



Fundação para a Ciência e a Tecnologia

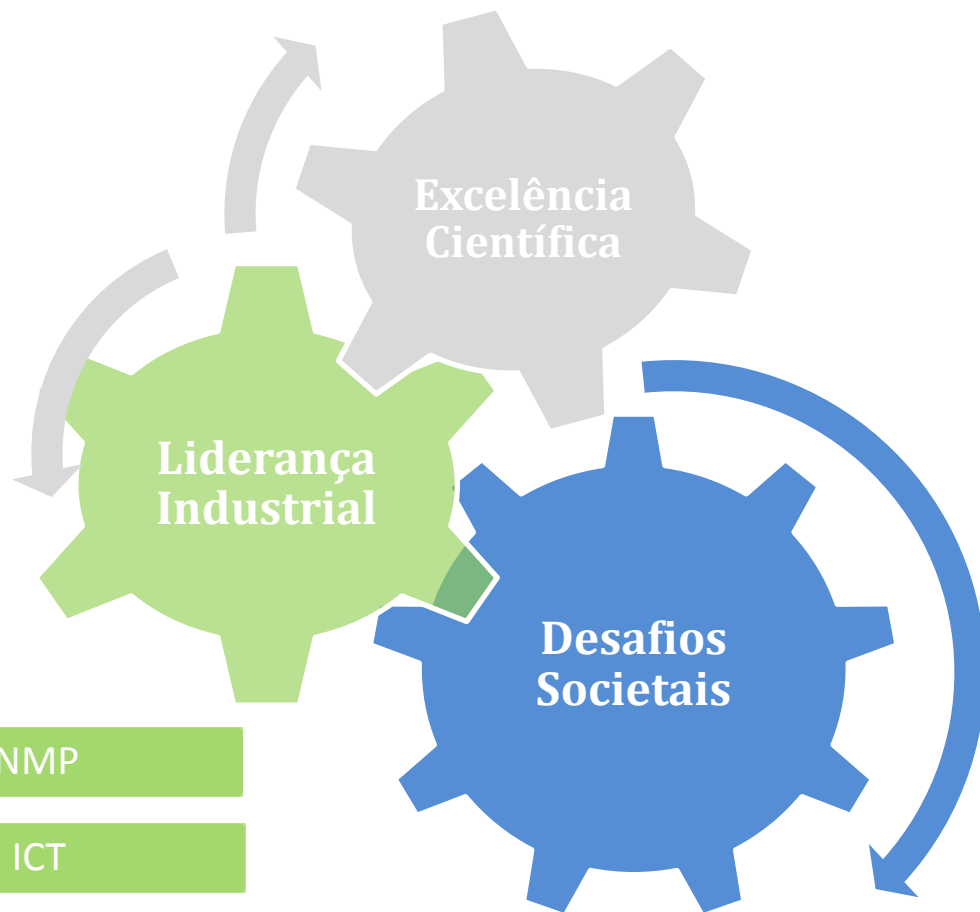
MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA

# **Oportunidades de financiamento nas áreas de energia e transportes nos concursos 2015 do H2020**

**Ana Raposo (ana.raposo@fct.pt)**

**15 de Setembro de 2014**

# Oportunidades no Desafio Societal 3 e no Desafio Societal 4



Saúde

Bioeconomia

**ENERGIA**

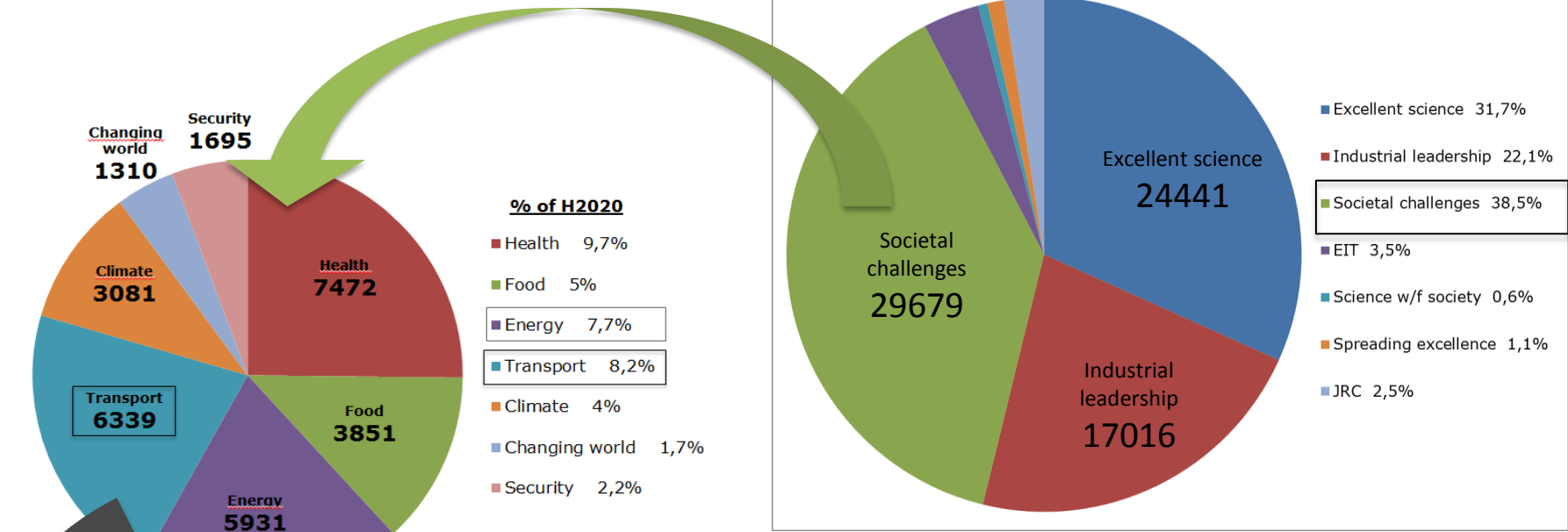
**TRANSPORTES**

Ação climática

Sociedades inclusivas

Sociedades seguras

# Orçamento Horizonte 2020 – 77 028 M€

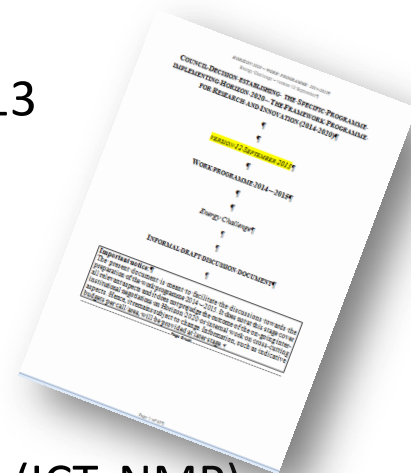


- **Concursos em colaboração**
- **Innovation investment package**
  - Clean Sky
  - SESAR
  - Fuel Cells & Hydrogen (contribution)
  - Shift2Rail

## Horizonte 2020 - Programa de Trabalhos – Informação Geral

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- **Data de lançamento dos concursos** : 11 de Dezembro de 2013
- Programa de Trabalhos **Bianual** (2014 /2015)
- Baseado num abordagem **integrada e por desafios**
- Abordagem Transversal com outros partes do Horizonte 2020 (ICT, NMP)
- Projetos em colaboração (min. 3 entidades de 3 Estados Membros ou Países associados)
- **Avaliação das Calls** – single-stage & two stage evaluations



## *Horizonte 2020 – abordagem baseada em desafios*

- A abordagem aos Desafios Societais deve basear-se em **consórcios multidisciplinares** que agreguem **diferentes atores numa abordagem holística e integradora**, para dar solução a um problema identificado pela Comissão Europeia
- *Só é possível submeter uma ideia que esteja enquadrada num tópico aberto a concurso*
- A cooperação entre os vários atores da cadeia de valor potencia o sucesso e o *uptake* dos resultados contribuindo desta forma para um **maior impacto científico, económico, e social**



**Networking!**



## Programa de Trabalhos – Estrutura dos Tópicos

### Specific Challenge:

Estabelece o contexto, os problemas a resolver, a necessidade da intervenção

### Scope:

Delineação do problema, especificação do enfoque e das fronteiras da ação, mas sem detalhe sobre as possíveis abordagens

### Expected impact:

Descrição dos elementos-chave a alcançar no desafio em questão

Referência do tópico e ano de financiamento

**BG 6 - 2014:** Delivering the sub-sea technologies for new services at sea

### Specific challenge

The development of a new maritime economy necessitates tackling a range of technical challenges. One such challenge is the ability to remotely execute complex underwater operations ranging from simple observation / data collection and transmission of information to more complex industrial operations. Technologies derived from marine research (Remotely Operated Vehicles - ROVs, Autonomous Underwater Vehicles - AUVs) must be further improved, industrialised, i.e. made more robust, cost-effective, reliable and sophisticated (in terms of operating capabilities) and with increased autonomy. Another challenge is the ability to operate at even higher depths (down to 6,000m), and in extreme conditions (e.g. Arctic regions, with corrosive products, heavy / viscous liquids, high pressure - high temperature systems, etc.). The control of the potential impact on the environment of these activities is also important.

### Scope

Projects should address the innovative design of new underwater vehicles and robots and their main components required to work undersea. If relevant, proposals could go to the stage of demonstrators or prototypes. The areas of interest are the following:

- Remotely Operated Vehicles and Subsea Construction systems,
- Specialised 'Robots' and Autonomous Underwater Vehicles, deployment, recovery and docking systems,
- Subsea 'factory' Machineries.

Where relevant, activities should cover the development of European standards.

The Commission considers that projects requesting a contribution from the EU in the range of EUR XX million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

### Expected impact

• Sustainable and safe offshore operations by European industries in extreme conditions (deep sea areas, Arctic conditions, corrosive products, high pressure and temperature...);

- Increase cost-effectiveness and competitiveness of the existing and new offshore economy (including marine renewable energy);
- Improve the scientific capacity to observe and understand the water column, the deep sea environment and their resources.

### Type of action

Research and innovation action

The conditions related to this topic are provided along with the general conditions for this call. [Link to end of the description of the call]

# ***DS 3 – Secure, clean and efficient energy***



## Programa Especifico do **Desafio Societal Energia** no Horizonte 2020

**OBJECTIVO:** *Evoluir para um sistema energético seguro, sustentável e competitivo, face a recursos cada vez mais escassos, a necessidades energéticas crescentes a às alterações climáticas.*

- **Redução do consumo de energia** e da pegada de carbono mediante uma utilização inteligente e sustentável
- Aprovisionamento de **eletricidade hipocarbónica** e a baixo custo
- **Combustíveis alternativos** e fontes de energia móveis
- Uma **rede europeia** de eletricidade única e inteligente
- Novos conhecimentos e tecnologias
- Processo decisório sólido e envolvimento do público
- Aceitação pelo mercado das inovações e capacitação dos mercados e dos consumidores





# Contexto Político – Estratégias e Iniciativas Europeias de apoio ao desafio Energia no Horizonte 2020

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- *Climate and Energy Package*

- *Strategic Energy Technology Plan (SET-Plan) | Energy technologies and Innovation Communication*

- *Energy Roadmap*

- *European Innovation Partnership (EIP) - Smart Cities and Communities → forte influência na definição de prioridades de I&I no horizonte 2020*

*SC 3 –  
Secure,  
clean and  
Efficiency  
Energy*

# Implementação

## Horizonte 2020 – Programa de Trabalhos Energia 2015

**ENERGY EFFICIENCY – 16 TOPICS**  
Call: *H2020-EE-2015 - 98,15 M€*



**SMART CITIES AND COMMUNITIES – 2 TOPICS**  
Call: *H2020-SCC-2015 – 107,18 M€*



**LOW CARBON ENERGY – 15 TOPICS**  
Call: *H2020-EE-2015 - 382,67 M€*

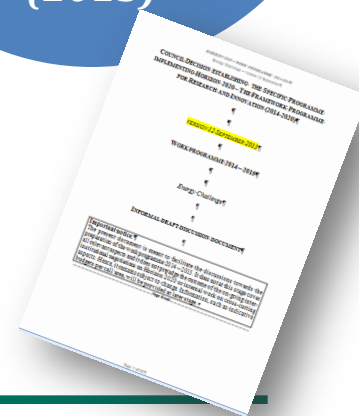


**SMES & FAST TRACK INNOVATION – 2 TÓPICOS**  
Call: *H2020-SIE-2015 - 50,96 M€*



*Work Programme  
2014-2015  
– Secure, clean  
and Efficiency  
Energy*

*638,96 M€  
(2015)*



# Call Energy Efficiency | *deadline: 04/02/2015 /04/06/2015*



**A – BUILDINGS AND CONSUMERS** - reduzir o consumo de energia nos edifícios através de: aumentar taxa, qualidade e eficácia da renovação dos edifícios , comportamento dos consumidores (gestão consumo, smart metering) – **7 tópicos**



**B - HEATING AND COOLING** - Sistemas de aquecimento e arrefecimento renováveis, com soluções integradas (ao nível da conceção, tecnologia, construção e mudança comportamental) – **2 tópicos**



**C – INDUSTRY AND PRODUCTS** - Tecnologias de eficiência energética em termos de processos e da industria transformadora - **4 tópicos**



**D – FINANCE FOR SUSTAINABLE ENERGY** - Criação de instrumentos financeiros e parcerias com a banca para apoio de serviços/projetos inovadores de eficiência energética – **3 tópicos**



## Energy Efficiency - Buildings & Consumers

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### EE 2 – 2015: Building design for new highly energy performing buildings

- **Scope:** *Demonstration projects where buildings are active contributors to production and environmental quality (e.g. for new districts planned), etc.*
- **Impact:** *Increase the number of 'nearly zero-energy' buildings.*

PPP EEB

IA | Contr. CE: 3-5 M€/projeto | TRL 5-7

### EE 5 – 2015: Increasing energy performance of existing buildings ... and creating a market for deep renovation

- **Scope:** *Development, testing and/or implementation of regulations, decision-making tools for renovation strategies, quality standards and enabling conditions to finance deep renovation of buildings, etc.*
- **Impact:** *e.g. renovation of existing buildings towards high energy performance, should result in energy savings of at least 25 GWh/year per million EUR of EU support*

CSA | Contr. CE: 1.5-2M€/projeto

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## Energy Efficiency - Buildings & Consumers

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### EE 6 – 2015: Demand response in blocks of buildings

- **Scope:** Cost effective, real time optimisation of energy demand, storage and supply in blocks of buildings with the help of intelligent energy management systems.
- **Impact:** Demonstrate demand response at the level of blocks of buildings, quantify energy, cost saving, etc.

IA | Contr. CE: 3-5M€/projeto | TRL 6-7

### EE 9 - 2015: Empowering stakeholders to assist public authorities in the definition and implementation of sustainable energy policies and measures

- **Scope:** Projects to target specific actors among stakeholders (utilities, industry, financing institutions, non-gov. org., consumer associations, interest groups, trade unions...). Large scale capacity building or engagement activities.
- **Impact:** e.g. influence hundreds of stakeholders playing a key role in the definition and successful implementation of national, regional or local policies.

CSA | Contr. CE: 1,5-2M€/projeto

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## Energy Efficiency - Buildings & Consumers

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### EE 10 – 2015: Consumer engagement for sustainable energy

- **Scope:** Reducing market barriers through changing behaviour of consumers using market segmentation and focus on "action"
- **Impact:** e.g. each million € of EU support expected to deliver annual energy savings of around 10% for at least 5,000 households (around 8 GWh/year of savings ).

CSA | Contr. CE: 1-1,5M€/projeto

### EE 11 – 2015: New ICT-based solutions for EE.

- **Scope:** Projects to target specific actors among stakeholders (utilities, industry, financing institutions, non-gov. org., consumer associations, interest groups, trade unions...). Large scale capacity building or engagement activities.
- **Impact:** e.g. influence hundreds of stakeholders playing a key role in the definition and successful implementation of national, regional or local policies.

RIA | Contr. CE: 1,5-2M€/projeto

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## Energy Efficiency - Heating & Cooling

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### EE 13 – 2015: Technology for district heating and cooling

- **Scope:** *Develop, demonstrate and deploy a new generation of highly efficient, intelligent district cooling and heating systems. Reduce distribution losses. Develop optimisation, control, metering, planning and modelling tools. New solutions for low temperature heat recovery and recirculation.*
- **Impact:** *e.g. reduce the energy consumption of space and water heating by 30 to 50% compared to today's level.*

RIA | Contr. CE: 1,5-2M€/projeto | TRL 4-6

### EE 14 – 2015: Removing market barriers to the uptake of efficient heating and cooling solutions

- **Scope:** *Innovative measures to accelerate the replacement of old, inefficient pace heaters and packaged cooling systems with products having A +++ to A+ energy labels. Inspection of heating and cooling systems.*
- **Impact:** *e.g significant impacts should also be measured in terms of investment made by stakeholders in sustainable energy.*

CSA | Contr. CE: 1,5-2M€/projeto

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## **Energy Efficiency - Industry & Products**

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### **EE 15 – 2015: Ensuring effective implementation of EU product efficiency legislation**

- **Scope:** *Building up monitoring, verification and enforcement of the EU's related products policy.*
- **Impact:** *e.g. every million Euro of EU support is expected to generate at least 15 GWh/year of energy losses avoided from non-compliance.*

**CSA | Contr. CE: 1,5-2M€/projeto**

### **EE 16 - 2015: Organisational innovation to increase energy efficiency in the industry**

- **Scope:** *Removing market barriers like lack of expertise and information on energy management. Uptake of cross-cutting innovative technologies. Industrial systems efficiency benchmarking. Sector specific technology pathways. Energy management in SMEs and industry. Human and organisational change.*
- **Impact:** *e.g. every million Euro of EU support is expected to result in savings of at least 25 GWh per year.*

**CSA | Contr. CE: 1,5-2M€/projeto**

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## Energy Efficiency - Industry & Products

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### EE 17 – 2015: Driving energy innovation through large buyer groups

- **Scope:** Actions where groups of buyers can set higher-than-available performance levels which manufacturers of sustainable energy products are called to meet through product innovation.
- **Impact:** New energy-using or -producing products with at least 25% better performance than the best available products

CSA | Contr. CE: 1,5-2M€/projeto

### EE 18 - 2015: New technologies for utilization of heat recovery in large industrial systems...,

- **Scope:** Research and demonstration of technologies to recover waste heat from industrial processes. Validation at real production conditions with demo sites, testing in industrial facilities.
- **Impact:** e.g. viable solutions and technologies allowing recovering at least 15% of process heat, etc

CSA | Contr. CE: 3-4M€/projeto | TRL4-7

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## ***Energy Efficiency - Finance for Sustainable energy***

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**EE 19 – 2015: Improving the financeability and attractiveness of sustainable energy investments**

**CSA | Contr. CE: 1,5-2M€/projeto**

**EE 20 - 2015: Project development assistance for innovative, bankable and aggregated sustainable energy investment schemes and projects**

**CSA | Contr. CE: 0,5-2M€/projeto**

**EE 21 – 2015: Development and market roll-out of innovative energy services and financial schemes for sustainable energy**

**CSA | Contr. CE: 1-1,5M€/projeto**

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## Call Energy Efficiency: Deadlines

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Topics*	2015
EE2, EE18	04/02/2015
EE5, EE6, EE7, EE9, EE10, EE11, EE13, EE14, EE15, EE16, EE17, EE19, EE20, EE21	04/06/2015

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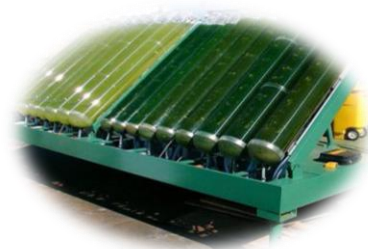
# Call Competitive Low Carbon Energy | deadline: 05/05/2015)



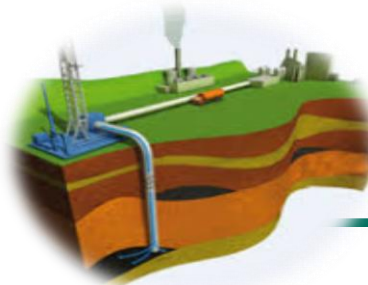
***RENEWABLE ELECTRICITY AND HEATING/COOLING*** - redução dos custos da produção de energia renováveis, eficiência dos recursos e impacto ambiental, cadeia de oferta e processos de fabrico competitivos – **3 tópicos**



***MODERNISING THE SINGLE EUROPEAN ELECTRICITY GRID & STORAGE*** - Rede elétrica europeia inteligente - **4 tópicos**



***SUSTAINABLE BIOFUELS AND ALTERNATIVE FUELS*** - Desenvolvimento de biocombustíveis avançados, e combustíveis alternativos – **3 tópicos**



***ENABLING THE SUSTAINABLE USE OF FOSSIL*** - Descarbonização do sector energético – **3 tópicos**

## ***Low Carbon Energy - Renewable electricity and heating/cooling***

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### **LCE 3 – 2015: Demonstration of renewable electricity and heating/cooling**

- **Specific Challenges:** *Photovoltaics, CSP, Wind Energy, Ocean Energy, Heating and Cooling, Geothermal*
- **Scope:** *Proposals should address one or more technologies-specific challenges TRL 6-7. Technical issues, synergies between technologies, socio-economic and environmental aspects (incl. public acceptance, business cases, pre-normative and legal issues, pollution and recycling).*
- **Impact:** *increase technology performance, reducing life-cycle environment impact, improving EU energy security, reducing renewable energy technologies installation time and costs, etc*

**IA | Contr. CE: 5-20 M€/projeto | TRL 6-7**

### **LCE 4 - 2015: Market uptake of existing and emerging renewable electricity, heating and cooling technologies**

- **Scope:** *Ensuring sustained public acceptance, ensuring speedy and user friendly permitting procedures, energy policies, codes and legislations, regulation, facilitating the deployment of improved business models and innovative financing schemes for mobilising investments*
- **Impact:** *substantial and measurable reductions in the transaction costs for project developers*

**CSA Contr. CE: 1-2 M€/projeto**

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## Low Carbon Energy – Electricity Grids

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### LCE 5 – 2015: Innovation and technologies for the development of meshed off-shore grids

- **Scope:** *first phase for deployment of innovative components of interoperable meshed off-shore HVDC network technologies, services and tools architectures. It is expected that the projects will cover TRL6 or 7, bringing them to TRL 8.*
- **Impact:** *accelerating the deployment of meshed HVDC off-shore grids, ensuring plug-and-play compatibility ; facilitating the efficient connection of off-shore wind resources to on-shore load*

IA | Contr. CE: 30-40 M€/projeto | TRL 6-7

### LCE 6 - 2015: Transmission grid and wholesale market

- **Scope:** *Integrating and validating solutions to grid challenges, concentrating on field demonstration of system integration, up-scaling at industrial scale and supporting R&D. Preparing first replication of the solutions, appropriate market models, business cases, user and general public acceptance, regulatory, market up-take, social, environmental and resource efficiency aspects should be included*
- **Impact:** *substantial and measurable reductions in the transaction costs for project developers*

IA /RIA | Contr. CE: 12-17 M€/projeto

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## ***Low Carbon Energy – Storage***

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### **LCE 9 – 2015: Large Scale Energy Storage**

- ***Scope: The activities must address the interfaces for integrating storage in grid management. Demonstration proposals should include market uptake measures for integrating energy storage in the electricity network and power system management.***

**IA | Contr. CE: 20-25 M€/projeto | TRL 6-7**

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## Low Carbon Energy – Biofuels and alternative fuels

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### LCE 12 –2015: Demonstrating advanced biofuel technologies

- **Scope:** Proving that advanced biofuels and bioenergy carriers technologies, are technically viable, environmentally and socially sustainable, and potentially cost-competitive at commercial scale; Developing logistic systems for a sound, safe and sustainable feedstock supply.
- **Impact:** testing advanced fuel technologies at large industrial scale to obtain data and experience require for a first-of-a-kind, commercial scale industrial demo projet

IA | Contr. CE: 5-20 M€/projeto | TRL 6-7

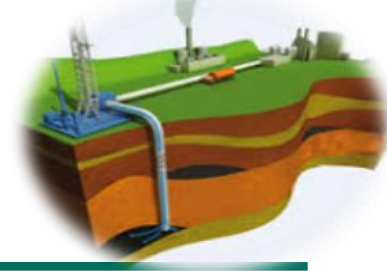
### LCE 14 –2015: Market uptake of existing and emerging sustainable bioenergy

- **Scope:** Encouraging the EU farmers and foresters to produce also energy and energy intermediaries; Setting up or strengthening sustainable local bioenergy supply chains ; Development of methodologies for the traceability of biomass feedstocks.
- **Impact:**

CSA | Contr. CE: 1-2M€/projeto

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# *Low Carbon Energy - Sustainable Use of Fossil Fuels*

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**LCE21 – 2015: Modelling and analysing the energy system, its transformation and impacts**

**RIA | Contr. CE: 2-4 M€/projeto**

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## Call Low Carbon Energy: Deadlines

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Topics*	2015
LCE3, LCE12, LCE19, LCE21 LCE4, LCE5, LCE6, LCE9, LCE14	05/05/2015

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# Call Smart Cities and Communities (call deadline: 05/05/2015)

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- ✓ Acelerar a implantação de tecnologias inovadoras, soluções organizacionais e económicas para aumentar significativamente os recursos e a eficiência energética, melhorar a sustentabilidade dos transportes urbanos e reduzir drasticamente as emissões de gases de efeito estufa em áreas urbanas.



## Foco / atividades principais:

- ✓ Investigação e desenvolvimento de soluções tecnológicas avançadas
  - ✓ Validação de novos casos de negócios e modelos de financiamento, standardização, escala e replicabilidade das soluções, a aceitação dos utilizadores e compromisso
  - ✓ Intensificação através de parceiras estabelecidas na EIP Smart Cities: *EIP Smart Cities* - <http://ec.europa.eu/eip/smartcities>
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## Call Smart Cities and Communities

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### SCC 1 – 2015: Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse (large scale demonstration - first of the kind)

▪ *Scope (...) creating partnerships **between industries, academics and cities**, empower citizens and ensure the replicability of the solutions. Therefore each project should: (...) include **industry, city planning authorities** which should also reflect the view of the consumer organisations, research community, **local Small and Medium Size Companies (SMEs)**.*

**IA | Contr. CE: 18-25M€/projeto**

### SCC 3 – 2015 Development of system standards for smart cities and communities solutions

▪ *Scope (...) through standardisation the solutions identified by smart cities and communities can envisage costs reductions. (...) industries cities and communities (...) in cooperation with the European Standardisation Organisations (...) and Standard Developing Organisations (SDOs).*

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**CSA | Contr. CE: 0,5 - 1 M€/projeto**

## *Call Smart cities & communities: Deadlines*

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Topics*	2015
SCC1, SCC3	05/05/2015

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***DS 4 – Smart, Green and Integrated  
Transports***



# Programa Especifico do **Desafio Societal Transportes** no Horizonte 2020

**OBJECTIVO:** *Sistema europeu de transportes eficiente em termos de utilização de recursos, respeitador do ambiente, seguro e sem discontinuidades para benefício dos cidadãos, da economia e da sociedade.*

## SUSTAINABLE

- **Transportes eficientes** em termos de recursos e respeitadores do ambiente
- Melhor **mobilidade**, menos congestionamento e maior segurança intrínseca e extrín



## SEEMLESS

- Liderança mundial para a **indústria** europeia de transportes

## COMPETITIVE

- Investigação **comportamental e socioeconómica** e actividades prospectivas para a definição de

políticas

## RESPONSIVE

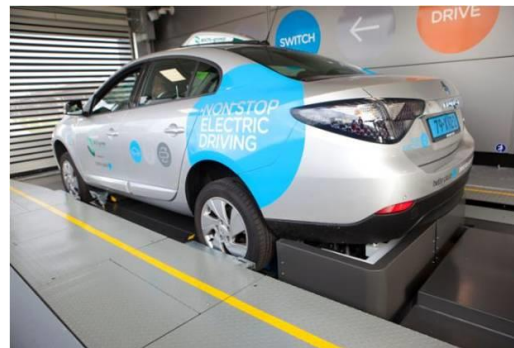


# Estrutura do Programa de Trabalhos Transportes 2015

**MOBILITY FOR GROWTH – 13 Tópicos**  
Call: H2020-MG-2015 - 184 M€



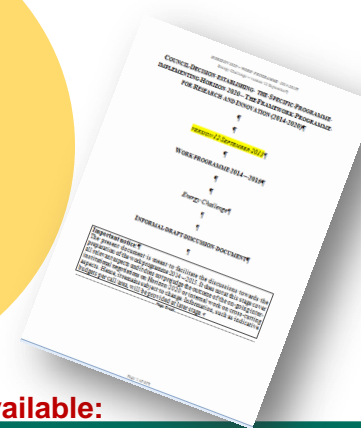
**GREEN CARS – 2 Tópicos**  
Call: H2020-GC-2015 – 30M€



**SMALL BUSINESS & FAST TRACK  
INNOVATION – 1 Tópico**  
Call: H2020-IT-2015 - 38 M€



**Work Programme  
2014-2015  
– Smart, Green  
and Integrated  
Transports**



**Transport Work Programme available:**  
[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014\\_2015/main/h2020-wp1415-transport\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-transport_en.pdf)



# *Estrutura do Programa de Trabalhos Transportes 2015*

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## **Modos específicos de transporte:**

- Ferroviário, marítimo e rodoviário
- Call "Green Vehicles"      H2020-GV-2015

## **Integração de transportes**

- Mobilidade Urbana, Logística, Sistemas inteligentes de Transportes e Infraestrutura

## **Áreas Transversais**

- Questões socioeconómicas e comportamentais e definição de políticas
-

# Call Mobility for Growth | deadline: 23/04/2015 e 15/10/2015

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**AVIATION** - Ações para melhorar as competências e conhecimento no sector da aviação - **4 tópicos**



**RAIL** - Progresso nos serviços, custos, interoperabilidade, capacidade, redução de ruído e competitividade. - > **NO TOPICS FOR 2015**



**ROAD** - sistemas de combustão interna, apoio à política da qualidade do ar, segurança no transporte rodoviário, produção de tecnologia, desenvolvimento de novos conceitos para veículos rodoviários e para transporte urbano – **1 tópico**



**WATERBORNE** - transporte marítimo mais moderno, seguro e eficiente em recursos : utilização de fontes de energia, minimização dos impactos ambientais – **1 tópico**

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# Call Mobility for Growth | deadline: 23/04/2015 e 15/10/2015



**URBAN MOBILITY** - Inovação em tornar os recursos eficientes e aumentar a competitividade na mobilidade urbana e no transporte – **2 tópicos**

Projeto  
Larga escala  
(12-18M€)



**LOGISTICS** - Aumentar a eficiência e a sustentabilidade na cadeia de procura no setor logístico - **1 tópico**



**INTELLIGENT TRANSPORT SYSTEMS** - aumentar a segurança, redução do congestionamento; tornar o transporte mais sustentável – **NO TOPICS FOR 2015**



**INFRASTRUCTURES** : tornar a infraestrutura mais resiliente, de acordo com os níveis de mobilidade e necessidades das pessoas e negócios – **2 tópicos**

# Road



## MG.3.6-2015. Safe and connected automation in road transport

### Scope:

#### RIA – deadline 23/04/2015 (first stage)

- ✓ Supporting technologies for individual pre-emption or compensation of human errors, (...) vehicle control in case of imminent collision.
- ✓ Novel transport, service and mobility concepts in real-life situations enabled by automated driving and connectivity

#### CSA – deadline 15/10/2015 (one single stage)

- ✓ Dissemination and take-up of results, including the development and consensus building on business models to progress towards full automation in road transport.
- ✓ Liability and standardisation policy and regulatory framework recommendations

### Impact:

- ✓ Reduction of the automated driving systems' development costs,
- ✓ Enhanced robustness and performance of sensor and data analysis systems
- ✓ Improved efficiency, safety and traffic flow

**RIA/CSA | Contr. CE: 5-10 M€/projeto**



# Waterborne

## **MG.4.3-2015. System modelling and life-cycle cost and performance optimisation for waterborne assets**

- **Scope:** *New design and mathematical modelling tools and paradigms; A comprehensive and detailed approach to system integration and optimisation for vessels; A large scale virtual demonstrator for smart, adaptive and multi-material complex ships and structures.*
- **Impact:** *cost reductions in design, production and lifetime maritime asset management; shorter time for assessment and integration of sub-systems on board vessels and a better integration of complex systems*

**RIA | Contr. CE: 5-8 M€/project**



# Urban Mobility

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## **MG.5.4-2015. Strengthening the knowledge and capacities of local authorities**

- **Scope:** *Promoting take up of the innovative concept of Sustainable Urban Mobility Plans (SUMPs) Or Enhancing the capacities of local authorities and other stakeholders to successfully plan and implement innovative sustainable mobility measures, technologies and tools, on the basis of reliable data and analysis.*
- **Impact:** *generate a high leverage factor, especially in regions and cities where take up is so far low and the impacts from transport are severe*

**RIA | Contr. CE: 2-4M€/project**



# Urban Mobility

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## **MG.5.5-2015. Demonstrating and testing innovative solutions for cleaner and better urban transport and mobility**

- **Scope:** city-led consortia, composed of four to five cities. They should cover an appropriate sub-set of the eight 'CIVITAS measure categories': collective passenger transport; demand management strategies; mobility management and travel awareness; safety and security; urban freight logistics; information systems and services; and clean fuels and low emission vehicles; car-independent lifestyles (RIA)
- Or** Communication and dissemination strategy to maximise impact and ensure the continuity of the 'CIVITAS Secretariat' as well as links with the CiVi-Net networks (CSA)
- **Impact:** produce added-value inputs to the development of European knowledge base on the effectiveness and impacts of innovative mobility solutions.

**RIA/CSA | Contr. CE:12-18M€/project**

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## **Logistics**

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### ***MG.6.3-2015. Common communication and navigation platforms for pan-European logistics applications***

- *Scope: solutions to enable actors to take fast and well-informed decisions inside and cross-companies. This implies that information with the right quality, reliability and content is made available to concerned actors and shared between them.*
- *Impact: Cloud-based data and services infrastructure, underpinned by common information models, will give all logistic stakeholders opportunities to collaborate on both an operational and strategic level.*

**RIA | Contr. CE:16-18M€/project**





## ***Socio-economic and behavioral research***

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### ***MG.9.1-2015. Transport societal drivers***

- ***Scope:*** *A forum for communication, collaboration, relationship-building should develop multi-stakeholder interactions and produce an action plan for innovative solution/options for transport and mobility to advance the agenda of the transport sector and society at large.*
- ***Impact:*** *Ensure an inclusive approach in providing a comprehensive overview of new forms of mobility and transport, and their implications for users, the environment, society as a whole and policy makers, better target transport policies*

**CSA | Contr. CE:1-1,5M€/project**

## *Call Green Vehicles*

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✓ investigação, desenvolvimento tecnológico, inovação e demonstração como forma de apoiar melhorias na eficiência energética dos veículos de transporte rodoviário e à utilização de novas fontes de energia não convencionais para o transporte rodoviário, tais como eletricidade, CNG e LNG, combustíveis renováveis , etc

### **Foco / atividades principais:**

- ✓ incluem tecnologias aplicadas aos motores, nova concepção de veículos, redução de peso, melhoria na aerodinâmica e resistência ao rolamento.
  - ✓ Implementação da PPP Green Vehicles
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## Call Green Vehicles

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### **GV.6-2015. Powertrain control for heavy-duty vehicles with optimised emissions**

**Scope:** Methods how to optimise the control of powertrains taking into account specific transportation tasks. This can be achieved by using the **information provided by new generation navigation systems and emission sensors**

**Impact:** A reduction of fuel consumption of at least 20% on the same vehicle with conventional control

**IA | Contr. CE:5-7M€/project**

### **GV.8-2015. Electric vehicles' enhanced performance and integration into the transport system and the grid**

**Scope:** reduce complexity and the number of components and interconnections, whilst improving energy efficiency, functionality and modularity; BMS research; Integration of the overall cycle of EV energy management into a comprehensive EV battery and ICT-based re-charging system management

**Impact:** Improvements in the cost-performance ratio of EV contributing ; Enhancements to vehicle range and/or weight, battery life and reliability; Standardised BMS, etc

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**RIA | Contr. CE:5-10M€/project**

## ***Datas de encerramento - tópicos 2015***

MG.1.8(RIA part), MG.1.9, MG.1.10 MG.9.1, MG.9.5	<b>Single stage</b>  <b>23/04/2015</b>	
MG.3.6(CSA part) MG.5.5(CSA part) MG.8.3, MG.8.4(CSA part)		<b>Single stage</b>  <b>15/10/2015</b>
MG.1.2 MG.3.6(RIA part) MG.4.3 MG.5.4, MG.5.5(IA part) MG.6.3 MG.8.4(RIA or IA part)	<b>First stage</b>  <b>23/04/2015</b>	<b>Second stage</b>  <b>15/10/2015</b>
GV.6, GV.8	<b>Single stage</b>  <b>15/10/2015</b>	

## ***ETNA + European Transport Network Alliance***

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**ETNA Plus** IS AN FP7 COORDINATION ACTION  
AIMED AT IMPROVING THE OVERALL QUALITY OF NCP  
SERVICES ACROSS EUROPE IN THE AREA OF TRANSPORT

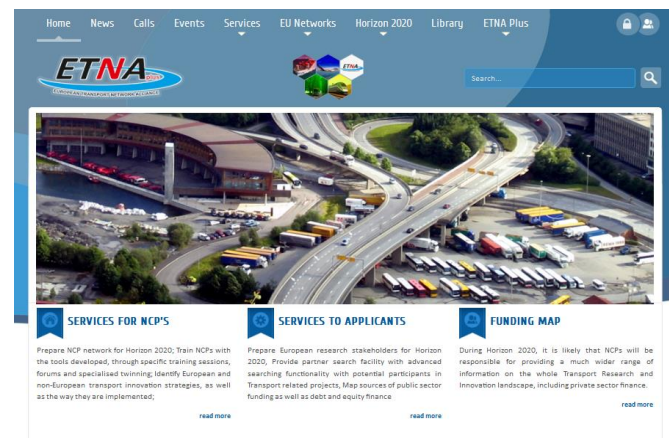


**MAKING H2020 CALLS MORE ACCESSIBLE  
FOR ALL STAKEHOLDERS AND CONTRIBUTE TO  
AN IMPROVEMENT IN THE AVERAGE QUALITY  
OF PROPOSALS SUBMITTED**

# ETNA + European Transport Network Alliance

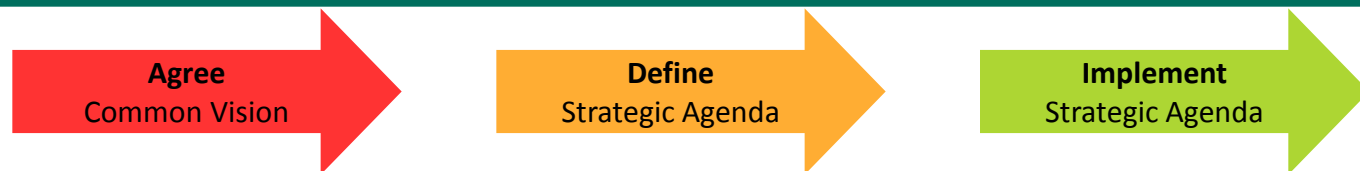
## What are we doing?

- ✓ SINGLE ENTRY POINT WEB-BASED TOOL TO EUROPEAN TRANSPORT R&I INITIATIVES AND SOURCES OF PUBLIC AND PRIVATE SECTOR FUNDING
- ✓ BROKERAGE EVENTS AND PARTNER SEARCH ACTIVITIES TO FIND SUITABLE PARTNERS TO APPLY TO HORIZON 2020 CALLS FOR PROPOSALS
- ✓ FACTSHEET ON HORIZON 2020 PROGRAMME AVAILABLE ON THE WEBSITE
- ✓ E-TRAININGS/WEBINARS
- ✓ ETNA<sub>PLUS</sub> ACADEMY: PILOT TRAINING FOR EU12 POTENTIAL COORDINATORS



[www.transport-ncps.net](http://www.transport-ncps.net)

## Plataformas Tecnológicas Europeias



As Plataformas Tecnológicas Europeias são grupos de stakeholders, lideradas pela indústria para definir as agendas estratégicas de investigação e planos de ação em diferentes áreas tecnológicas

Bio-based economy	Energy	Environment	ICT	Production and processes	Transport
EATIP	Biofuels	WssTP	ARTEMIS	ECTP	ACARE
ETPGAH	EU PV TP		euRobotics	ESTEP	ERRAC
Food for Life	TPWind		ETP4HPC	EuMaT	ERTRAC
Forest-based	RHC		ENIAC	FTC	Logistics
Plants	SmartGrids		EPoSS	SusChem	Waterborne
FABRE TP	SNETP		ISI	Nanomedicine	
TP Organics	ZEP		Net!Works	ETP-SMR	
			NEM	Manufuture	
			NESSI		
			Photonics 21		
Cross ETP Initiatives					
Nanofutures					
Industrial Safety					
PROSUMER.net					

- Desempenhar um papel ativo nas plataformas ou esperar pelo lançamento dos concursos.

[http://cordis.europa.eu/technology-platforms/home\\_en.html](http://cordis.europa.eu/technology-platforms/home_en.html)

# Onde nascem os tópicos de investigação?

## European Technology Platforms (ETPs)

- TP Wind
- EPIA (PV)
- ESTELA (Solar CSP)
- TSO & DSOs Association (Smart Grids)
- EBTP (Biofuels)
- ZEP (CCS)
- Smart Cities (Smart Cities Stakeholders Platform)
- Construction (ECTP)
- ACARE
- WATERBORNE
- ERTRAC
- ERRAC
- ALICE

## Horizon 2020 Advisory Groups

- SC3 e SC4 representation

## EU Initiatives

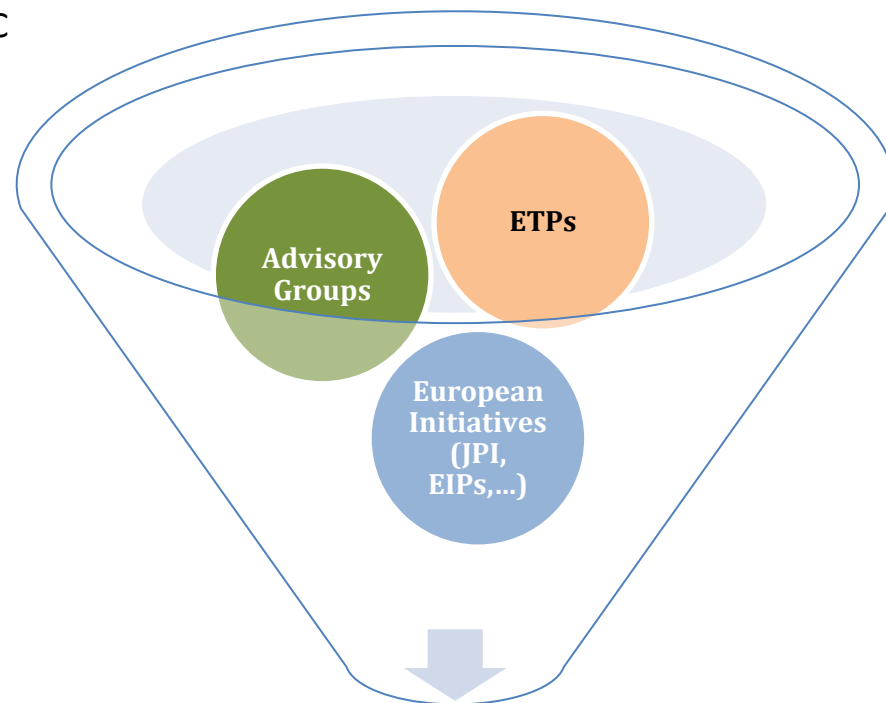
- European Innovation Partnerships (EIPs)  
EIP Smart Cities and Communities
- Strategic Energy Technology Plan – SET-Plan

## Policy DGs (Climate & Energy Package)

to support strategies and policies

## FP financed projects

Gaps and urgent needs identified in past financed projects



**Draft Work Programme**



## *Potencie o networking e as relações com potenciais parceiros*

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- Quem são os atores chave?
  - Quem tem estado envolvido em **projetos anteriores/grupos de interesse**?
  - Como é que pode conhecer os atores chave?
  - Participando em **eventos nacionais/internacionais**
  - Inscrevendo-se na **base de dados de avaliadores** da UE (<http://ec.europa.eu/research/participants/portal/page/experts>)
  - Associar-se às **Plataformas Tecnológicas Europeias** (<http://cordis.europa.eu/technology-platforms/>) ou a outros grupos de interesse relevantes como as Parcerias Europeias de Inovação (EIP)
  - Posicione-se como um **parceiro chave**
- 



## Próximos Eventos

- **Sessões Horizonte 2020** promovidas pelo **GPPQ** – consulte o nosso calendário de eventos - [www.gppq.fct.pt](http://www.gppq.fct.pt)
- **Conferencia SET-Plan** – Roma, 10 e 11 de Dezembro de 2014 <http://www.setplan2014.it/>
- **Infoday Transportes** – Bruxelas, 2 de Fevereiro de 2015

The screenshot shows the GPPQ website with a navigation menu at the top. The main content area is titled 'Horizonte 2020' and features a calendar for 'Sessões de Informação Calls H2020 para 2015 Setembro e Outubro'. The calendar shows dates from September to October. To the right, there are several news items and announcements, including 'Convocatória - Matrículas sustentáveis para a Construção - até 30 de Setembro 2014' and 'Convocatória ENL-RETEED em 3 áreas energéticas'.

The screenshot shows the website for the SET Plan Conference 2014. The main heading is 'SET Plan Conference 2014' with the tagline 'Driving the energy transition together'. Below the heading is a 'REGISTER NOW' button. The website also displays the date 'WHEN: 10-11 December' and the location 'WHERE: Rome, Italy Auditorium Antoniano'. The background image shows a view of Rome.

The screenshot shows the European Commission website for the 'Smart, Green and Integrated Transport Information Day'. The page features the European Commission logo and the text 'EUROPEAN COMMISSION'. Below this, there is a banner for the 'Smart, Green and Integrated Transport Information Day' held on 2 February 2015 at the Charlemagne building in Brussels. The banner includes images of a train, a ship, a truck, and an airplane. At the bottom, it states 'The next round of calls under the Smart, Green and Integrated Transport challenge of Horizon 2020 will be open starting from 10 December 2014.'

# Contactos

## GPPQ Gabinete de Promoção do Programa-Quadro

Av. D. Carlos I, nº126, 4º  
1249-074 Lisboa - Portugal

[www.gppq.fct.pt](http://www.gppq.fct.pt)

ENERGIA | TRANSPORTES (INCLUINDO AERONAUTICA)  
FUSÃO  
INICIATIVA CONJUNTA PARA HIDROGÉNIO E PILHAS DE COMBUSTÍVEL



Ana Raposo

🏠 GPPQ

Av. D. Carlos I, nº126, 4º andar  
1249-074 LISBOA

✉ [ana.raposo@fct.pt](mailto:ana.raposo@fct.pt)

☎ +351 21 391 76 38

FET  
ICT  
Energia



Eunice Ribeiro

🏠 GPPQ

Av. D. Carlos I, nº126, 4º andar  
1249-074 LISBOA

✉ [eunice.ribeiro@fct.pt](mailto:eunice.ribeiro@fct.pt)

☎ +351 21 391 76 41

Espaço | Transportes  
Cleansky  
SESAR



João Romana

🏠 GPPQ

Av. D. Carlos I, nº126, 4º andar  
1249-074 LISBOA

✉ [joao.romana@fct.pt](mailto:joao.romana@fct.pt)

☎ +351 21 391 76 35

Infraestruturas | Energia  
Sociedades  
S&S



Ricardo Migueis

🏠 GPPQ

Av. D. Carlos I, nº126, 4º andar  
1249-074 LISBOA

✉ [ricardo.migueis@fct.pt](mailto:ricardo.migueis@fct.pt)

☎ +351 21 391 76 44

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