

Republic of Turkey The Ministry of Forestry and Water Affairs



FFGS-SUPPORTED URBAN FLASH FLOOD WARNING SYSTEMS

Presented byBahattin Aydin*bahatAli İhsan Akbaş*aiakbOzge Yilmaz*ozgey

bahattinaydin@mgm.gov.tr aiakbas@mgm.gov.tr ozgeyilmaz@mgm.gov.tr

Turkish State Meteorological Service, Research Department, Hydrometeorology Division.

REQUIRED DATA AND DATA AVAILABILITY 14-15 August, 2017



World Meteorological Organization (WMO)



Hydrologic Research Center (HRC)









U.S. Agency for International Development (USAID)



Teleconference on 13th Oct, 2016



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First meeting of the project was held on 13th October, 2016 with the participation of WMO, HRC, TSMS and AKOM through teleconference.



Project Area Determination





5 basin area was recommended by AKOM for the Urban Flash Flood Early Warning System pilot project.

The data in the following are available in the boundary of the basin as digital or shape in AKOM and relevant agencies.

- •Basin and sub-basin information
- Stream information (length and cross-section)
- Flood risk maps (HEC-RAS)
- •High resolution DEM data
- Sewerage infrastructure information



Data Transfer





To implement Urban Flash Flood Early Warning System to the FFGS project, Istanbul was chosen as a pilot area by AKOM ,and **Cendere Basin** was the most convenient area to obtain the best measurements. Since Cendere Basin is bigger compared to the others, HRC also agreed with this basin for the project.



Required Data





The boundary, sub-basins, and drainage lines of Cendere Basin were determined with Archydro and 10-m DEM data. Precipitation area was computed as 181.4 km².

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Required Data by HRC



High resolution precipitation data from radar, rain gauges and satellite
30-m or above Digital Elevation Model
High resolution precipitation estimates (in the case of snowmelt, temperature is also required)
Flow data for Cendere basin from DSI
High resolution sewage-infrastructure information
Soil structure information





Thank you for your attention!