

OPPORTUNITIES FOR COLLABORATIVE PROJECTS WITHIN HORIZON 2020

Smart, Green and Integrated Transport

Juan Francisco Reyes - CDTI
Ferrol, 13 Mayo 2014
(juanfrancisco.reyes@cdti.es)

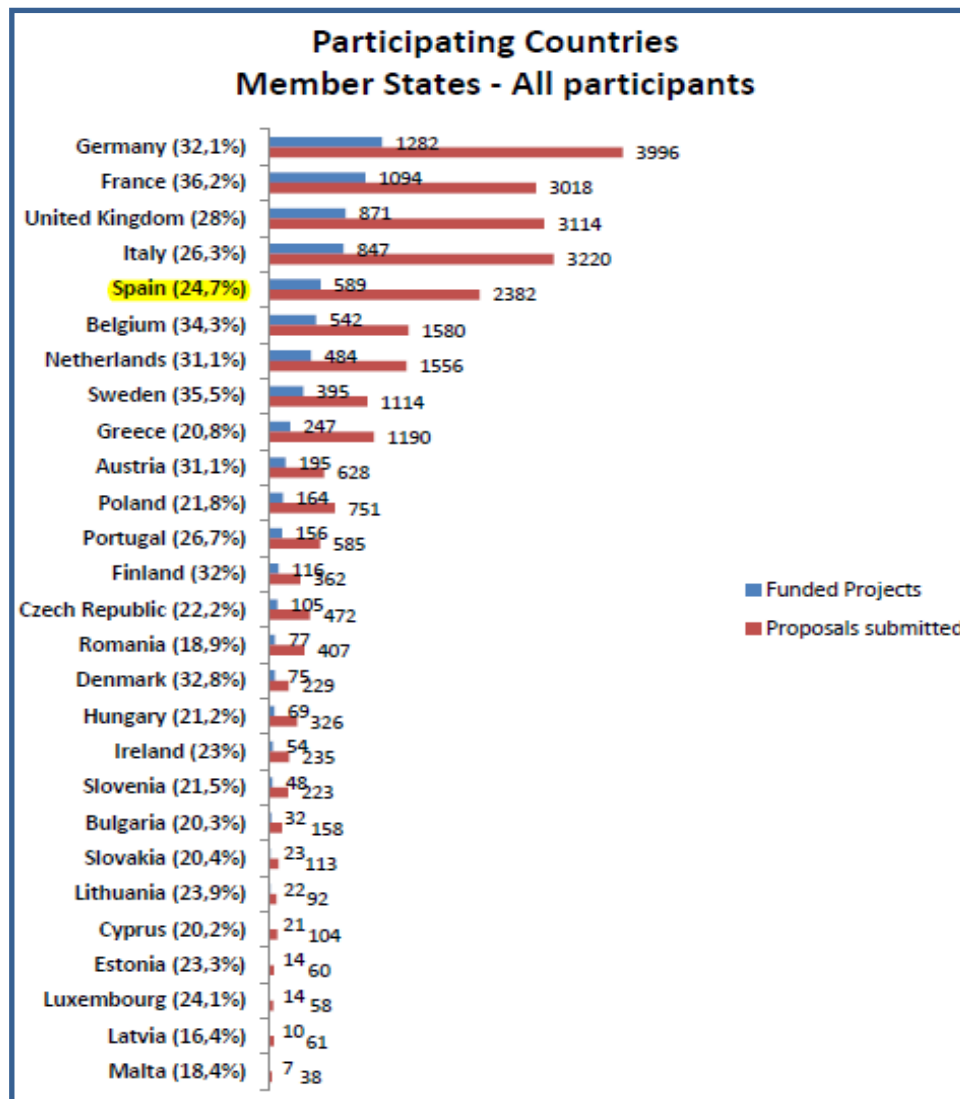
Índice

- Transporte en Horizonte 2020
- Programa de trabajo 2014-2015
- Aspectos prácticos

Resultados FP7 Transporte

5º

España → 5º
país en núm.
participantes

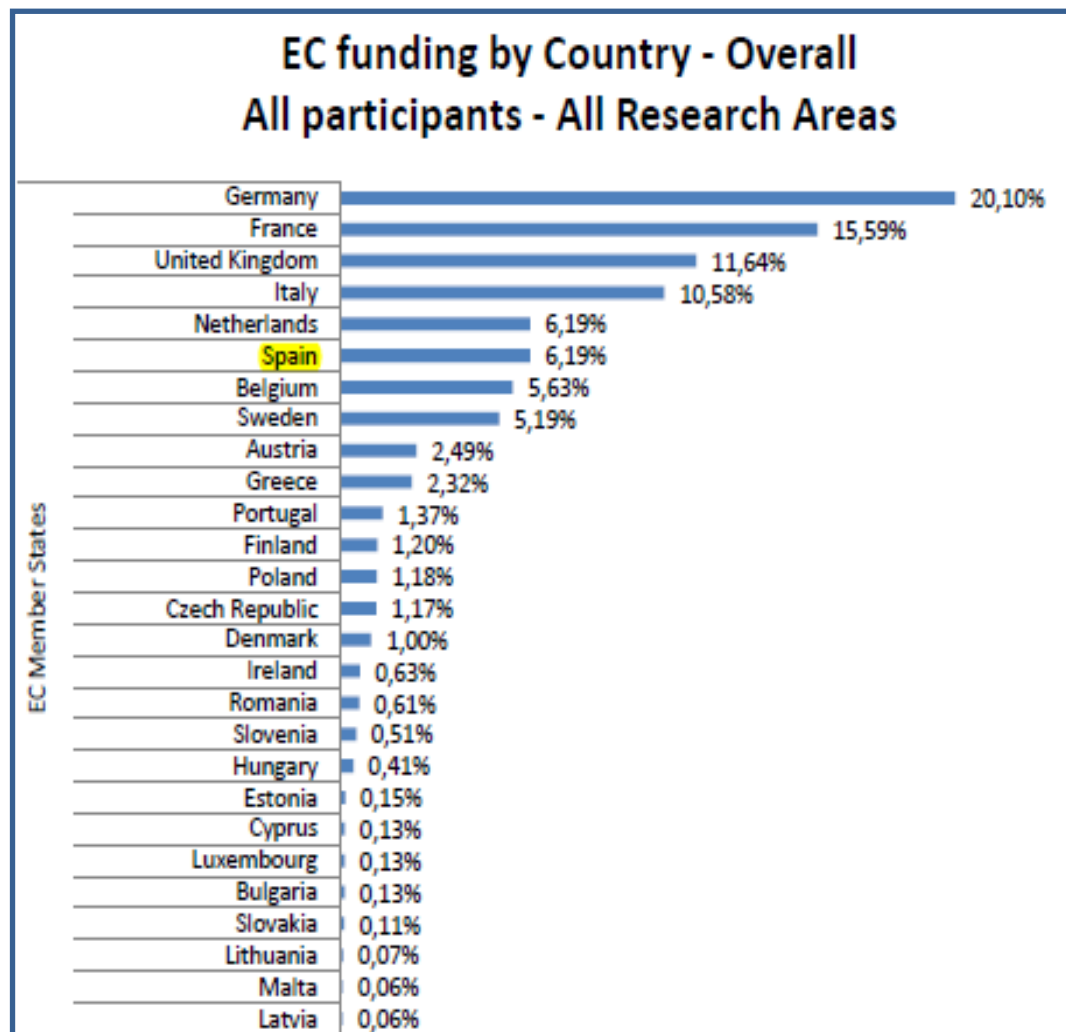


Nota: no incluye datos Clean Sky/SESAR

Resultados FP7 Transporte

5º

España → 5º
país en retorno

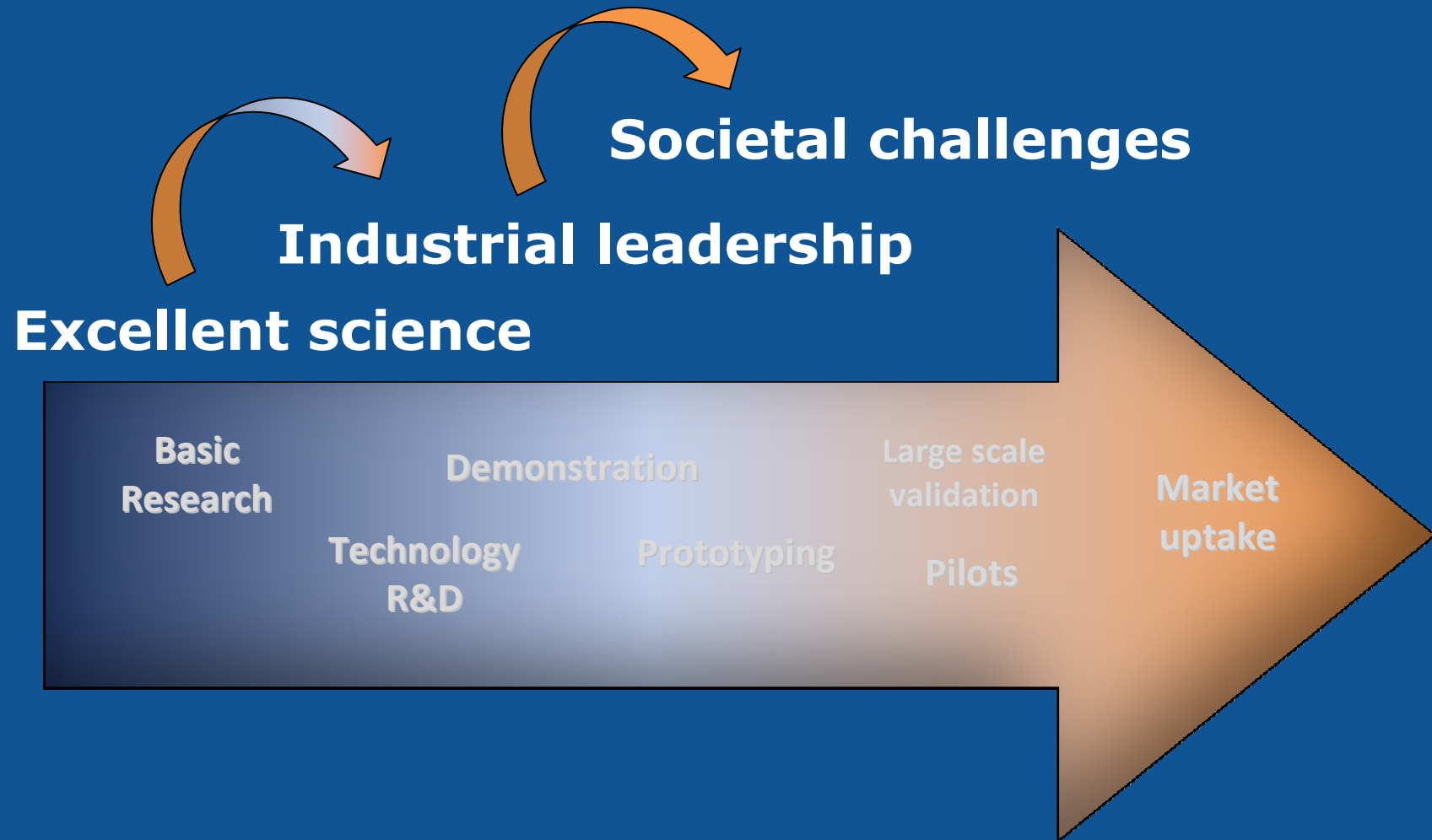


Nota: no incluye datos Clean Sky/SESAR

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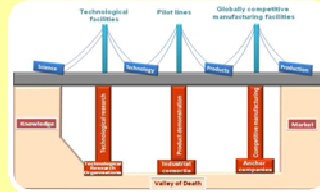
- **Transporte en Horizonte 2020**
- Programa de trabajo 2014-2015
- Aspectos prácticos

Coverage of the full innovation chain



Transporte en Horizonte 2020

Programa Marco de Investigación e Innovación (2014-2020)



Excellent Science

Industrial Leadership

Societal Challenges

European Research Council (ERC)

Future and Emerging Technologies (FET)

Marie Skłodowska-Curie actions on skills, training and career development

European research infrastructures

ICT

Nanotechnology

Biotechnology

Advanced Materials

Advanced Manufacturing & Processing

Space

Access to Risk Finance

Innovation in SMEs

Health, demographic change and wellbeing

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 reflexive societies

Secure Societies: Protecting freedom and security of Europe and its citizens

Transporte en Horizonte 2020

Retos sociales

Salud, cambio demográfico y bienestar	7.472 M€
Seguridad alimentaria, agricultura sostenible, investigación marina y marítima y bioeconomía	3.851 M€
Energía segura, limpia y eficiente	5.931 M€
Transporte inteligente, ecológico e integrado	6.339 M€
Acción por el clima, eficiencia de los recursos y materias primas	3.081 M€
Europa en un mundo en cambio - Sociedades inclusivas, innovadoras y reflexivas	1.310 M€
Sociedades seguras - Protección de la libertad y seguridad de Europa y sus ciudadanos	1.695 M€

Nota: cifras expresadas en condiciones económicas corrientes

Transporte en Horizonte 2020

Transport main policy goals: competitiveness & sustainability

- Innovate to preserve/expand market-shares & jobs (fierce international competition)
- Resource efficiency vs. climate change & oil dependency
- Curb noxious emissions, improve air quality (30% of all CO₂ comes from transport)
- Network capacity & modal shift vs. saturation & congestion (congestion costs: 1 to 2 % of GDP)
- Smart solutions for safety & security (28.000 road fatalities/year in the EU)



Transporte en Horizonte 2020

Enfoque

- Nuevo paradigma -> del transporte a la movilidad
- Basado en los **retos** que afectan al transporte, no en tópicos particulares
- Mayor **libertad** para proponer soluciones innovadoras
- Menos prescriptivo, **tópicos más amplios**
- Énfasis especial en el **impacto** esperado
- Refuerzo de **temas transversales** (ciencias sociales, género, aspectos internacionales, etc.)
- Crisis económica y el camino hacia un **crecimiento sostenible**: Horizonte 2020 puede contribuir de manera significativa

Transporte en Horizonte 2020

Transporte Inteligente, Ecológico e Integrado

El **objetivo** es lograr un sistema europeo de transporte más eficaz en el uso de los recursos, que sea respetuoso con el clima y el medio ambiente y funcione con seguridad y sin fisuras en beneficio de todos los ciudadanos, la economía y la sociedad.

4 áreas generales

SOSTENIBILIDAD



INTEGRACIÓN



COMPETITIVIDAD



INVESTIGACIÓN SOCIO-ECONÓMICA

Transporte en Horizonte 2020

Transporte Inteligente, Ecológico e Integrado



SOSTENIBILIDAD

“Un transporte eficiente en el uso de los recursos y que respeta el medio ambiente”

- **Vehículos más limpios y silenciosos**
 - o Tecnologías de propulsión más limpias y silenciosas
 - o Energías alternativas con emisiones bajas
 - o Materiales más ligeros, estructuras más sencillas
- **Equipos, infraestructuras y servicios inteligentes**
- **Mejora de transporte y movilidad en zonas urbanas**

Transporte en Horizonte 2020

Transporte Inteligente, Ecológico e Integrado



INTEGRACIÓN

“Mejor movilidad, menor congestión, mayor seguridad”

- **Disminución sustancial de la congestión del tráfico**
- **Mejoras de la movilidad de personas y mercancías**
 - o Tecnologías innovadoras para la gestión del tráfico aéreo
 - o Tecnologías de planificación y gestión del transporte marítimo
 - o Optimización de la gestión e interoperabilidad de la red de transporte por carretera y ferrocarril
- **Nuevos conceptos de transporte de mercancías y logística**
- **Reducción de las tasas de accidentes, del número de heridos y víctimas mortales y mejora de la seguridad**

Transporte en Horizonte 2020

Transporte Inteligente, Ecológico e Integrado



COMPETITIVIDAD

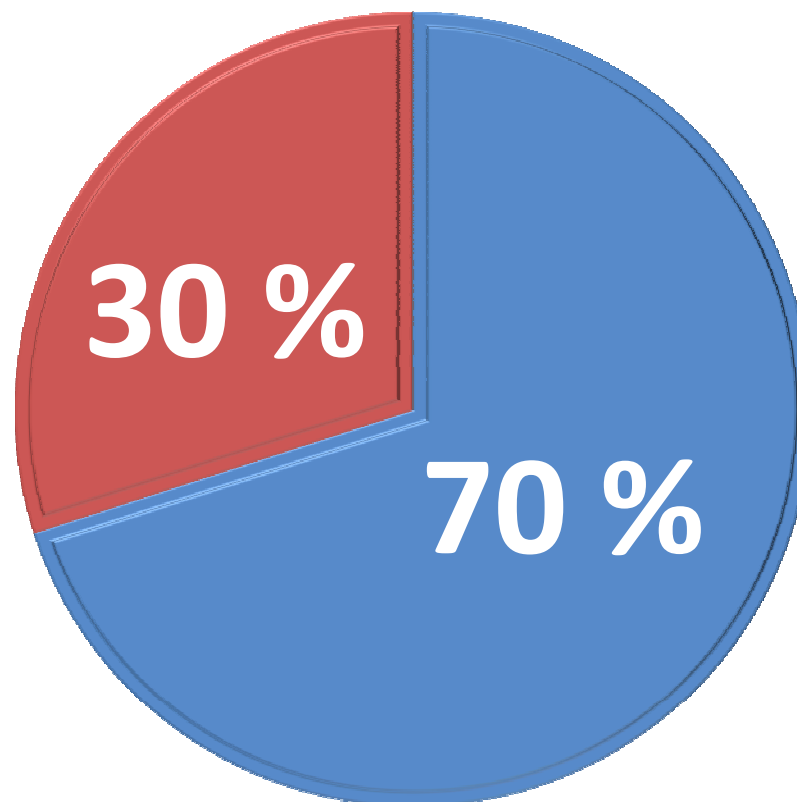
“Liderazgo mundial para la industria europea del transporte”

- Desarrollo de la próxima generación de medios de transporte
- Sistemas inteligentes de control a bordo
- Procesos de producción avanzados
- Exploración de conceptos de transporte completamente nuevos

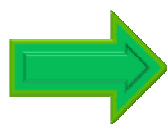
Transporte en Horizonte 2020

Gobernanza - Presupuesto

DG MOVE
(sistemas de
transporte)



DG RTD
(medios de
transporte)



6 % del presupuesto delegado a **DG CONNECT**
(aplicaciones ICT para transporte)

Transporte en Horizonte 2020

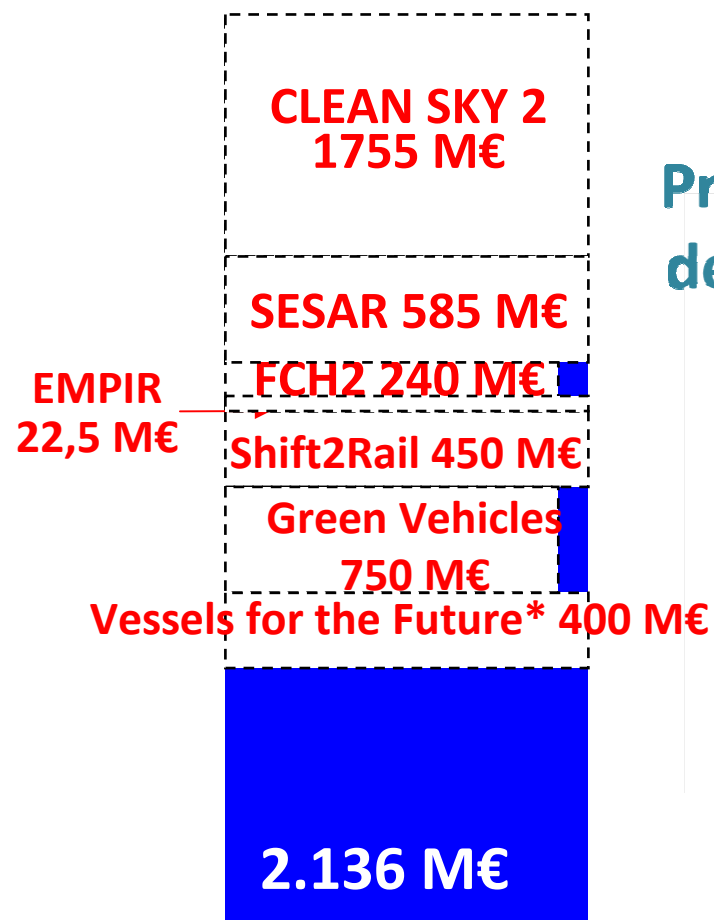
Grandes iniciativas

	Nombre	Tipo	Alcance	Aportación CE (M€)	Estado
	Clean Sky 2	JTI	Construcción aeronáutica	1.755	Prevista adopción Consejo mayo 2014
	SESAR	JU	Gestión del tráfico aéreo	585	Prevista adopción Consejo mayo 2014
	European Green Vehicles Initiative	PPP	Vehículos ecológicos	750	Firmado MoU
	Shift2Rail	JTI	Transporte ferroviario	450	Prevista adopción Consejo junio 2014
	Vessels for the Future	PPP	Construcción de buques	400	En preparación
	TBD	¿JTI?	Infraestructuras de transporte	TBD	En preparación

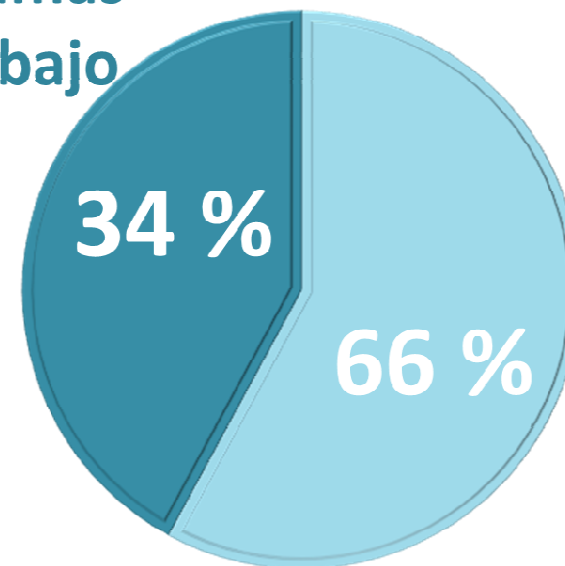
Nota: Cifras expresadas en condiciones económicas corrientes

Transporte en Horizonte 2020

Grandes iniciativas



Programas
de trabajo



Grandes
iniciativas

Nota: Cifras expresadas en condiciones económicas corrientes

(*): En preparación

Transporte en Horizonte 2020

Libro Blanco de Transporte 2011

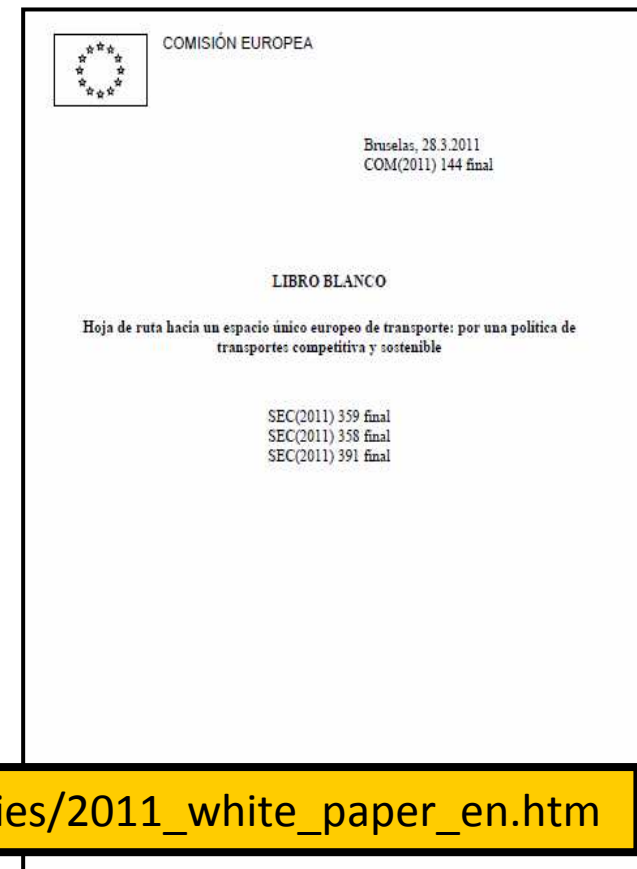
Roadmap to a Single European Transport Area - Towards a competitive and resource efficient transport system



40 concrete initiatives for the next decade to build a competitive transport system that will **increase mobility, remove major barriers** in key areas and **fuel growth** and employment.

By 2050, **key goals** will include:

- No more conventionally-fuelled cars in cities
- 40% use of sustainable low carbon fuels in aviation; at least 40% cut in shipping emissions
- 50% shift of medium distance intercity passenger and freight from road to rail and waterborne transport
- 60% cut in transport emissions



http://ec.europa.eu/transport/themes/strategies/2011_white_paper_en.htm

Transporte en Horizonte 2020

Plataformas tecnológicas europeas



ACARE



WATERBORNE^{TP}



Índice

- Transporte en Horizonte 2020
- **Programa de trabajo 2014-2015**
- Aspectos prácticos

Programa de trabajo 2014-2015

Aspectos generales

- Programa de trabajo bienal con dos convocatorias anuales
- Tópicos 2015 provisionales
- Más variedad de instrumentos de financiación (I+D, premios, compra pública, capital riesgo, etc.) y mayor número de áreas de investigación (aviación, ferroviario, marítimo, carretera, ITS, infraestructuras, etc.)
- Presupuesto total estimado para convocatorias → 881 M€
- Tópicos más amplios, menos prescripción, enfoque en impacto
- 1 tópico = varios proyectos (en la mayoría de casos)
- Sin presupuesto asignado por tópico (en la mayoría de casos)
- Evaluación en 2 etapas para la mayoría de los tópicos

Programa de trabajo 2014-2015

Instrumentos de financiación (1/2)

❖ Research and Innovation Actions (RIA)

- Target: produce new knowledge, explore new technologies/solutions
- Features: min. 3 participants; 100% funding rate

❖ Innovation Actions (IA)

- Target: deployment oriented: demonstration, pilot, prototype, testing, product validation, market replication
- Features: min. 3 participants; 70% funding (100% for non-profit)

❖ Coordination and Support Actions (CSA)

- Target: accompanying measures: coordination, standardization, dissemination, awareness-raising, communication, networking, studies
- Features: 1 or more participants; 100% funding rate

Programa de trabajo 2014-2015

Instrumentos de financiación (1/2)

❖ **Public Procurement of Innovative solutions (PPI co-fund)**

- Target: groups of public procurers, sharing innovation deployment risks
- Features: 20% funding rate; 2 phases: preparation + execution

❖ **Inducement prize**

- Target: result oriented cash incentive to induce cutting edge solutions
- Features: subject to the outcome of an on-going study

❖ **SME instrument**

- Target: innovative SMEs; covers feasibility, R&D, demo, market take-up
- Features: 3 phases:
 1. Concept and feasibility (lump sum 50 k€, ~6 months)
 2. R&D, demo, market replication (1-5 M€, 12-24 months)
 3. Commercialisation (SME window in loan & equity schemes)

❖ **Fast Track to Innovation**

- Target: increase participation of industry, SMEs, first time applicants
- Features: pilot in 2015; 1-5 participants; grants up to 3 M€.

Programa de trabajo 2014-2015

Estructura del topic (1/4)

Título	GV.3-2014. Future natural gas powertrains and components for cars and vans
Reto específico	<u>Specific challenge:</u> The challenge is to reach the fleet level of 95g CO₂/km and 147g CO₂/km emissions targets for passenger cars and light duty commercial vehicles respectively (according to the new Worldwide harmonised Light Vehicle Test Procedure), through the development of advanced engine and after-treatment concepts adapted and optimised to use natural gas. Significant reductions in terms of real driving emissions of NO_x and PM are also expected. The technology needs to be competitive with respect to current vehicles using conventional fuels. Therefore the challenge can only be reached if vehicles demonstrate a driving range of at least 600 km with no space penalty in comparison to gasoline vehicles.
Alcance	<u>Scope:</u> Proposals should focus on any combination of combustion process optimisation, variable compression, control systems, dual fuel operation, optimised fuel injection, adaptive systems and sensors to cope with different qualities and blends, after-treatment systems, advanced fuel tanks, ancillaries and overall powertrain optimisation. The Commission considers that proposals requesting a contribution from the EU of between EUR 10 to 20 million each would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.
Impacto esperado	<u>Expected impact:</u> One demonstrator vehicle per platform/technology will prove, by independent testing, real driving emissions at least below upcoming Euro 6 limits, and will confirm the achievement of a reduction of at least 20% in CO₂ emission levels (including CO₂ equivalent unburned methane and N₂O) compared with the best vehicles on the market in 2013. The research will develop technologies needed to progress towards the establishment of a future 'Super Low Emission Vehicles' standard with emission targets which are ambitiously lower than Euro 6.
Instrumento	<u>Type of action:</u> Innovation Actions

Programa de trabajo 2014-2015

Estructura del topic (2/4)

Título	GV.3-2014. Future natural gas powertrains and components for cars and vans
Reto específico	Specific challenge: The challenge is to reach the fleet level of 95g CO₂/km and 147g CO₂/km emissions targets for passenger cars and light duty commercial vehicles respectively (according to the new Worldwide harmonised Light Vehicle Test Procedure), through the development of advanced engine and after-treatment concepts adapted and optimised to use natural gas. Significant reductions in terms of real driving emissions of NO_x and PM are also expected. The technology needs to be competitive with respect to current vehicles using conventional fuels. Therefore the challenge can only be reached if vehicles demonstrate a driving range of at least 600 km with no space penalty in comparison to gasoline vehicles.
Sets the context, the problem to be addressed, why intervention is necessary	

Programa de trabajo 2014-2015

Estructura del topic (3/4)

Título

GV.3-2014. Future natural gas powertrains and components for cars and vans

Delineates the problem, specifies the focus and the boundaries of the potential action BUT **without overly describing specific approaches**

Alcance

at least 600 km with no space penalty in comparison to gasoline vehicles.

Scope: Proposals should focus on any combination of combustion process optimisation, variable compression, control systems, dual fuel operation, optimised fuel injection, adaptive systems and sensors to cope with different qualities and blends, after-treatment systems, advanced fuel tanks, ancillaries and overall powertrain optimisation.

The Commission considers that proposals requesting a contribution from the EU of between EUR 10 to 20 million each would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected impact: One demonstrator vehicle per platform/technology will prove by

Includes EU contribution expected BUT **without precluding submission and selection of proposals requesting other amounts**

Programa de trabajo 2014-2015

Estructura del topic (4/4)

Título	GV.3-2014. Future natural gas powertrains and components for cars and vans
	Describes the key elements of what is expected to be achieved in relation to the specific challenge
Impacto esperado	<u>Expected impact:</u> One demonstrator vehicle per platform/technology will prove, by independent testing, real driving emissions at least below upcoming Euro 6 limits, and will confirm the achievement of a reduction of at least 20% in CO₂ emission levels (including CO₂ equivalent unburned methane and N₂O) compared with the best vehicles on the market in 2013. The research will develop technologies needed to progress towards the establishment of a future 'Super Low Emission Vehicles' standard with emission targets which are ambitiously lower than Euro 6.
Instrumento	<u>Type of action:</u> Innovation Actions

Programa de trabajo 2014-2015

Evaluación

Continuidad:

- Criterios → Excelencia, Implementación, Impacto
- Notas entre 0 – 5 por criterio (0 = sin cubrir, 5 = excelente)
- Se pueden usar medios puntos

Novedades:

- Evaluación en 2 etapas (sólo para algunos tópicos)
- Criterio “Impacto” → peso de 1,5 para las Acciones de Innovación (IAs) e Instrumento PYME

Umbrales de evaluación

- Stage 1 (RIAs and IAs):
(max. 15 pages)

Criteria 1 (Excellence)	4 out of 5
Criteria 2 (Implementation)	NA
Criteria 3 (Impact)	4 out of 5
Overall	8 out of 10 → OUTCOME: GO/NO GO

Programa de trabajo 2014-2015

Evaluación

Continuidad:

- Criterios → Excelencia, Implementación, Impacto
- Notas entre 0 – 5 por criterio (0 = sin cubrir, 5 = excelente)
- Se pueden usar medios puntos

Novedades:

- Evaluación en 2 etapas (sólo para algunos tópicos)
- Criterio “Impacto” → peso de 1,5 para las Acciones de Innovación (IAs) e Instrumento PYME

Umbrales de evaluación

- Stage 1 (RIAs and IAs): (max. 15 pages)	Criteria 1 (Excellence)	4 out of 5	→ OUTCOME: GO/NO GO
	Criteria 2 (Implementation)	NA	
	Criteria 3 (Impact)	4 out of 5	
	Overall	8 out of 10	
- Stage 2 (RIAs and IAs*):	Criteria 1 (Excellence)	3 out of 5	
- Single stage (RIAs and IAs*):	Criteria 2 (Implementation)	3 out of 5	
- CSAs*:	Criteria 3 (Impact*)	3 out of 5	
	Overall	10 out of 15	

Programa de trabajo 2014-2015

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
2. Rail → 3 tópicos
3. Road → 6 tópicos
4. Waterborne → 4 tópicos
5. Urban Mobility → 5 tópicos
6. Logistics → 3 tópicos
7. Intelligent Transport Systems (ITS) → 2 tópicos
8. Infrastructures → 4 tópicos
9. Socio-economic → 7 tópicos

GREEN VEHICLES → 8 tópicos

SMEs ~~AND FAST TRACK~~ → 2 tópicos

OTHER ACTIONS → 4 tópicos

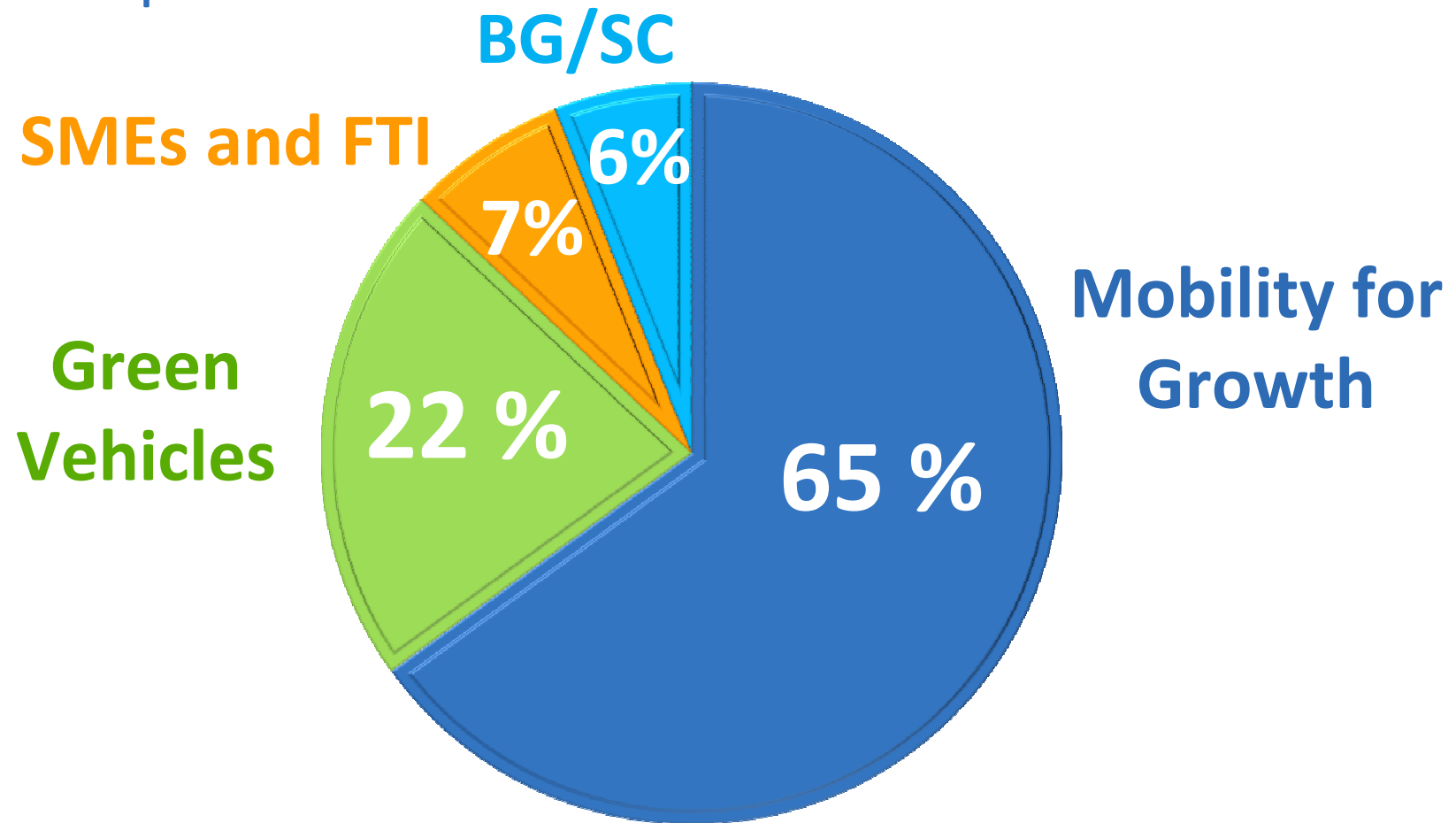
Programa de trabajo 2014-2015

Presupuesto 2014

CONVOCATORIAS	M€
Mobility for Growth	374.5
Green Vehicles	129.0
Small business Innovation for transport	35.9
Blue Growth (Transport contribution)	15.0
Smart Cities (Transport contribution)	18.5
Other actions (public procurement)	2.0
TOTAL	574.9

Transporte en Horizonte 2020

Programas de trabajo – Distribución del presupuesto



Nota: reparto indicativo en base a presupuesto 2014

Programa de trabajo 2014-2015

Presupuesto 2015

CONVOCATORIAS	M€
Mobility for Growth	184.5
Green Vehicles	30.0
Small business Innovation for transport	38.9
Fast track to innovation-Pilot	14.7
Blue Growth (Transport contribution)	4.0
Smart Cities (Transport contribution)	21.5
Other actions (public procurement)	5.0
TOTAL	298.6

Programa de trabajo 2014-2015

Fechas

➤ **Publicación programa de trabajo:** 11 diciembre 2013

➤ **Deadlines** → depende del tópico.

➤ Para la call 2014:

- Tópicos 1-stage: 27/03/2014 o 28/08/2014
- Tópicos 2-stage: 1ª etapa 18/03/2014, 2ª etapa 28/08/2014

- MG 3.5 (CSA)
- MG 7.2 (CSA)
- MG8.1 (CSA)
- MG 8.2 (CSA)
- MG 9.6
- Convocatoria Green vehicles

- Single stage
- Deadline: 28/08/2014

➤ Para la call 2015 (adopción estimada 22 Julio):

- Tópicos 1-stage: 23/04/2015 o 15/10/2015
- Tópicos 2-stage: 1ª etapa 23/04/2015, 2ª etapa 15/10/2015

➤ **Instrumento PYME:**

- Apertura de la convocatoria: 01/03/2014 (fases 1 y 2)
- Fechas de corte call 2014:
 - Fase 1 → 18/06, 24/09, 17/12
 - Fase 2 → 09/10, 17/12

Programa de trabajo 2014-2015

Mobility for Growth – Aviation (1/2)

AVIATION

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
2. Rail → 3 tópicos
3. Road → 6 tópicos
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GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

➤ EUROPE NEEDS:

- Medium to long-term research & innovation actions with a bottom-up approach for innovative technologies, complementing those carried out under Clean Sky and SESAR
- Actions to improve the skills & knowledge base of European aviation, to support its R&I policy & to create durable links with targeted international cooperation partners

Programa de trabajo 2014-2015

Mobility for Growth – Aviation (2/2)

➤ TOPICS (in red topics open in 2014):

- Competitiveness of European aviation through cost efficiency and innovation – MG.1.1 - 2014 – 2 stage, RIA
- Enhancing resource efficiency of aviation – MG.1.2 - 2015 – 2 stage, RIA
- Seamless and customer oriented air mobility – MG.1.3 - 2014 – 2 stage, RIA
- Coordinated research and innovation actions targeting the highest levels of safety for European aviation - MG.1.4 - 2014 – 1 stage, RIA
- Breakthrough innovation for European aviation – MG.1.5 - 2014 – 2 stage, RIA
- Improving skills and knowledge base in European aviation – MG.1.6 - 2014 – 1 stage, CSA
- Support to European aviation R&I policy – MG.1.7 - 2014 – 1 stage, CSA
- International cooperation in aeronautics – MG.1.8 - 2014 – 1 stage, CSA; 2015 – 1 stage
- Developing a public European environmental modelling suite for aviation (**under 'Other Actions' in WP) Tender – OA.1 – 2014**

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
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9. Socio-economic → 7 tópicos

GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

Programa de trabajo 2014-2015

Mobility for Growth – Rail (1/2)

RAIL

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
2. Rail → 3 tópicos
3. Road → 6 tópicos
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9. Socio-economic → 7 tópicos

GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

➤ EUROPE NEEDS:

- Radical progress in service, costs, interoperability, capacity, noise reduction & competitiveness, and further developments in terms of carbon footprint
- Novel business, organizational & logistics solutions, new partnerships with service & technology providers from more advanced sectors
- New technologies in all rail segments, services infrastructure

Programa de trabajo 2014-2015

Mobility for Growth – Rail (2/2)

➤ TOPICS (in red topics open in 2014):

- Intelligent infrastructure – MG.2.1, RIA
 - Smart rail services – MG.2.2, RIA
 - New generation of rail vehicles – MG.2.3, RIA
- ✓ All are two-stage for 2014
- ✓ Projects will contribute to the objectives of the envisaged 'Shift2Rail' initiative

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
2. Rail → 3 tópicos
3. Road → 6 tópicos
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8. Infrastructures → 4 tópicos
9. Socio-economic → 7 tópicos

GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

Programa de trabajo 2014-2015

Mobility for Growth – Road (1/2)

ROAD

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
2. Rail → 3 tópicos
3. Road → 6 tópicos
4. Waterborne → 4 tópicos
5. Urban Mobility → 5 tópicos
6. Logistics → 3 tópicos
7. Intelligent Transport Systems (ITS) → 2 tópicos
8. Infrastructures → 4 tópicos
9. Socio-economic → 7 tópicos

GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

➤ EUROPE NEEDS:

- R&I for road transport in complement to the ‘Green Vehicles’ call
- Activities in the field of: internal combustion engines; support to air quality policy; safety of road transport; production technology; new vehicle concepts for road & urban transport; and cooperative ITS & automation

Programa de trabajo 2014-2015

Mobility for Growth – Road (2/2)

➤ TOPICS (in red topics open in 2014):

- Technologies for low emission powertrains – MG.3.1- 2014 – 2 stage, IA
- Advanced bus concepts for increased efficiency – MG.3.2 - 2014 – 2 stage, IA
- Global competitiveness of the automotive supply chain management – MG.3.3 - 2014 – 2 stage, RIA
- Traffic safety analysis and integrated approach towards the safety of Vulnerable Road Users – MG.3.4 - 2014 – 2 stage, RIA
- **Cooperative ITS for safe, congestion-free and sustainable mobility – MG.3.5 - 2014 – 2 stage, RIA or single stage CSA**
- Safe and connected automation in road transport – MG.3.6 - 2015 – 2 stage, RIA or CSA
- ~~The cleanest engine (under 'Other Actions' in WP) – OA.4 – 2015 – Inducement prize~~

MOBILITY FOR GROWTH

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GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

Programa de trabajo 2014-2015

Mobility for Growth – Waterborne (1/2)

WATERBORNE

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
2. Rail → 3 tópicos
3. Road → 6 tópicos
4. Waterborne → 4 tópicos
5. Urban Mobility → 5 tópicos
6. Logistics → 3 tópicos
7. Intelligent Transport Systems (ITS) → 2 tópicos
8. Infrastructures → 4 tópicos
9. Socio-economic → 7 tópicos

GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

➤ EUROPE NEEDS:

- A modern, safe, secure & resource efficient waterborne transport system
- Sustainable development: optimal use of energy sources & minimization of environmental impacts
- Competitiveness: creation & deployment of R&I solutions; exploring new frontiers in terms of vessels, operational paradigms & industrial use of oceans

Programa de trabajo 2014-2015

Mobility for Growth – Waterborne (2/2)

➤ TOPICS (in red topics open in 2014):

- Towards the energy efficient and emission free vessel – MG.4.1 - 2014 – 2 stage, IA
- Safer and more efficient waterborne operations through new technologies and smarter traffic management – MG.4.2 - 2014 – 2 stage, IA
- System modelling and life-cycle cost and performance optimisation for waterborne assets – MG.4.3 - 2015 – 2 stage, RIA
- Advancing innovation in the Inland Waterways Transport (IWT) sector – MG.4.4 - 2014 – 2 stage, RIA

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
2. Rail → 3 tópicos
3. Road → 6 tópicos
4. Waterborne → 4 tópicos
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GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

Programa de trabajo 2014-2015

Mobility for Growth – Urban mobility (1/2)

URBAN MOBILITY

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
2. Rail → 3 tópicos
3. Road → 6 tópicos
4. Waterborne → 4 tópicos
5. **Urban Mobility → 5 tópicos**
6. Logistics → 3 tópicos
7. Intelligent Transport Systems (ITS) → 2 tópicos
8. Infrastructures → 4 tópicos
9. Socio-economic → 7 tópicos

GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

- **EUROPE NEEDS:**
- Innovation in resource-efficient & competitive urban mobility & transport ('CIVITAS 2020'):
 - Transformation towards a cleaner & better urban mobility & transport
 - A complementary & integrated R&I approach
 - Framework for coordinated evaluation, dissemination & information exchange
 - Build on legacy (CIVITAS, STEER market take-up...)

Programa de trabajo 2014-2015

Mobility for Growth – Urban mobility (2/2)

➤ TOPICS (in red topics open in 2014):

- Transforming the use of conventionally fuelled vehicles in urban areas – MG.5.1 - 2014 – 2 stage, RIA
- Reducing impacts and costs of freight and service trips in urban areas – MG.5.2 - 2014 – 2 stage, RIA
- Tackling urban road congestion – MG.5.3 - 2014 – 2 stage, RIA
- Strengthening the knowledge and capacities of local authorities – MG.5.4 - 2015 – 2 stage, RIA
 - It mentions explicitly that “covers freight & passenger transport in an integrated way”
- Demonstrating and testing innovative solutions for cleaner and better urban transport and mobility – MG.5.5 - 2015 – Innovation actions: 2 stage; CSA: 1 stage
 - The “multimodal” approach has been explicitly mentioned.

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
2. Rail → 3 tópicos
3. Road → 6 tópicos
4. Waterborne → 4 tópicos
5. Urban Mobility → 5 tópicos
6. Logistics → 3 tópicos
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9. Socio-economic → 7 tópicos

GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

Programa de trabajo 2014-2015

Mobility for Growth – Logistics (1/2)

LOGISTICS

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
2. Rail → 3 tópicos
3. Road → 6 tópicos
4. Waterborne → 4 tópicos
5. Urban Mobility → 5 tópicos
- 6. Logistics → 3 tópicos**
7. Intelligent Transport Systems (ITS) → 2 tópicos
8. Infrastructures → 4 tópicos
9. Socio-economic → 7 tópicos

GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

➤ EUROPE NEEDS:

- To increase efficiency & sustainability in the EU logistics supply chain
- To remove the communication bottlenecks between stakeholders
- To improve the potential for collaboration, the utilization of equipment & connectivity across the transport modes

Programa de trabajo 2014-2015

Mobility for Growth – Logistics (2/2)

- **TOPICS (in red topics open in 2014):**
- **Fostering synergies alongside the supply chain (including e-commerce)**
– MG.6.1 - 2014 – 2 stage, RIA
 - **De-stressing the supply chain –**
MG.6.2 - 2014 – 2 stage, RIA
 - **Common communication and navigation platforms for pan-European logistics applications –**
MG.6.3 - 2015 – 2 stage, RIA

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
2. Rail → 3 tópicos
3. Road → 6 tópicos
4. Waterborne → 4 tópicos
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Programa de trabajo 2014-2015

Mobility for Growth – ITS (1/2)

INTELLIGENT TRANSPORT SYSTEMS

➤ EUROPE NEEDS:

- ITS and ICT technologies provide a set of strategies for addressing the challenges of:
 - Assuring safety & reducing congestion; delivering safe, efficient, sustainable & seamless transport options across Europe; accommodating the growth in passenger & freight traffic; safeguarding the competitiveness of European industry
- Progress in the ITS area under H2020 shall contribute to decarbonising the transport sector & materialising the "Zero" vision of road safety
- Topics adding value to mode-specific activities

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
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SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

Programa de trabajo 2014-2015

Mobility for Growth – ITS (2/2)

➤ TOPICS (in red topics open in 2014):

- **Connectivity and information sharing for intelligent mobility – MG.7.1 - 2014 – 2 stage, RIA**
- **Towards seamless mobility addressing fragmentation in ITS deployment in Europe – MG.7.2 - 2014 – RIA: 2 stage; CSA: 1 stage**

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
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4. Waterborne → 4 tópicos
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GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

Programa de trabajo 2014-2015

Mobility for Growth – Infrastructure (1/2)

INFRASTRUCTURE

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
2. Rail → 3 tópicos
3. Road → 6 tópicos
4. Waterborne → 4 tópicos
5. Urban Mobility → 5 tópicos
6. Logistics → 3 tópicos
7. Intelligent Transport Systems (ITS) → 2 tópicos
- 8. Infrastructures → 4 tópicos**
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GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

➤ EUROPE NEEDS:

- To make infrastructure more resilient
- To keep pace with the growing mobility needs & aspirations of people & businesses
- To reduce the impact of infrastructure on the environment
- To maintain & upgrade deteriorating transport infrastructures
- To facilitate the uptake of innovation

Programa de trabajo 2014-2015

Mobility for Growth – Infrastructure (2/2)

➤ TOPICS (in red topics open in 2014):

- **Smarter design, construction and maintenance – MG.8.1 - 2014 – RIA: 2 stage; CSA: 1 stage**
- **Next generation transport infrastructure: resource efficient, smarter and safer – MG.8.2 - 2014 – RIA: 2 stage; CSA: 1 stage**
- Facilitating market take-up of innovative transport infrastructure solutions – MG.8.3 - 2015 – Public procurement of innovative solutions
- Smart governance, network resilience and streamlined delivery of infrastructure innovation – MG.8.4 - 2015 – RIA: 2 stage; CSA: 1 stage

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
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Programa de trabajo 2014-2015

Mobility for Growth – Socio-economic (1/2)

SOCIO-ECONOMIC and BEHAVIOURAL RESEARCH and FORWARD-LOOKING ACTIVITIES for POLICY- MAKING

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
2. Rail → 3 tópicos
3. Road → 6 tópicos
4. Waterborne → 4 tópicos
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6. Logistics → 3 tópicos
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GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

➤ EUROPE NEEDS:

- To help generate the innovative solutions necessary for smarter, greener & more integrated transport & mobility by embedding the social sciences & humanities throughout this challenge
- To address the specific needs in terms of socio-economic & behavioural research: data, models & scenarios; user needs & behaviour; transport economics; and policy support

Programa de trabajo 2014-2015

Mobility for Growth – Socio-economic (2/2)

➤ TOPICS (in red topics open in 2014) CSAs

- Transport societal drivers – MG.9.1 - 2015 – 1 stage
- **User behaviour and mobility patterns in the context of major societal trends – MG.9.2 - 2014 – 1 stage**
- **Analysis of funding schemes for transport and infrastructure – MG.9.3 – 2014 – 1 stage**
- **Research, technology development and market prospects for the European transport industries – MG.9.4 – 2014 – 1 stage**
- **Fostering transnational cooperation in European transport R&I – NCP network – MG.9.5 - 2015 – 1 stage**
- **Strengthening the R&I strategies of the transport industries in Europe – MG.9.6 - 2014 – 1 stage**
- **Innovation awards for students and researchers in the context of the Transport Research Arena conference – TRA 2016 – MG.9.7 - 2014 – 1 stage**
- Europe wide open source transport models, data and scenarios (**under 'Other Actions' in WP**) – OA2 - Tender 2015

MOBILITY FOR GROWTH

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Programa de trabajo 2014-2015

Green Vehicles (1/2)

EGVI PPP: 'EUROPEAN GREEN VEHICLES INITIATIVE'

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
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GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

- The call on 'Green Vehicles' is an essential component of road transport R&I. It supports:
 - Improvement of energy efficiency of road transport vehicles
 - Use of new types of non-conventional energies in road transport, such as electricity, CNG and LNG, bio-based fuels
- Demonstration is essential to ensure timely deployment of the new technologies

Programa de trabajo 2014-2015

Green Vehicles (2/2)

➤ TOPICS (in red topics open in 2014):

They are all single stage

- Transport Next generation of competitive Li-ion batteries to meet customer expectations – GV.1 – 2014, RIA
- Optimised and systematic energy management in electric vehicles – GV.2 – 2014, RIA
- Future natural gas powertrains and components for cars and vans–GV.3-2014, IA
- Hybrid light and heavy duty vehicles – GV.4 - 2014, IA
- Electric two-wheelers and new new light vehicle concepts – GV.5 – 2014, RIA
- Powertrain control for heavy-duty vehicles with optimised emissions–GV.6-2015 IA
- Future natural gas powertrains and components for heavy duty vehicles – GV.7 - 2014, IA
- Electric vehicles' enhanced performance and integration into the transport system and the grid – GV.8 – 2015, RIA

MOBILITY FOR GROWTH

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Programa de trabajo 2014-2015

Otros topics relativos a transporte en H2020.

Retos sociales

- **Energy**

- Sustainable biofuels and alternative fuels for the European transport sector
- 'Smart Cities and Communities' solutions integrating energy, transport, ICT (Transport budget contribution: 40 M€)
- Energy storage
- Bioenergy: engine tests with new types of biofuels

- **Climate/environment**

- Improving the air quality and reducing the carbon footprint of European cities
- Ensuring the sustainable supply of non-energy and non-agricultural raw materials (Transport as a component of the production chain)

Programa de trabajo 2014-2015

Otros topics relativos a transporte en H2020

- **Security**

- Crisis management: disasters' governance and resilience Crisis management: Crises and disaster resilience – operationalizing resilience concepts
- Critical Infrastructure Protection: adapting building and infrastructure standards and design methodologies in the case of natural catastrophes
- Supply Chain Security: Technologies for inspections of large volume freight

- **Food/Bioeconomy**

- 'Blue Growth: Unlocking the potential of Seas and Oceans'; 3 topics: Innovative offshore economy; Sub-sea technologies; Response capacities to oil spills and maritime pollutions (Transport budget contribution: 19 M€)

Programa de trabajo 2014-2015

Otros topics relativos a transporte en H2020

- **Leadership in enabling and industrial technologies**
 - Smart Cyber Systems and internet of things for transport applications
 - Post-lithium ion batteries for electric automotive applications (complementary to topic GV.1-2014)
 - Materials for severe operating conditions, including added-value functionalities. (Transport as field of application)
 - Fibre-based materials for non-clothing applications. (Transport as field of application)
 - Nanotechnologies, Advanced Materials, Advanced Manufacturing, Biotechnology. Several entries for transport application of new materials. Detailed under the impact section as a field of possible deployment
- **Research infrastructures**
 - Integrating and opening research infrastructures of pan-European interest (mentions "Smart, green and integrated transport" research infrastructures)

Programa de trabajo 2014-2015

Small business & ~~fast track innovation~~ (1/5)

Small business & fast track innovation for Transport

MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
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GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

➤ EUROPE NEEDS:

- The best products and services, in a time & cost efficient manner, in order to preserve transport sector's leadership & create new jobs
- The role of SMEs is critical in order to meet these challenges

Programa de trabajo 2014-2015

Small business & ~~fast track innovation~~ (2/5)

- TOPICS (in red topics open in 2014):
- Small business innovation research for Transport – IT.1 – 2014-2015 – SME instrument

MOBILITY FOR GROWTH

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GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

Instrumento PYME:

- 35.87 M€ en 2014
 - ✓ 3.59 M€ para Fase 1
 - ✓ 31.56 M€ para Fase 2
 - ✓ 0.72 M€ para Fase 3 + mentoring/coaching
- Apertura de la convocatoria → 01/03/2014
 - ✓ Fechas de corte 2014 Fase 1 → 18/06, 24/09, 17/12
 - ✓ Fechas de corte 2014 Fase 2 → 09/10, 17/12
- Abierto a cualquier área del programa de trabajo

Programa de trabajo 2014-2015

Small business & fast track innovation (3/5)

➤ INSTRUMENTO PYME:

- ☐ **Subvención** en fases para PYMES:
 - Sin requisito mínimo de consorcio
 - Sólo para PYME como socios.
 - Subcontratación libre
- ☐ Se valorará que sea una idea innovadora convincente que tenga un buen **potencial de crecimiento para la PYME en el mercado no doméstico.**
- ☐ Cubriendo el ciclo completo de la innovación.
- ☐ **Convocatoria abierta**, varias fechas de corte al año

MOBILITY FOR GROWTH

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GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

OTHER ACTIONS → 4 tópicos

"The SME instrument is not an R&D programme. It is an **accelerator for market introduction of promising technological or non-technological innovations.**"

Programa de trabajo 2014-2015

Small business & fast track innovation (4/5)

➤ INSTRUMENTO PYME:

- Tipo de proyectos de innovación Tecnológica, en Servicios, o innovación Social.
- 7% del presupuesto de H2020-Transporte a través de instrumento PYME

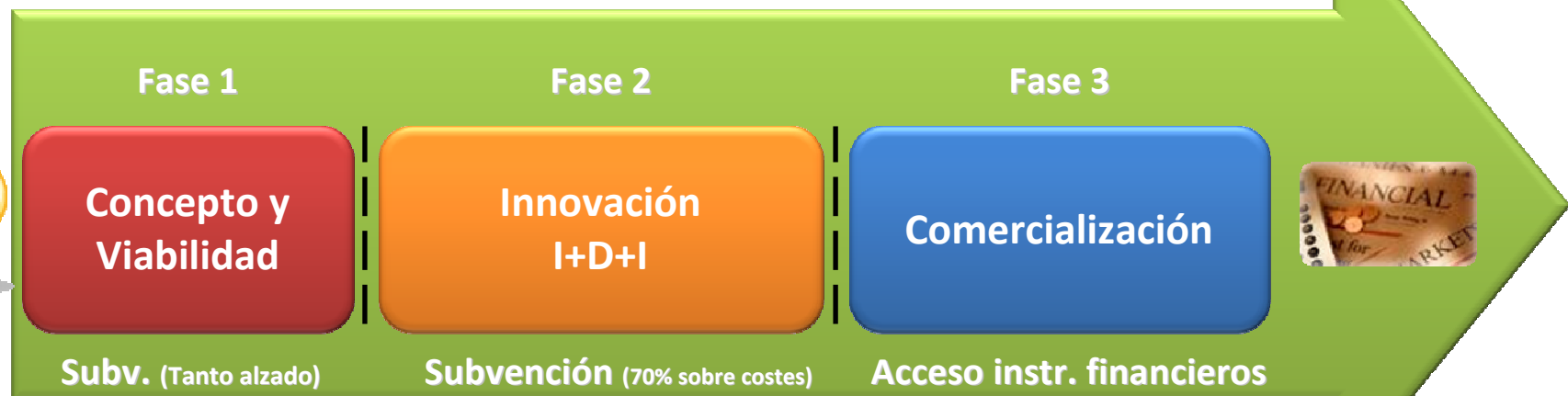
MOBILITY FOR GROWTH

1. Aviation → 8 tópicos
2. Rail → 3 tópicos
3. Road → 6 tópicos
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GREEN VEHICLES → 8 tópicos

SMEs AND FAST TRACK → 2 tópicos

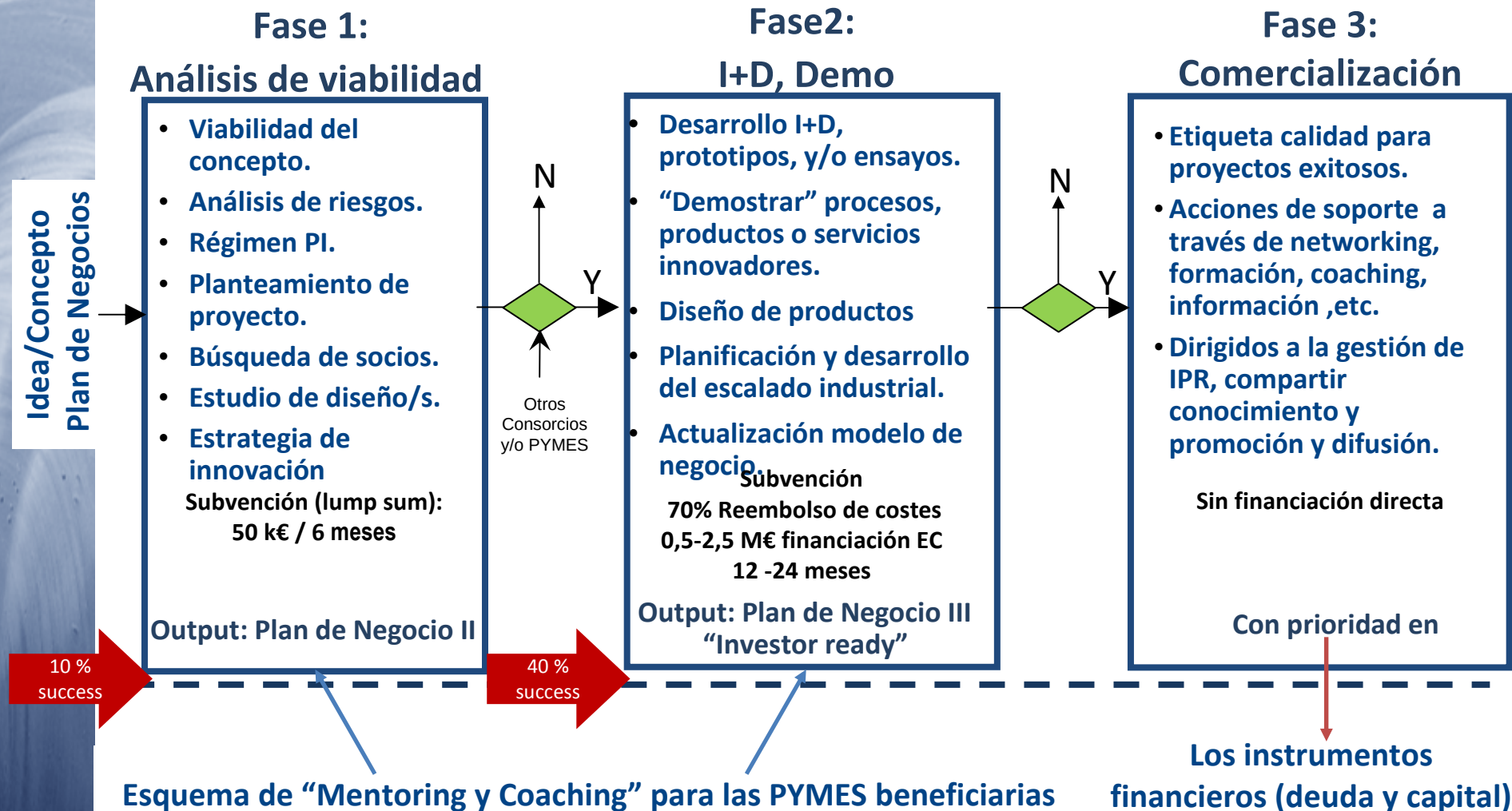
OTHER ACTIONS → 4 tópicos



Programa de trabajo 2014-2015

Small business & fast track innovation (5/5)

➤ FASES DEL INSTRUMENTO PYME:



Índice

- Transporte en Horizonte 2020
- Programa de trabajo 2014-2015
- **Aspectos prácticos**

Aspectos prácticos

H2020: Diferencias con el 7PM

Más innovación

- ✓ Más énfasis en el impacto
- ✓ Mejor acceso de financiación para la industria
- ✓ Se integran la innovación y la investigación

Simplificación

- ✓ Reglas y esquemas de financiación comunes
- ✓ Programas de trabajo bienales con *topics* más amplios
- ✓ Menos controles y auditorías
- ✓ Disminución del tiempo de negociación de contratos

Enfoque hacia retos sociales

- ✓ Financiación de proyectos que resuelvan retos concretos
- ✓ Acciones transversales más integradas

Aspectos prácticos

Condiciones de participación

Requisitos

- ✓ **Mínimo 3 entidades legales independientes de 3 Estados Miembros (EM) o Estados Asociados (EA) diferentes**
- ✓ **Abierto a terceros países**
- ✓ **Duración del proyecto, presupuesto y número de socios a decidir por el consorcio**

Beneficiarios

- ✓ **Toda entidad legal que cumpla con los requisitos establecidos en las Reglas de Participación y en los Programas de Trabajo correspondientes**

Tipos de financiación

- ✓ **Subvenciones**
- ✓ **Otras modalidades: Premios, compra pública innovadora y pre-comercial...**

Aspectos prácticos

Nuevas reglas de financiación (1/2)

Modelos simplificados

- ✓ Tasa única **100%** costes directos para todo tipo de proyectos, socios y actividad
- ✓ Excepción: proyectos más cercanos al mercado (**70%** costes directos si se trata de una entidad con ánimo de lucro)
- ✓ Costes indirectos: **25%** costes directos
- ✓ Remuneración adicional: **8.000€/año** por investigador a tiempo completo (entidades sin ánimo de lucro)

Instrumentos de financiación

- ✓ Research and innovation actions: **100%**
- ✓ Innovation actions: **70%** (**100% non-profit**)
- ✓ Coordination & Support actions: **100%**
- ✓ SME instrument: Fase 1=50.000€ (lump sum); Fase 2=70%
- ✓ Otras acciones: Fast track to innovation, premios...

Aspectos prácticos

Nuevas reglas de financiación (2/2)

Tipo de ENTIDAD	Tipo de ACCIÓN		
	Research and Innovation	Innovation Actions	CSA
Non-Profit	100%	100%	100%
Profit		70%	

Otras novedades

- ✓ IVA elegible si no es recuperable
- ✓ Desaparece la obligatoriedad de declarar los intereses por prefinanciación
- ✓ Certificados de auditoría: al final y si se supera 325.000€ por socio y proyecto
- ✓ Plazo hasta contrato: 8 meses
- ✓ Acuerdo de Consorcio obligatorio



Aspectos prácticos

Convocatorias

11 de diciembre de 2013

- ✓ Un WP (todas las áreas) con líneas (*topics*) más amplias
- ✓ Dos años de duración (primeros 2014-2015)

Transporte Inteligente, Ecológico e Integrado

- ✓ Presupuesto: 867 M€ (2014=579 M€ / 2015=288 M€)
- ✓ Gestión conjunta DG RTD, DG MOVE, DG CONNECT
- ✓ Cierre convocatoria 2014:
 - Evaluación en dos etapas: 18 marzo y 28 agosto
 - Evaluación en una etapa: 27 marzo o 28 agosto
 - Instrumento PYME: varias fechas de corte para fase 1 y 2

Portal del participante



- ✓ Punto único de contacto con la EC
- ✓ Sistema de envío de solicitudes

<http://ec.europa.eu/research/participants/portal/page/home>

Aspectos prácticos

Convocatorias (portal del participante)

Ejemplo → búsqueda por palabra clave
«Maritime»

The screenshot shows the Horizon 2020 participant portal. The search bar at the top contains the keyword 'Maritime', and the results show 34 items. The left sidebar has a 'Search Topics' button highlighted. The main content area displays two search results, both with the status 'Open' and a deadline of '12-03-2014'. The first result is for 'Acoustic and imaging technologies:BG-09-2014' and the second is for 'Consolidating the economic sustainability and competitiveness of European fisheries and aquaculture sectors to reap the potential of seafood markets:BG-10-2014'. Both results have the call title 'Blue Growth:Unlocking the potential of Seas and Oceans' and the call identifier 'H2020-BG-2014-2'.

1. FUNDING OPPORTUNITIES

2. Search Topics

3. Keyword Search: Maritime

4. 34 Results

4. Topic: Acoustic and imaging technologies:BG-09-2014
Specific challenge: Acoustic and imaging technologies (including LiDAR[1])

Call title: Blue Growth:Unlocking the potential of Seas and Oceans Status: Open
Call identifier: H2020-BG-2014-2 Deadline: 12-03-2014

4. Topic: Consolidating the economic sustainability and competitiveness of European fisheries and aquaculture sectors to reap the potential of seafood markets:BG-10-2014
Specific challenge: Control of the production process, biological and environmental sustainability

Call title: Blue Growth:Unlocking the potential of Seas and Oceans Status: Open
Call identifier: H2020-BG-2014-2 Deadline: 12-03-2014

Aspectos prácticos

Convocatorias (portal del participante)



La aplicación nos ayuda en la búsqueda completando los términos con **palabras sugeridas**

RESEARCH & INNOVATION
Participant Portal

European Commission > Research & Innovation > Participant Portal > Calls

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT

LOGIN REGISTER

Horizon 2020
Calls
Search Topics
Call Updates

FP7 & CIP Programmes
Calls
Call Updates

COSME
Other Funding Opportunities

Keyword Search: **Marit** SEARCH

0 Results

Status

In addition, [see all the top Council \(ERC\) grants](#) for information grants include opportunity **specific topics**.

Quick finder for topics link

Cross-cutting Key-Enabling Technologies (KETs)
ERA-NET
Gender
Contractual Public-Private Partnerships (cPPPs)

International cooperation
SME Instrument
Socio-economic sciences and humanities

Maritime
Maritime surveillance
Maritime safety
Maritime transport
Maritime spatial planning
Civil engineering, maritime/hydraulic engineering,
Integrated Maritime policy

Aspectos prácticos

Convocatorias (portal del participante)

¿Interesados en otras áreas? Los programas de trabajo de todas las áreas están disponibles en el Portal del Participante

http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.html#h2020-work-programmes-2014-15

The screenshot shows the 'Reference Documents' page of the Participant Portal. A red box labeled '1' highlights the 'HOW TO PARTICIPATE' tab in the top navigation bar. A red box labeled '2' highlights the 'Reference Documents' link in the left sidebar. A red box labeled '3' highlights the 'Work Programmes' link in the H2020 section of the main content area. An arrow points from this box to a larger red box on the right that contains a hierarchical view of the folders: 'Work Programmes', '2014-15', and 'Main WP'.

Aspectos prácticos

Evaluación

Expertos

- ✓ Nuevo perfil de expertos y reglas robustas para su rotación
- ✓ Más expertos por propuesta
- ✓ Abierta convocatoria expertos para H2020:
<http://ec.europa.eu/research/participants/portal/page/experts>

Criterios

- ✓ Excelencia
- ✓ Impacto
- ✓ Calidad y eficiencia de la implementación

Puntuación

- ✓ Cada criterio se puntúa sobre 5 con un umbral individual de 3 y un global de 10
- ✓ Tópicos en 2 etapas: primera etapa se evalúan sólo criterios Excelencia e Impacto (umbral 8 sobre 10)

Aspectos prácticos

Algunos consejos prácticos (1/2)

Antes de preparar una propuesta...

- ✓ La idea debe ajustarse a la definición del *topic*
- ✓ Visión clara de la aplicabilidad de los resultados
- ✓ Compromiso institucional
- ✓ Comenzar a definir acuerdos de confidencialidad, planes de explotación y acuerdos sobre IPRs

Durante la preparación... COHERENCIA

- ✓ **EXCELENCIA** implica un esfuerzo real en investigación de calidad y plan de trabajo adecuados y bien organizados para alcanzar objetivos
- ✓ Un buen **IMPACTO** conlleva una planificación de la explotación y de la difusión para hacerlo efectivo
- ✓ **CALIDAD Y EFICIENCIA DE LA IMPLEMENTACIÓN** se asocia a liderazgos evidentes y responsabilidades claramente asignadas y controladas



Aspectos prácticos

Algunos consejos prácticos (2/2)

Búsqueda de socios

- Punto Nacional de Contacto
- Agencias regionales
- Red EEN
- ETNA Plus (www.transport-ncps.net)
- Brokerage Event Bruselas, 18/12/2013 → presentaciones orales y catálogo completo de participantes:
<http://transport-ncps.net/news/37-news-1/presentations-and-b2b-catalogue-from-2014-2015-transport-info-day-and-brokerage-event.html>
- CORDIS

Ayudas CDTI para la preparación de propuestas (APCs)

- ✓ Para empresas
- ✓ Hasta 50.000 €
- ✓ Reembolso condicionado a resultados
- ✓ Condiciones en revisión



Aspectos prácticos

¿Más información?

Representante Transporte Inteligente, Ecológico e Integrado

- ✓ **Alejandro Ruiz** (alejandro.ruiz@cdti.es)

NCPs Asuntos Legales y Financieros

- ✓ **Andrés Martínez** (andres.martinez@sost.be)
- ✓ **Gonzalo Arévalo** (garevalo@isciii.es)
- ✓ **Anxo Moreira** (anxomoreira@uvigo.es)
- ✓ **Carmen Hormigo** (carmen.hormigo@d-bruselas.csic.es)

NCPs Transporte Inteligente, Ecológico e Integrado

- ✓ **Juan Francisco Reyes** (juanfrancisco.reyes@cdti.es)
- ✓ **Alejandro Ruiz** (alejandro.ruiz@cdti.es)
- ✓ **Ana Belen Bermejo** (anabelen.bermejo@upm.es)



MUCHAS GRACIAS POR SU ATENCIÓN

más información: <http://www.eshorizonte2020.es/>

(juanfrancisco.reyes@cdti.es)