Smart, green and integrated transport:
The SME Instrument and
the Fast Track to Innovation Pilot Scheme

National Information Day
Roma, 18 September 2015

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European Commission
DG RTD - Transport
Not calls for R&D projects...

... two new schemes to support activities from the demonstration phase through to market up-take
The SME Instrument and the Fast Track to Innovation Pilot Scheme

**Common features**

- Provide the *last-push* to innovative solutions by supporting the introduction into the market of promising technological or non-technological innovations
- Stimulate private sector investment in R&I
- **Continuously Open call:** submissions any time – several cut-off dates per year
- **EU-dimension:** market relevance and commercial strategy
- Innovation action type of projects: 70% funding
- Central implementation → EASME
Common features (cont...)

- Open in scope and fully bottom-up: all technologies and innovative solutions addressing the overall objectives of the Transport Challenge (ref: to H2020 Specific Programme)
The SME Instrument

Specific features

- Open to all **types of innovative SMEs** in the transport sector and its value chain - market-oriented SMEs with strong potential to develop, grow and internationalise

- Company-focused: **only SMEs** allowed to apply for funding; **single company** support possible

- Transport: **€ 57.5 and 61,2 mio** in 2016 and 2017

- **Next cut-off dates:** 16 December 2015
  - **Phase 2:** 3 February 2016, 14 April 2016, 13 October 2016
  - **Phase 1:** 24 February 2016, 3 May 2016, 7 September 2016, 9 November 2016
The SME Instrument

The 3 Project Phases:

Phase 1 – *Proof of concept* - aims to cover the assessment of **technical feasibility** and **market potential** of new ideas

- € 50 000 in EU funding – lump sum
- Initial 10 page **business proposal** to be drafted
- 3-6 months in duration
The SME Instrument

The 3 Project Phases (cont...) :

Phase 2 – *Innovation projects* - particular focus on *demonstration/pilot activities* (e.g.: testing, prototypes, scale-up activities, design, piloting innovative processes, large scale product validation, performance verification etc.) and *market replication* (i.e.: first application/deployment in the market of an innovation)

- Between **€0.5** and **€2.5 million** in EU funding
- Develop your **innovation strategy**
- **Business plan** – 30 pages
- **1-2 years** in duration
Phase 3 - **support measures** - aims at helping SMEs move towards commercialising their innovative products and services

- **No direct funding**
- Extensive support:  
  - Business **Coaching**  
  - **Networking** opportunity  
  - Facilitate **access to risk finance**  
  - Investor readiness  
  - International trade fairs
The SME Instrument

Evaluation Criteria

- **Impact**: Convince evaluators that your project will be successful and create jobs (show market size, market share, sales price, 3-years projections of sales, turnover, jobs created)

- **Excellence**: Convince evaluators that your innovation is better than existing solutions, is disruptive and commercially viable

- **Implementation**: Convince evaluators that you will make it

<table>
<thead>
<tr>
<th>Evaluation criteria</th>
<th>Excellence of the innovation</th>
<th>Impact</th>
<th>Quality/efficiency of the implementation</th>
<th>Total score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threshold PHASE 1</td>
<td>4/5</td>
<td>4/5</td>
<td>4/5</td>
<td>13/15</td>
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<tr>
<td>Threshold PHASE 2</td>
<td>3/5</td>
<td>4/5</td>
<td>3/5</td>
<td>12/15</td>
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</tbody>
</table>
Example of Phase 1 proposals - ROAD

weRide BV (Noordwijk, NL) & INS Wien (AT)

ParkBee is an intelligent parking platform that allows inner-city drivers to access under-used private garages from one click of an app. Unlocking private parking to public use without any infrastructure changes.

http://parkbee.nl
Examples of Phase 2 grants:

**Road/Urban**

- **Knowledge Development for POF SL (ES)** – 1.3 M€: Rapid Data Communication Network for Connected Cars
- **Muses SAS (FR)** - 1.7 M€ grant: New electric vehicle for urban logistic
- **ROBOSOFT Driverless Solutions (FR)** – 1.6 M€ grant: Intelligence solutions for automated road transport systems
- **Amminex Emissions Technology A/S (DK)** -1.9 M€ grant: An opportunity to meet legal requirements in real life driving conditions for City busses.
- **ParkTAG GmbH (DE)** – 1.4 M€ grant: Social and universal technology for searching local parking space
Example of Phase 2 grants - Air

Hybrid Air Vehicles Ltd. (UK): 2,5 M€ grant

The Airlander hybrid air vehicle is a new form of aircraft. Performance advantages include 1/3rd the fuel burn of conventional aircraft, reduced reliance on infrastructure and intermodal transport due to the unique amphibious all-terrain landing gear technology.

www.hybridairvehicles.com
Examples of Phase 2 grants - Air

- **EU Edge Ltd. (HU)** – 1,1 M€: Augmented reality aerial navigation
- **Pipistrel (SI)** – 1,9 M€ grant: Electric flight
- **METASENSING BV & Selfly BV (NL)**, 1,4 M€ grant: A stand-alone, affordable Electronic Detection and Avoid (ED&A) system for small aircraft
- **APPEAR NETWORKS SYSTEMS AB (SE), Avtura Ltd (UK) & SLOT LTD (HU)**, 1,9 M€ grant: Situation-Aware Mobile Platform for Airport Collaborative Decision-Making
Example of Phase 2 grants - Maritime

SEAGATE SRL (Milan, IT) & SMAR Azure Ltd (Edinburg, UK)

Seagate is developing an innovative collapsible-automatic-retrofittable delta wing sail that can be applied to commercial vessels. It reduces fuel bills and cut emissions by 20%.

www.seagatesail.com
Example of Phase 2 grant - Maritime

PROMATECH, Istanbul (TR), 1,3 M€ grant

A Cloud-based Vessel Allocation decision support tool helping large ship-owners to make decisions on which vessels to charter, saving on chartering costs and fuel consumption and lower CO₂ emission.

www.promatech.com.tr
Example of Phase 1 grant -  RAIL

Frauscher Sensortechnik GmbH, St. Marienkirchen (AT)

OpticTrainDetection aims at the development and commercialisation of optic sensor technology (Fibre Bragg Grating, Distributed Acoustic Sensors) in the railway application. Frauscher Sensortechnik GmbH is technology and market leader in the area of inductive sensor technology solutions.

www.frauscher.com
Example of Phase 2 grant - RAIL

NEEL Sp. z. o. o., Warsaw (PL) & WaveTrain Systems AS (NO), 1,3 M€ grant

An animal deterring system that successfully prevents the animal-train collisions including renewable energy sources to make the system energetically self-sustained.

The Fast Track to Innovation Pilot scheme – FTI Pilot –

Specific features

- Bottom-up logic covering all priorities of H2020 Industrial Leadership and Societal Challenges
- Common budget: €100 mio and €100 mio in 2015 and 2016 (no Transport dedicated budget)
- Grant up to €3 mio per project
- Call opening: 6/1/2015
The Fast Track to Innovation Pilot scheme – FTI Pilot –

Specific features (...cont.)

- Open to **all types of participants**: consortia of **min. 3 - max. 5** partners

- **Industry involvement** is mandatory:
  - either at least 60% of the overall budget of the proposal must be allocated to consortium partner(s) from industry
  - or the minimum number of industry participants must be **2 in a consortium of 3 or 4 partners, and 3 in a consortium of 5 partners**
The Fast Track to Innovation Pilot scheme – FTI Pilot –

Specific features (...cont.)

- FTI proposals are expected to have a **readiness level of 6** out of 9, i.e: technology demonstrated in relevant (industrial) environment
- **Time-to-market**: 36 months or less (from the moment of the start of the FTI pilot action!)
- Proposals shall include a business plan (market development strategy)
- SMEs and first-time industrial applicants particularly welcome
Specific features (...cont.)

- Individual evaluation of proposals
- 'Impact' is evaluated first - threshold 4 out of 5
- **Key aspects**: fast development & market take-up/wide deployment no more than **3 years after the beginning of the FTI project**, business development, growth and job creation
- 'Excellence' is evaluated second
- 'Implementation' is evaluated third
- Overall score not below **12 out of 15**
**FTI Pilot – 2015**

<table>
<thead>
<tr>
<th>FTI Pilot – deadline 29 April 2015</th>
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<tbody>
<tr>
<td><strong>Number of proposals submitted:</strong></td>
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<tr>
<td><strong>Number of above-threshold proposals:</strong></td>
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<td><strong>Number of retained proposals:</strong></td>
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<td><strong>EU contribution requested for all proposals:</strong></td>
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<tr>
<td><strong>EC contribution requested for retained proposals:</strong></td>
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- Second intermediary call deadline (01/09/2015): **231 proposals**
- Indicative budget available for 2015: **EUR 100 mio**
Proposal distribution by keyword

- Information and Communication: 57
- Advanced manufacturing and ...: 49
- Health, demographic change and...: 46
- Secure, clean and efficient energy: 26
- Smart, green and integrated: 26
- Food security, sustainable: 18
- Climate action, environment,...: 15
- Advanced materials: 11
- Biotechnology: 8
- Nanotechnologies: 7
- Europe in a changing world ...: 5
- Secure societies - protecting...: 1
- Space: 0
Country distribution of participants in selected proposals

Germany: 13
Netherlands: 9
France: 9
United Kingdom: 9
Spain: 4
Italy: 4
Sweden: 3
Slovenia: 3
Belgium: 3
Austria: 2
Greece: 2
Czech Republic: 1
Croatia: 1
Finland: 1
Norway: 1
Turkey: 1
Romania: 1
Denmark: 1
Ireland: 1
Type of organisations in selected proposals

- Private for Profit: 60%
- Higher or Secondary Education: 13%
- Undefined: 16%
- Research Organisations: 10%
- Public Body (excl. research and education): 0.00%
<table>
<thead>
<tr>
<th>Proposal Title</th>
<th>Description</th>
<th>Company Names</th>
<th>Country(s)</th>
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<tbody>
<tr>
<td><strong>BeLEADFREE</strong> - High Strength Bearing for Large-Bore LEAD FREE Engines</td>
<td>€ 2.96 mio</td>
<td>Daido Metal Co. Ltd, ELS, IK4 TEKNIKER, Coventry University</td>
<td>UK, BE, ES, UK</td>
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<tr>
<td><strong>CARIM</strong> - Commercialization of a full carbon wheel manufactured with an automated high-volume process for the automotive market</td>
<td>€ 1.93 mio</td>
<td>FRAUNHOFER, RI-BA Composites - S.R.L., APPTECH Srl, ALPEX Technologies GMBH</td>
<td>DE, IT, IT, AT</td>
</tr>
<tr>
<td><strong>DISRUPT</strong> - Development of an innovative and safe ultralight two-seater turbine helicopter</td>
<td>€ 2.92 mill</td>
<td>Curti Cosruzioni Meccaniche S.P.A., PRVNI BRNENSKA STROJIRNA VELKA BITES A.S, Junkers Profly GmbH</td>
<td>IT, CZ, DE</td>
</tr>
<tr>
<td><strong>eSHaRk</strong> - eco-friendly Ship Hull film system with fouling Release and fuel saving properties</td>
<td>€ 2.4 mio</td>
<td>PPG COATINGS EUROPE BV, MACtac, HSVa, ND Coatings GmbH, VertiBlast</td>
<td>FR, BE, DE, DE, NL</td>
</tr>
</tbody>
</table>
Thank you for your attention!

Find out more:
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