



**TURKISH COURT OF ACCOUNTS
«AUDIT ON FLOOD RISK MANAGEMENT (2019-2020)»**

**CÜNEYT AVŞAR
PRINCIPAL AUDITOR**

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AUDIT ON FLOOD RISK MANAGEMENT

OBJECTIVE

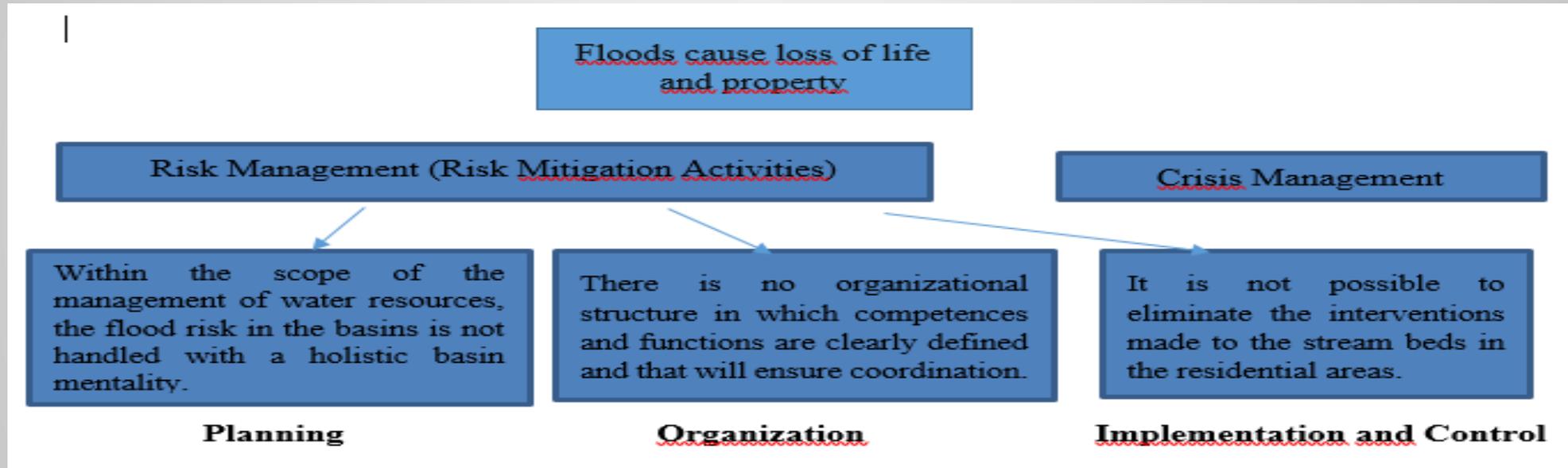
Evaluation of whether the activities carried out to reduce flood risks are planned properly and the effectiveness of the practices carried out within the framework of the current organizational structure and legislation.

SCOPE

The audit focused on risk reduction activities carried out in order to prevent floods that occur as a natural event from turning into a disaster and to keep possible damages to a minimum. The audit covers flood risk mitigation activities between 2012 and 2019, when river basin-based flood risk management was started.

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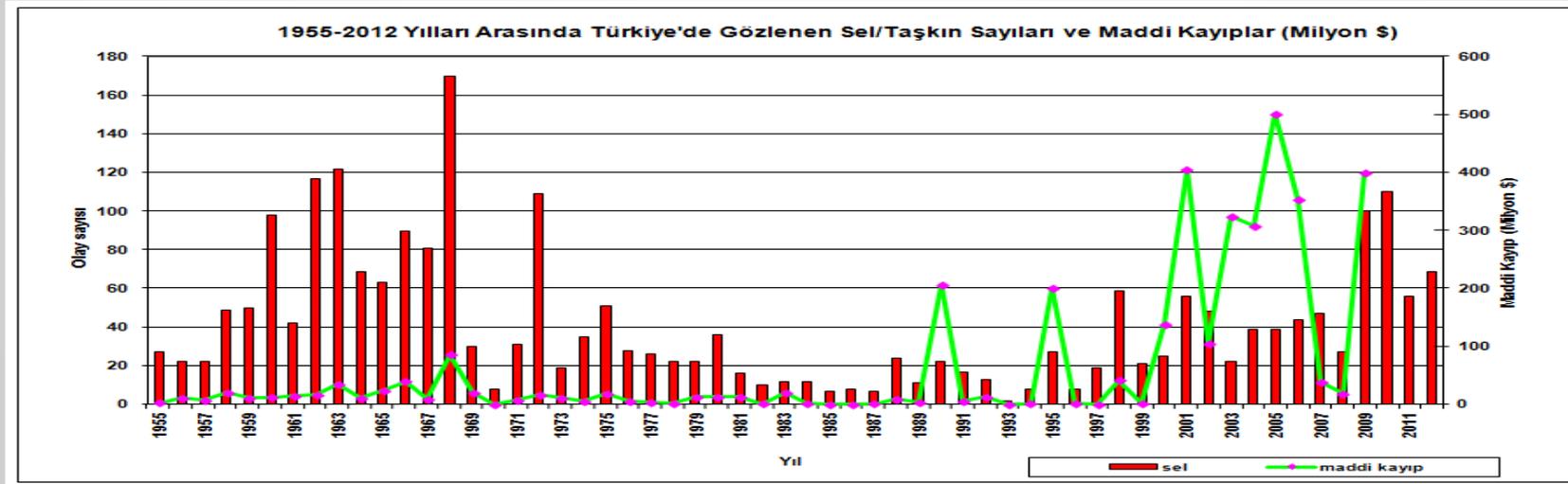
PROBLEM ANALYSIS



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MATERIALITY

FLOODS-LOSSES



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MATERIALITY

- **Flood, ranks second among all disasters and first among meteorological disasters in terms of loss of life and property in our country.**
- **Considering the number of occurrences of floods over the years, the recent increase is remarkable. It is possible to see the same increase in the number of people affected by the flood and financial losses.**
- **It is noteworthy that the financial losses in the floods that have occurred in recent years are high.**

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AUDIT QUESTIONS

QUESTION 1: IS THE PLANNING AND ORGANIZATIONAL STRUCTURE SUFFICIENT TO REDUCE THE FLOOD RISK?

QUESTION 2: ARE MEASURES TO REDUCE THE RISK OF FLOODING IMPLEMENTED?

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AUDIT CRITERIAS

- ✓ **THE FLOODS DIRECTIVE (DIRECTIVE 2007/60/EC)**
- ✓ **NATIONAL REGULATIONS**
- ✓ **GOOD PRACTICE**

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AUDIT METHODOLOGY

- ✓ **INTERVIEWS**
- ✓ **DOCUMENT REVIEW**
- ✓ **PRACTICES OF OTHER COUNTRY**

RESPONSIBLE INSTITUTIONS

- MINISTRY OF AGRICULTURE AND FORESTRY**
- GENERAL DIRECTORATE OF STATE HYDRAULIC WORKS**
- LOCAL GOVERNMENTS**
- GENERAL DIRECTORATE OF FORESTRY**

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MAIN FINDINGS

- **Existing organizational structure and working systematic of flood risks at the basin level is not effective.**
- **The boards and committees formed within the framework of the basin management model do not function effectively.**
- **Flood risk is not taken into account sufficiently in the physical planning of residential areas.**
- **The river beds are covered in a way that increases the risk of flooding.**
- **There are interventions such as illegal structures and excavations that increase the risk of flooding in the stream beds.**
- **Inappropriate bridges and culverts increase the risk of flooding in stream beds.**

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Istanbul Flood Risk Map

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Ankara Flood – 2018

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RECOMMENDATIONS

- ❖ **It should be ensured that the boards and committees formed within the framework of the basin management model work more effectively in flood management.**
- ❖ **It should be ensured that the flood risk is taken into account in the planning of residential areas.**
- ❖ **Any intervention that increases the risk of flooding in stream beds should be prevented.**
- ❖ **Bridges and culverts should be constructed in a way that does not increase the risk of flooding.**
- ❖ **Risks should be reduced by making improvements for structures at risk of flooding.**

Thanks for your attention...