

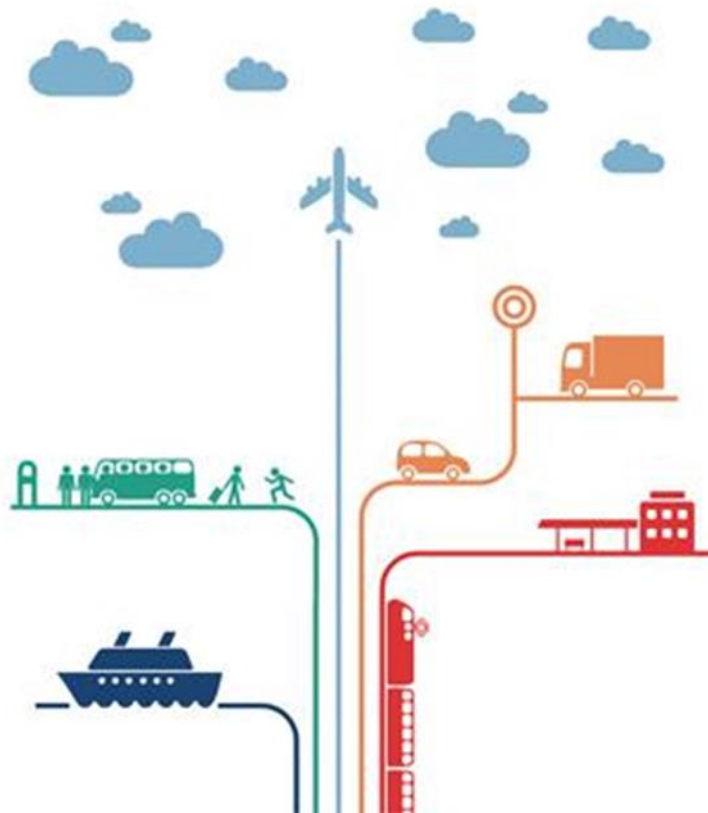
Oportunidades para Aviação em 2017

Participação no H2020 transportes 2017
Participação no Clean Sky

João Romana (jromana@ani.pt)



Participação no H2020 Transportes 2017



H2020

**DS4 - Transportes
Inteligentes, Ecológicos e
Integrados**

Participação no H2020 Transportes 2017

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

RESEARCH & INNOVATION
Participant Portal

Reference Documents

This page includes all the H2020 & FP7 reference documents starting with legal documents and the Commission work programmes for research and innovation up to model grant agreements and guides for specific actions and horizontal issues. The documents are grouped by categories. It also includes reference documents of other EU programmes, as 3rd Health, Consumer, COSME and Research Fund for Coal and Steel programmes. To access a document:

- Click on a folder
- Click on ARROW to have more information about the document and its available translations

You can search a specific H2020 or FP7 document on the [Europa Search](#) service.

H2020 Other EU programmes FP7

- Legal basis
 - Framework programmes (EC-Euratom)
 - Rules for participation
 - Specific programme
 - European Institute of Innovation and Technology (EIT)
- Model grant agreement
 - General Grant Agreement
 - European Research Council (ERC)
 - Marie-Skłodowska-Curie (MSC)
 - SME Instrument
 - ERANET Cofund
 - Pre-Commercial Procurement (PCP)/Public Procurement of Innovative Solutions (PPI) Cofund
 - European Joint Programme Cofund
 - Framework Partnerships
 - Lump sum
- H2020 Grants Manual
 - Section on beneficiary registration, validation and financial viability check
 - Section on proposal submission and evaluation
 - Guidance on evaluation of some H2020 aspects
 - Section on grant agreement preparation
 - Annotated Model Grant Agreement
 - Horizontal issues

RESEARCH & INNOVATION
Participant Portal

EU Programmes 2014-2020

Search topics

Updates

H2020

Research Fund for Coal & Steel

3rd Health Programme

Promotion of Agricultural Products

Consumer Programme

COSME

Justice Programme

FP7 & CID Programmes 2007-2013

Other Funding Opportunities

Calls for Proposals

Horizon 2020

Advanced search for topics
Calls for tenders on TED

- Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- 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
- Spreading excellence and widening participation

Status Calls with forthcoming topics Calls with open topics Calls with only closed topics

Sort by Call title Call identifier Publication date FILTER

Societal Challenges SESAR2020 IR-VLD Wave 1 H2020-SESAR-2015-2 Publication date: 22 October 2015	Societal Challenges Clean Sky 2 Call for Core partners Wave 3 H2020-CS2-CPW03-2015-02 Publication date: 22 October 2015	Industrial Leadership Applications in Satellite Navigation - Galileo - 2017 H2020-GALILEO-GSA-2017 Publication date: 14 October 2015
Societal Challenges 2016-2017 Mobility for Growth H2020-MG-2016-2017 Publication date: 14 October 2015	Societal Challenges 2016-2017 Green Vehicles H2020-GV-2016-2017 Publication date: 14 October 2015	Societal Challenges 2016-2017 Automated Road Transport H2020-ART-2016-2017 Publication date: 14 October 2015
Societal Challenges GREEN VEHICLES 2014-2015 H2020-GV-2014-2015 Publication date: 11 December 2013	Societal Challenges Clean Sky 2 Call for Core Partners Wave 1 H2020-CS2-CPW01-2014-01 Publication date: 09 July 2014	Societal Challenges Clean Sky 2 Call for Proposals 02 H2020-CS2-CPW02-2015-01 Publication date: 23 July 2015

→ Work Programme SC 4

→ SC4 → Smart, Green and integrated transport



Participação no H2020 Transportes 2017



Calendário



Participação no H2020 Transportes 2017



Oportunidades para Aviação 2017

Call	2016 (M€)	2017 (M€)
Mobility for Growth	210,10	226,70
Automated Road Transport	64,00	50,00
Green Vehicles	78,50	133,00
SME Instrument	57,57	61,23
Fast Track to Innovation	14,65	0
<i>Other actions (e.g. Blue Growth; Prizes; ELENA)</i>	<i>21.80</i>	<i>24.43</i>
TOTAL (Aviação)	446,62	495,36

Participação no H2020 Transportes 2017



Contexto Político



- *Em linha com a estratégia do **Livro Branco dos Transportes** (targets 2030 e 2050)*
- *Alinhamento com Agendas estratégica **SRIA 2050** da plataforma tecnológica europeia **ACARE***
- *Cooperação internacional (EUA, China, Brazil, África)*
- *Open research data pilot*

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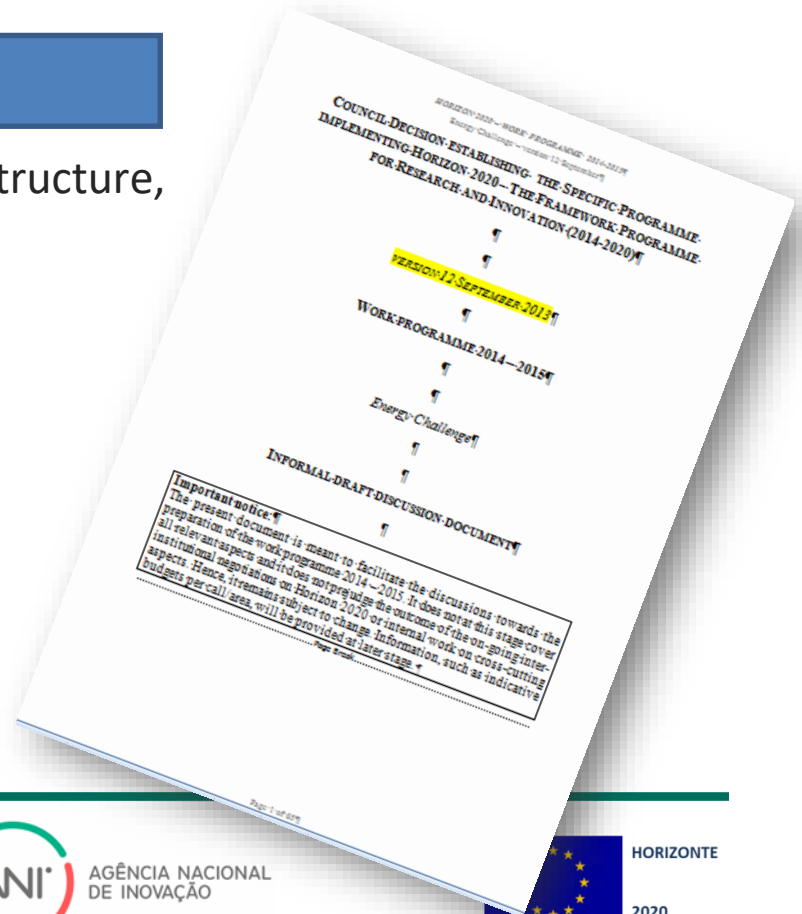
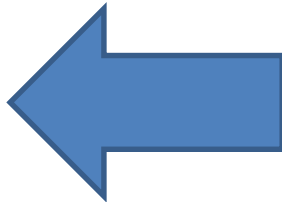
Calls e tópicos para aviação

MG - Mobility for Growth

(Aviation, Safety, Logistics, ITS, Infrastructure, Socio-economics)



SME instrument



Participação no H2020 Transportes 2017

MOBILITY FOR GROWTH AVIAÇÃO - 10 TÓPICOS



AUTOMATED ROAD TRANSPORT



*Work
Programme
2016-2017
– Smart, Green
and Integrated
Transports*

GREEN VEHICLES



SME INSTRUMENT– 1 TÓPICO



Participação no H2020 Transportes 2017

Call Mobility for Growth

Aumentar a competitividade e sustentabilidade, melhorar a mobilidade e o impacto económico

- ✓ Infraestruturas conectadas, transportes de passageiros
- ✓ Otimização da mobilidade, segurança, ambiente
- ✓ Sistemas inteligentes, limpos, eficientes e verdes

Participação no H2020 Transportes 2017



CALL	Tópicos relevância AVIAÇÃO deadline: 01/02/2017	Esquema	Contribuição p/ projeto
MG-1.2-2017	Reducing aviation noise Aircraft/engine technologies, airport strategies, health impact, land-use planning, sonic boom	RIA	5-9M€
MG-1.3-2017	Maintaining industrial leadership in aeronautics Improve Health Management, Composite airframe, electromagnetic environment, new design tools	RIA	5-9M€
MG-1.4-2017	Breakthrough innovation Aircraft configurations, airframes, propulsion, multifunctional systems, Remotely Piloted Aircraft Systems (RPAS)	RIA	2-4M€
MG-1.5-2017	Identification of gaps, barriers and needs in the aviation research collaborations with non-European stakeholders to solve common challenges, leverage resources, mitigate risks and establish long-term relationships. Two possibilities: 1. Annual review state of the art 2. Set up an open platform between EU and third countries	CSA Canadá China Japão	1-2M€

Participação no H2020 Transportes 2017



CALL	Tópicos relevância AVIAÇÃO: LOGÍSTICA deadline: 01/02/2017	Esquema	Contribuição p/ projeto
MG-5.2-2017	Innovative ICT solutions for future logistics operations Scope European GNSS programmes, aviation SESAR Cover at least 2: planning and data, dynamic routing, interoperability	RIA	3-5M€
MG-5.4-2017	Potential of the Physical Internet Scope Internet of Things Freight handling	RIA Vs. CSA	2-3M€



Participação no H2020 Transportes 2017



CALL	Tópicos relevância AVIAÇÃO: INFRAESTRUTURA deadline: 01/02/2017	Esquema	Contribuição p/ projeto
MG-7.1-2017	Resilience to extreme (natural and man-made) events Impact of extreme weather on European transport networks, application of new materials, Structural health monitoring,	RIA	3-5M€ SME participação
MG-7.2-2017	Optimisation of transport infrastructure including terminals Re-engineer the network to new needs and higher efficiency, innovative design of corridors and hubs, multimodal network assessment, airframe, electromagnetic environment, new design tools	RIA	2-6M€ SME participação



Participação no H2020 Transportes 2017



CALL	Tópicos relevância AVIAÇÃO: SOCIO-ECONOMICO deadline: 01/02/2017	Esquema	Contribuição p/ projeto
MG-8.2-2017	Big data in Transport: Research opportunities, challenges and limitations Exploit data, invest in ICT, effective data mining tools, limitations of transportation system to handle big data, institutional barriers to data openness and sharing	CSA	0.5-1.5M€
MG-8.7-2017	Future research needs and priorities in the area of transport Analysis of transport relevant studies and reports, similar forward looking projects, min political imperatives, impact of megatrends, research needs and priorities in transports	CSA	0.3-0.5M€

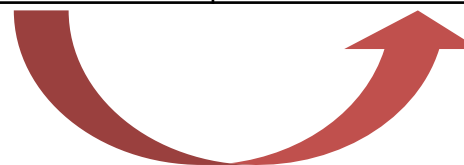


Participação no H2020 Transportes 2017



Call Deadlines 2017

Mobility for Growth	Single stage 01/02/2017	Two- stage	
		First stage 26/01/2017	Second stage 19/10/2017



“Go Proposals”

Participação no *Clean Sky*

Joint Undertaking - Comissão Europeia vs. industria

Joint Technological Initiative (JTI) para desenvolvimento integrado da indústria Aeronáutica Europeia

- Clean Sky 1 desenvolveu 1ª fase (2008-2016)
- Clean Sky 2 promove a 2ª fase (2014-2020)
- Visa desenvolvimento de atividades temáticas integradas
- Atividades em downstream
- Demonstradores de grande escala
- Calls abertas envolvendo um largo numero de participantes



Participação no *Clean Sky*



Clean Sky 2 tem 16 Membros fundadores

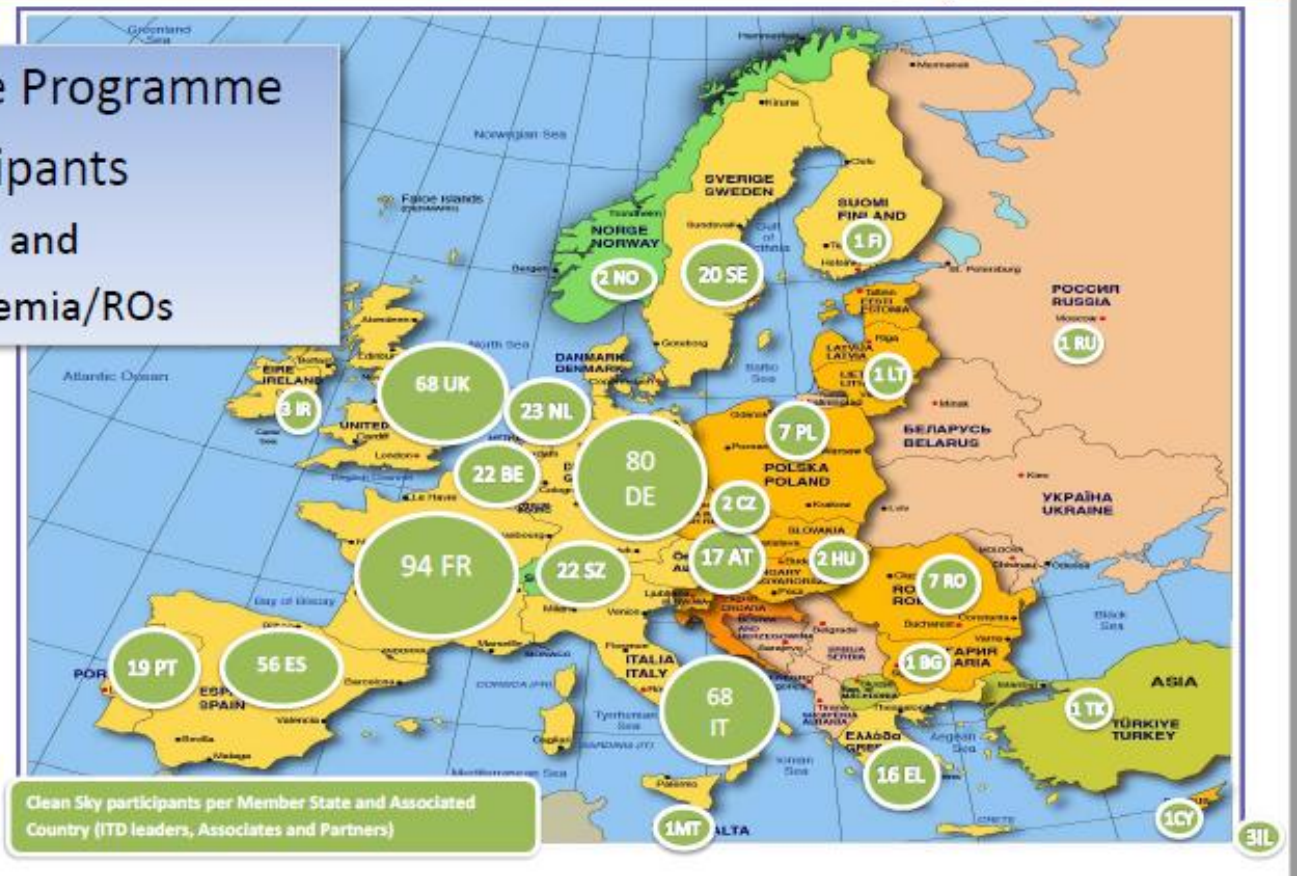


Participação no *Clean Sky*



Contribui para o sucesso da aeronáutica europeia

- ~75% of the Programme
- ~600 participants
 - ✓ 15% SMEs and
 - ✓ 27% Academia/ROs



Participação no *Clean Sky*

CS2
EU Funding
Decision
1.755bn€
 (1.716bn€ "net")*
 * After running costs

Vehicle
IADPs

Fast Rotorcraft
 Agusta
 Westland
 Eurocopter

Large Passenger Aircraft
 Airbus

Regional Aircraft
 Alenia
 Aermacchi

Eco-Design
 Fraunhofer Gesellschaft

Large
 Systems
ITDs

Airframe ITD

Dassault - EADS-CASA - Saab

Engines ITD

Safran - Rolls-Royce - MTU

Systems ITD

Thales - Liebherr

Small Air Transport
 Evektor - Piaggio

Technology Evaluator (TE)

German Aerospace Center (DLR)

IADP: Innovative Aircraft Demonstrator Program
ITD: Integrated Technology Demonstrator

Participação no *Clean Sky*



Características dos membros

- ✓ **Leaders e afiliados:** Podem concorrer Calls for Core Partners e Calls for Proposals **apenas noutras** IADP/ITD em que não estejam envolvidos como Leaders. **Até 40% do financiamento total.**
- ✓ **Core Partners e afiliados:** Podem concorrer em várias Calls for Core Partners em todas as IADP/ITD. Podem concorrer às Calls for Proposals **apenas noutras** IADP/ITD em que não estejam envolvidos como membros. **Até 30% do financiamento total.**
- ✓ **Partners:** Seleccionados através de Calls for Proposals. Podem concorrer a Calls for Core Partners e Calls for Proposals em todas as IADP/ITD. **Pelo menos 30% do financiamento total.**



Participação no *Clean Sky*



Partners vs. Core Partners

Item	Core Partner	Partner
Processo de seleção	Call (máximo 4)	Várias Call anuais
Tipo de concurso	CPW	CfP
Duração da Grant	Todo o Programa CS	Limitado (1-2anos)
Intervenção do Programa de trabalhos CS2	Estratégica: SC and GB Implementação: intervenção nas calls a lançar nos <i>IADP/ITD/Transversal</i>	Execução de projetos
Taxa financiamento (IA, RIA)	A mesma	



Participação no *Clean Sky*



CS1 ITD Smart Fixed Wing Aircraft (SFWA)

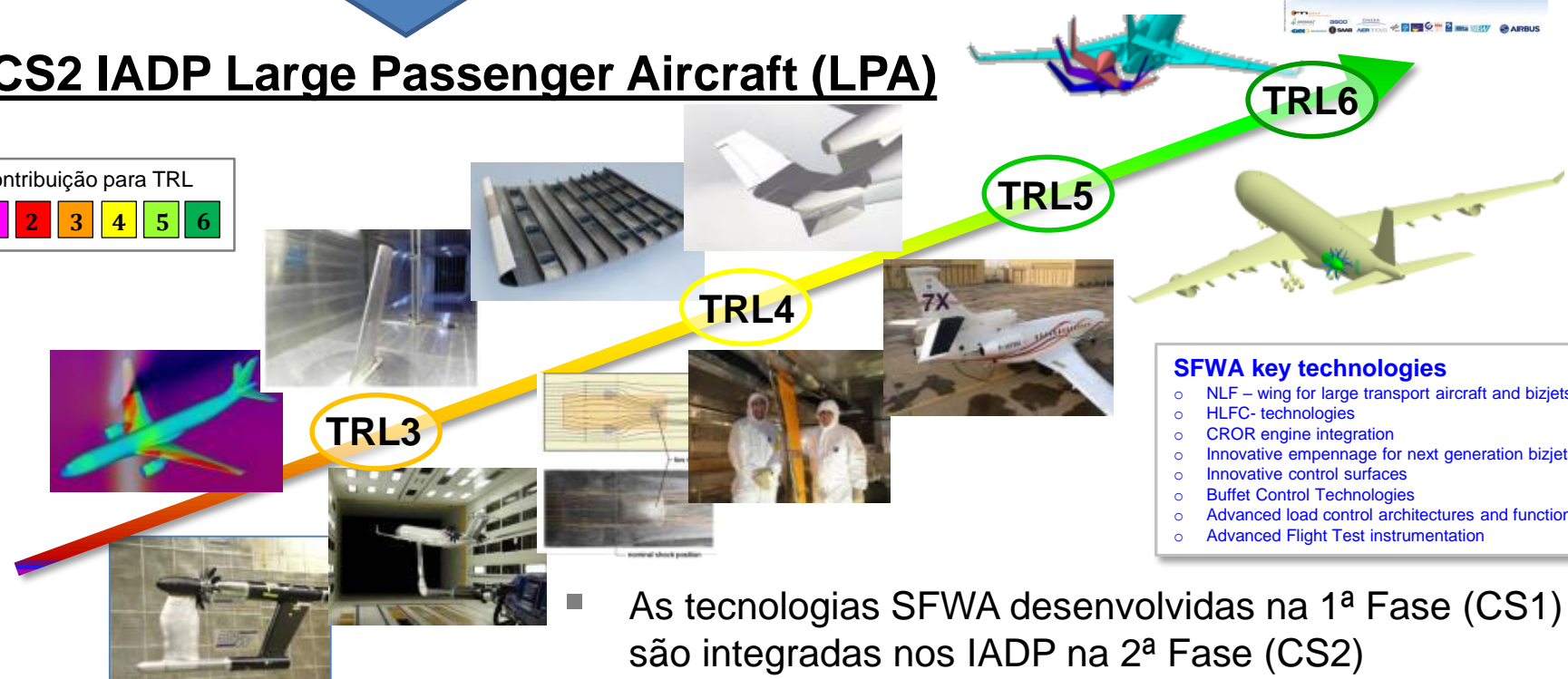


CS2 IADP Large Passenger Aircraft (LPA)



Contribuição para TRL

1	2	3	4	5	6
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- SFWA key technologies**
- NLF – wing for large transport aircraft and bizjets
 - HLFC- technologies
 - CROR engine integration
 - Innovative empennage for next generation bizjets
 - Innovative control surfaces
 - Buffet Control Technologies
 - Advanced load control architectures and function
 - Advanced Flight Test instrumentation

- As tecnologias SFWA desenvolvidas na 1ª Fase (CS1) são integradas nos IADP na 2ª Fase (CS2)
- Participação de Core Partners e Partners



Participação no *Clean Sky*



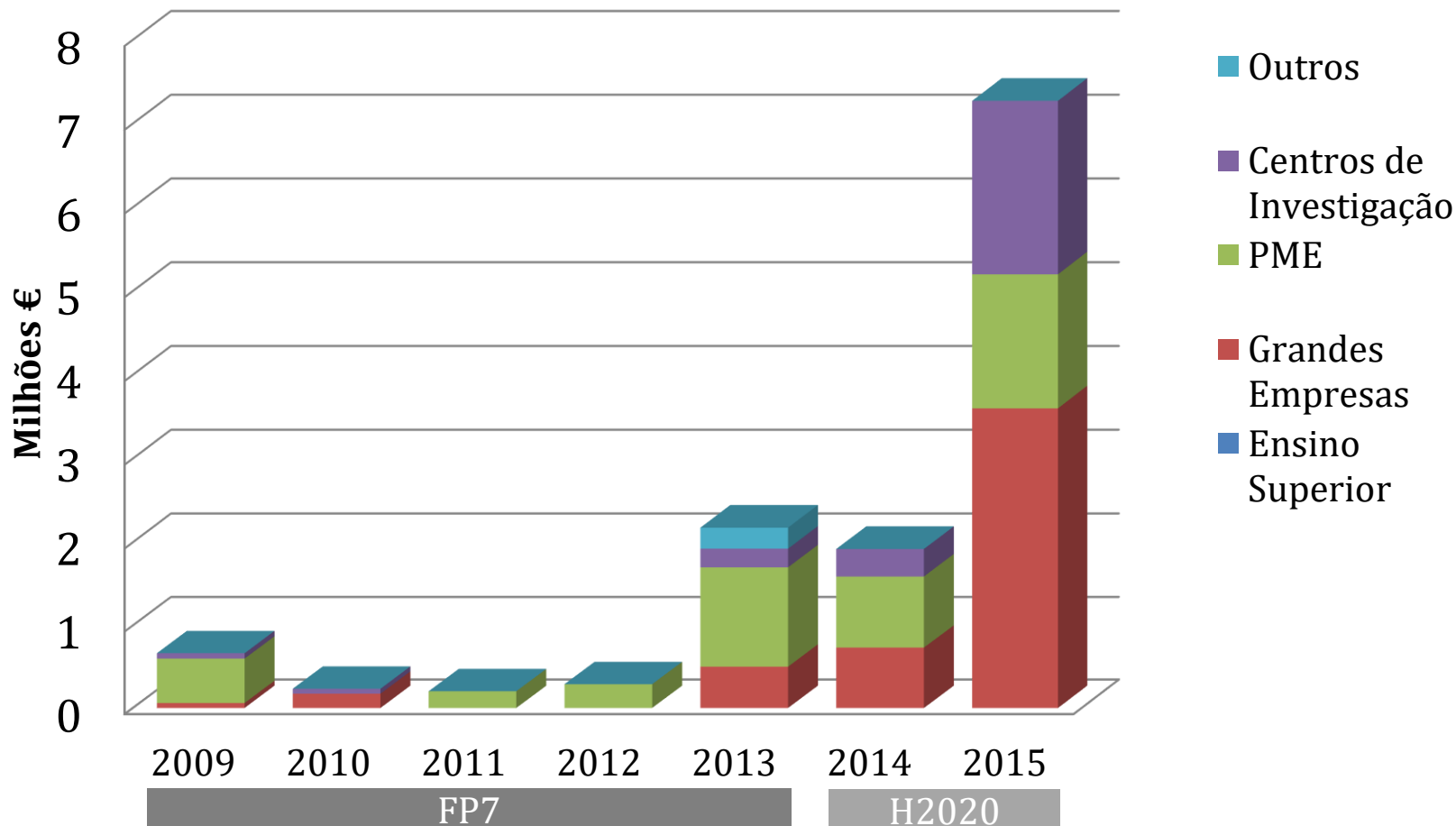
Quem pode participar?

- Entidades **individuais** (SMEs, Grande industria, R&D, etc.)
- **Consórcios** (inter)nacionais de entidades
- **Clusters** (quando estabelecidos como entidade legal)
- **País de origem:**
 - Estado Membro EU
 - País Associado H2020
- **Entidades de países terceiros** não são elegíveis a Core Partners (específico dos estatutos CSJU, Artº 4.1) mas podem candidatar-se às Calls for Proposal (CfP)

Participação no *Clean Sky*



Financiamento Clean Sky para entidades nacionais



Contactos

DS4 - Transportes Inteligentes, Ecológicos e Integrados

Transportes
Clean Sky
SESAR



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QUESTÕES?