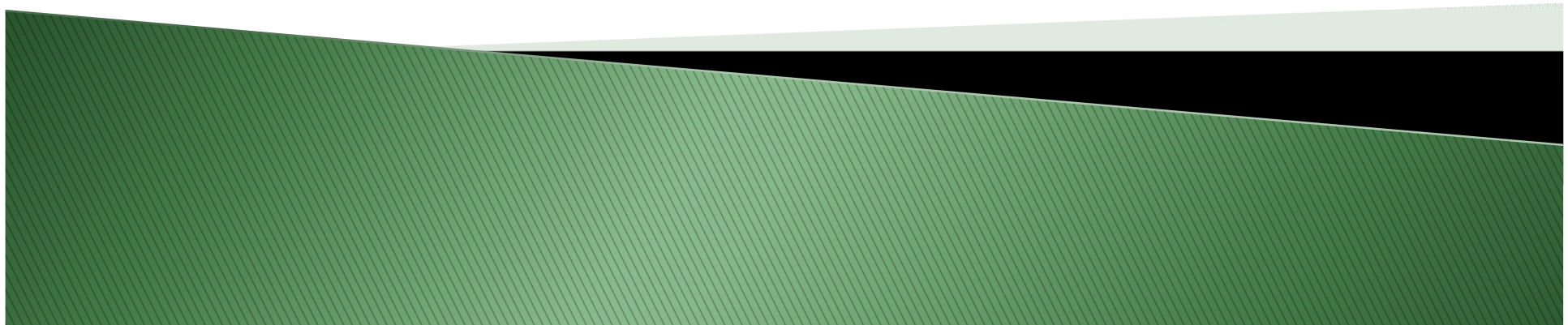


# European research programmes (FP7, Horizon 2020) – facilitating innovative academia–industry cooperation

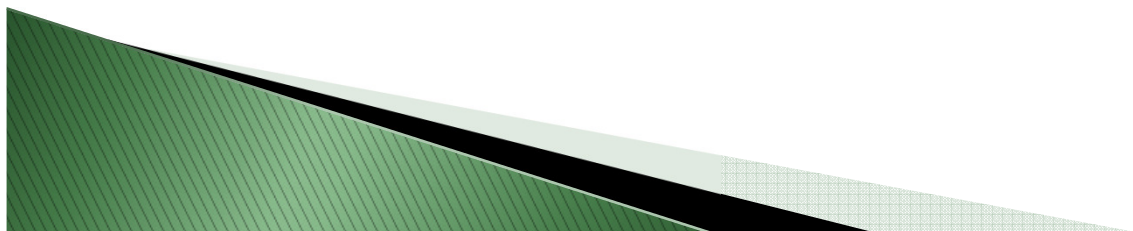
Lora Pavlova

[l.pavlova@mon.bg](mailto:l.pavlova@mon.bg)



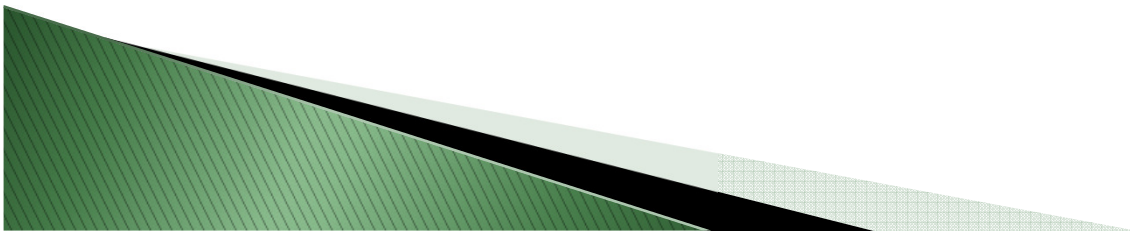
# Insights on FP7

- ▶ First attempt for a longer vision and programming;
- ▶ Increased overall budget for research activities;
- ▶ New Innovation-driven programme – CIP;
- ▶ Thematic-oriented structure plus supporting activities;



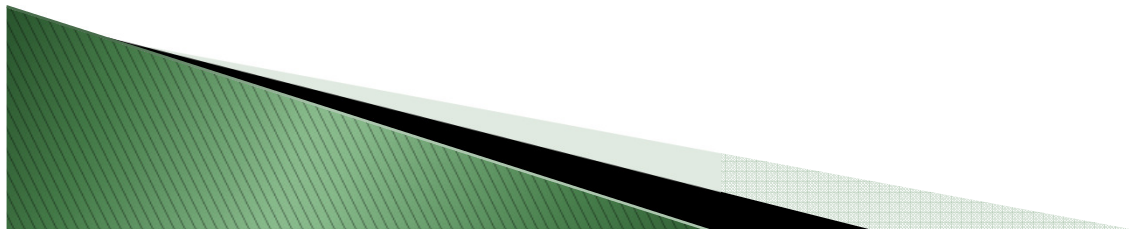
# 7FP: Main characteristics

- ▶ Over € 50 bln. for the period 2007–2013 r.
- ▶ Co-funding instrument for research, technological and demonstration activities and projects;
- ▶ Support for horizontal and individual research projects as well as for development of research capacities;
- ▶ Strong focus on the development of pan-European research infrastructure;



# Financial instruments

- Collaborative projects – focused research and innovation projects with clear goals and well defined results;
- Networks of excellence – virtual networking of different European research organizations aiming at establishing joint research activities and circulation of knowledge;
- Individual projects – ERC;
- Coordination and support actions;
- Projects aiming at support for targeted groups, e.g. SME's and NGO's or association of them;
- Marie Curie projects – career development



# Structure

## Special Programmes

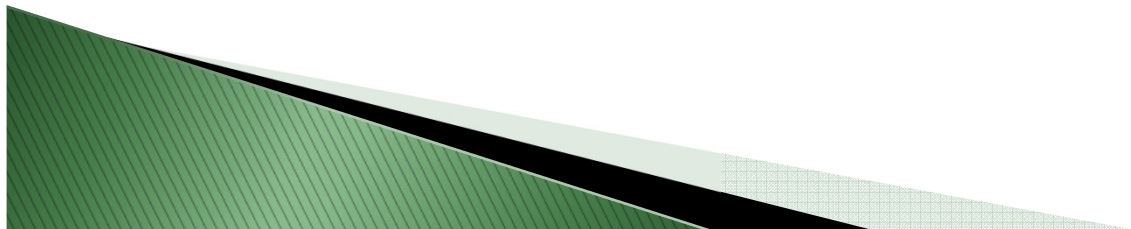
- ▶ Cooperation
- ▶ People
- ▶ Ideas
- ▶ Capacities

## Активни области за България

- ▶ ICT;
- ▶ Research for SME's;
- ▶ Research infrastructures;
- ▶ Environment;
- ▶ Health;

# Bulgaria in FP7

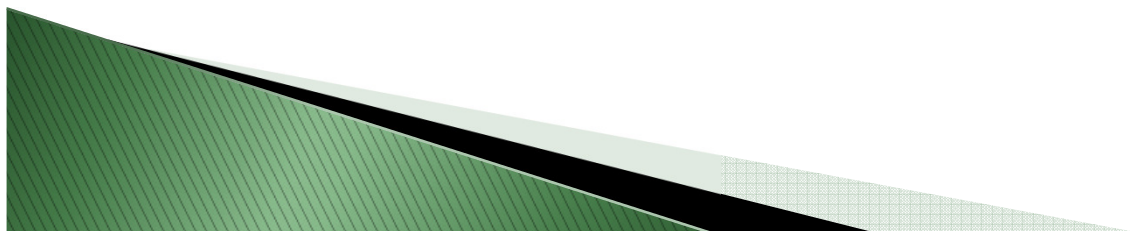
- ▶ 20<sup>th</sup> from EU-27 regarding number of applicants and requested budget;
- ▶ 16,6% success rate; while average in EU-27 – 21,8%;
- ▶ 10,9 % financial success rate, while average for EU-27 – 20,9%
- ▶ Latest statistics (2013) – 580 participations/81 MEuro



# Bulgaria in FP 7

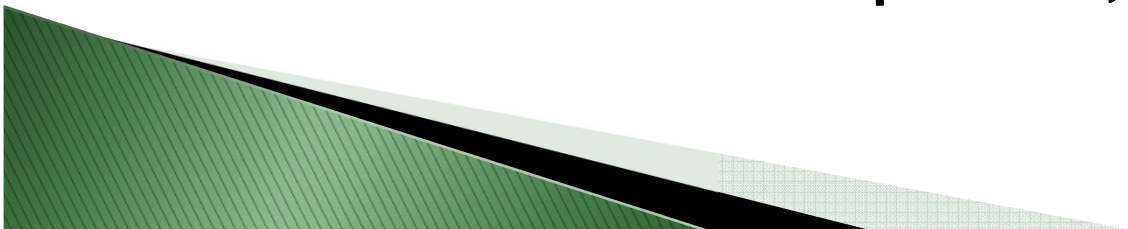
2

- ▶ 14,15% success rate of SME's, while average in EU – 19,33%;
- ▶ Financial success rate– 12,8%, average for EU – 18,2% or:
- ▶ 926 Bulgarian SME's applied for over 150 M Euro
- ▶ 136 (beginning2012) – 20 M Euro



# Horizon 2020

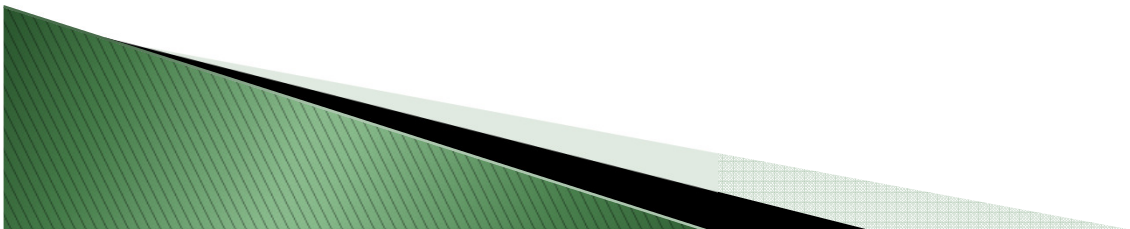
- ▶ New program estimated at 80 bln. Euro investments for research and innovation;
- ▶ Will be the main instrument for implementation of the targets set in Europe 2020 – more and better employment; better quality of life; sustainable development, etc



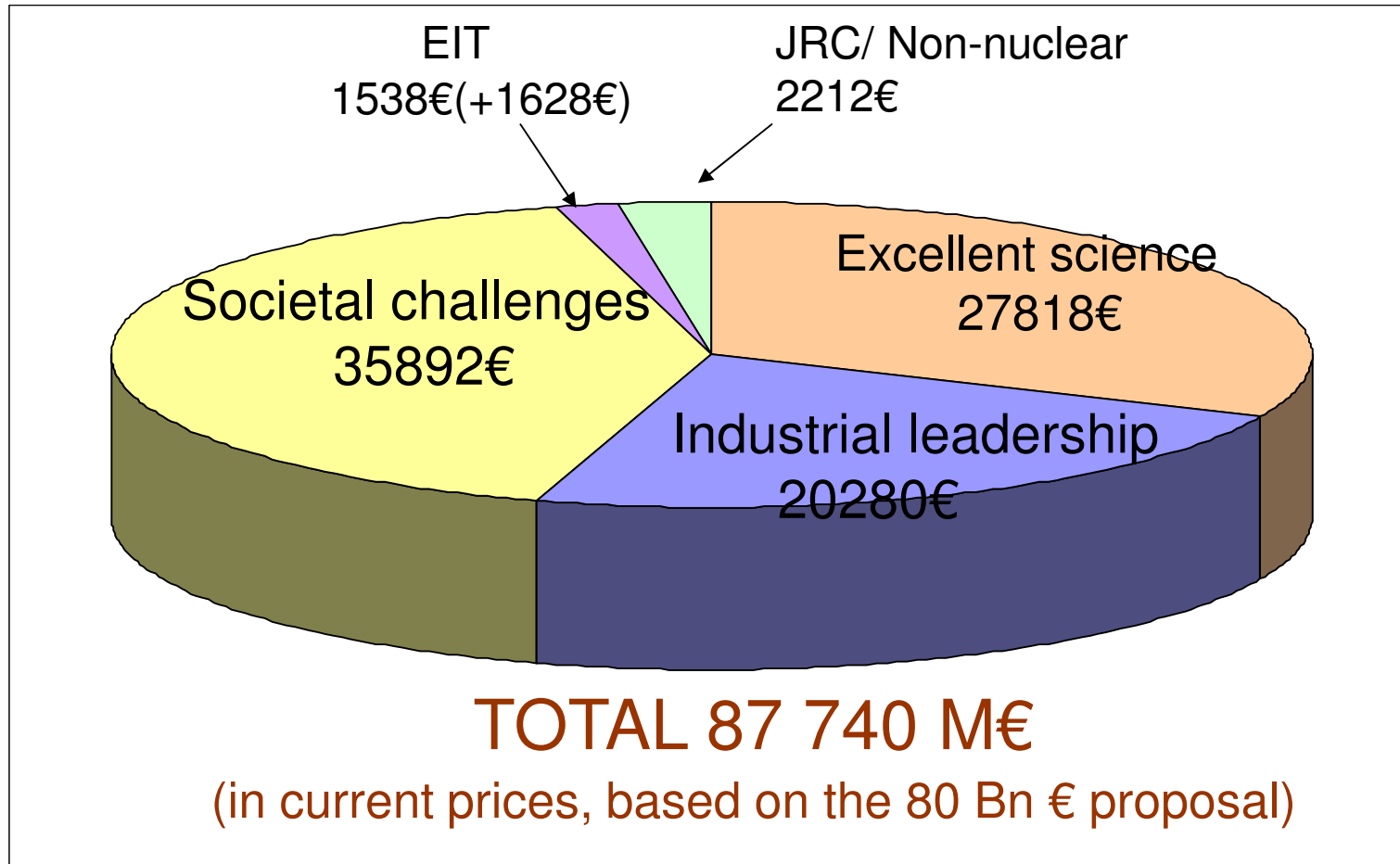


# HORIZON 2020 Priorities

- ▶ Excellent science
- ▶ Industrial Leadership;
- ▶ Societal challenges

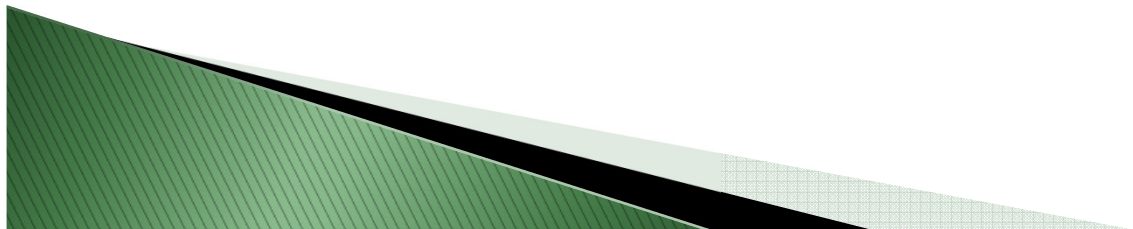


# Indicative budget breakdown



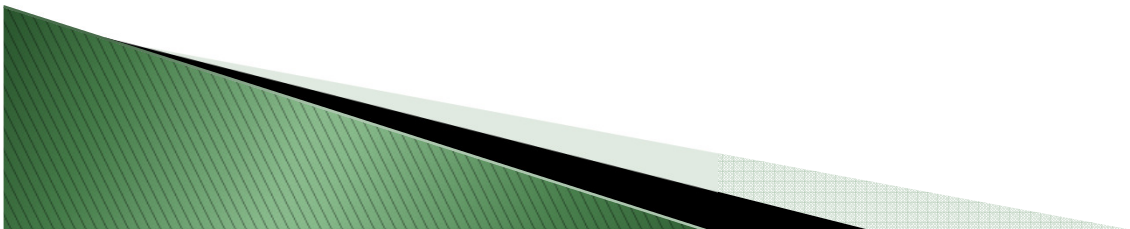
# EXCELLENT SCIENCE

- ▶ European Research Council;
- ▶ New and Emerging Technologies and innovation;
- ▶ Marie Curie actions;
- ▶ Research Infrastructures, incl. e-infrastructures/access



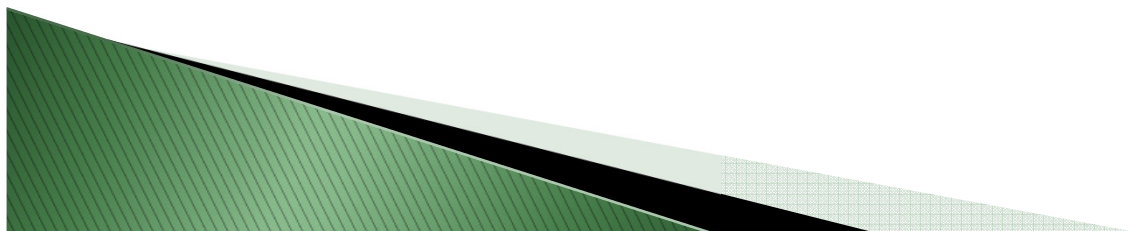
# Industrial Leadership

- ▶ Europe needs more innovative SMEs to create growth and jobs;
- Strategic investments in key technologies (e.g. advanced manufacturing, micro-electronics) underpin innovation across existing and emerging sectors;
- Europe needs to attract more private investment in research and innovation;



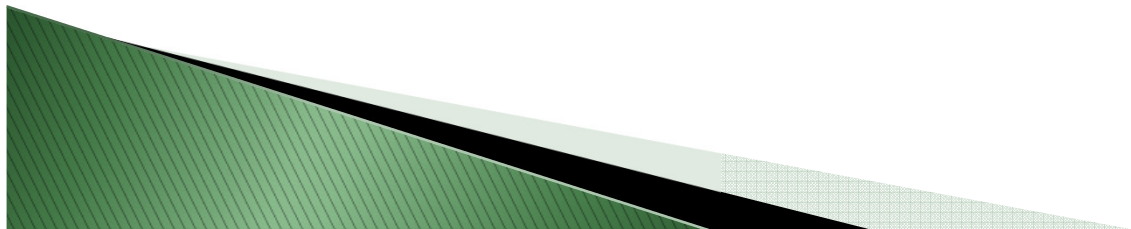
# Societal Challenges

Health, demographic change and wellbeing	8 033
Food security, sustainable agriculture, marine and maritime research & the bioeconomy	4 152
Secure, clean and efficient energy*	5 782
Smart, green and integrated transport	6 802
Climate action, resource efficiency and raw materials	3 160
Inclusive, innovative and secure societies	3 819



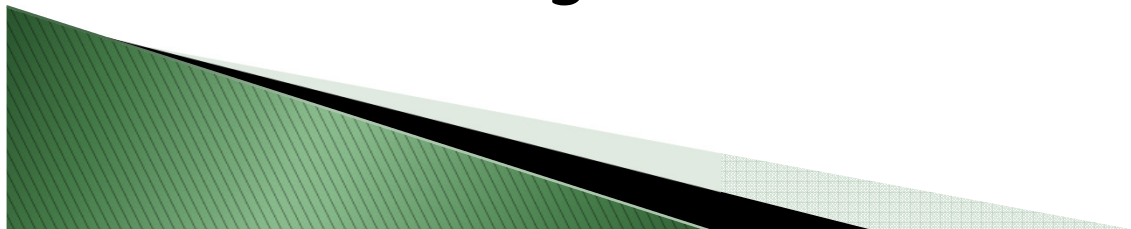
# Public–Private Partnership

- Through *Joint Technology Initiatives* or other formal structures (§ 187.)
- Via *contractual arrangements*, which provide inputs for work programmes
- Only when criteria met, e.g. *clear commitments from private partners*



# Public-Private Partnership 2

- ▶ **European Innovation Partnerships**
  - ▶ Not funding instruments, but for coordination with broader policies and programmes
- ▶ **European Institute of Innovation and Technology (EIT)**
  - *Combining research, innovation & training in Knowledge and Innovation Communities*



# What's new

## ▶ **SINGLE SET OF RULES:**

- Adapted for the whole research and innovation cycle
- Covering all research programmes and funding bodies
- Aligned to the Financial Regulation, coherent with other new EU Programmes.

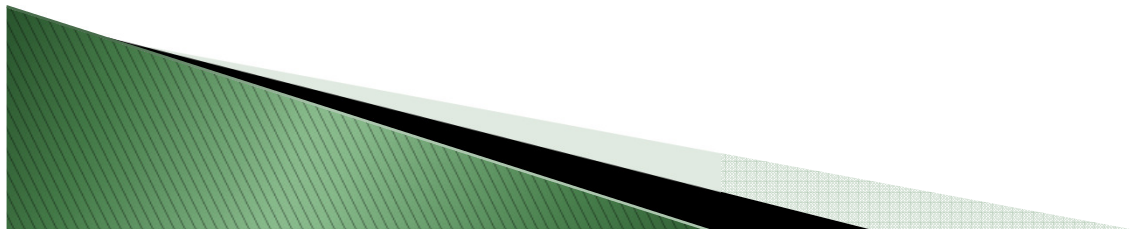
## ▶ **ONE PROJECT - ONE FUNDING RATE.**

- Maximum of 100% of direct costs (except for actions close to market, where a 70% maximum will apply)
- Indirect eligible costs: a flat rate of 20% of direct eligible costs

## ▶ **SIMPLE EVALUATION CRITERIA**

- *Excellence – Impact - Implementation (Excellence only, for the ERC)*

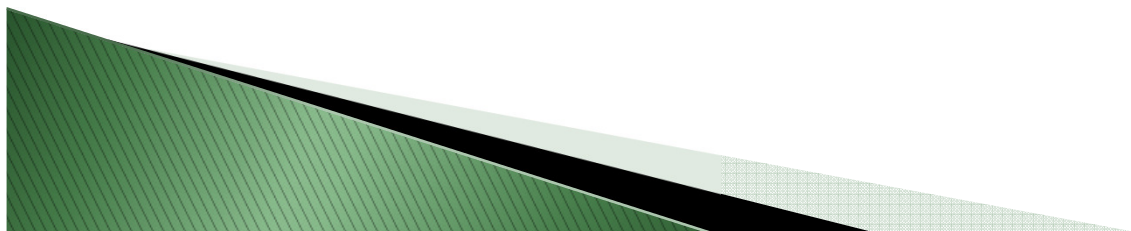
## ▶ **NEW FORMS OF FUNDING**, aimed at innovation: pre-commercial procurement, inducement prizes, dedicated loan and equity instruments.





# Broader access

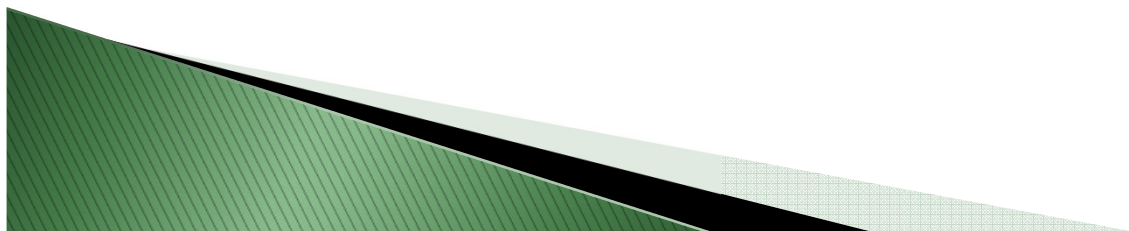
- For **SMEs** - *dedicated SME projects to address societal challenges and enabling technologies*
- For all **regions** – *tailored support to policy learning, twinning, networking, complementing Structural Funds*
- For **international partners** – *broad access to Horizon 2020 (“mainstreaming”), strategic initiatives where there is mutual benefit*
- For **all forms of innovation** - *social innovation, services, pilots, stimulating demand through public procurement, standard setting*



# Activities for SME's

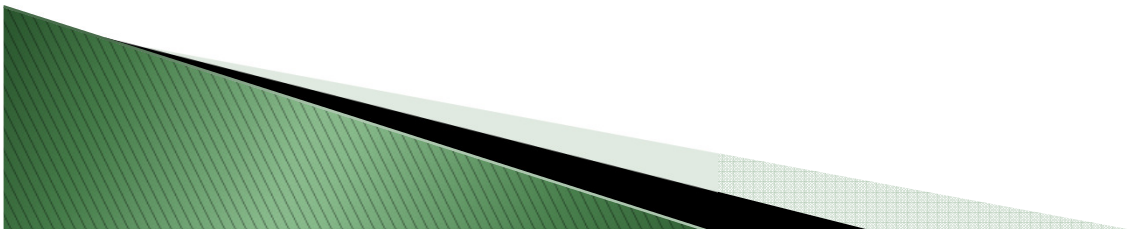
*All forms of R&D and all forms of innovation, towards exploitation and commercialisation*

- *SME participation in collaborative R&D or innovation projects (all three priorities)*
- *SME instrument (budget from all societal challenges as well as from the LEITs)*
- *Innovation in start-ups, spin-offs and young companies (Eurostars and other measures)*
- *Access to risk finance (debt and equity facility)*
- *Exchange and mobility of researchers involving SMEs (Marie Curie actions)*
- *Links for access to procurements...*



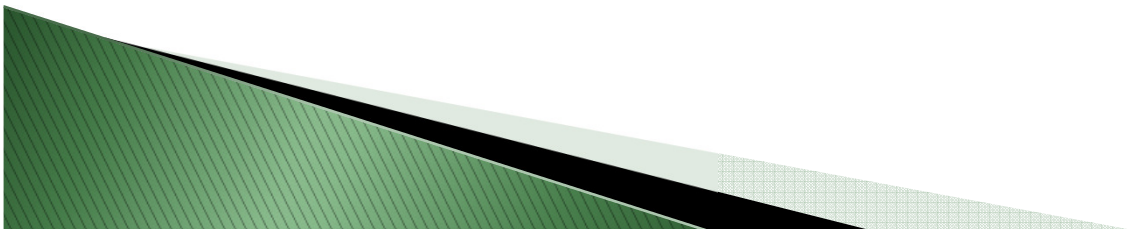
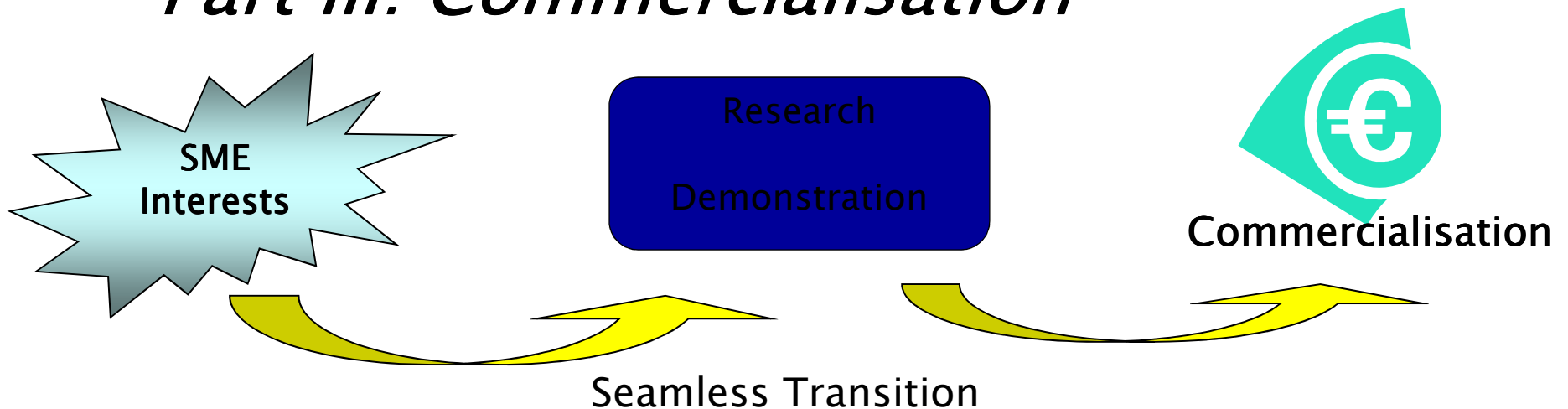
## 1. The SME instrument (Objectives and Principles)

- ▶ SME aspects mainstreamed across H2020
- Simplified and Staged support (3 phases)
- Projects must be market-driven and of potential benefit to SMEs
- Bottom-up approach
- Target: highly innovative SMEs



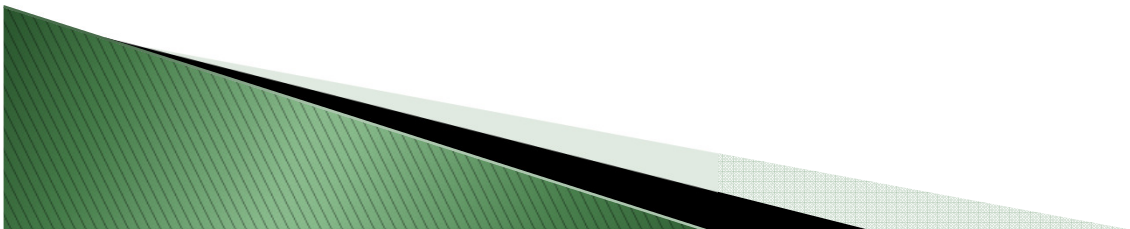
# 1. The SME instrument (Concept)

- ▶ Three parts:
  - *Part I: Concept and feasibility assessment*
  - *Part II: R&D and demonstration work*
  - *Part III: Commercialisation*



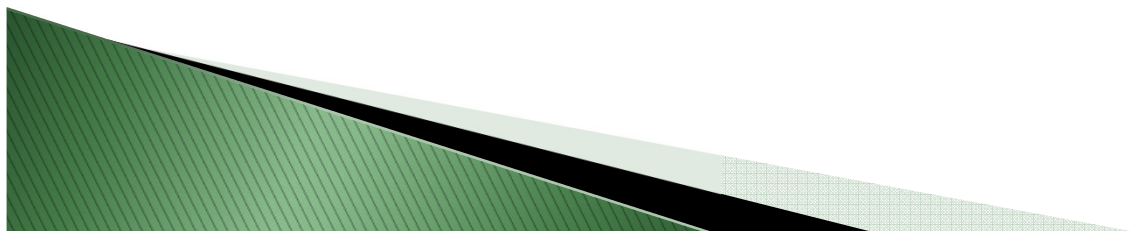
# 1. The SME instrument (Implementation aspects)

- Simple rules
- Calls should be continuously open with regular cut-off dates
- Short time-to-grant
- SME-friendly IPR arrangements
- Flexible subcontracting



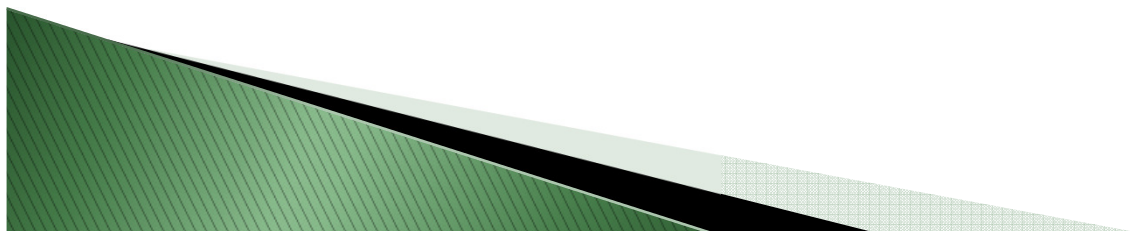
## 2. Support for Research Intensive SMEs

- Specific action to promote market-oriented innovation of R&D performing SMEs
- Development of a new product, process or service that can be launched in the market within a short time span
- SMEs shall execute the core part of the RD&I activities
- Bottom-up approach
- Art 185 TFEU (building on Eurostars)



# Financial Instruments – Access to Risk Finance

1. Loans and guarantees for innovative SMEs and mid-cap companies, through new distribution of risk (higher risk by the EU) and the portfolio approach (with the EIB / EIF)
2. Equity investments in early and growth stage (through partnerships with the EIB / EIF and / or others – National – financial institutions)



## EC governing

R&D

Horizon 2020

Growth,  
Employment and  
Social  
inclusion

COSME

Creative Europe

Social change  
and innovation

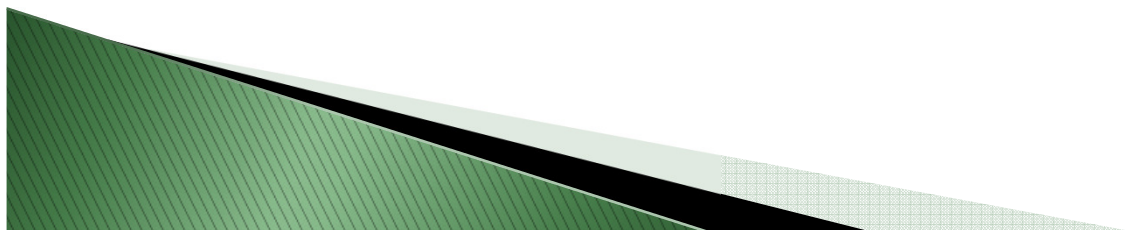
Erasmus for all

Инфраструктура

Instrument for connectivity for  
Europe

## Joint management

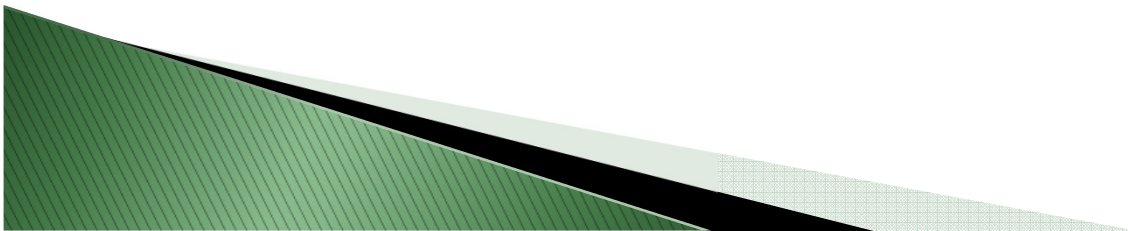
Structural and Cohesion  
Funds





# Other opportunities

- ▶ COSME;
- ▶ EUREKA/EUROSTARS
- ▶ Sectoral programmes of EC – transport; education; media; youth



# Useful links

- ▶ <http://ec.europa.eu/social/main.jsp?langId=en&catId=89&newsId=1093>
- ▶ <https://ec.europa.eu/digital-agenda/en/connecting-europe-facility>
- ▶ <http://s2b.mon.bg>
- ▶ [http://ec.europa.eu/research/horizon2020/index\\_en.cfm?video=none](http://ec.europa.eu/research/horizon2020/index_en.cfm?video=none)

