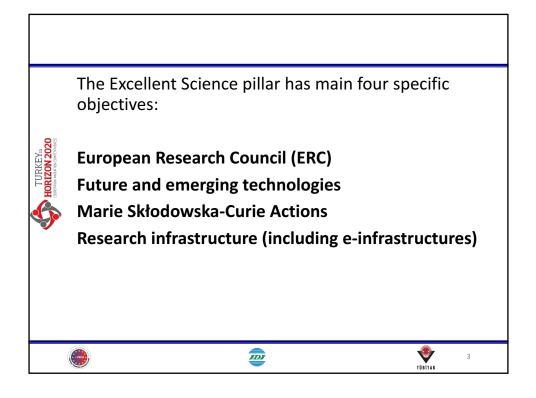
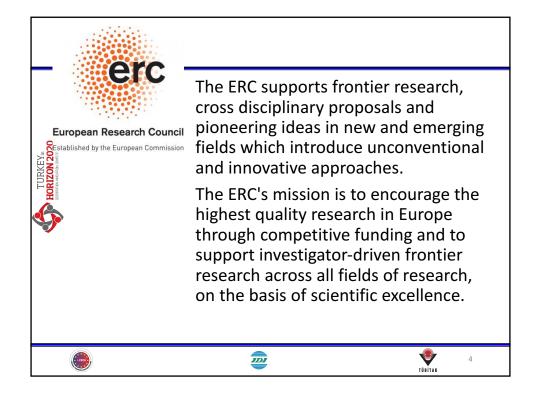


Activities under this Pillar aim to reinforce and extend the excellence of the Union's science base and to consolidate the European Research Area in order to make the Union's research and innovation system more competitive on a global scale.





ERC Grants

ERC Starting Grant for young, early-career top researchers (2-7 years after PhD) -up to 1.5 million euro for a period of 5 years.



ERC Consolidator Grant for already independent excellent researchers 7-12 years after PhD) -up to 2 million euro for a period of 5 years.

ERC Advanced Grant for senior research leaders with significant research achievements in the last 10 years -up to 2.5 million euro for a period of 5 years.

ERC Proof of Concept Grants for ERC grant holders who want to check the market and/or innovation potential of research results from ERC-projects -up to 150,000 euro for a period of 12 months.







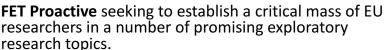
5

Future and emerging technologies

FET actions are expected to initiate radically new lines of technology through unexplored collaborations between advanced multidisciplinary science and cutting-edge engineering.



FET Open funds projects on new ideas for radically new future technologies



FET Flagships are 1-billion, 10-years initiatives where hundreds of excellent European researchers unite forces, like understanding the <u>Human Brain</u> or developing the new materials of the future, such as Graphene.

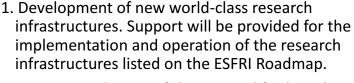


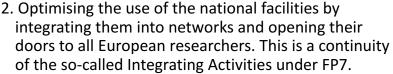




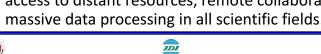
Research infrastructure (e-infrastructures)

Three types of activities:





3. Support further deployment and development of ICT based e-infrastructures which are essential to enable access to distant resources, remote collaboration, and massive data processing in all scientific fields.



Marie Skłodowska-Curie Actions

 The Marie Skłodowska-Curie actions (MSCA) provide grants for all stages of researchers' careers - be they doctoral candidates or highly experienced researchers - and encourage transnational, intersectoral and interdisciplinary mobility.













Marie Skłodowska-Curie Actions (MSCA)

Main objective

 Ensure the optimum development and dynamic use of Europe's intellectual capital in order to generate new skills and innovation

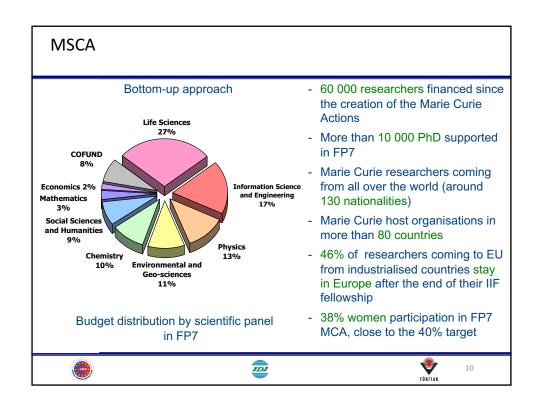
Rationale

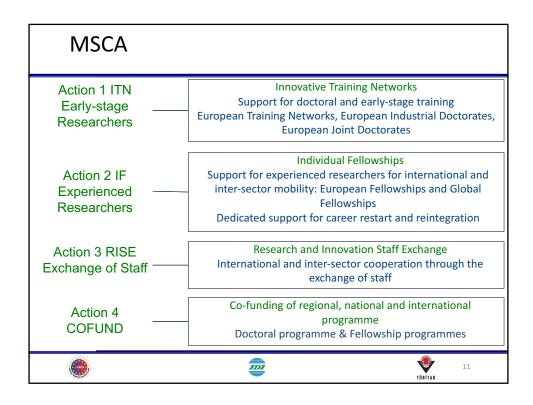
- Encourage new, creative types of training
- Identify excellent talents in research and innovation in international competition
- Make best researchers in Europe and the world work together across countries, sectors and disciplines
- Create a whole new mind-set in Europe, crucial for entrepreneurship and innovation

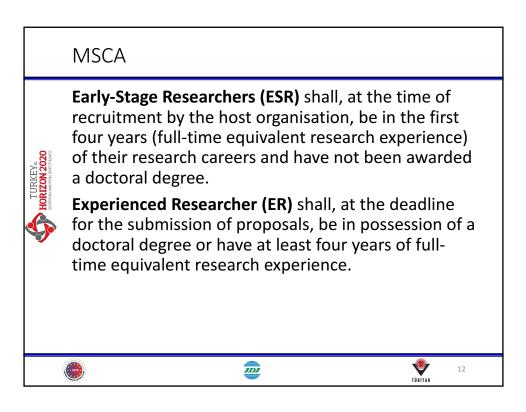












Innovative Training Networks - ITN

 To train a new generation of <u>creative</u>, <u>entrepreneurial and innovative early-stage</u> <u>researchers</u> able to face current and future challenges ...



 To raise excellence and structure research and doctoral training, extending the traditional academic research training setting, and equipping researchers with the right combination of research-related and transferable competences.







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Individual Fellowship - IF

Individual Fellowships (IF): enhancing the creative and innovative potential of Experienced Researchers who wish to diversify their individual competence in terms of skill acquisition through advanced training, international and intersectoral mobility.



IF provide opportunities to acquire and transfer new knowledge and to work on research in a European context (EU Member States and Associated Countries) or outside Europe.

Support is foreseen for individual, trans-national fellowships awarded to the best or most promising researchers for employment in EU MS or AC, based on an application made jointly by the researcher and host organisation in the academic or non-academic sectors.







Research and Innovation Staff Exchange - RISE

The RISE scheme will promote international and inter-sector collaboration through research and innovation <u>staff exchanges</u>, and sharing of knowledge and ideas from research to market (and vice-versa) for the advancement of science and the development of innovation.



Eligible staff seconded under RISE are ESR and ER







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Research and Innovation Staff Exchange - RISE

At least three independent participants established in <u>three different countries</u> and must respect one of the following two conditions:



 two organisations are located in two different MS/AC and one organisation is located in a TC, independently from the sector they belong to,

Or

 if all three independent organisations are from MS/AC, at least one organisation should be from the academic sector and one from the nonacademic sector.







RISE Example

"ETexWeld: Welding of E-Textiles for Interactive Clothing"

(1/1/15 - 1/1/19, Funding 913,500 Euro)

Coordinator: ISTANBUL TEKNIK UNIVERSITESI



"This project will not only help to develop future generations of entrepreneurial researchers more capable of contributing effectively to the knowledge-based e-textile research area, within and between public and private sectors, but also add to the intersectorial and trans-national employability of these researchers as well as to the attraction of young people to a research career on textile/electronics areas. "

ECOLE NATIONALE SUPERIEURE DES ARTS ET INDUSTRIES TEXTILES; FR TEXNOLOGIES FOTONIKON KAI HLEKTRONIKON SYSTHMATVN AE; EL KIVANC KIMYA SANAYII VE TICARET ANONIM SIRKETI; TR Technological Educational Institute of Piraeus; EL INLAS INTELEKTUALNA LASTNINA IN SVETOVANJE DOO; SI







