

NATIONAL AND LOCAL STUDIES ON COMBATING CLIMATE CHANGE

General Directorate of Environmental Management
Department of Climate Change and Adaptation



REPUBLIC OF TURKEY
MINISTRY OF ENVIRONMENT
AND URBANISATION

CLIMATE CHANGE DEFINITION

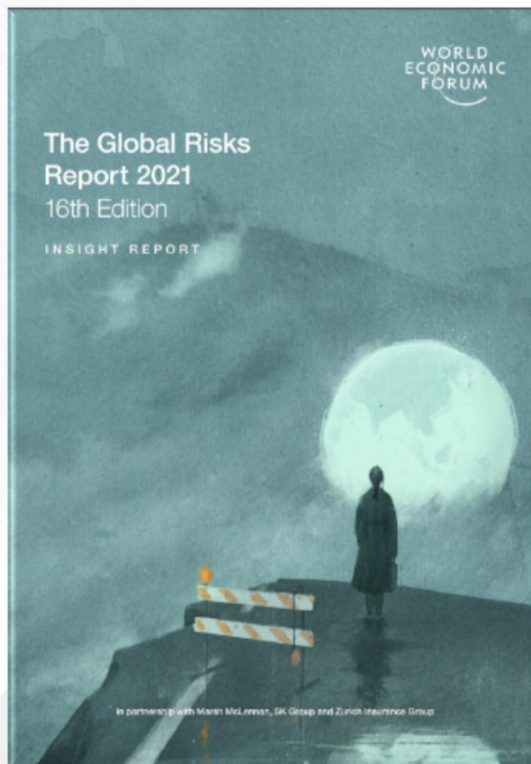


United Nations Framework
Convention on Climate Change

"Climate change" means a change of climate which is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and which is in addition to natural climate variability observed over comparable time periods.



WEF/ The Global Risks Report 2021



Top Risks

by likelihood

- 1 Extreme weather
- 2 Climate action failure
- 3 Human environmental damage
- 4 Infectious diseases
- 5 Biodiversity loss
- 6 Digital power concentration
- 7 Digital inequality
- 8 Interstate relations fracture
- 9 Cybersecurity failure
- 10 Livelihood crises

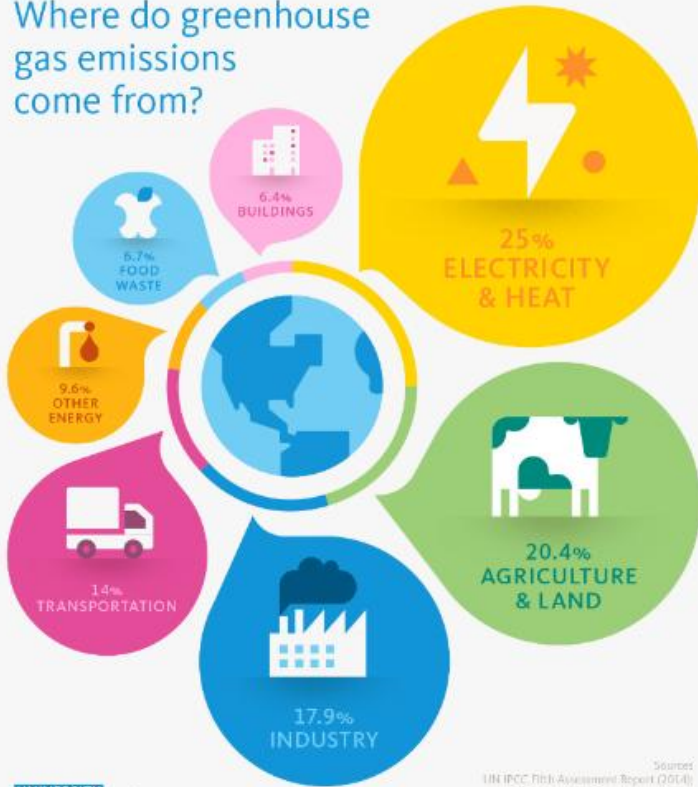
Top Risks

by impact

- 1 Infectious diseases
- 2 Climate action failure
- 3 Weapons of mass destruction
- 4 Biodiversity loss
- 5 Natural resource crises
- 6 Human environmental damage
- 7 Livelihood crises
- 8 Extreme weather
- 9 Debt crises
- 10 IT infrastructure breakdown

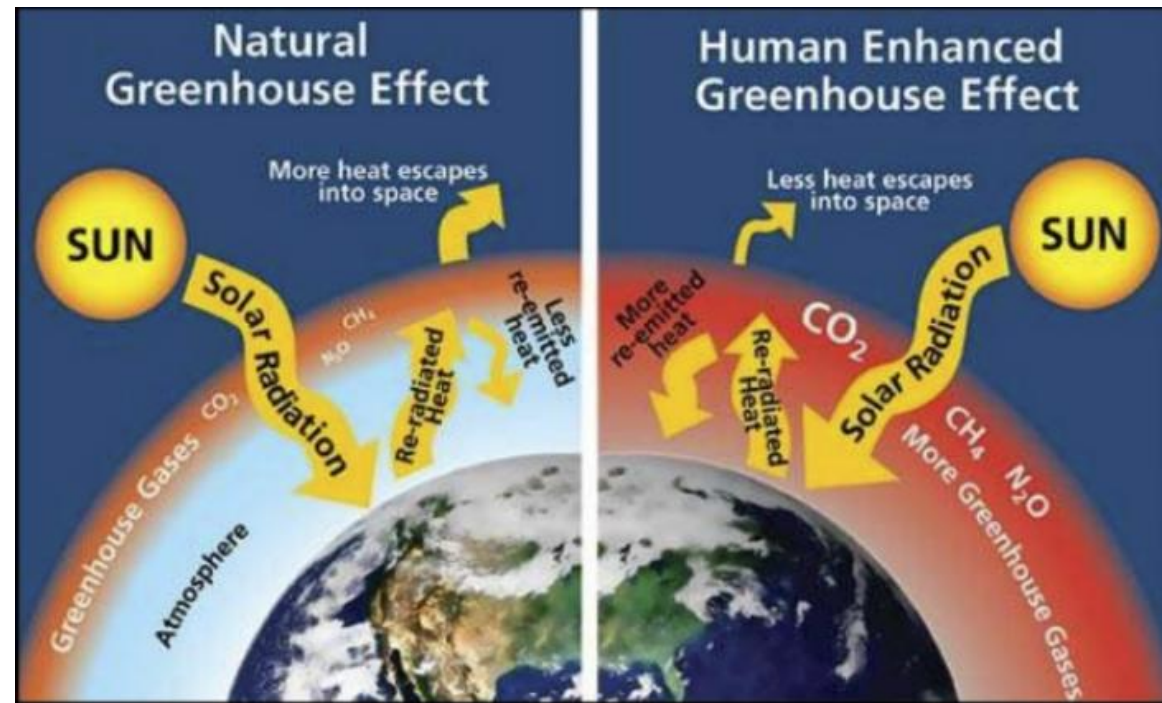
GREENHOUSE GASES...

Where do greenhouse gas emissions come from?

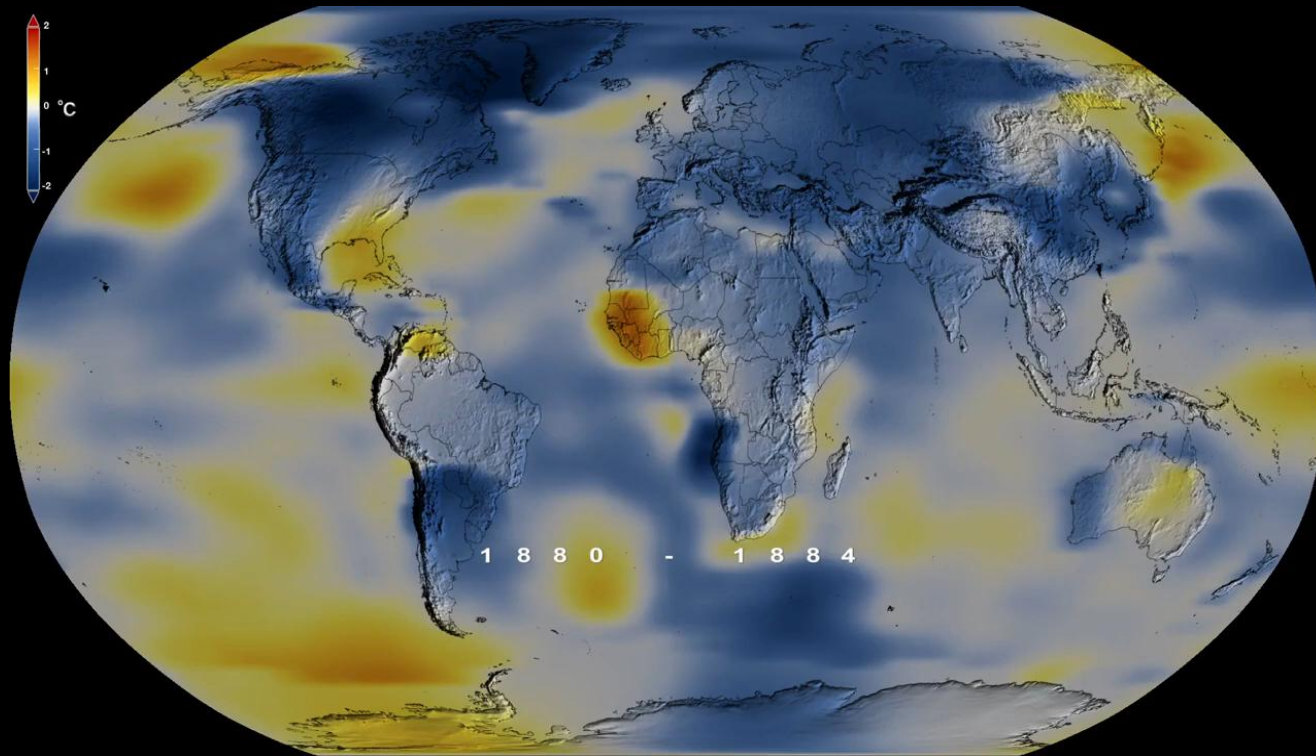


UNIVERSITY OF CALIFORNIA
Learn more at climate.universityofcalifornia.edu

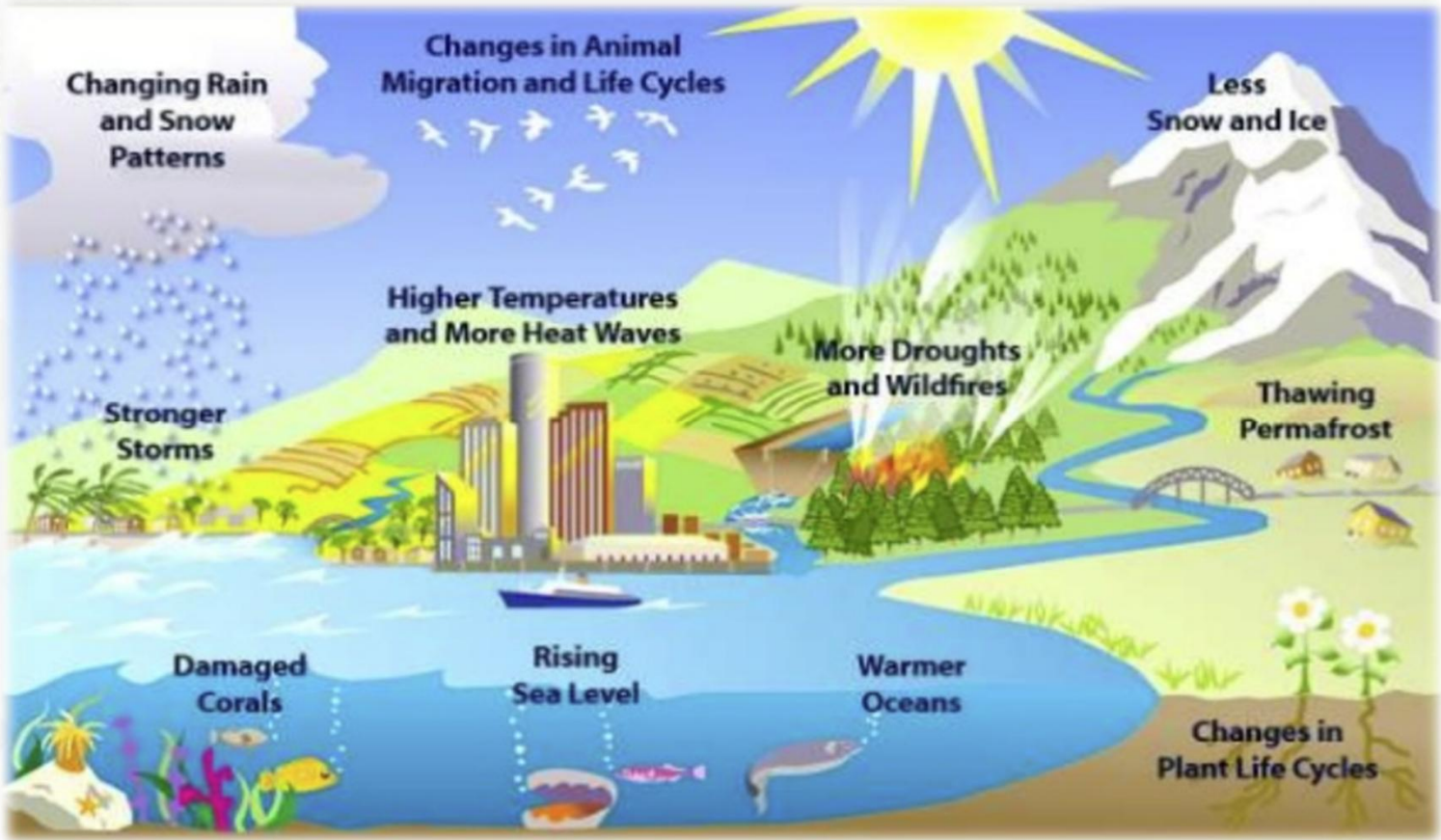
Sources:
UN IPCC Fifth Assessment Report (2014)
UN FAO Food Waste Footprint (2013)
Percent of global greenhouse gas emissions.



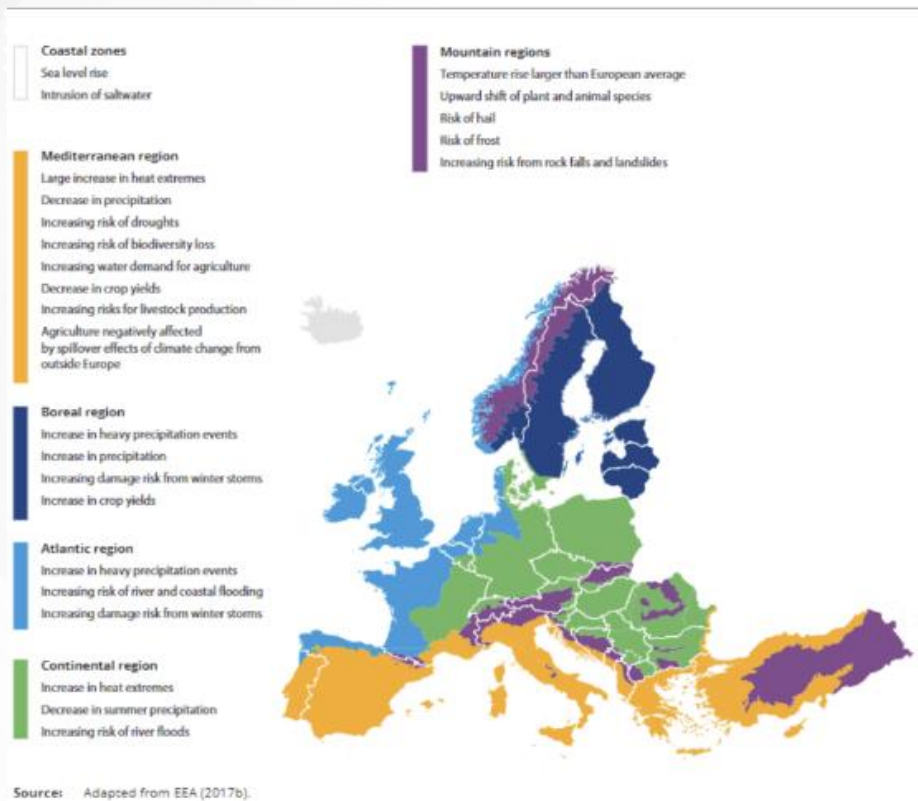
GLOBAL TEMPERATURE RISE (1880 – 2020)



IMPACTS OF CLIMATE CHANGE



CLIMATE CHANGE IMPACTS OF TURKEY



A large part of Turkey is located in the dry summer subtropical Mediterranean climate zone. Therefore, Turkey is among medium-high risk countries in terms of both present climate, climate change and variability, and future climate, considering that Mediterranean Basin has been indicated as one of the most vulnerable regions in the world to the impacts of climate change (IPCC, 2007).

CLIMATE CHANGE IMPACTS ON TURKEY



Meteorological disasters caused by climate change were also on the agenda in our country.

CLIMATE CHANGE IMPACTS ON TURKEY



Adana/2017



Antalya/2019



Isparta/2019



İstanbul/2020



İzmir/2021

CLIMATE CHANGE AND CITIES

%55

Now/Urban
Population

751 million

1950 /urban
population

%68

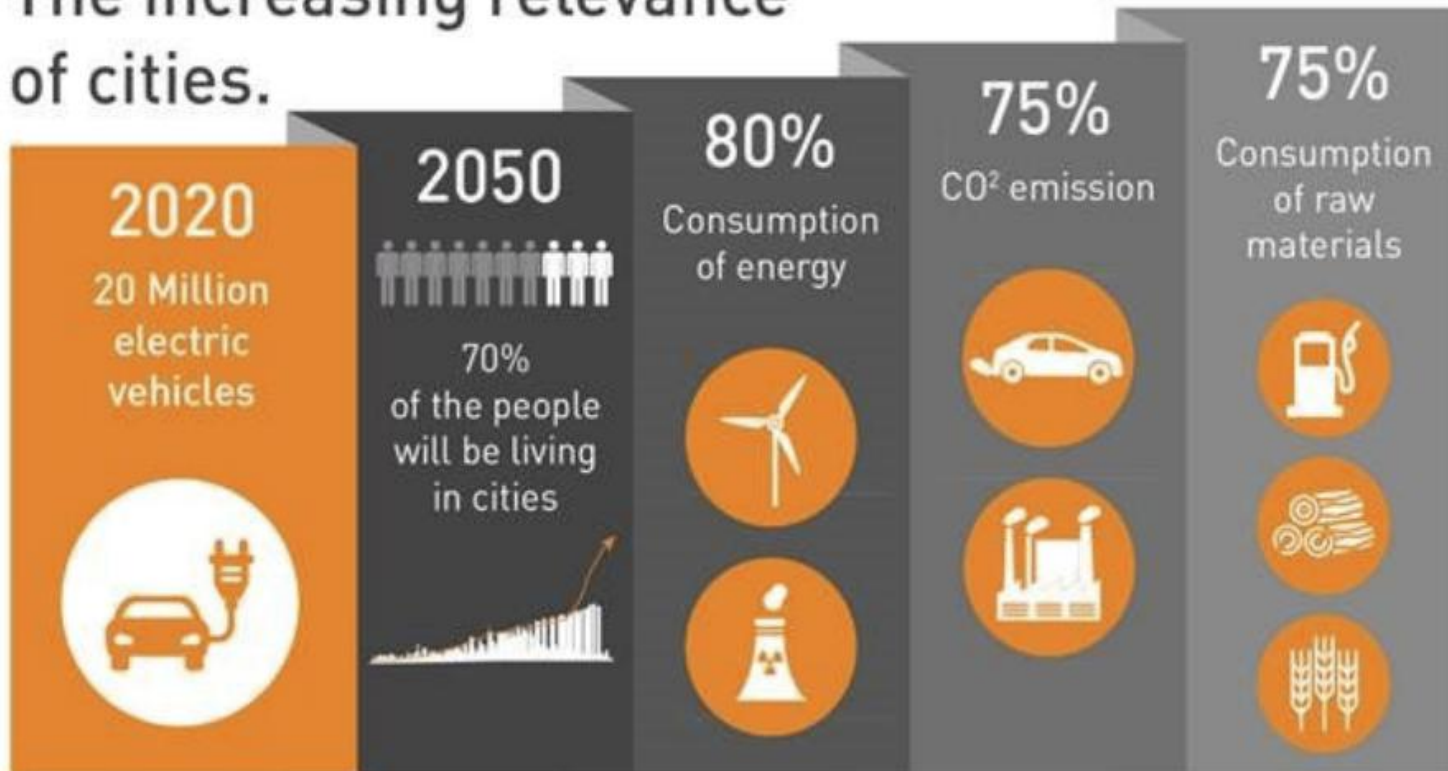
2050/ Projected
Urban Population
Ratio

4.2 billion

2018/ urban
population

CLIMATE CHANGE AND CITIES

The increasing relevance of cities.

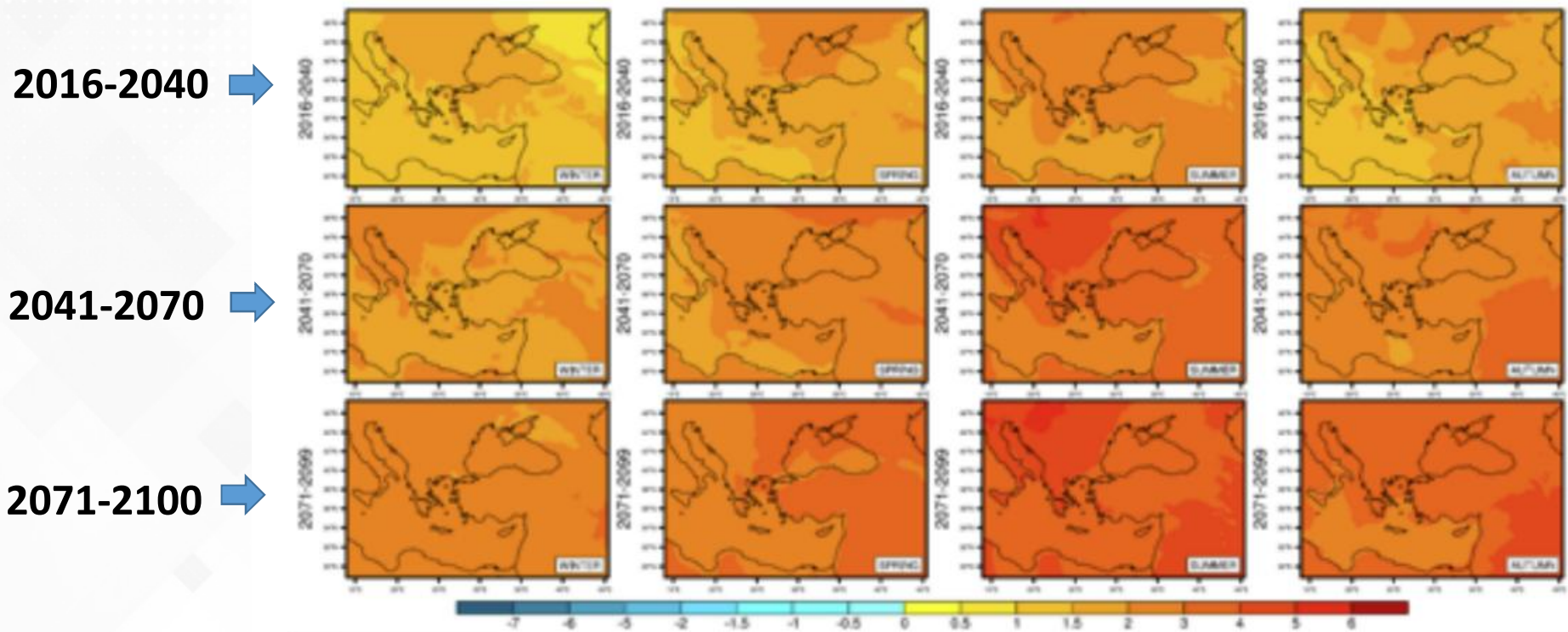


Turkey is struggling with the drought ...



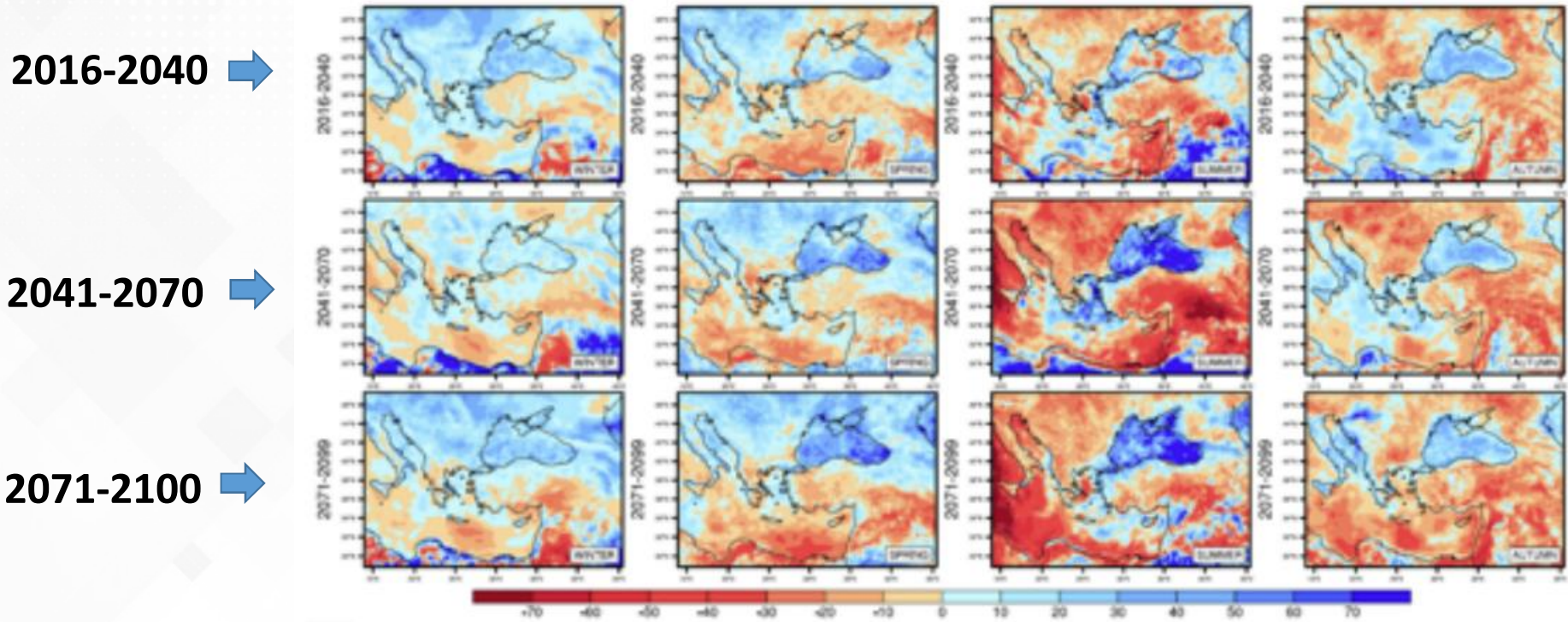
TURKEY/ TEMPERATURE PROJECTIONS

HadGEM2-ES RCP4.5 SICAKLIK PROJEKSİYONLARI (20km)



TURKEY/PRECIPITATION PROJECTIONS

HadGEM2-ES RCP4.5 YAĞIŞ PROJEKSİYONLARI (20km)



CLIMATE CHANGE NEGOTIATIONS

Turkey ratified;

- UNFCCC in 2004,
- Kyoto Protocol in 2009
- Turkey accepted Paris Agreement in 2015, signed in 2015, but not ratified yet.
- Turkey submitted its INDC in 2015.
- INDC: Up to 21% reduction in GHG emissions from the Business as Usual (BAU) level by 2030.



INTERNATIONAL CONTRIBUTION OF TURKEY'S CLIMATE ACTION



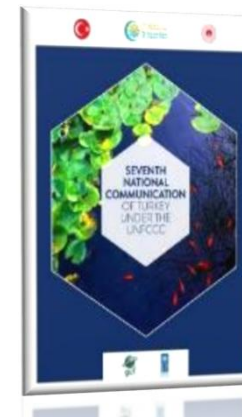
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NATIONAL CLIMATE CHANGE POLICY DOCUMENTS

- National Climate Change Strategy in 2010,
- National Climate Change Action Plan in 2011, and
- Climate Change Adaptation Strategy and Action Plan in 2011
- ✓ 7th National Communication in 2018
- ✓ 3rd Biennial Report in 2018

published.



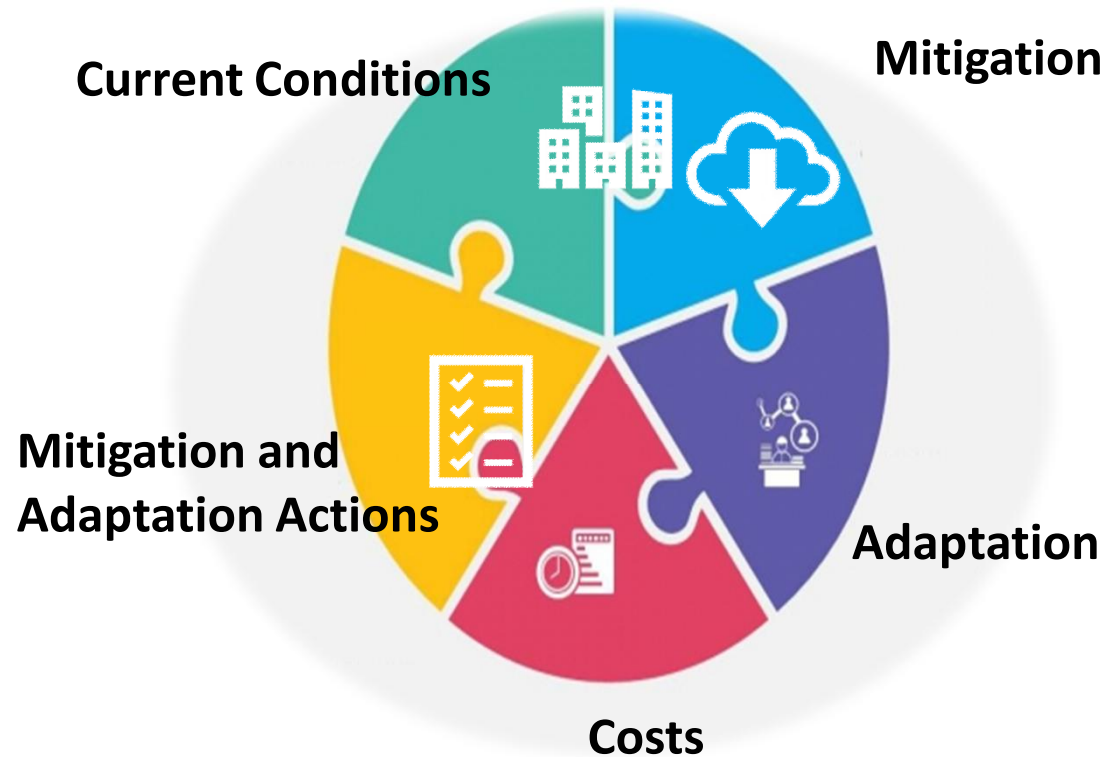
ONGOING STUDIES

- Circular No. 2019/02: Climate Change and Disaster Measures Circular
- Black Sea Region Climate Change Action Plan
- Circular No. 2019/13: Black Sea Region Climate Change Measures Circular

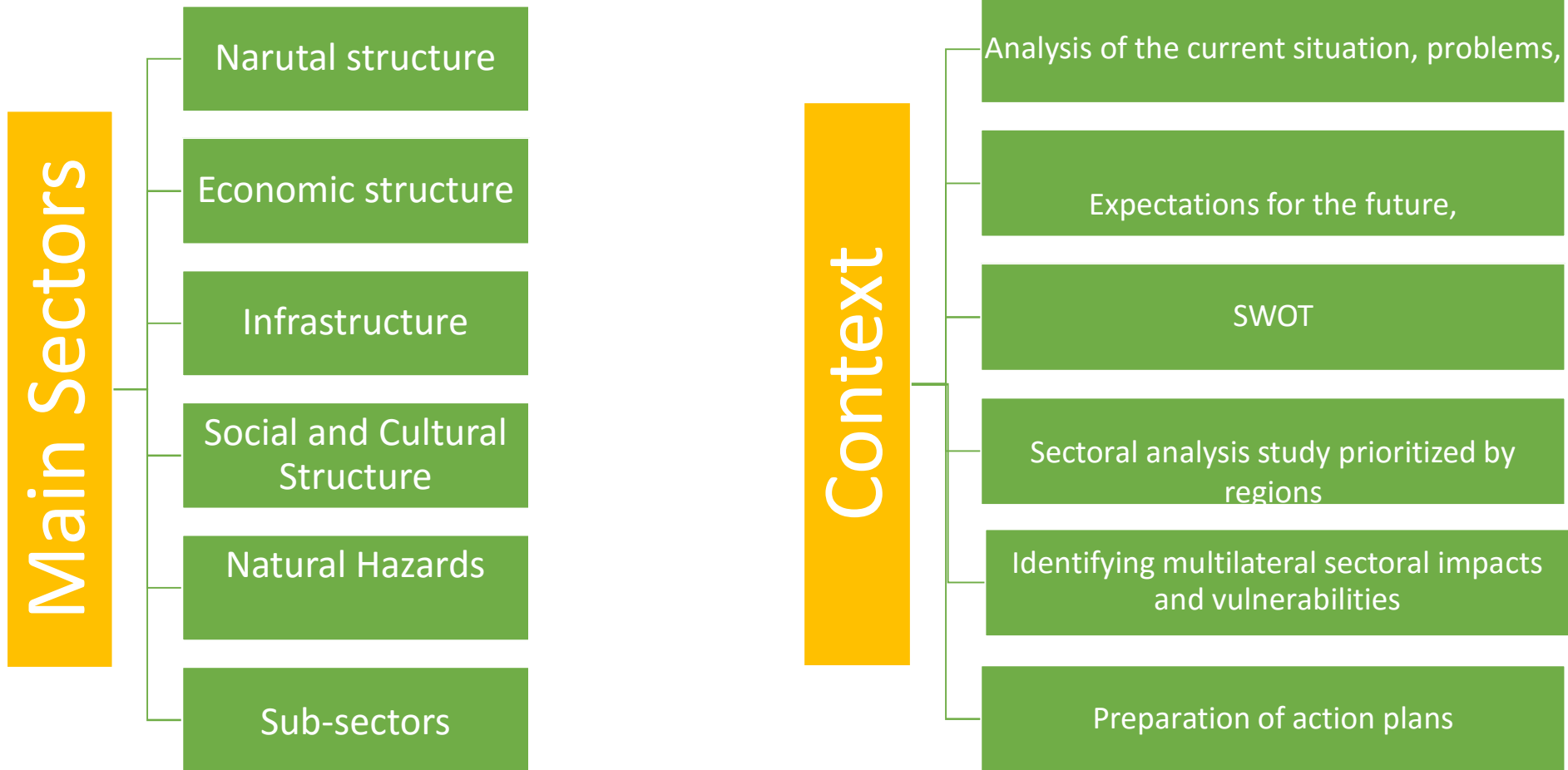


Local Climate Change Action Plan (LCCAP) Legislation

Within the scope of our Ministry's 2019-2023 Strategic Plan; legislative studies have been initiated in order to prepare LCCAP in 30 Metropolitan Municipalities and then in all 81 provinces.



Climate Action Plans for Turkey's 7th District (RCCAPs)



ONGOING PROJECTS



- Capacity Building Project for Preparing, Implementing and Monitoring Local Climate Change Action Plans
- Training Project on Improving Institutional Capacity on Adaptation to Climate Change Project
- Strengthening Climate Change Adaptation Actions in Turkey

AWARENESS RAISING



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http://www.iklimin.org/biliyormusunuz/IklimIN_Video_Spot_Anatolia_Eng_Subtitle.mp4



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THANK YOU

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