

5th Drin Stakeholders Conference

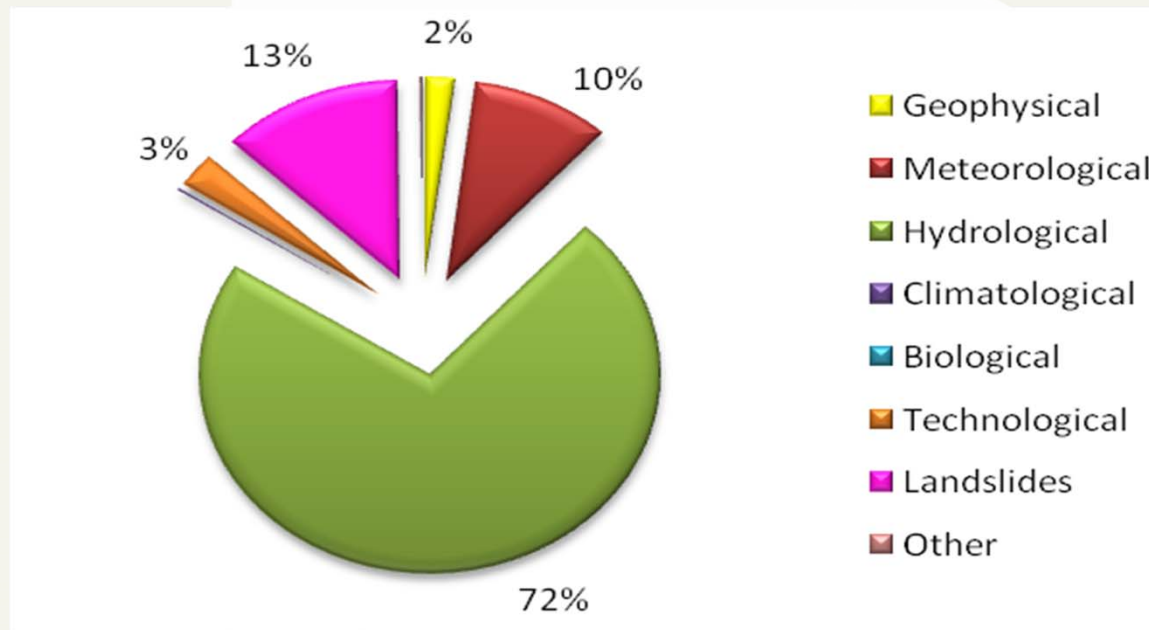
Governance framework for Floods in Albania

Ing. Arduen Karagjozi
Technical Secretariat of National Water Council

21 – 22 November 2017
Podgorica

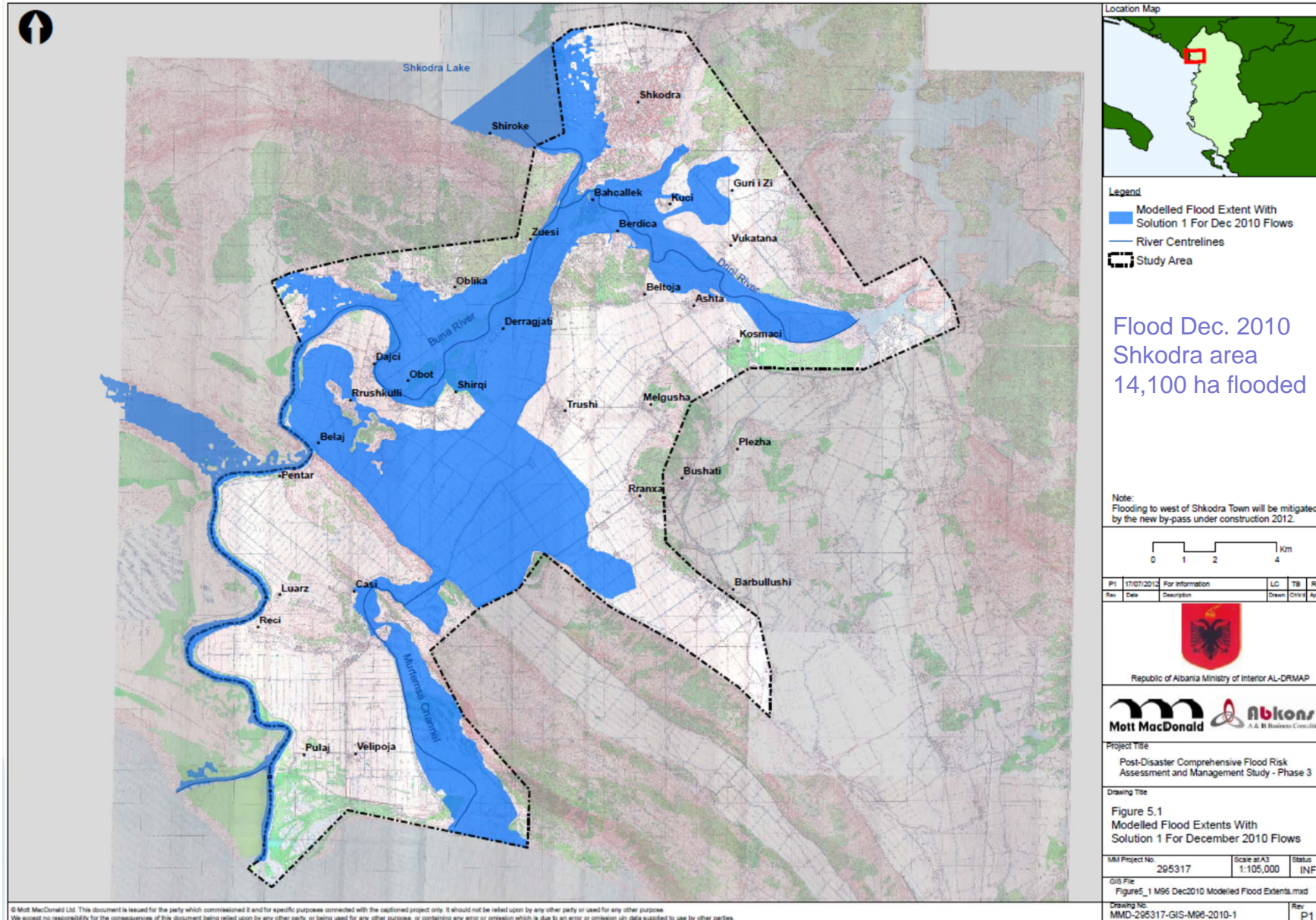
Flood risk and events in Albania

- Albania is vulnerable to a number of man-made and natural disaster risks such as earthquakes, **floods** and drought.



Composition of historical disaster events in Albania from 1851-2013(DesInventar Albania)^[1].

Last years registered floods



Last years registered floods

Flood Feb. 2015 Vjosa river area
12,225 ha flooded



- 
 - 500 Field beds,
 - 1000 Blankets,
 - 8 Generators,
 - Austria • 20 Family tents.
- 
 - 500 Blankets,
 - 100 Family tents.
 - Belgium
- 
 - 50 Blankets,
 - 50 Sleeping bags,
 - 100 Tents,
 - Croatia • 50 000 EUR Donation.
- 
 - 1 000 military Blankets,
 - 300 Blankets,
 - 15 Tents (for 5 persons),
 - 200 Pair of boots,
 - 300 Raincoats,
 - 200 Kitchen set (x5)
 - 1 000 Pads.
 - Montenegro
- 
 - 336 Blankets,
 - 48 Beds,
 - 120 Boots,
 - 2000 Rainproof suits,
 - 6 Suction pumps,
 - 2 000 Towels,
 - 200 Winter coats,
 - 3 Generator.
 - Slovakia

Key institutions dealing with flood issues and events

- National Water Council
- Technical Secretariat of the National Water Council / Council of Basins
- 61 Municipalities
- 12 Prefectures
- Ministry of Defense and its Departments / General Directorate of Civil Emergencies
- Ministry of Agriculture, Rural Development and its departments and institutes / Basin Agencies / Drainage Boards / Scientific Institute of Agriculture Technologies Transfer Centers / Land Use Institute
- Ministry of Tourism and Environment and its departments and institutes / Environmental Inspectorate / National Environmental Agency
- Ministry of Infrastructure and Energy and its departments and Institutes / National Committee of Dams / National Agency of Water Supply and Sewerage/
- Ministry of Education and Science/ Science Academy / Institute of Geoscience, Environment, Water and Environment (IGJEUM)
- Albania Power Corporation (KESH)

Identified projects for flood protection

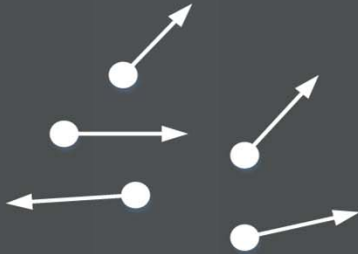
No	Title	District / Basin	Starting date	Ending date	Budget (Euro)	Donor	Beneficiary
1	Feasibility Study – infrastructure enforcement in case of flood events	Mat	June 2011	Mars 2012	-	EU	Albania
2	Pilot Plan - Mat river basin management plan	Mat	-	15.9.2010	-	EU CARDS 2006	Ministry of Environment
3	Risk assessment and post disaster management Flood Risk Management plan for lower Drini basin and Buna Phase 1	Shkodër Basin Drin Bunë	2011	Shtator 2012	-	-	Ministry of Interior General Directorate of Civil Emergencies
4	Risk assessment and post disaster management Flood risk assessment for lower Drini Basin and Buna Phase 2	Shkodër Basin Drin Bunë	2011	Mars 2012	-	-	Ministry of Interior General Directorate of Civil Emergencies
5	ADriaRadNet ADRIatic integrated RADarbased and web-oriented information processing system NETWORK to support hydrometeorological monitoring and civil protection decision	All territory	October 2012	October 2013	2.8 million	EU IPA	Ministry of Interior
6	Vjosa River Basin Management Plan – Initial Stage Analysis and Diagnosis of the Current Situation	Vjosa	2014	2015	-	Rhone Mediterranean Corse France	Albania
7	Climate change adaptation in Western Balkan Flood risk management plan for Shkodra region Component 5 – Evaluation Report - local government support related to floods and droughts risk management plans in Albania and Kosovo	Shkodër Albania Kosovo	2014	2015 2013	3.5 million	GIZ	Ministry of Environment
8	Study – Vjosa basin hydropower potential Prepared by SOGREAH	-	-	2009	-	-	-
9	Disaster risk adaptation and prevention	Drin delta	2008	2013	-	WB	Ministry of Agriculture
10	Programe of measures and preparedness in Drin – Mat delta	Drin Mat	-	2013	-	UNDP	Ministry of Environment

No	Title	District / Basin	Starting date	Ending date	Budget (Euro)	Donor	Beneficiary
11	Programme for Prevention, Preparedness and Response to Floods in the Western Balkans and Turkey (IPA FLOODS). 2015-2016 LOT 1	All territory	1.1.2015	21.12.2016	2 million	EC DG ECHO European Commission's Humanitarian Aid and Civil Protection Department (ECHO)	Albania, BH, Croatia, FYROM, Kosovo, Montenegro, Serbia, Turkey
12	Gap analysis and need assessment in the context of implementing EU flood directive in the Western Balkans	All territory	1.1.2015	September 2015	-	EIB European Investment Bank	Albania, BH, FYROM, Kosovo, Montenegro, Serbia, Turkey
13	Integrated Resources Management Plan for Buna / Bojana area (DRAFT)	Buna	2014	2015	-	MedPartnership Strategic Partnership for the Mediterranean Large Marine Ecosystems	Ministry of Environment of Albania and Montenegro
14	Dam and hydropower safety - Drin – Mat cascade	Drin Mat	2014	2016	-	KfW	-
15	Koman Dam safety, HEC Koman	Kukës	2012	2016	-	EBRD	KESH
16	Albania - EU Recovery Programme for Floods	Vjosa	2015	2016	14.9 million	EC DG ECHO. European Commission's Humanitarian Aid and Civil Protection department (ECHO)	Albania
17	National Action Plan for Waste Minimization of Coastal Area from Anthropogenic Activities	All territory	2015	2016	-	-	Ministry of Environment

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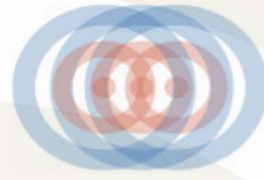
National Sector Program Approach

YESTERDAY



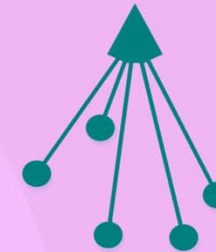
- LACK OF ATTENTION TO THE SECTOR
- POOR PLANNING
- UNCLEAR INSTITUTIONAL ARRANGEMENTS
- INEFFICIENT BUDGETING
- INEFFICIENT INVESTMENTS

TODAY



- INTEGRATED APPROACH
- ESTABLISHMENT OF THE TSNWC
- ALL INCLUSIVE ANALYSES
- ESTABLISHMENT OF THE INTEGRATED POLICY MANAGEMENT GROUP

TOMORROW



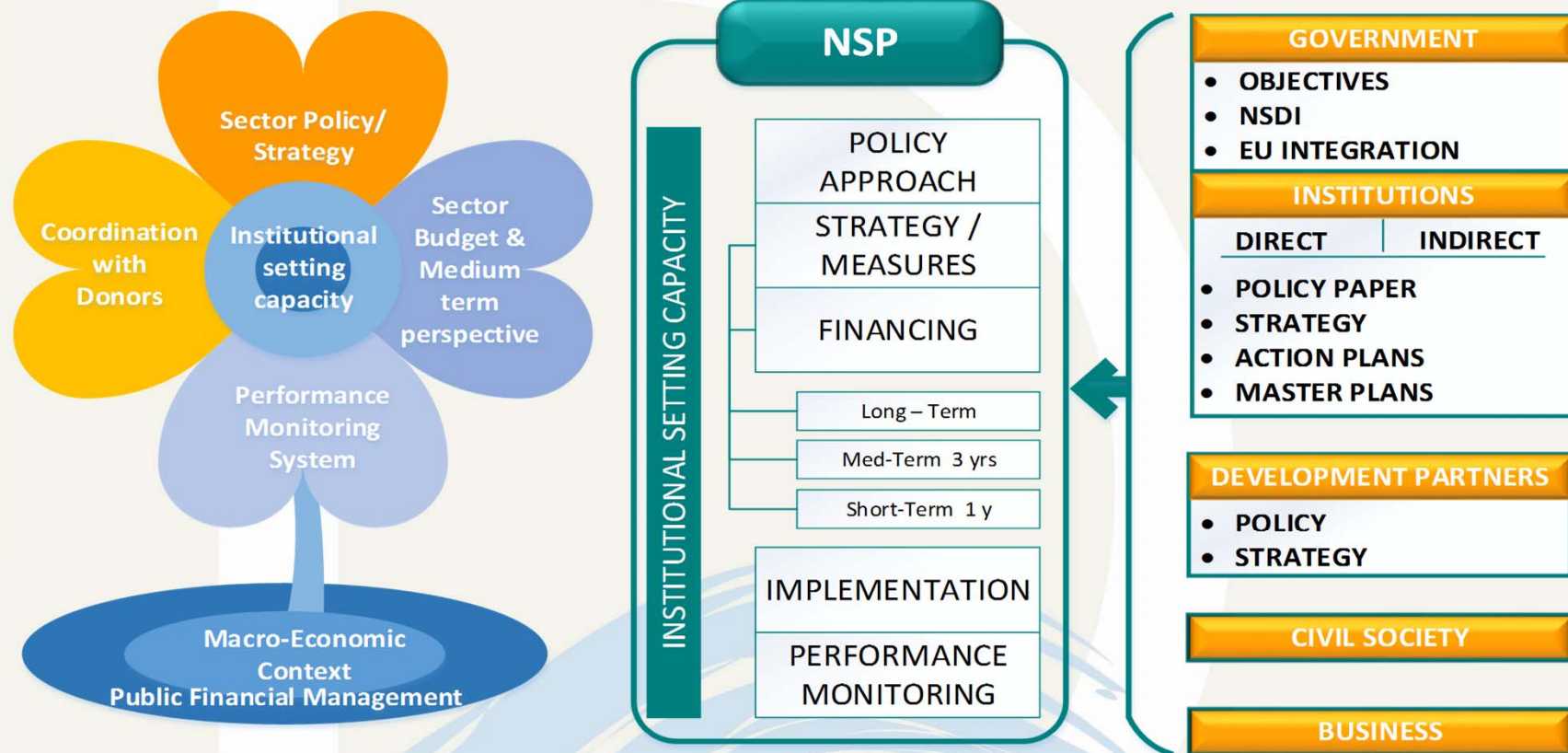
- INTEGRATED OBJECTIVES
- INTEGRATED PLANNING
- INTEGRATED BUDGETING
- COORDINATED INSTITUTIONS
- EFFICIENT MONITORING

INTEGRATED WATER MANAGEMENT

21-22 November 2017

National Sector Program Approach

NATIONAL SECTOR PROGRAMME (NSP)



Source:
Water Sector
Development and Governance:
Complementarities and synergies
between Sector-Wide Approach
and Integrated Water Resource
Management

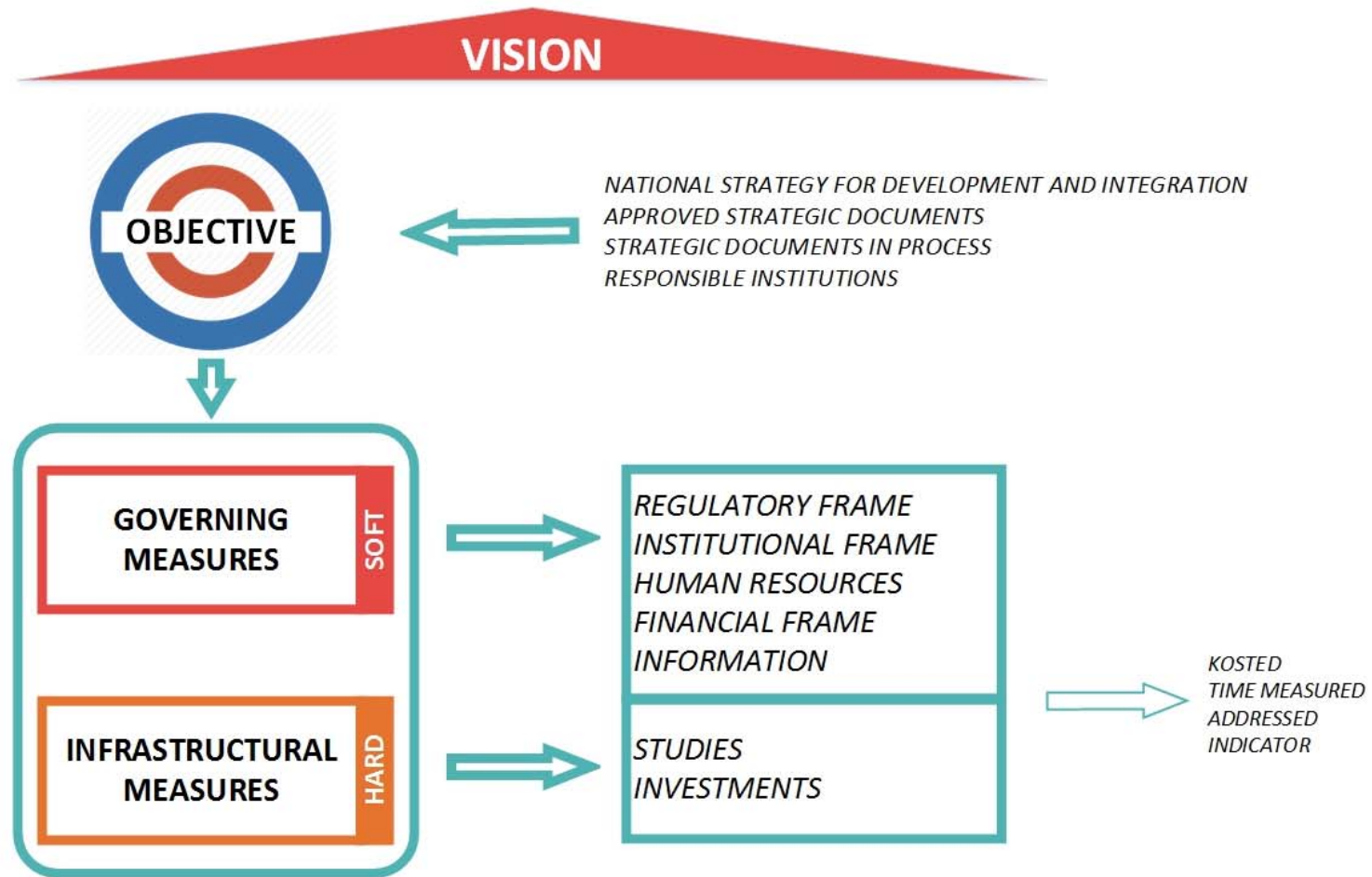
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National Sector Program Objectives

PERDORIMI ME UJË					MBROJTJA NGA PËRMBYTJA						
Nr.	Objektivi e sektorit	2015	2020	2027	2030	Nr.	Objektivi e sektorit	2015	2020	2027	2030
Objektivi nr. 1	Ofrimi i shërbimit të furnizimit me ujë të popullsisë me synim mbulimin me shërbim të sigurt dhe të vazhdueshëm. • Mbulimi me shërbim furnizimi me ujë të sigurt i popullatës: o në zonën urbane o në zonën rurale	89%	92%	97%	98%	Objektivi nr. 11	Reduktimi i rrezikut dhe humbjeve nga përmbija për jetën, jetesën dhe shëndetin dhe aseteve ekonomike, fizike, sociale, kulturore dhe mjedimore të personave, bizneseve dhe komuniteteve e cila synon përmirësimin e menaxhimit të situatave të mbrojtjes nga përmbija; përmirësimi i infrastrukturës në përgjigje të fatkeqesive natyrore; garantimi i kushteve të sigurt të jetesës për qorazet, florën dhe faunën në zonat e rrezikuara sipas rrethit të rrezikut.	14000 banorë të prekur	9000 banorë të prekur	7000 banorë të prekur	6000 banorë të prekur
Objektivi nr. 2	Ofrimi i shërbimit të lagimit të ujërave të përdorura me synim mbulimin me shërbim në zonave urbane dhe rurale. • Mbulimi me kanalizim i popullatës: o në o në	36%	40%	60%	72%	Objektivi nr. 11	Reduktimi i rrezikut dhe humbjeve nga përmbija për jetën, jetesën dhe shëndetin dhe aseteve ekonomike, fizike, sociale, kulturore dhe mjedimore të personave, bizneseve dhe komuniteteve e cila synon përmirësimin e menaxhimit të situatave të mbrojtjes nga përmbija; përmirësimi i infrastrukturës në përgjigje të fatkeqesive natyrore; garantimi i kushteve të sigurt të jetesës për qorazet, florën dhe faunën në zonat e rrezikuara sipas rrethit të rrezikut.	1100 ndërtesa të prekur	700 ndërtesa të prekur	500 ndërtesa të prekur	400 ndërtesa të prekur
Objektivi nr. 3	Përmirësimi i siç, e ujëzotimit bujqësor, plotësimin e në ujë, për të ofur mirënjohje dhe kulturë.					<p>Objektivi nr. 11</p> <p><i>Reduction of flood risk and losses for conserving life, livelihoods and human health while preserving economic, physical, social, cultural and environmental assets of people, businesses and communities aiming to improve the management of flood protection situations; improving infrastructure in response to natural disasters; ensuring safe living conditions for people, flora and fauna in endangered areas; providing economic, physical, social, cultural and environmental assets to persons, businesses and communities.</i></p>					
Objektivi nr. 4	Përmirësimi i siç, për sipërfaqet e, synim garantim, për mirënjohje dhe kul.										
Objektivi nr. 5	Zhvillim i qëndrueshmërisë brenda Zonave Akvakulturore (ZAK) e ekonomike të respektuar kusht.										
Objektivi nr. 6	Shfrytëzimi i përmirësimit të hidroenergjetik shfrytëzimit të ujërave për hidro, parashitje detjimi, mandevastjet n, respektuar kusht.										
Objektivi nr. 7	Plotësimi i nevojave me synim garancion dhe nevojat aktivitetave për, respektuar kusht.										
Objektivi nr. 8	Vlerësimi i kimik, ruajtje të mirë, status "me pak se të mirë", të dobët apo "shumë të dobët", (ujërat sipërfaqësorë-lumenj), liqene, ujërat tranzitore/kalimtare, trupa ujërat artificiale dhe shumë të modifikuara.		10%	20%	25%						
Objektivi nr. 9	Vlerësimi paraprak i statusit ekologjik dhe kimik, ruajtje dhe amëzja e tyre si minimalisht të mirë, për ata trupa ujërat që kanë status "me pak se të mirë", të dobët apo "shumë të dobët", (ujërat nëntokësore).			20%	25%						
Objektivi nr. 10	Ruajtja dhe amëzja e cilësive minimalisht të mirë për ujërat lirë të brendshëm dhe bregdetarë e kalimtarë.			20%	25%						
		2015	2020	2027	2030						
						No.	Objective	2015	2020	2027	2030
							<i>Reduction of flood risk and losses for conserving life, livelihoods and human health while preserving economic, physical, social, cultural and environmental assets of people, businesses and communities aiming to improve the management of flood protection situations; improving infrastructure in response to natural disasters; ensuring safe living conditions for people, flora and fauna in endangered areas; providing economic, physical, social, cultural and environmental assets to persons, businesses and communities.</i>	14000 residents	9000 resident	7000 resident	6000 resident
								1100 buildings	700 buildings	500 buildings	400 buildings
								5900 ha	4800 ha	4000 ha	3600 ha

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METODOLOGY – STRUCTURE



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Identified Soft measures

- Strengthening the legal framework for flood protection;
- Strengthening the flood management institutions;
- Re organization of the operational structures at local governments
- Establishment and consolidation of a national scientific structure, responsible for the information system for the water sector dealing also with floods.
- Re organization of control structures (inspection) for flood protection
- Establishment of a financial system towards cost recovery (preparation of a methodology for damage evaluation caused from floods);
- Establishment of a financial system on property and life security;
- Preparation of a public awareness raising program on flood risk and flood response;
- Integrated information system update with maps on flood risk and maps for floods probability;
- Early warning system for dikes, drainage infrastructure, large volume water pumps, and river embankments.

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Identified Hard measures (studies)

- Feasibility study on flood risk evaluation for specific areas, evaluation of the technical, economic and social impact of interventions for damage mitigation;
- Drafting the final concept note and implementation plan for flood protection of the area of nën Shkodrës considering also navigational aspect of Buna river;
- Preparation of hazard and risk maps for flood protection;
- Drafting of the flood risk management plan;
- Drafting of the emergency plan at national and local level;

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Identified Hard measures (Infrastructure)

- Construction or reconstruction of flood protection infrastructure along the river beds of Drin, Buna and the area of nën shkodrës for flood protection of around 12 000 ha agricultural land as well as modelling of the river bed of to enable navigation;
- Rehabilitation/reconstruction and construction of flood protection embankments at rivers Mat, Drini i Lezhës, Droje, Drin i Zi, Shkumbin, Devoll, Osum, Seman, Vjosë, Drinos, Bistricë, Pavëlla etc, downstream, 300 km;
- Equipment with the monitoring network and establishment of radars in the whole territory;
- Investments to return the damaged ecosystems from flood to the previous state;
- Annual maintenance of the current infrastructure;
- Subsidies for damages caused by floods;

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