

DISASTER RISK MANAGEMENT A STRATEGY FOR ADAPTATION TO WEATHER DISASTER RISKS



WORLD BANK GROUP



*Disaster Risk Management
Europe and Central Asia
The World Bank Group*



GFDRR

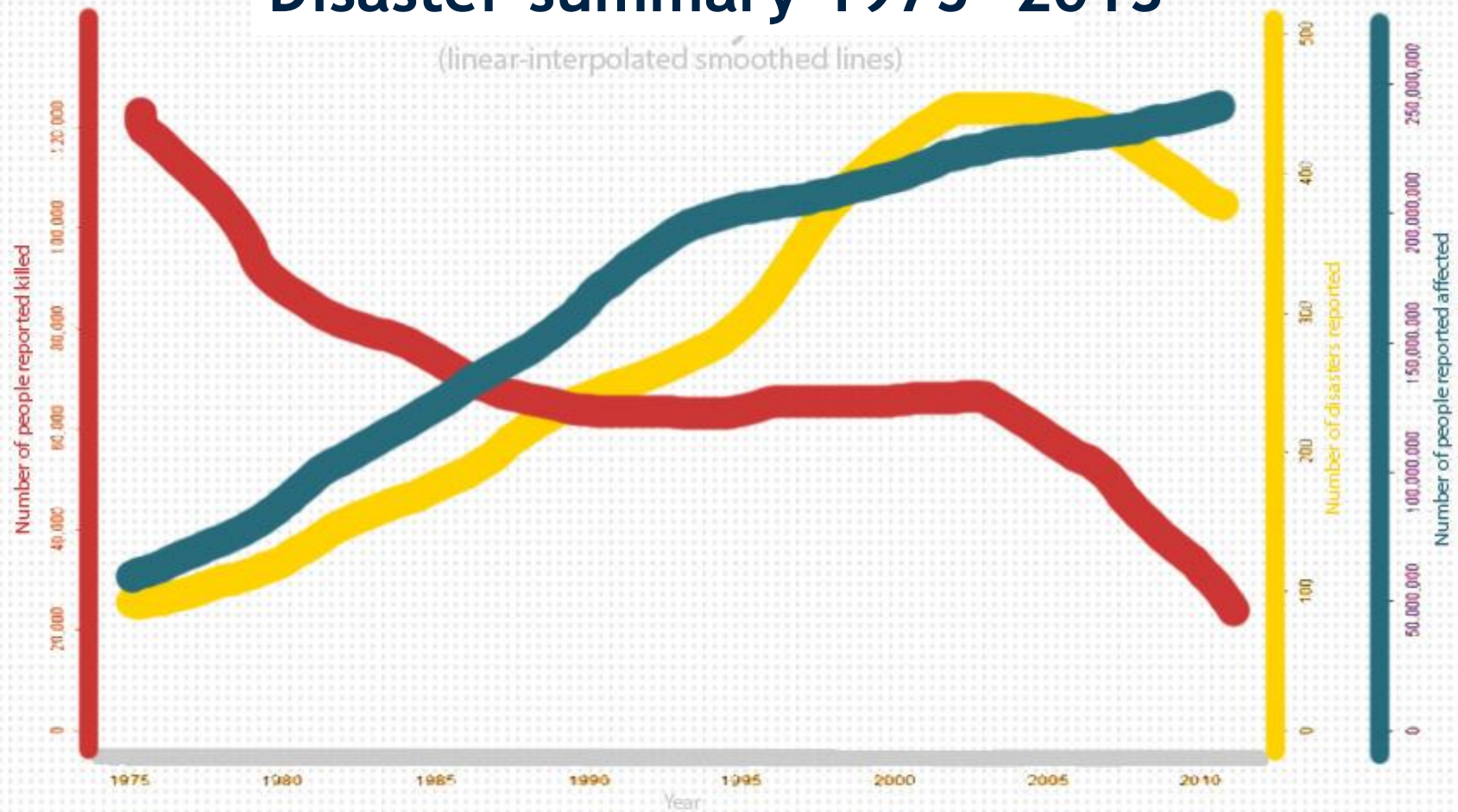
Global Facility for Disaster Reduction and Recovery

Raymond Bourdeaux
Program Leader
World Bank Group

Rising Global Disaster Impacts

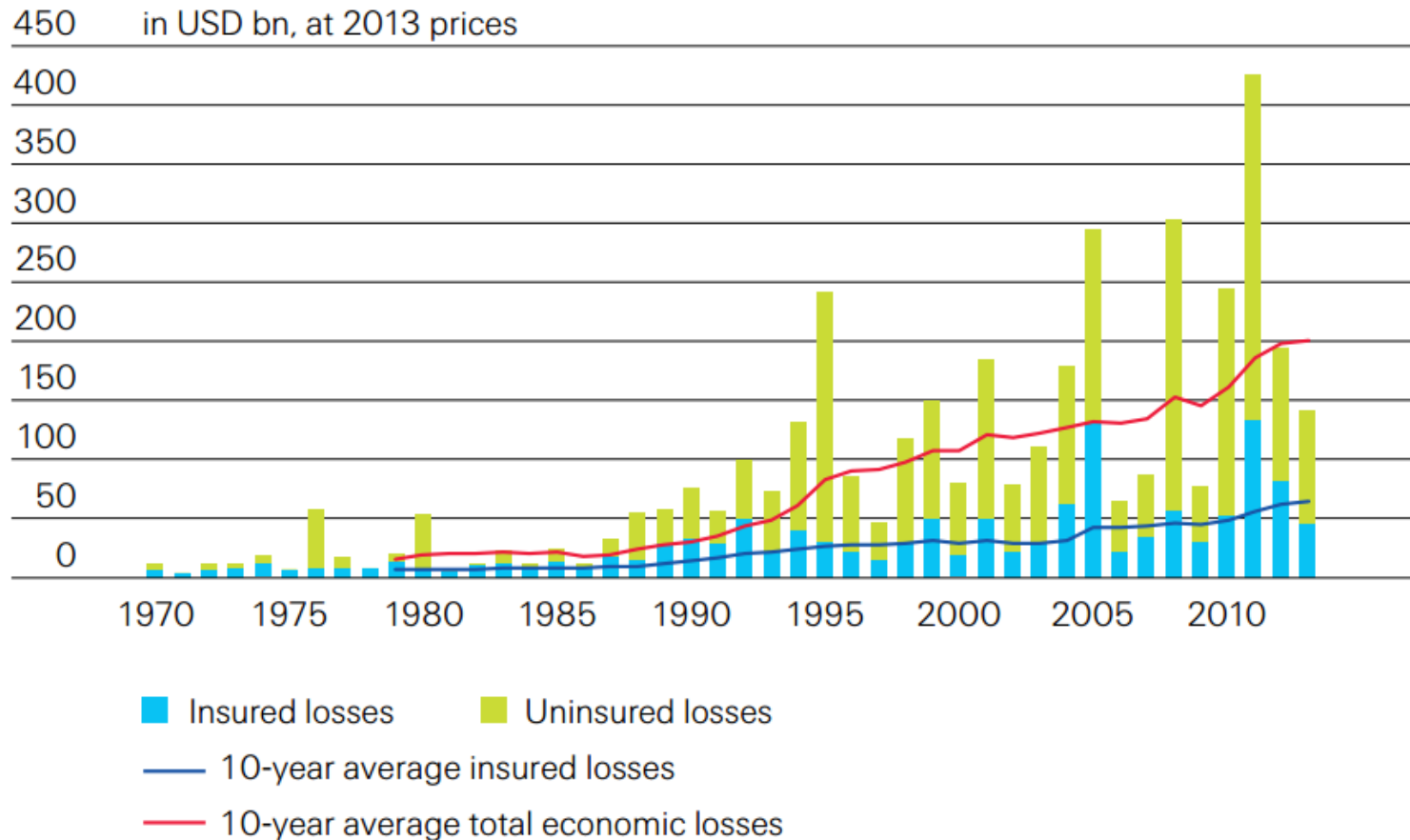
Disaster summary 1975 -2013

(linear-interpolated smoothed lines)



Source: EMDAT - Centre for Research on the Epidemiology of Disasters (CRED)

Rising Global Disaster Impacts



Economic loss = insured + uninsured losses

Source: Swiss Re Economic Research & Consulting

Loss events worldwide 2014

Percentage distribution

980 Loss events



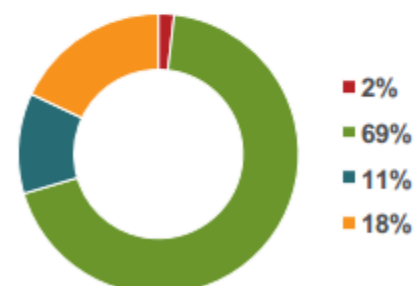
7,700 Fatalities



Overall losses US\$ 110bn



Insured losses US\$ 31bn



Geophysical events
(Earthquake, tsunami,
volcanic activity)

Meteorological events
(Tropical storm, extratropical
storm, convective storm,
local storm)

Hydrological events
(Flood, mass
movement)

Climatological events
(Extreme temperature,
drought, forest fire)

2014-2015 Balkan Flood Impacts

BOSNIA & HERZEGOVINA



15% of
GDP

0.4-1.8%
increase
in
poverty

SERBIA

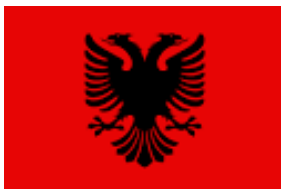


5% of
GDP

Economy
estimated
to contract
2% in 2014

And Counting

ALBANIA



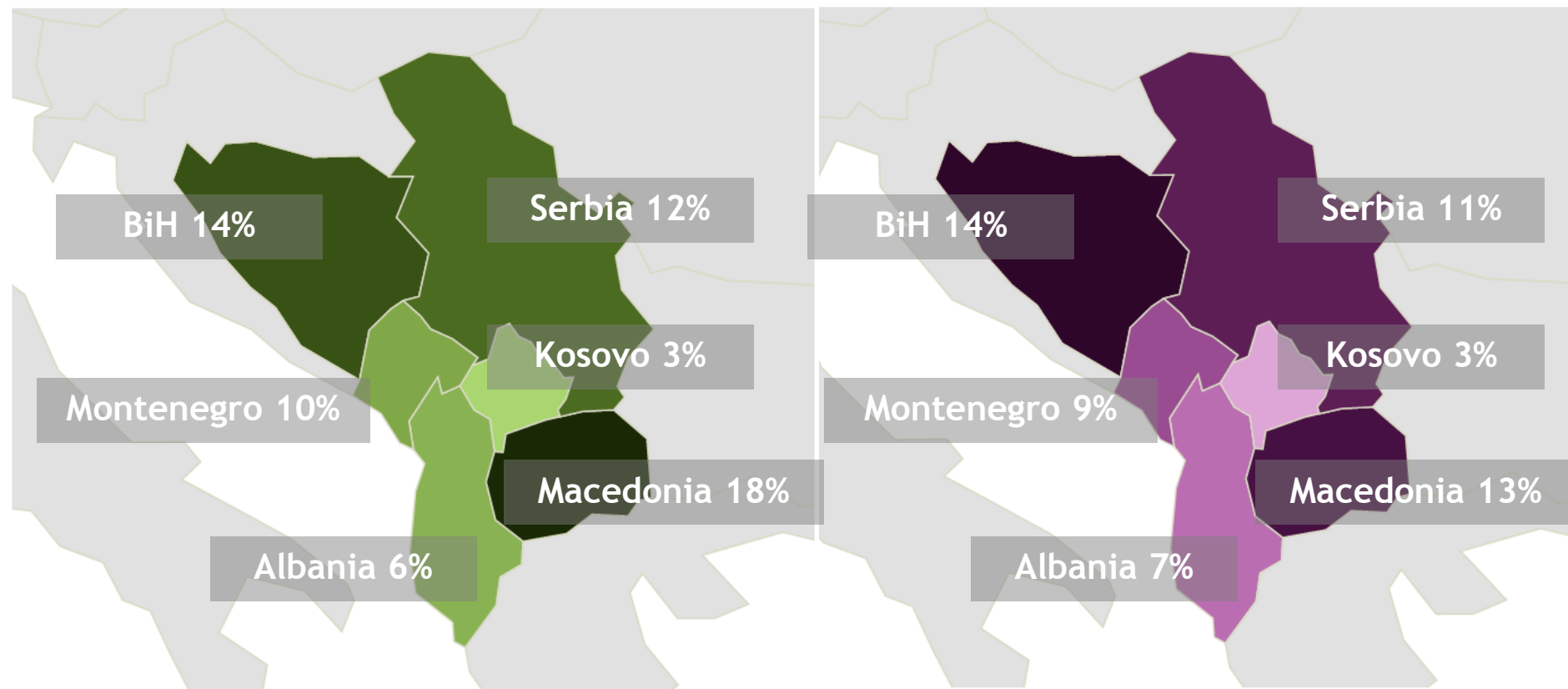
FYMOR



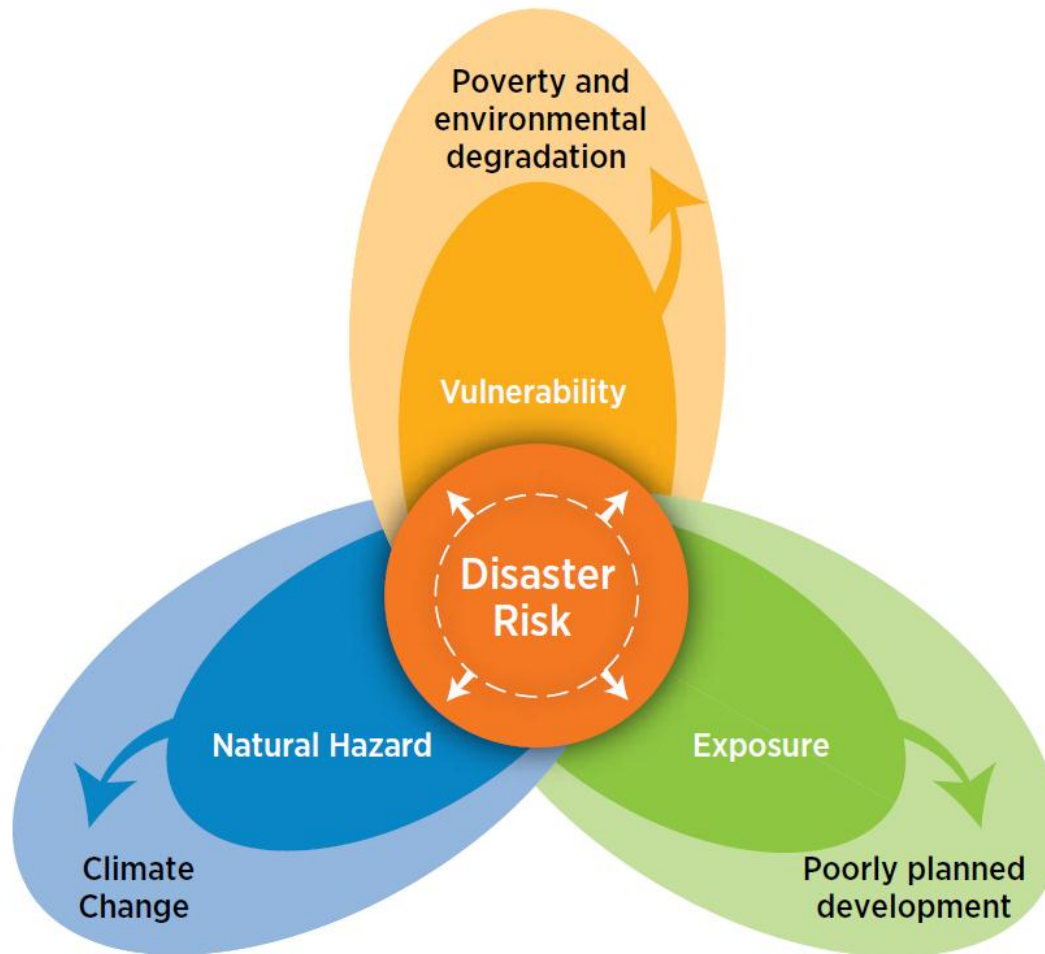
Flood Risk for 100 yr return period in the Region

Potential economic loss in % of GDP

Potential impact in % of population



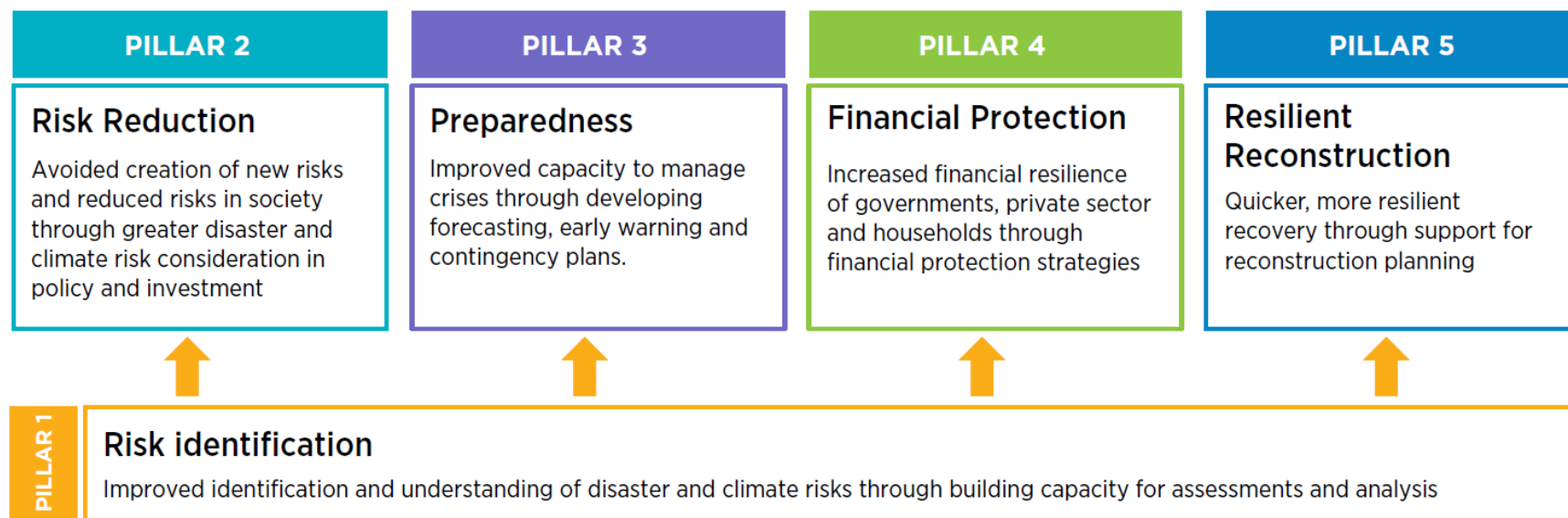
Role of Hazard, Exposure and Vulnerability in Creating Disaster Risk



Moving Towards Resilience



World Bank Group Disaster Risk Management Framework



Adapting to disaster risk is everybody's task

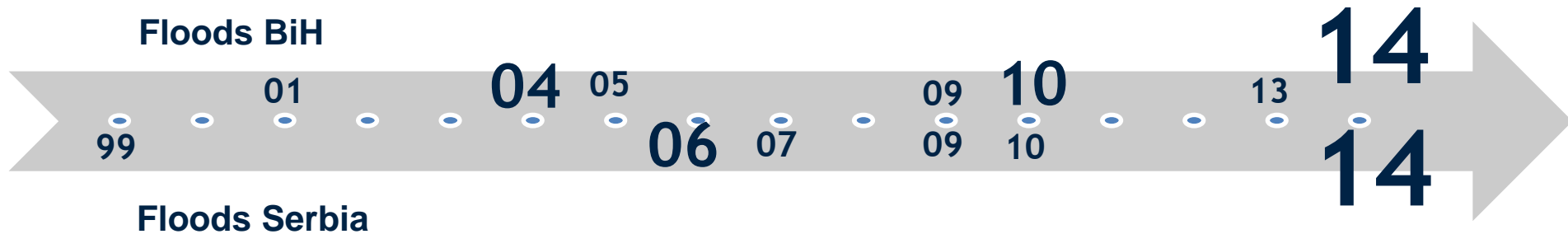


CONCLUSIONS:

- **CLIMATE CHANGE HAS AN INCREASING INFLUENCE ON WEATHER EVENTS.**
- **INCREASING LIKELIHOOD OF DISASTER EVENTS, MOSTLY LINKED TO WEATHER RELATED EVENTS.**
- **MORE AND MORE PEOPLE ARE BEING AFFECTED, AND THE ECONOMIC IMPACT OF LOSSES WILL CONTINUE TO INCREASE. THIS HAS THE POTENTIAL TO DERAIL THE BEST DEVELOPMENT PROGRAM, AND TO PUSH BACK COUNTRIES BY SEVERAL YEARS EVERY TIME A DISASTER STRIKE**
- **PREPARING FOR SUCH EVENTS REQUIRE :**
 - **A COMPREHENSIVE EVALUATION TO MITIGATE EXISTING RISKS, AVOID FUTURE ONE AND PREPARE FOR WHEN THEY HAPPEN**
 - **A FULLY INTEGRATED APPROACH MULTI SECTORAL BY NATURE**
 - **MANY OF THESE DIMENSIONS LINKED THEMSELVES TO APPROACHES ACROSS COUNTRIES FROM DISASTER IDENTIFICATION TO POTENTIAL MITIGATION**

Western Balkans are natural disaster prone, and risk of extreme events will increase

Historical Floods in the Region



Impact of climate change in Western Balkans likely to exacerbate flood potential and increase the risk of more extreme weather events:

Increase of flood water volume by 2050

Sava river at Sremska Mitrovica	+ 10 %
Una river	+ 10 %
Kupa river	+ 60 %
Bosna river	+ 50 %
Drina river	+ 15 %

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