 - Приоритет 2, Бизнес (3/3)

**Област на въздействие 2: Достъп до рисковото финансиране**, дялов инструмент за R&I

**COSME** — Програмата за конкурентоспособност на предприятията и за МСП:

- Подобряване на достъпа до финансиране за МСП под формата на капиталови и дългови инструменти.
- Подобряване на достъпа до пазарите в рамките на Съюза и в световен мащаб: чрез Европейската мрежа на предприятията („Enterprise Europe Network“) ще се предоставят услуги в подкрепа на бизнеса, ориентиран към растеж.
- Подпомагане на предприемачеството: Дейностите ще включват развитието на предприемачески умения и нагласи, особено сред начинаещите предприемачи, младите хора и жените.

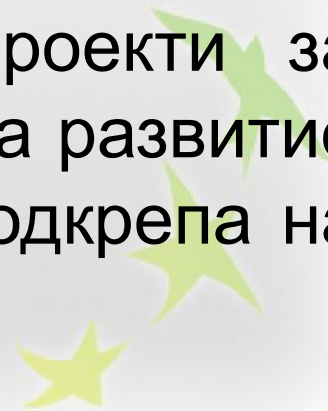




## Х2020 - Приоритет 2, Бизнес (1/6)

### **Област на въздействие 3: Иновациите в МСП**

- Хоризонт 2020 ще е от основните инструменти оказващ директна подкрепа за изграждане на благоприятна среда за растеж на МСП.
- „Иновации в МСП“, представлява „специфичен за МСП инструмент“, с разпределен бюджет за участие в Социални предизвикателства, Лидерство в движещи и индустриални технологии, EUREKA/Eurostars транснационални проекти за иновативни МСП и различни дейности за развитие и предоставяне на по-добри услуги в подкрепа на иновациите в МСП.





## Х2020 - Приоритет 2, Бизнес (2/6)

### **Област на въздействие 3: Иновациите в МСП**

- Допустимост: Само едно МСП със стопанска цел или консорциум от малки и средни предприятия със стопанска цел могат да кандидатстват за финансиране по инструмента за МСП. Други партньори, като НИО или по-големи компании могат да бъдат включени като трети страни или като подизпълнители;
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-smeinst-1-2014.html>
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-smeinst-2-2014.html>



## Х2020 - Приоритет 2, Бизнес (3/6)

### **Област на въздействие 3: Иновациите в МСП**

- Отворени процедури за кандидатстване, ФАЗА 1:

Stimulating the innovation potential of SMEs for a low carbon energy system - SIE-01-2014-1

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2543-sie-01-2014-1.html>

Clinical research for the validation of biomarkers and/or diagnostic medical devices - PHC-12-2014-1, 100 % финансиране

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2540-phc-12-2014-1.html>



## Х2020 - Приоритет 2, Бизнес (4/6)

### **Област на въздействие 3: Иновациите в МСП**

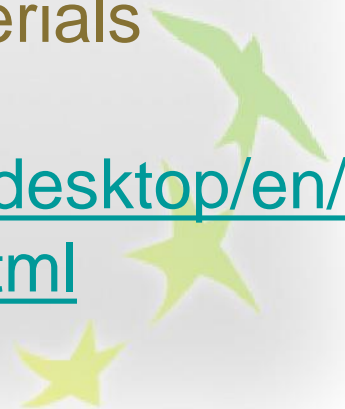
- Отворени процедури за кандидатстване, ФАЗА 2:

Topic: Open Disruptive Innovation Scheme (implemented through the SME instrument) - ICT-37-2014

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2589-ict-37-2014.html>

Topic: Boosting the potential of small businesses for eco-innovation and a sustainable supply of raw materials  
SC5-20-2014

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2585-sc5-20-2014.html>

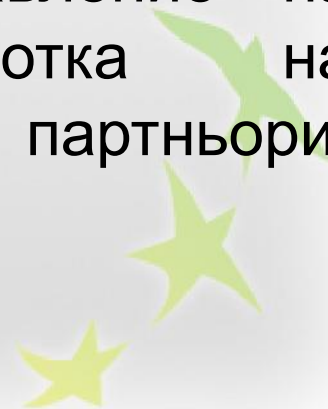




## Х2020 - Приоритет 2, Бизнес (5/6)

### **Област на въздействие 3: Иновациите в МСП ФАЗА 1**

- Предпроектно проучване на технологичната, практическа и икономическа приложимост на иновативната идея / концепция, представляваща значителна новост за съответния сектор (нов продукт, процес, дизайн, услуга, технология, ново пазарно приложение на съществуваща технология).
- Дейностите могат да включват оценка на риска, пазарно проучване, привличане на клиенти, управление на интелектуалната собственост, разработка на иновационна стратегия, търсене на партньори, осъществимост на концепцията.
- Вид финансиране Lump Sum: 50.000 EUR
- Продължителност: 6 месеца



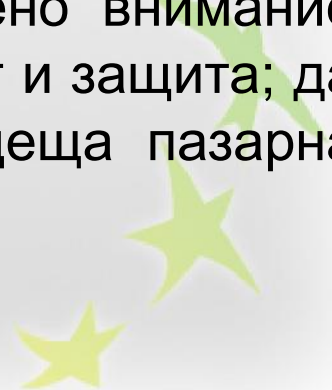


## Х2020 - Приоритет 2, Бизнес (6/6)

### **Област на въздействие 3: Иновациите в МСП**

#### **ФАЗА 2**

- Подкрепа на иновативни проекти, които отговарят насочеността на Х2020 и които демонстрират висок потенциал, подкрепени със стратегически бизнес план.
- Дейностите трябва да са фокусирани върху иновативни аспекти като: демонстрация, тестване, прототипи, пилотни проекти и мащабиране, дизайн, пускане на пазара и други дейности за индустриална готовност и комерсиализация на иновативната идея, като могат да включват и елемент на научни изследвания.
- Предложенията трябва да се основават на бизнес план, разработен предварително или във фаза 1. Особено внимание трябва да се обърне на интелектуалната собственост и защита; да се предоставят убедителни мерки за успешна бъдеща пазарна реализация.
- Бюджет: 0,5 – 2,5 млн. EUR
- Продължителност: 12-24 месеца





## H2020 WP 2014-2015

- The “specific programme” H2020 will be carried out through annual work programmes
- H2020 Work Programme 2014-2015







## H2020 WP 2014-2015 Useful Info (1)

- Portal of HORIZON 2020:  
<http://ec.europa.eu/programmes/horizon2020/>
- How to get funding?:  
<http://ec.europa.eu/programmes/horizon2020/en/how-get-funding>
- Participant portal?:  
<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>
- How to participate?:  
<http://ec.europa.eu/research/participants/portal/desktop/en/funding/index.html>
- H2020 Online Manual (registration, user account, find partners)  
[http://ec.europa.eu/research/participants/docs/h2020-funding-guide/index\\_en.htm](http://ec.europa.eu/research/participants/docs/h2020-funding-guide/index_en.htm)
- Reference Documents / General Introduction 2014-2015:  
[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014\\_2015/main/h2020-wp1415-intro\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-intro_en.pdf)



## H2020 WP 2014-2015 Useful Info (2)

- General annexes (You can see it also as a part of every call):  
[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014\\_2015/annexes/h2020-wp1415-annex-ga\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/annexes/h2020-wp1415-annex-ga_en.pdf)
- Reference Documents / Main WP, Focus areas:  
[http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference\\_docs.html#h2020-work-programmes-2014-15-main-wp](http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.html#h2020-work-programmes-2014-15-main-wp)
- Proposal templates for Research and Innovation Actions (RIA) and Innovation Actions (IA):  
[http://ec.europa.eu/research/participants/data/ref/h2020/call\\_ptef/pt/h2020-call-pt-ria-ia\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/call_ptef/pt/h2020-call-pt-ria-ia_en.pdf)
- Example of administrative forms and template for Coordination and Support Actions (CSA):  
[http://ec.europa.eu/research/participants/data/ref/h2020/call\\_ptef/pt/h2020-call-pt-ria-ia-csa\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/call_ptef/pt/h2020-call-pt-ria-ia-csa_en.pdf)





## H2020 WP 2014-2015 Useful info (3)

- H2020 RULES FOR PARTICIPATION:  
[http://ec.europa.eu/research/participants/data/ref/h2020/legal\\_basis/rules\\_participation/h2020-rules-participation\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/legal_basis/rules_participation/h2020-rules-participation_en.pdf)
- Horizon 2020 Helpdesk  
[http://ec.europa.eu/research/participants/portal/desktop/en/support/research\\_enquiry\\_service.html](http://ec.europa.eu/research/participants/portal/desktop/en/support/research_enquiry_service.html)
- Research Enquiry Service  
<http://ec.europa.eu/research/index.cfm?pg=enquiries>
- H2020 WP 2014 – 2015 Open calls:  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>
- The full list of H2020 WP 2014 - 2015 Calls  
[http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/master\\_calls.html](http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/master_calls.html)





## H2020 WP 2014-2015 Useful Info (4)

- Self-evaluation forms: Form 1: Research and innovation actions; Innovation actions; SME instrument Form 2: Coordination & support actions:

[http://ec.europa.eu/research/participants/data/ref/h2020/call\\_ptef/ef/h2020-call-ef-ria-ia-csa\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/call_ptef/ef/h2020-call-ef-ria-ia-csa_en.pdf)





# SIMPLIFICATION (1)

- Participant Portal = one stop-shop
- One funding rate (70% for profit orgs)
- One overhead rate
- VAT eligible for those who cannot re-claim
- Interest on advance payment not to be reported





## SIMPLIFICATION (2)

- Participant Portal: communication channel; management tool
- Electronic signatures (vs Signatures)
- More simplification and unification – REA
- Partners may contact the EC directly (vs Communication through coordinator)
- No time-sheets for personnel working full time on a grant





# EVALUATION CRITERIA

- **(1) Excellence** - Scientific and / or technological excellence
- **(2) Impact** - Potential impact through development, dissemination and use of project results
- **(3) Implementation** - Quality and efficiency of the implementation and the management





# CONTACTS



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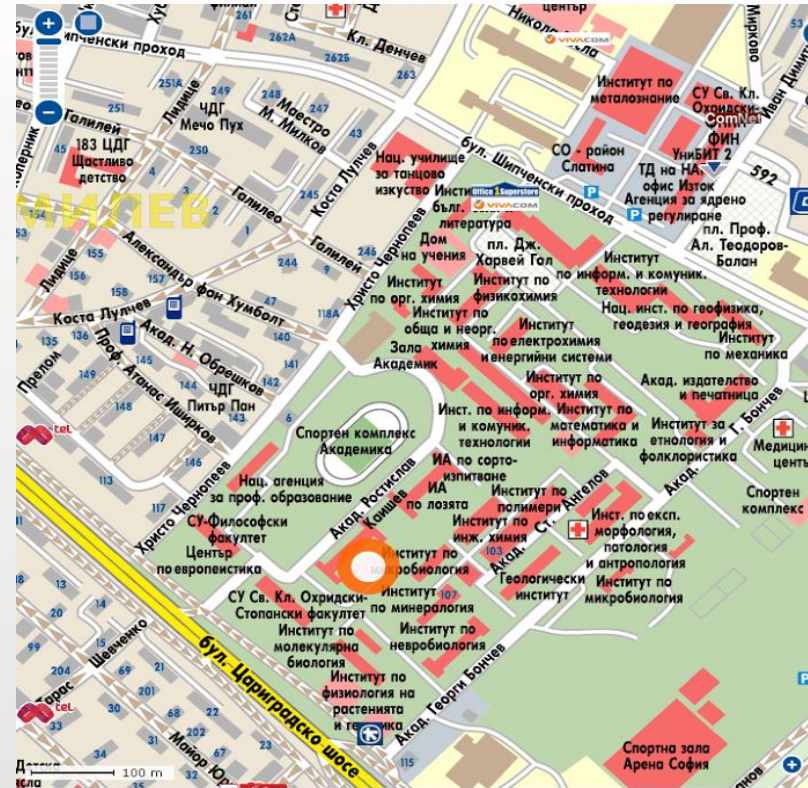
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В подкрепа на бизнеса

