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finanse edilmektedir



TURKEYⁱⁿ
HORIZON 2020
COOPERATION. INNOVATION. COMPETITIVENESS

Technical Assistance for Turkey in Horizon 2020 Phase-II

EuropeAid/139098/IH/SER/TR

Developing a successful proposal for the Horizon WIDERA Teaming Call

Section 1 - Excellence
Grigoris Chatzikostas



REPUBLIC OF TURKEY
MINISTRY OF INDUSTRY
AND TECHNOLOGY



COMPETITIVE
AND INNOVATIVE
PROGRAMME



TÜBİTAK

Proposal's Definitions 1/3

Critical risk

A plausible event or issue that could have a high adverse impact on the ability of the project to achieve its objectives.

- Level of likelihood (Low/medium/high)
- Level of severity (Low/medium/high)

Deliverable

A report that is sent to the Commission or Agency providing information to ensure effective monitoring of the project.

- different types of deliverables

Impacts

Wider long term effects on society (including the environment), the economy and science, enabled by the outcomes of R&I investments (long term).

- It refers to the specific contribution of the project to the work programme expected impacts described in the destination.

Impacts generally occur some time **after** the end of the project.

Proposal's Definitions 2/3

Milestone

Control points in the project that help to chart progress.

- correspond to the achievement of a key result
- needed at intermediary points
- may be critical decision points

The achievement of a milestone should be **verifiable**.

Objectives

The goals of the work performed within the project, in terms of its research and innovation content.

- this will be translated into the project's results.
- the nature of the objectives will depend on the type of action, and the scope of the topic.

Outcomes

The expected effects, over the medium term, of projects supported under a given topic.

- the results of a project should contribute to the outcomes fostered by the dissemination and exploitation measures.

Outcomes generally occur shortly **after** the end of the project.

Proposal's Definitions 3/3

Pathway to impact

Logical steps towards the achievement of the expected impacts of the project over time, in particular beyond the duration of a project.

- Begins with the project's results contributing ultimately to the impacts of the Work Programme destination

Research output

Results generated by the action to which access can be given in the form of scientific publications, data or other engineered outcomes and processes such as software, algorithms, protocols and electronic notebooks.

Results

What is generated during the project implementation.

Most project results are 'Intellectual Property', which may, if appropriate, be protected by formal Intellectual Property Rights.

Proposal abstract

- Make it **clear, logical** and **simple** for a new reader
- Prepare a **draft** early, since it is useful to show others, but revise it
- (Usually) start with a statement of what the project will do and include the **goal** and **key objectives**
- Use **words** to introduce paragraphs clearly (paragraph marks may disappear in the system)

Proposal abstract

GATE aims to establish a “BiG DATA for SmarT SociEty” Center of Excellence in Bulgaria, in order to provide focus for increased scientific excellence and sustained Big Data growth, through attractive and stimulating research environment, advanced infrastructure supporting open innovation and vibrant ecosystem to enable responsive research and innovation.

GATE Center of Excellence will be fully autonomous and purpose-built institute, established as a joint initiative between Sofia University - the most prestigious educational and scientific hub in Bulgaria, Chalmers University of Technology, Sweden - outstanding European institution with extensive experience in research, education and innovation in Big Data area and Foundation Chalmers Industrial Technology, Sweden – a leader in innovation management, university-industry collaboration and technology transfer.

GATE is a timely initiative that is fully exploiting the opportunities created by the innovation ecosystem boost and the Big Data market pull in Bulgaria, the Artificial Intelligence technological push in Sweden and the EU and global research and development urge for Big Data. The CoE will deliver economic and societal benefits through training data professionals and fostering closer collaboration between academia, government and industry, thus helping Bulgarian organisations and industry in various sectors to become, and remain, competitive.

Being the only Big Data CoE to be established in Eastern Europe, GATE will bridge the gap between the 55 centres in Western Europe and Eastern Europe and will play a strategic role for disseminating the best practices and innovative models to the widening countries.

Proposal abstract

The present Teaming second phase application will create the first Centre of Excellence in Ageing Research in Southern Europe and in a R&D low-performing EU member state, to reduce disparities and to bridge the gap between fundamental research and its translation into human intervention. The new Centre of Excellence, the Multidisciplinary Institute of Ageing (MIA-Portugal), will be a new Strategic Research Institute with the University of Coimbra as the core scientific element of a new living laboratory, Ageing@Coimbra'.

The overall objective of the new Centre of Excellence is to improve health and wellbeing of an ageing population and benefit from excellence science and innovation potential to deliver business opportunities. Based on an international forefront position in Biology of Ageing, it will create knowledge to promote healthy living, develop, validate and deliver interventions that improve human healthy life expectancy, with a specific focus on those members of both genders of the population with the lowest healthy life expectancy, and promote innovation transfer into practices and services. This will contribute to reduce the socioeconomic burden of chronic diseases and inadequate ageing of population and will foster functional independence, stimulate the economy and raise new high-qualified jobs.

MIA-Portugal will be a stepping-stone and sustainable flagship project of the Centro Region of Portugal. The direct investment of MIA-Portugal mounts to >50 million euros. MIA-Portugal is a teaming partnership between the University of Coimbra (UC) (partner in a low R&D-performing country) and the University of Newcastle (UNEW) plus the University Medical Center Groningen (UMCG) (partners in high R&D-performing countries), with strong support from a Technology Park (IPN) and the Regional Authority CCDRC, and synergies with EIT Health Knowledge and Innovation Communities and the European Innovation Partnership on Active and Healthy Ageing Reference Sites.

1. Excellence

Aspects to be taken into account

only to the extent that the proposed work is within the scope of the work programme topic

- *The results of your project should make a contribution to the expected outcomes set out for the work programme topic over the medium term, and to the wider expected impacts set out in the 'destination' over the longer term.*

Objectives 1/2

- Briefly **describe** the objectives of your proposed work
- Explain why the objectives of your proposed work are **pertinent** to the work programme topic
- Specify that your objectives are **measurable and verifiable**
- Indicate whether the objectives are **realistically achievable**

Objectives 2/3

SPECIFIC CHALLENGES

[Offer a clear description of the main Needs and Challenges (that will be addressed by the project and is in alignment with the scope of the topic)]

OPPORTUNITY

[Present the contextual characteristics that render the proposed solution or the identification of a solutions package an Opportunity]

[ProjName] TARGETED BREAKTHROUGH

[Present in a concrete, simple and straightforward way what the project will offer as a Solution and what will be the Expected Results to the above challenges, needs and opportunities (write a first draft at the initial stages and then continuously refine the content and include project impact figures to highlight the expected results contribution early on)]

[This should be a vision statement, it describes the direction and aspiration of the project. The vision statement will be the foundation of the strategic plan]

Objectives 3/3

- Teaming is one of the actions that stimulates Europe exploiting its potential by **maximizing and spreading** the benefits of research and innovation.
- The Teaming action is designed to support the **creation of new centers of excellence** or **upgrading the existing ones** in low R&I performing countries, building on partnerships between leading scientific institutions in Europe and the main beneficiary institutions in low R&I performing countries

Key Objectives

KO#1: XXX

XXX

Relation to the work programme topic: XXX

Linked needs: (aligned with Section 2.3)

Linked partners: Partner 1,2,5 etc.

Linked deliverables: Del 1.2, 3.4

Linked impacts: #2, #5

Linked outcomes: #1, #3 etc.

Linked WP/tasks: WP1 (T1.1) etc.

Objectives - example

Objectives



Increased level of research excellence

- To promote BBCE institution staff, PhD students and Early Stage Researchers (ESR) integration in the international scientific environment
- To develop the research capabilities and capacity of BBCE
- To increase the capability of attracting funds

Increased level of innovation

- To deliver and share the gained knowledge
- To transfer the knowledge
- To ensure the sustainability of BBCE product development and further growth

Advanced biomaterial development for medical applications

- To transfer the innovations in medical devices to patients through industry and/or other international research partners
- To establish a full cycle for biomaterial development from material science to clinics
- To ensure continuous upgrading of BBCE staff knowledge in biomaterials development, testing and transferring to clinics
- To strengthen collaboration with existing competence centres and propose a dedicated competence centre on medical devices

Objectives - example

GATE objectives

Efficient
operation

Capacity
strengthening

Vibrant
ecosystem

Data driven
innovations

International
visibility and
recognition



Coordination and/or support measures and methodology 1/3

- Describe and explain the coordination and/or support measures and the overall methodology including the concepts, models and assumptions that underpin your work.
 - project scope and identity
 - conceptual architecture
- Explain how this will enable you to deliver your project's objectives.
- Refer to any challenges you may have identified in the chosen methodology and how you intend to overcome them

<i>Challenge</i>	<i>How [ProjName] tackles the challenge</i>
	[...]

 *Where relevant, include how the project methodology complies with the ‘do no significant harm’ principle as per Article 17 of Regulation (EU) No 2020/852 on the establishment of a framework to facilitate sustainable investment (EU Taxonomy Regulation).*

Coordination and/or support measures and methodology - Example

Big data for Smart Society

SOFIA UNIVERSITY
ST. KLIMENT OHRIDSKI



CHALMERS
UNIVERSITY OF TECHNOLOGY



WHY NOW?

- By 2020:
 - 10,43 mil** Data workers
 - 360 000** data companies
 - 739 billion** euro Data economy values
- **55 BIG DATA COEs**
- **100 mil** euro in Sweden

WHY US?

- Sofia University
 - 1st** ranked in Bulgaria
- Chalmers
 - +600** EU funded projects;
 - 257 mil** euro funding per year
- CIT
 - activities in **49 countries**,
 - 1800+** customers

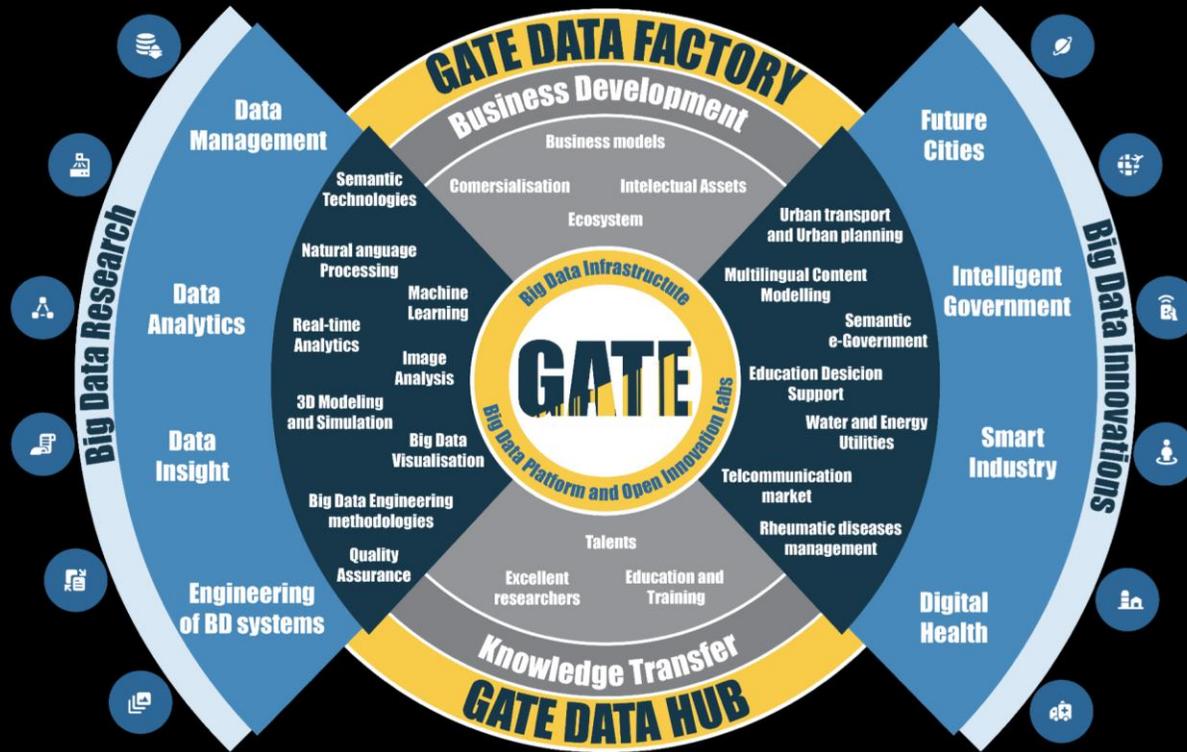
WHY HERE?

- **15% of Bulgarian GDP** from ICT
- **10%** growing innovation ecosystem
- **100+** participants from **10+** countries in Datathon
- Regional HPC Center
- **1st** BDVA meet-up in Sofia
- R&D departments



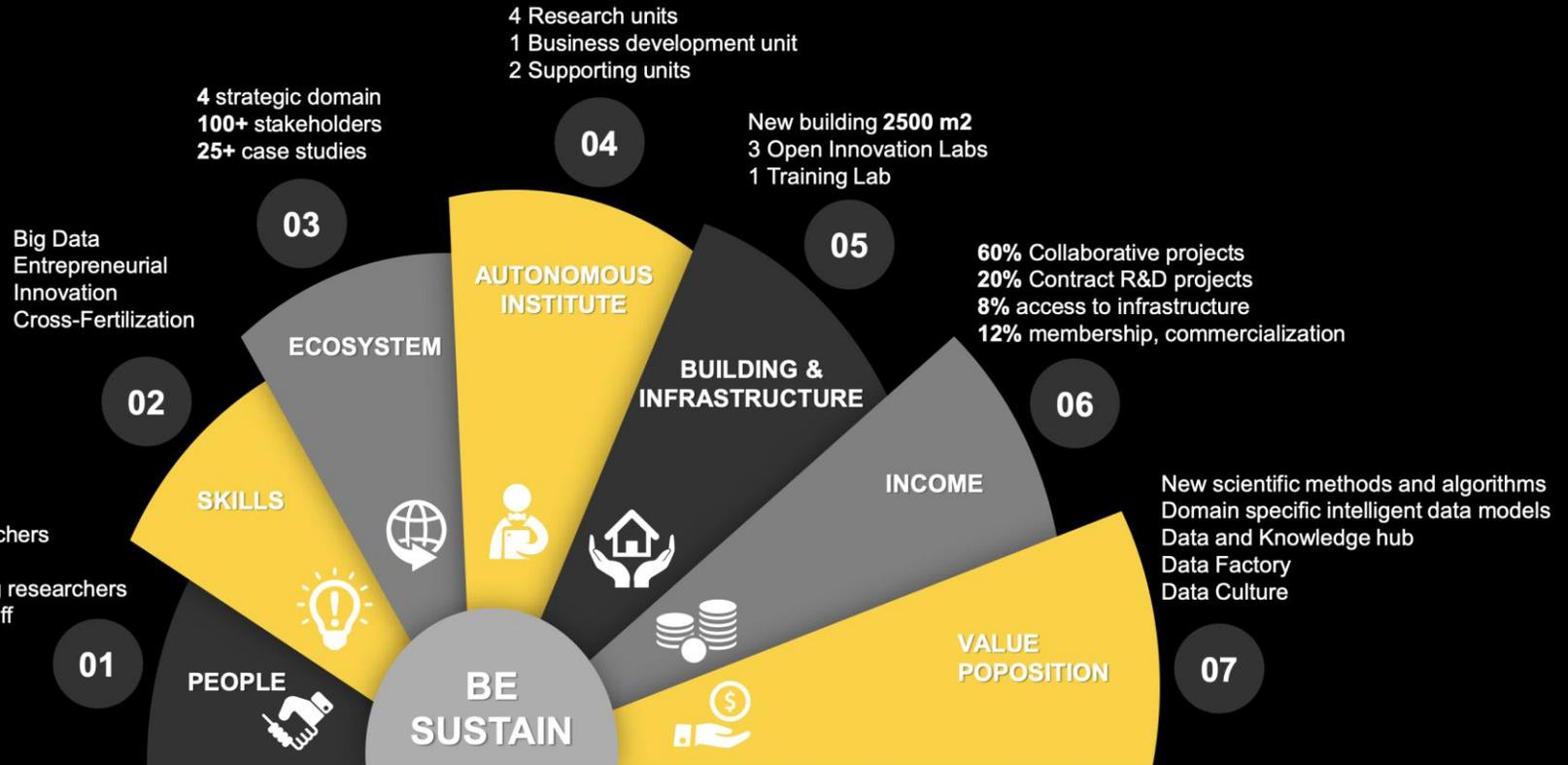
Coordination and/or support measures and methodology - Example

GATE concept



Coordination and/or support measures and methodology - Example

Investment in people and infrastructure



Coordination and/or support measures and methodology 2/3

- Describe how appropriate **open science practices** are implemented as an integral part of the proposed methodology.
- Show how the choice of practices and their implementation are adapted to the nature of your work, in a way that will increase the chances of the project delivering on its objectives.
- If you believe that none of these practices are appropriate for your project, please provide a justification here.

 *Open science is an approach based on open cooperative work and systematic sharing of knowledge and tools as early and widely as possible in the process.*

 *Please note that this question does not refer to outreach actions that may be planned as part of communication, dissemination and exploitation activities. These aspects should instead be described below under 'Impact'.*

Coordination and/or support measures and methodology – Open Science



Components of Open Science



CC-BY Danny Kingsley & Sarah Brown



Coordination and/or support measures and methodology 3/3

Research data management and management of other research outputs:

- Applicants generating/collecting data and/or other research outputs (except for publications) during the project must provide maximum 1/2 page on how the data/research outputs will be managed in line with the FAIR principles (Findable, Accessible, Interoperable, Reusable).

 *For guidance on open science practices and research data management, please refer to the relevant section of the [HE Programme Guide](#) on the Funding & Tenders Portal.*

Coordination and/or support measures and methodology FAIR principles

FAIR Principles

Compliance



Findability

Resource and its metadata are easy to find by both, humans and computer systems. Basic machine readable descriptive metadata allows the discovery of interesting data sets and services.

- ✓ F1. Resource is uploaded to a public repository.
- ✓ F2. Metadata are assigned a globally unique and persistent identifier.



Accessibility

Resource and metadata are stored for the long term such that they can be easily accessed and downloaded or locally used by humans and ideally also machines using standard communication protocols.

- ✓ A1. Resource is accessible for download or manipulation by humans and is ideally also machine readable.
- ✓ A2. Publications and data repositories have contingency plans to assure that metadata remain accessible, even when the resource or the repository are no longer available.



Interoperability

Metadata should be ready to be exchanged, interpreted and combined in a (semi)automated way with other data sets by humans as well as computer systems.

- ✓ I1. Resource is uploaded to a repository that is interoperable with other platforms.
- ✓ I2. Repository meta- data schema maps to or implements the CG Core metadata schema.
- ✓ I3. Metadata use standard vocabularies and/or ontologies.



Reusability

Data and metadata are sufficiently well-described to allow data to be reused in future research, allowing for integration with other compatible data sources. Proper citation must be facilitated, and the conditions under which the data can be used should be clear to machines

- ✓ R1. Metadata are released with a clear and accessible usage license.
- ✓ R2. Metadata about data and datasets are richly described with a plurality of accurate and relevant attributes.

Teaming For Excellence: Excellence



Q & A

Contact:

Office Address

*Turkey in Horizon 2020 Project
And Sokak 8/12 Akasya Apt. 06680 Çankaya/Ankara
06520 Çankaya/Ankara,Turkey
Tel: +90 312 467 61 40
<http://www.turkeyinh2020.eu/>
info@TurkeyinH2020.eu*



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Teşekkür ederim!

Thank you!



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