REPUBLIC OF TURKEY
MINISTRY OF INTERIOR

DISASTER AND EMERGENCY MANAGEMENT PRESIDENCY
(AFAD)

Davut ŞAHİN
28.01.2019
Kobe/JAPAN
POST-DISASTER INFRASTRUCTURE RECOVERY WORKS
BY AFAD
Context

01. AFAD ORGANIZATION

02. RECOVERY PHASE

03. WORKFLOW of NATIONAL AID

04. EXAMPLES FROM RECENT DISASTERS

05. LESSONS LEARNED AND STRATEGIES FOR INFRASTRUCTURE RECOVERY IN DÜZCE
DEPARTMENTS of AFAD

01 EARTHQUAKE
02 VOLUNTEER AND DONOR
03 FOREIGN RELATIONS AND HUMANITARIAN AİD
04 PERSONNEL AND SUPPORT SERVICE
05 INFORMATION SYSTEM AND COMMUNICATION
06 STRATEGY DEVELOPMENT
07 EDUCATION
08 INSPECTION SERVICES
09 CIVIL DEFENSE
10 PLANNING AND RISK REDUCTION
11 RESPONSE
12 RECOVERY

Disaster and Emergency Management Presidency
6 WORKING GROUPS

1. DAMAGE ASSESSMENT WORKING GROUP
2. NATIONAL AID WORKING GROUP
3. RIGHT OWNERSHIP and INDEBTMENT WORKING GROUP
4. SPATIAL PLANNING WORKING GROUP
5. PSYCHOSOCIAL SERVICE WORKING GROUP
6. PROJECT and CONSTRUCTION WORKING GROUP
FINANCIAL AID FOR BASIC NEEDS

- Food
- Medical Treatments
- Temporary Sheltering
- Etc.

FINANCIAL AID FOR INFRASTRUCTURAL REQUIREMENTS

- Road
- Drinking Water
- Sewage System
- Bridge
- Sustaining Wall
- Purification Facility
FINANCING

Basic Needs
Emergency Aid Fund
Law No. 5902

Infrastructure Requirements
Critical Facilities Fund
Law No. 4123

National Aid Working Group
INSTITUTIONAL ARRANGEMENTS

AFAD
LOCAL

REGIONAL DIRECTORATE of HIGHWAYS

DIRECT. of ENVIRONMENT and URBANIZATION

ILBANK

MUNICIPALITY

PROVINCIAL SPECIAL ADMINIST.
Site survey done by governorships staff and in 15 days time fund for recovery must be demanded from AFAD.

If demand is approved by AFAD then letter of approval is taken.

Transfer of Fund to the Governorship Private Account.
Demand for fund in 15 days time

Commission (AFAD in Province, Environment and urbanization directorate, highway directorate and financial office) make site survey and sends the forms to AFAD central

Demand is reviewed by AFAD and approved fund must also be approved by ministry of finance

Approved fund send to AFAD central account
SOME EXAMPLES FROM RECENT DISASTERS
Damage Photos from Denizli Earthquake

Damaged Building

Damaged Building
Denizli Earthquake Disaster, 2019
Mw: 5.5, App. 2000 Heavy Dam. Dwellings

2,900,000 TL – 487,432 USD
Law No. 5902
TEMPORARY SHELTERING and FOOD AIDS
INFRASTRUCTURE DAMAGE PHOTOS from DÜZCE FLOOD

Infrastructure Damage

Infrastructure Damage
INFRASTRUCTURE DAMAGE PHOTOS from DÜZCE FLOOD

Infrastructure Damage

Infrastructure Damage
EXAMPLES of EMERGENCY AID SENT TO RECENT DISASTERS

Düzce Flood Disaster, 2019

6.500.000 TL – 1.092.418 USD
Law No. 5902

41.730.000 TL – 7.013.527 USD
Law No. 4123

AFAD 20/28
LESSONS LEARNED AND STRATEGIES FOR INFRASTRUCTURE RECOVERY IN DUZCE
SOME BASIC CAUSES OF INFRASTRUCTURE DAMAGES IN DUZCE

1. Incorrect Land Use
2. External Interventions to Stream Beds
3. Insufficient Road Crossing Structures
4. Landslides and Slope Collapses due to Flood
5. Sedimentation
[SOME STRATEGIES TO MAKE THE INFRASTRUCTURE MORE RESILIENT]

Cleaning and Expansion of Stream Beds

Cleaning and Expansion of Stream Beds
SOME STRATEGIES TO MAKE THE INFRASTRUCTURE MORE RESILIENT

Change of Road Route

Change of Road Route
 SOME STRATEGIES TO MAKE THE INFRASTRUCTURE MORE RESILIENT

Road Crossing Construction, Pipe culvert

Düzce Flood, 2019
SOME STRATEGIES TO MAKE THE INFRASTRUCTURE MORE RESILIENT

Reconstruction with Today’s Techniques

Reconstruction with Today’s Techniques
SOME STRATEGIES TO MAKE THE INFRASTRUCTURE MORE RESILIENT

[Image of bridge with reconstruction work] Reconstruction with Today’s techniques

[Image of flood area with reconstruction work] Reconstruction with Today’s techniques
THANK YOU
FOR YOUR ATTENTION