

Oportunidades para Transportes no H2020 em 2020



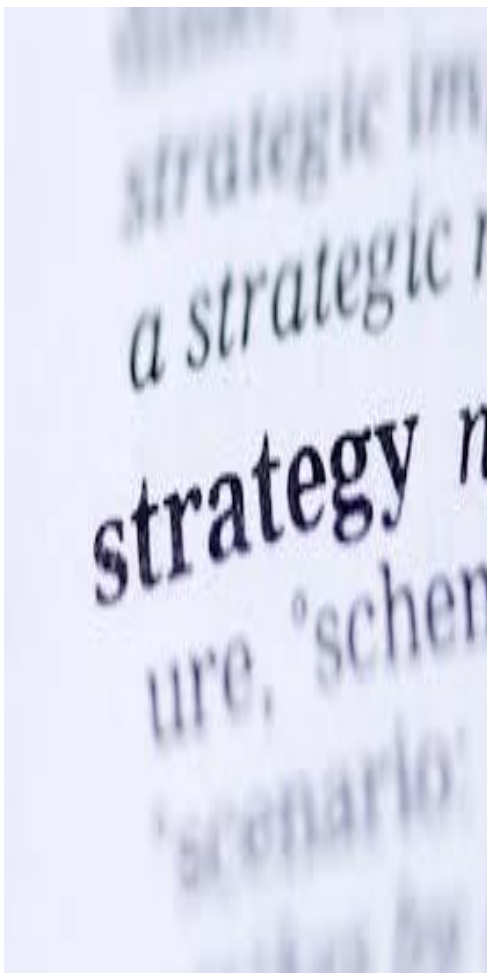
Desafio Societal 4 - *Transportes Inteligentes, Ecológicos e Integrados*

Luís Maia (luis.maia@ani.pt)



DS4 – Programa de Trabalhos 2018-2020

Contexto Político – Estratégias e novidades de apoio ao desafio Transportes no Horizonte 2020



- *Em linha com a estratégia do Livro Branco dos Transportes (targets 2030 e 2050)*
- *Agendas estratégicas das plataformas tecnológicas europeias*
- *Cooperação internacional (EUA, China, Brazil, África, etc.)*

Funding & tender opportunities - Programa de Trabalhos Transportes

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/h2020>

Funding & tender opportunities
Single Electronic Data Interchange Area (SEDIA)

SEARCH FUNDING & TENDERS HOW TO PARTICIPATE PROJECTS & RESULTS WORK AS AN EXPERT

Horizon 2020 Framework Programme (H2020)

Filter by programme:
Horizon 2020 Framework Programme (H2020)
Clear filter

Reference Documents

This page includes reference documents of model grant agreements and guides for special...

Filter

- Legislation
- Work Programmes
 - 2014-15
 - 2016-17
 - 2018-20
 - Main WP
 - General Annexes to the Main WP
 - European Research Council
 - Euratom

Funding & tender opportunities
Single Electronic Data Interchange Area (SEDIA)

SEARCH FUNDING & TENDERS HOW TO PARTICIPATE PROJECTS & RESULTS WORK AS AN EXPERT SUPPORT

Horizon 2020 Framework Programme (H2020)

Type your Keywords or CPV code...
Match whole words only
GRANTS TENDERS

Filter by submission status
FORTHCOMING OPEN CLOSED

Filter by programme (only for grants)
H2020

Filter by programme part
Smart, green and integrated transport

Filter by focus area
Select a Focus area...

Filter by cross-cutting priority
Select a Priority...

Filter by call

Funding and tenders

Sort by: opening date
112 results

Download all funding and tender opportunities to your calendar or subscribe to the RSS feed

See all calls for tenders published by EC

- Grant** FutureEnginePrize-01-2016 H2020-FutureEnginePrize-2016
Types of action: Inducement Prize | Programme: Horizon 2020
Open for submission
Opening date: 20 April 2020
- Grant** Integrated mobility management (I2M), Energy and Noise & Vibration
Types of action: Innovation Action Lump-Sum | Programme: Horizon 2020
Open for submission
Opening date: 15 January 2020
- Grant** Development of new technological concepts towards the next generation of road vehicles, Running Gear, Brakes, Doors, Modular Interiors and HVAC
Types of action: Innovation Action Lump-Sum | Programme: Horizon 2020
Open for submission
Opening date: 15 January 2020

→ Work Programme SC4

→ SC4 → Smart, Green and Integrated Transport



Estrutura do Programa de Trabalhos Transportes 2020



Smart, green and integrated transport

Call	2020 (M€)
Mobility for Growth	191,0
Automated Road Transport	50,0
Green Vehicles	55,0
TOTAL	296,0

Estrutura do Programa de Trabalhos Transportes 2020

- *Calls for proposals*

- **MG - Mobility for Growth:**

- 1. BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: LOW-CARBON AND SUSTAINABLE TRANSPORT;
 - 2. SAFE, INTEGRATED AND RESILIENT TRANSPORT SYSTEMS;
 - 3. GLOBAL LEADERSHIP AND COMPETITIVENESS;
 - 4. ACCOUNTING FOR THE PEOPLE;
 - BLUE GROWTH.

- **ART - Automated Road Transport**

- **GV - Green Vehicles**

- *Financial contribution to the Call “Next-Generation Batteries”*

- *Other actions*

- Prizes, tenders, etc.



Programa de Trabalhos de Transportes 2020

MOBILITY FOR GROWTH – 21 TÓPICOS

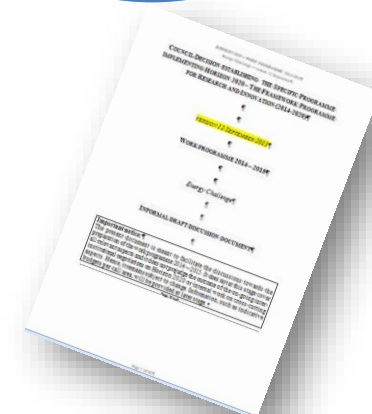


*Work Programme
2018-2020
– Smart, Green
and Integrated
Transports*

AUTOMATED ROAD TRANSPORT– 2 TÓPICOS



GREEN VEHICLES – 4 TÓPICOS



Call Mobility for Growth

Call MOBILITY FOR GROWTH (2020) | 191,00 M€



1. BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: LOW-CARBON AND SUSTAINABLE TRANSPORT		Action	EU contribution	Budget
LC-MG-1-12-2020	Cities as climate-resilient, connected multimodal nodes for smart and clean mobility: new approaches towards demonstrating and testing innovative solutions	IA	7-9 M€	18 M€
LC-MG-1-12-2020	Cities as climate-resilient, connected multimodal nodes for smart and clean mobility: new approaches towards demonstrating and testing innovative solutions	CSA	1-1,5 M€	4 M€
LC-MG-1-12-2020	Cities as climate-resilient, connected multimodal nodes for smart and clean mobility: new approaches towards demonstrating and testing innovative solutions	CSA	1-1,5 M€	



Call MOBILITY FOR GROWTH (2020) | 191,00 M€



1. BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: LOW-CARBON AND SUSTAINABLE TRANSPORT		Action	EU contribution	Budget
LC-MG-1-13-2020	Decarbonising long distance shipping	RIA	5-10 M€	20 M€
LC-MG-1.14-2020	Understanding and mitigating the effects on public health of emerging non-regulated nanoparticle emissions issues and noise	RIA	3-4 M€	10 M€
LC-MG-1-15-2020	Towards global environmental regulation of supersonic aviation	RIA	3-5 M€	13 M€



Call MOBILITY FOR GROWTH (2020) | 191,00 M€



2. SAFE, INTEGRATED AND RESILIENT TRANSPORT SYSTEMS		Action	EU contribution	Budget
MG-2-10-2020	Enhancing coordination between Member States' actions in the area of infrastructure research with a particular focus on biodiversity and ameliorating environmental impacts and full automated infrastructure upgrade and maintenance	RIA	4-5 M€	17 M€
MG-2-10-2020	Enhancing coordination between Member States' actions in the area of infrastructure research with a particular focus on biodiversity and ameliorating environmental impacts and full automated infrastructure upgrade and maintenance	CSA	2,5-3 M€	3 M€
MG-2-11-2020	Network and traffic management for future mobility	RIA	4-5 M€	20 M€



Call MOBILITY FOR GROWTH (2020) | 191,00 M€



2. SAFE, INTEGRATED AND RESILIENT TRANSPORT SYSTEMS

		Action	EU contribution	Budget
MG-2-12-2020	Improving road safety by effectively monitoring working patterns and overall fitness of drivers	RIA	3-3,5 M€	7 M€
MG-2-13-2020	Coordination and support for an integrated freight transport and logistics system	CSA	1 M€	1 M€
MG-2-14-2020	The effects of automation on the transport labour force, future working conditions and skills requirements	CSA	2-2,5 M€	2,5 M€



Call MOBILITY FOR GROWTH (2020) | 191,00 M€



3. GLOBAL LEADERSHIP AND COMPETITIVENESS	Action	EU contribution	Budget	
MG-3-4-2020	Innovative electric network architectures and systems, optimising global energy, electrical power, data and communication for aviation	RIA	2-4 M€	10 M€
MG-3-5-2020	Next generation multifunctional and intelligent airframe and engine parts, with emphasis on manufacturing, maintenance and recycling	RIA	3-5 M€	15 M€
MG-3-6-2020	Towards sustainable urban air mobility	RIA	4-6 M€	15 M€



Call MOBILITY FOR GROWTH (2020) | 191,00 M€



3. GLOBAL LEADERSHIP AND COMPETITIVENESS		Action	EU contribution	Budget
MG-3-7-2020	Improved Production and Maintenance Processes in Shipyards	IA	4-6 M€	15 M€
MG-3-8-2020	'First of a Kind' solutions for sustainable transport and mobility: EU initiative for accelerating EU-wide market access, scale up and derisking	CSA	1-1,5 M€	1,5 M€



Call MOBILITY FOR GROWTH (2020) | 191,00 M€



4. ACCOUNTING FOR THE PEOPLE		Action	EU contribution	Budget
LC-MG-4-7-2020	Digitalisation of the transport system: data sharing	RIA	2-3 M€	3 M€
LC-MG-4-8-2020	Advanced research methods and tools in support of transport/mobility researchers, planners and policy makers	RIA	1-2 M€	3 M€
LC-MG-4-9-2020	The European mobility culture of tomorrow: Reinventing the wheel?	RIA-LS	0,5-1 M€	1 M€
LC-MG-4-10-2020	Improving impact and broadening stakeholder engagement in support of transport research and innovation	CSA	0,7-2 M€	4 M€



Call MOBILITY FOR GROWTH (2020) | 191,00 M€



BLUE GROWTH		Action	EU contribution	Budget
MG-BG-03-2020	Under water noise mitigation and environmental impact	RIA	8 M€	8 M€



Call Automated Road Transport

Call AUTOMATED ROAD TRANSPORT (2020)

50,00 M€



AUTOMATED ROAD TRANSPORT		Action	EU contribution	Budget
DT-ART-05-2020	Efficient and safe connected and automated heavy-duty vehicles in real logistics operations	IA	15-20 M€	20 M€
DT-ART-06-2020	Large-scale, cross-border demonstration of connected and highly automated driving functions for passenger cars	IA	15-30 M€	30 M€

Call Green Vehicles

Call GREEN VEHICLES (2020)

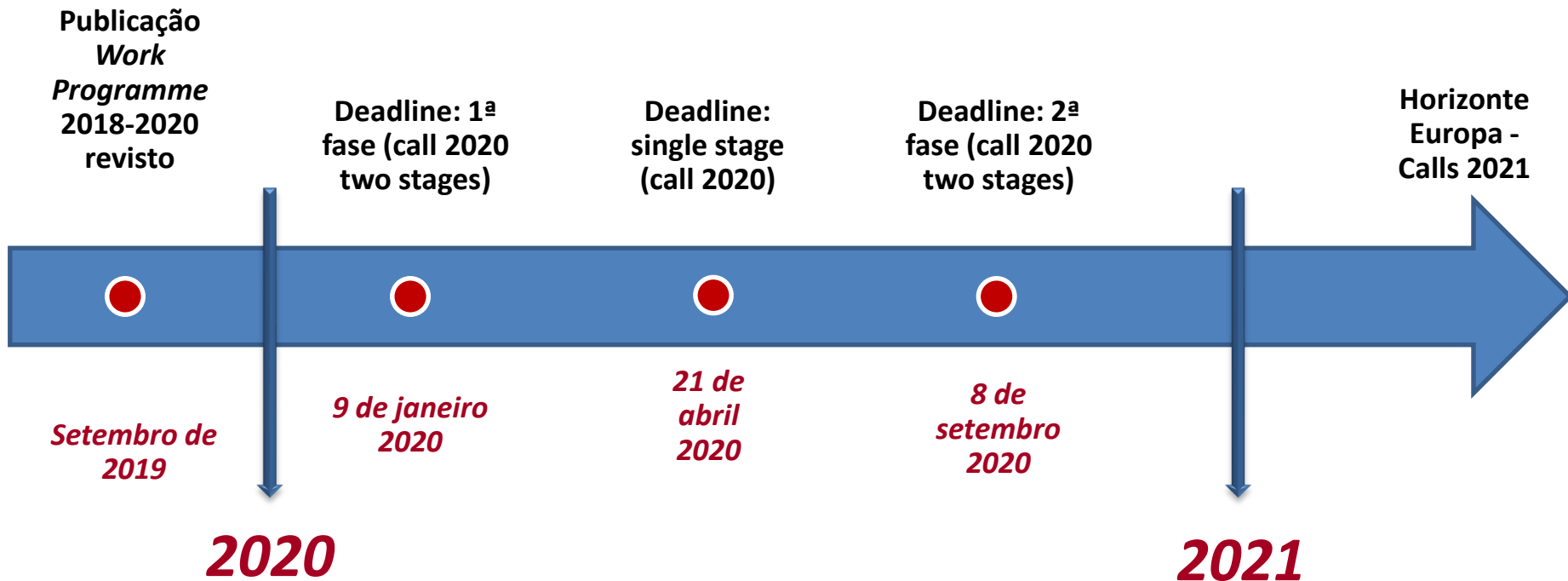
55,00 M€



GREEN VEHICLES		Action	EU contribution	Budget
LC-GV-06-2020	Advanced light materials and their production processes for automotive applications	IA	3-5 M€	24 M€
LC-GV-07-2020	Reducing the environmental impact of hybrid light duty vehicles	IA	3-5 M€	5 M€
LC-GV-08-2020	Next generation electrified vehicles for urban and suburban use	IA	1-6 M€	25 M€
LC-GV-09-2020	Setting up a common European research and innovation strategy for the future of road transport	CSA	0,8-1 M€	1 M€



Calendário para 2020



JUs no DS4

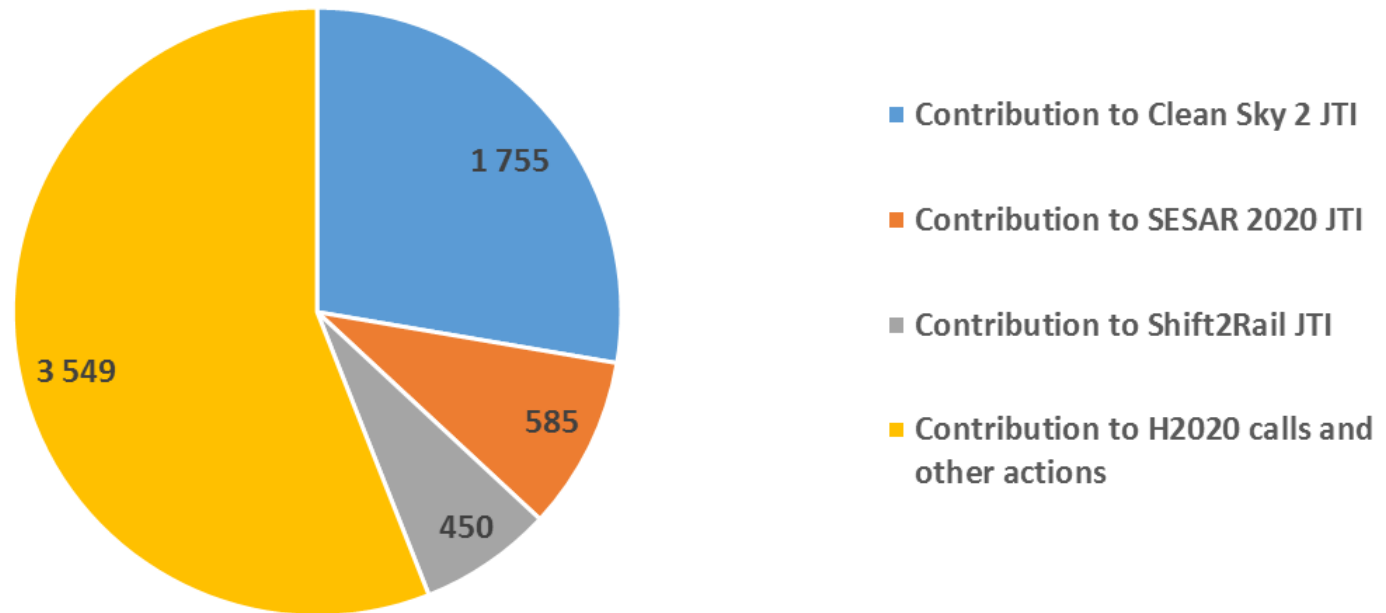
As JUs financiadas pelo DS4

- Existem **3 Joint Undertakings (JUs)** financiadas no âmbito do Desafio Societal 4 (DS4) do H2020:
 - **Clean Sky 2** – dedicada à área da aviação
 - **SESAR 2020** – dedicada ao controlo de tráfego aéreo (ATM)
 - **Shift2Rail** – dedicada à área da ferrovia
- As JUs são parcerias público privadas (**PPPs**) entre a **Comissão Europeia e a indústria europeia** – financiamento partilhado
- As JUs têm em geral regras próprias, ainda que as *calls* funcionem de modo similar às calls do H2020 – é fácil concorrer



As JUs financiadas pelo DS4

EC contribution to DS4 - Smart, green and integrated transport - 6 339 (M€)



- **JU dedicada ao desenvolvimento de novas tecnologias aeronáuticas:**
www.cleansky.eu
- **16 líderes europeus do setor aeronáutico lideram 9 módulos:**
 - **3 *Innovative Aircraft Demonstrator Platforms (IADPs)***
 - **3 *Integrated Technology Demonstrators (ITDs)***
 - **2 *Transverse Activities***
 - **1 *Technology Evaluator (TE)***



Technology Evaluator

What is the value of technology developed under Clean Sky?



Large Passenger Aircraft

What is a Large Passenger Aircraft and what are the challenges?



Regional Aircraft

What is a Regional Aircraft and what are the challenges?



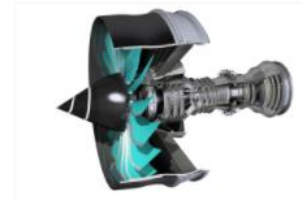
Fast Rotorcraft

Rotorcraft, "fast" rotorcraft, and what are the key challenges?



Airframe

What is the Airframe ITD and what are the challenges?



Engines

What is the Engines ITD and what are the challenges?



Systems

What are Systems and what are the challenges?



Small Air Transport

What is a Small Air Transport and what are the challenges?



Eco-Design

What is Eco-Design and what are the challenges ?

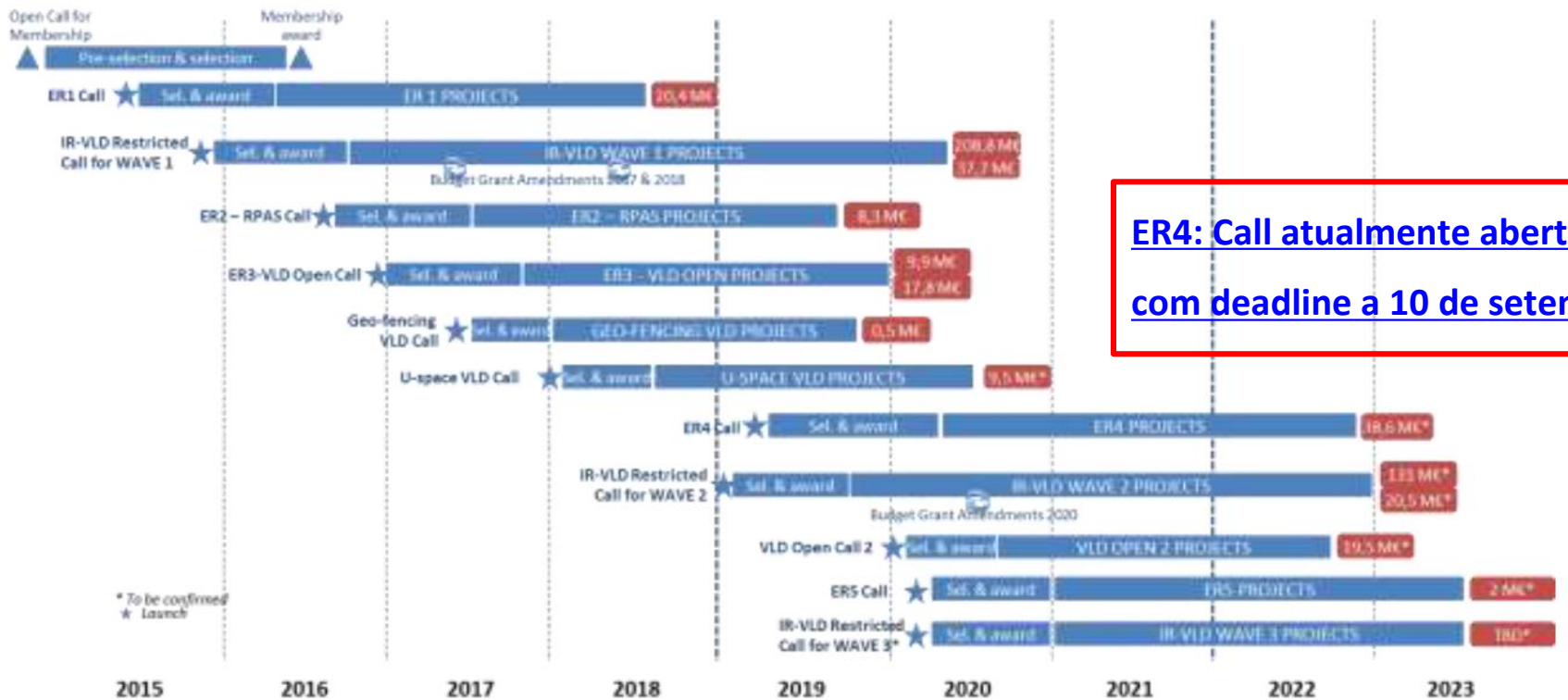
O Clean Sky 2 publica 2 tipos de *calls*, nomeadamente:

- ***Calls for Core Partners (CPWs)*** – já não serão publicadas mais *calls* deste tipo
- **Calls for proposals (CfPs):**
 - **CfP10: Call atualmente aberta, com deadline a 3 de setembro**
- As propostas para CfPs têm algumas regras específicas, nomeadamente o facto de as entidades poderem concorrer sozinhas

- JU que tem como **objetivo modernizar a gestão de tráfego aéreo (ATM - *Air Traffic Management*) na Europa**
- A tarefa essencial da SJU é a **execução do Plano Diretor Europeu de Gestão de Tráfego Aéreo (ATM Master Plan)** para a implementação da nova geração de sistemas ATM
- O acompanhamento institucional do SESAR em Portugal compete à Autoridade Nacional de Aviação Civil (ANAC)

- Single Programming Document - Year 2019-2021:

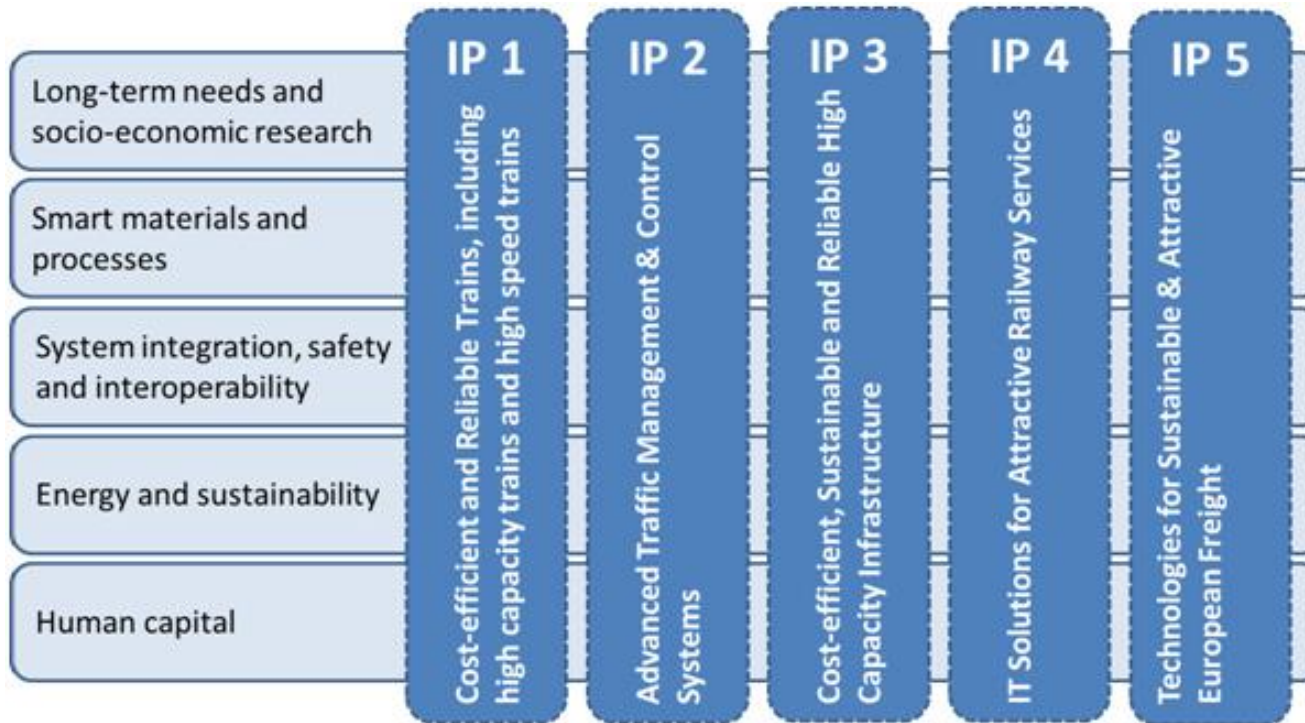
<https://www.sesarju.eu/sites/default/files/documents/adb/2018/SJU%20Single%20Programmin%20Document%202019-2021.pdf>



ER4: Call atualmente aberta, com deadline a 10 de setembro

- Esta JU é a primeira iniciativa ferroviária europeia que procura soluções focadas em investigação e inovação (I&I) orientadas para o mercado - **todo o financiamento do H2020 dedicado à ferrovia está alocado ao Shift2Rail**
- Tem como objetivo levar ao desenvolvimento da tecnologia necessária para completar a ***Single European Railway Area (SERA)***
- Conta com **28 membros, onde se incluem a UE, operadores ferroviários, gestores de infraestruturas ferroviárias**, empresas de outras áreas, bem como universidade e centros de investigação

- As atividades realizadas no âmbito do Shift2Rail estão estruturadas em torno de 5 *Innovation Programmes (IPs)*



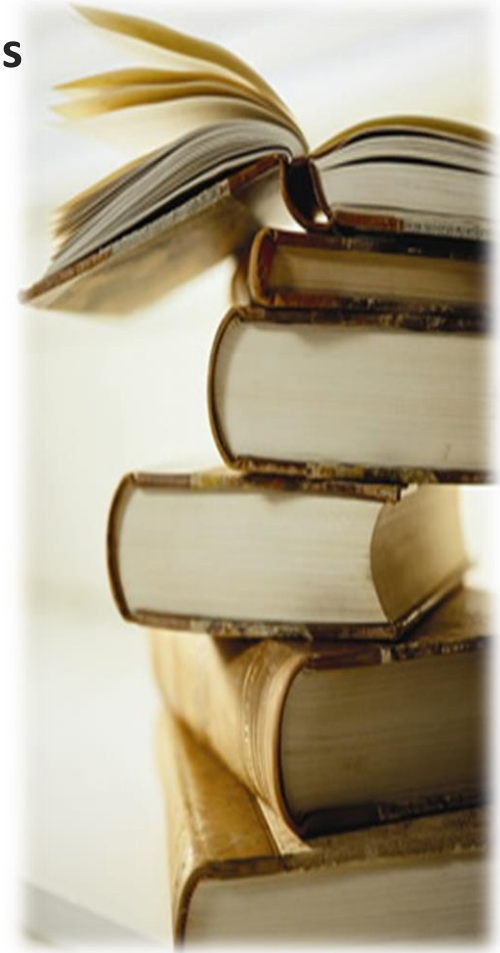
- ***O Shift2Rail publica 2 tipos de calls, nomeadamente:***
 - ***Calls for Members (CFMs)*** – direcionadas apenas para os membros da JU
 - **Open Calls (OPs)** – abertas a todo o tipo de entidades
- **As Calls de 2020 (OPs e CFMs) devem ser publicadas no último trimestre de 2019**
- **Em Portugal, compete ao Instituto da Mobilidade e dos Transportes (IMT) o acompanhamento institucional do Shift2Rail**

Informação adicional

Antes de começar – Documentos chave

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents>

- **“Desafio Societal Transportes” - Programa de Trabalhos**
– enquadramento, tópicos e orçamento
- **Anexos gerais aos programas de trabalho** – lista de países, elegibilidade e condições, critérios de avaliação, procedimento e classificação
- **Work Programmes e Calls das JUs**
- **Formulários de Submissão e Templates** – formulários essenciais e guias para escrever e submeter a proposta
- **Guia de Submissão e processo de avaliação**



Como aumentar as suas probabilidades de sucesso?

- **Fale com os NCPs temáticos** e consulte toda a informação no Participant Portal e GPPQ
- **Participe em eventos nacionais/internacionais** (por ex: Eventos GPPQ; Infodays Horizonte 2020 e da JUs, etc.)
- **Pesquise quem são os atores chaves** e quem tem estado envolvido em projetos anteriores (por ex: cordis database, catálogos de projetos, partner search tools, etc.)
- **Associe-se às [Plataformas Tecnológicas Europeias](#)** (ex: ERTRAC, ACARE, ALICE, ERRAC, Waterborne 2.0)



Infoday de Transportes e Portugal Transport Days

Save The Date for the Horizon 2020 Transport info day: 7 de outubro em Bruxelas

- 09:30 to 15:00: Infoday
- 15:30-18:30: Transport NCP brokerage session

Portugal Transport Days: 8 de outubro em Bruxelas

- Debriefing do Infoday
- Networking
- Pitches



Contactos

DS4 - Transportes Inteligentes, Ecológicos e Integrados

Energia | Transportes
Clean Sky | FCH-JU
SESAR | Shift2Rail



Luís Maia

✉ luis.maia@gppq.pt

☎ +351 93 040 03 80

Questões?