



# Integrated Safeguards Data Sheet Identification / Concept Stage (ISDS)

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Concept Stage | Date ISDS Prepared/Updated: 02-Aug-2018 | Report No: ISDSC25240



**BASIC INFORMATION**

**A. Basic Project Data**

Project ID	Project Name	Environmental Category	Country
P168167	Supporting Critical Infrastructure Resilience and Disaster-Risk Awareness in Turkey	C - Not Required (C)	Turkey
Team Leader(s)	Estimated Date of Approval	Managing Unit	Financing Instrument
Esse Ayse Erkan Orenbas		GSU09	Investment Project Financing

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**PROJECT FINANCING DATA (US\$, Millions)**

**SUMMARY**

<b>Total Project Cost</b>	1.00
<b>Total Financing</b>	1.00
<b>Financing Gap</b>	0.00

**DETAILS**

**Non-World Bank Group Financing**

Trust Funds	1.00
Global Facility for Disaster Reduction and Recovery	1.00

**B. Project Development Objective(s)**

The Project Development Objective is to inform building resilience into critical infrastructures and support disaster risk awareness at the community level.

**C. Project Description**

**Component 1. Supporting Disaster Risk Awareness Raising**

TUBİTAK, The Scientific and Technological Research Council of Turkey, is the leading agency responsible for the management, funding, and conducting of research in Turkey. TUBİTAK holds thirteen Science Centers across the country with 5 of them currently open to visitors and 8 of them under construction. Science centers assume a critical role in Turkey in terms of rendering scientific culture more widespread, TUBİTAK aims to increase state-of-the-art science centers in the country and display local (municipalities,



governorships, universities) and national authorities' scientific and information dissemination projects which go beyond conventional methods.

The Component aims to facilitate establishment of disaster risk awareness raising corners/zones within science centers. Currently certain Science Centers hold designated space to accommodate DRM equipment demonstrating hydraulic shaking, panels that visualize movements of fault lines that cross the country, an interactive section/panel through which audience can direct with their body movements to simulate seismic events and an informatory section on volcanic activities. This component will finance establishment of disaster risk awareness raising zones within these science centers in Turkey that would inform the overall society on why and how disasters happen, how to take prevention measures against disasters, how to behave during and after major disasters, structural and non-structural consequences of and preparatory measures against natural disasters. The equipment to be designed, procured and mantled will be multi-hazard in nature and complement learning abilities of groups that are not necessarily scientists or DRM experts. The science centers staff will also be gathered in a technical workshop tackling with the content, nature, use and maintenance of the newly introduced equipment and the way they complement learning abilities of target groups.

Given the vast outreach capacity of science centers the activity will provide ample opportunity to expose individuals, public institutions and NGOs to disaster risk information, empower community-based disaster awareness raising and set an example for other Science Centers across the country.

## **Component 2. Critical infrastructure**

Critical infrastructure is an asset or system which is essential for the maintenance of vital societal functions. Reducing the vulnerabilities of critical infrastructure and increasing their resilience against natural disasters, terrorism or malicious behavior requires fostering prevention and preparedness by improving the protection of critical infrastructures and addressing crisis management. This notion is also a key agenda item within the European Union and has its reflections on pre-accession countries like Turkey. To this end, the Component will finance development of an advisory note that builds on the 2008 Directive on European Critical Infrastructures and informs protection of critical infrastructures by providing a scientific basis for a better understanding of criticalities and interdependencies at all levels in Turkey while looking into international best practices.

This component will also finance a follow-up multi-hazard risk assessment on energy and logistics sector and develop an adaptation plan at sectorial scale. This work will be an opportunity to conduct impact studies to strengthen the competitiveness within these sectors by minimizing their business/service disruption. The locality of the assessment will be identified via factoring the intensity of assets in a given locality, information availability, replication opportunities, priority for the region, etc. The Component will also facilitate conduct of a technical workshop that would enable dissemination of results and participation of public and private entities, business owners, decision-makers etc. The workshop will serve as a platform the showcase good practices conducted in those settings whose risk and infrastructure profiles are similar to that of Turkey and trigger peer learning and networking opportunities.



The Component will lastly finance establishment of an online platform to be administered by AFAD and accessible to stakeholders of all natures. The platform will embody a critical infrastructure risk assessment matrix that would help stakeholders rank the risk that predominantly threatens their assets, lives and savings. The matrix will be multi-hazard in nature whilst clustering different scenarios, return periods and would factor in proxies to compute the domino effect/cascading impact that critical facilities and their production/service streams would be subject to in given disasters. This would help AFAD develop a critical infrastructure mapping at the national scale and instill prevention/preparedness measures accordingly. The activities identified under Component 2 will seek alignment and coordinating with Japan Program's collaboration with the FCI team on Resilient Industry, to the extent possible.

### **Component 3. Business Continuity Planning**

The component will facilitate conduct of analytical work to assess varying dependencies on lifeline utilities, their capacity to withstand service outage and the impact on their supply-chain. This work will be an opportunity to work at SME-level, opening a whole new field of business for risk assessment and impact studies to strengthen the competitiveness along the supply chain and better understanding their dependency on lifeline utilities. It will develop a business continuity plan for a selected sector that could then be tailored down to product level. The study will also use and adapt the concepts of domino impact (spill-over impact within the same sector) and cascading impact (spill-over impact in other sectors). The activities identified under Component 3 will seek alignment and coordinating with Japan Program's collaboration with the FCI team on Resilient Industry, to the extent possible.

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## **SAFEGUARDS**

### **D. Project location and salient physical characteristics relevant to the safeguard analysis (if known)**

The Project is predominantly composed of analytical work that is coupled with a goods provision and installation activity to take place in Konya TUBITAK Science Center (Component 1). No civil works will take place. Should there be any changes in the location the Task Team will be informed accordingly to mitigate potential impacts (if any). The analytical work to be produced under Component 2 and 3 on critical infrastructure and business continuity planning respectively, will take into account the safeguards policies of the Bank and the outputs will not be in conflict with the principles of the safeguard policies. The Project is expected to have positive social impacts to the community-at-large. The project aims to set up disaster risk awareness zones within the already established Science Centers of TUBITAK. In terms of Bank's safeguards policies, since the Project aims to involve mainly consultancy works and minimal goods provision, no land acquisition or resettlement will take place hence OP 4.12 will not be triggered. Since the main beneficiaries of these centers will be students and the local community, and moreover that these places are expected to



turn into public spaces it would be important to consider the following aspects to make sure that the center is accessible and inclusive by all means to the extent possible such as (i) integrating inclusive design aspects such as accessible for elderly, disabled and making it gender-friendly as well as child proof (ii) equipping science center staff to benefit from awareness training not only in the technical side of the DRM field but also in the psycho-social aspects that may relate to adverse emotions for some participants (especially those who had disaster related negative experience or trauma) who may come and want to benefit from these centers.

**E. Borrower’s Institutional Capacity for Safeguard Policies**

The Recipient has been a partner in a number of BETF activities financed by the Bank up until recent past. Hence they are familiar with the safeguards policies of the Bank. Given the analytical work predominant nature of the Project none of the safeguards OPs are triggered. However the Safeguards Team will provide regular implementation support as needed and close follow up to Project activities once implementation starts

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**F. Environmental and Social Safeguards Specialists on the Team**

Arzu Uraz Yavas, Social Safeguards Specialist  
Esra Arikan, Environmental Safeguards Specialist

**G. Policies that might apply**

Safeguard Policies Triggered by the Project	Triggered?	Explanation (Optional)
Environmental Assessment OP/BP 4.01	No	
Natural Habitats OP/BP 4.04	No	
Forests OP/BP 4.36	No	
Pest Management OP 4.09	No	
Physical Cultural Resources OP/BP 4.11	No	
Indigenous Peoples OP/BP 4.10	No	
Involuntary Resettlement OP/BP 4.12	No	
Safety of Dams OP/BP 4.37	No	
Projects on International Waterways OP/BP 7.50	No	
Projects in Disputed Areas OP/BP 7.60	No	

**H. Safeguard Preparation Plan**



**Appraisal stage ISDS required? Yes**

a) Tentative target date for disclosing the appraisal stage ISDS

26-Jul-2018

b) Time frame for launching and completing the safeguard-related studies that may be needed.

Since none of the safeguards policies are triggered, no safeguard-related studies will be required.

**APPROVALS**

Team Leader(s):	Esse Ayse Erkan Orenbas
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**Approved By**

Safeguards Advisor:	Nina Chee	03-Aug-2018
Practice Manager/Manager:	David N. Sislen	06-Aug-2018

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<sup>1</sup> Reminder: The Bank's Disclosure Policy requires that safeguard-related documents be disclosed before appraisal (i) by the Bank and (ii) in country by the Borrower/Recipient, at publicly accessible locations and in a form and language that are accessible to potentially affected persons.