

CLIMATE SERVICES

The EU supports the translation of the existing wealth of climate data and information into successful adaptation and mitigation actions.

The EU's response to climate change must be based on evidence

The EU is taking actions to limit the global average temperature rise to 2° C above pre-industrial levels

whilst pursuing efforts to limit it to 1.5° C

Rapid and effective decisions and actions are needed to decarbonise the economy and help society adapt to unavoidable changes and impacts.

This will make action to mitigate and adapt to climate change more cost-effective, in turn making the European economy more competitive.

The EU's research and innovation investments aim to drive the emergence of a Climate Services market by establishing conditions that:

generate economic value from available climate data, models and ongoing climate research

make sure scientific research provides solutions to the challenges facing society

Transfer knowledge with Climate Services to help:

drive an aggressive global mitigation agenda.

enhance adaptation to the impacts of climate change.

help policymakers, communities, regions, businesses and individuals to plan ahead and avoid economic loss while ensuring well-being.

ENERGY

ECLISE project

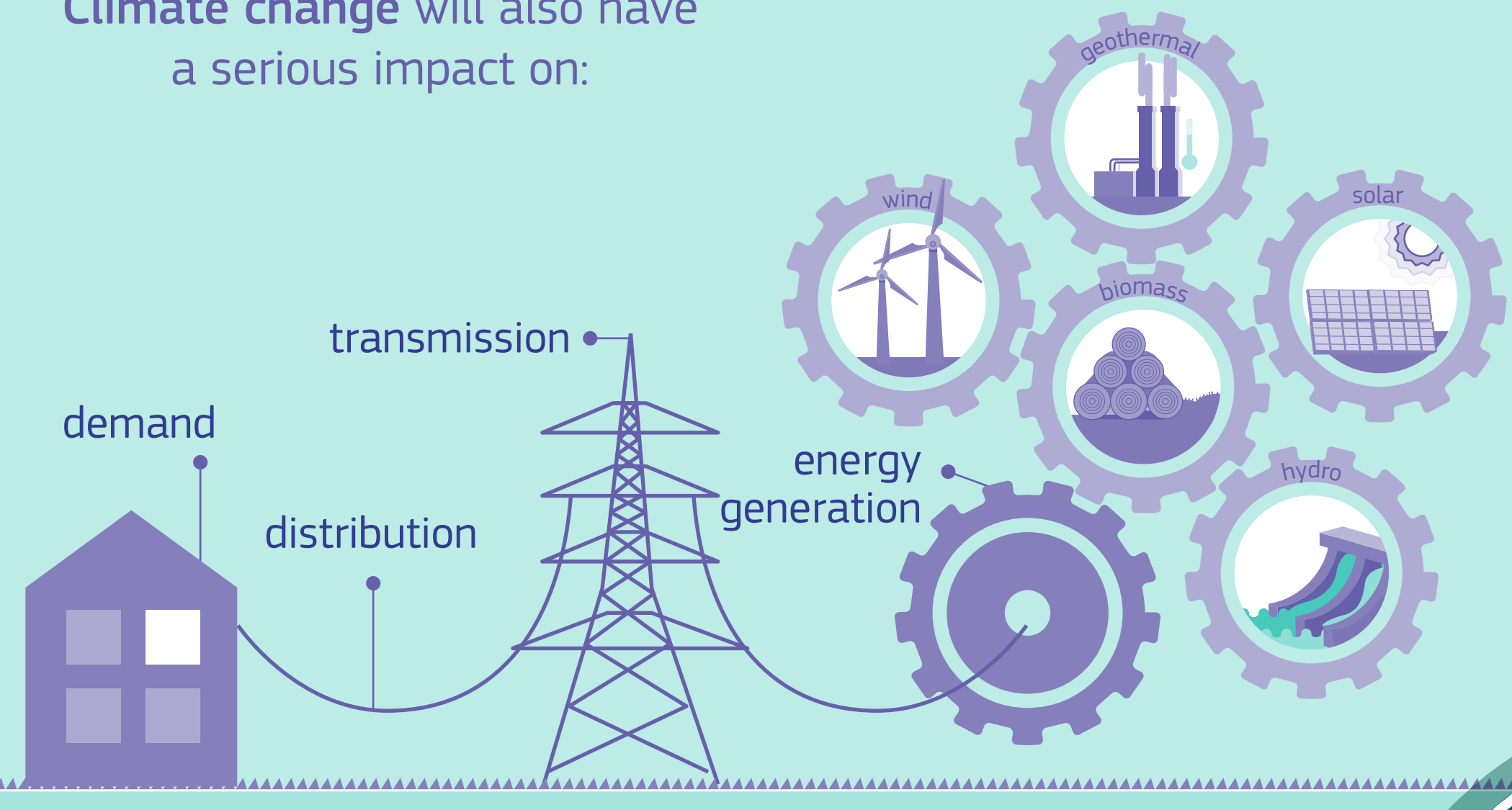
www.eclise-project.eu

Demonstrated ways in which local Climate Services can support climate adaptation policies.

ECLISE is part of the EU's support for the development of Climate Services to help decision-makers estimate energy generation, transmission, distribution and use.

MAJOR CONTRIBUTOR TO CLIMATE CHANGE

Climate change will also have a serious impact on:

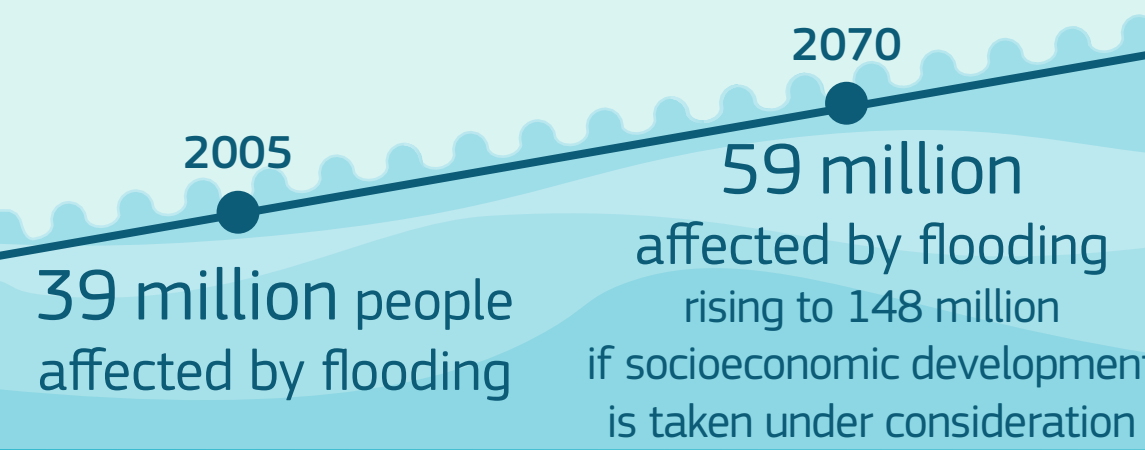


SMART ENERGY PLANNING

WATER

sea-levels

An estimated 0.5 m global mean sea-level rise could affect 136 port cities around the world



€7.7 to €15 billion annual losses due to river flooding in Europe

river-levels

in 2080 250 000 to 400 000 additional Europeans a year affected by river flooding compared to now

Climate models indicate increasing aridity within this century

2090s expected to increase to 30% of land surface

currently 1% - 3% of land surface is affected by extreme drought globally

153 million Europeans will experience droughts annually

Droughts in Europe have caused economic losses equivalent to €100 billion over the last three decades

ENHANCE project

www.enhanceproject.eu

EU-wide fluvial flood risk assessment tool for 1 000 river basins - supports EU's efforts for new tools to forecast floods and form policies.

DROUGHT R&SPI

www.eu-drought.org

Assists policymakers to develop drought mitigation and adaptation strategies. Climate Services are already offering solutions as part of the EU's efforts towards drought management.

GET INVOLVED

This means you

AGRICULTURE & FOOD SECURITY

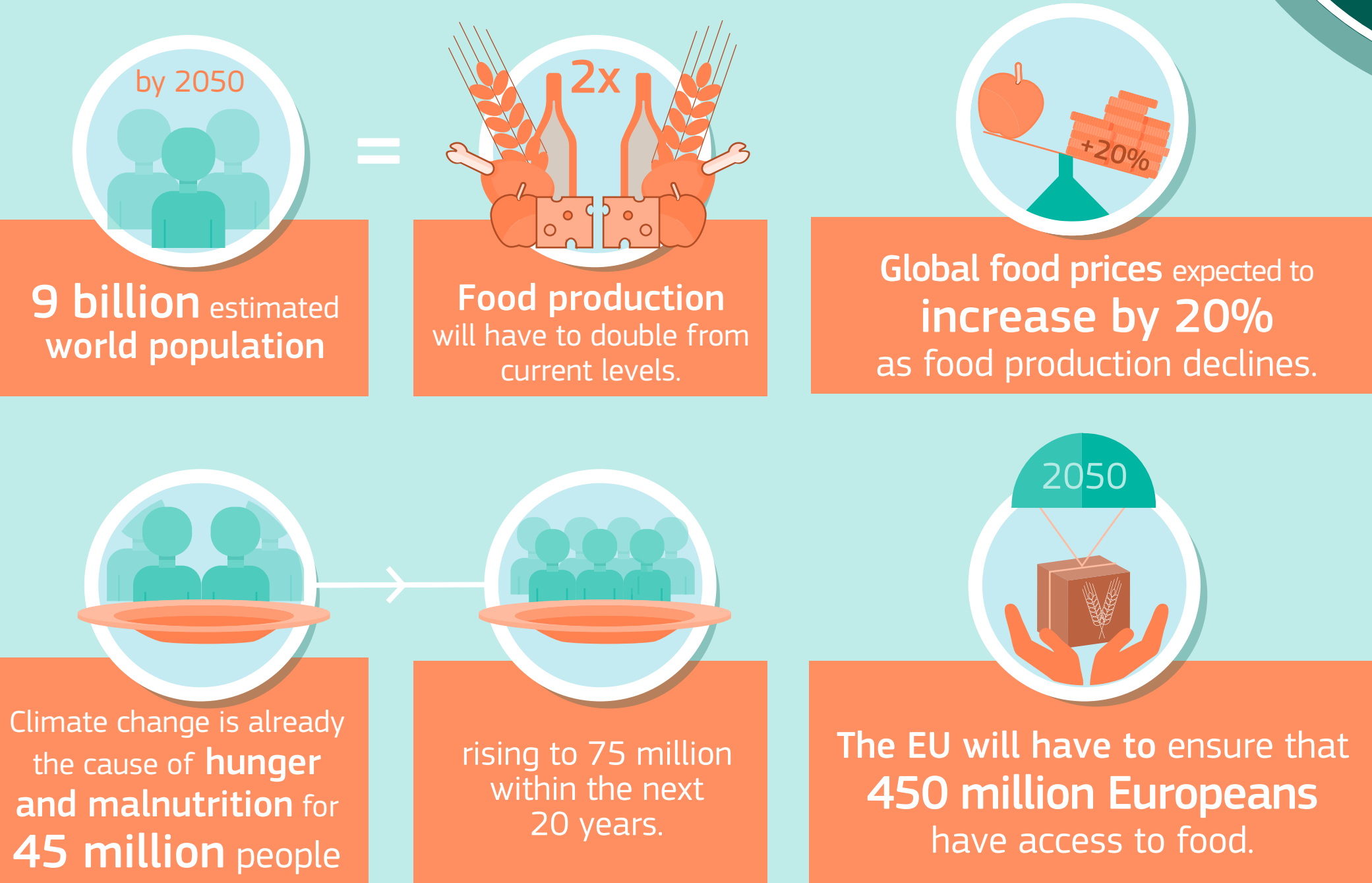
EUPORIAS project

www.euporias.eu

Integrated seasonal climate forecasts into the Livelihoods, Early Assessment and Protection (LEAP) system, an early warning tool that Ethiopia has been using since 2008 to estimate the number of people who will be in need of food assistance due to drought.

LEAP helps Ethiopia provide faster and more effective assistance to those affected by drought.

The project is part of the EU's support for Climate Services such as LEAP that provide valuable information to vulnerable communities so they can address challenges to their food security.



CLIMATE CHANGE-RELATED FOOD SHORTAGES

HEALTH

Climate change is changing air pollution patterns around the world. This has a significant impact on respiratory health.

Air pollution controls and rules have improved air quality over the past 50 years, particularly in cities.

Yet air pollution is still a main health hazard and continues to be a serious economic burden for health care systems around the world.

AIR QUALITY

PURGE project

<http://purge.lshrm.ac.uk>

Studied health impacts of strategies to reduce greenhouse gas emissions in urban centres in Europe, China and India.

URGENCHE project

www.urgencheproject.eu

Developed and applied a methodology for assessing the overall risks and benefits of alternative greenhouse gas emission reduction policies in Europe and China.

Through HORIZON 2020 www.ec.europa.eu/programmes/horizon2020 Europe's research and innovation programme is funding projects to improve air quality and human health in European cities by engaging citizens, stakeholders and policymakers. We will have innovative and modern toolkits and solutions to improve people's understanding of air quality and health.



The EU's Research and Innovation Roadmap for Climate Services provides a coherent and focused framework that sets out priorities for building a market for Climate Services.

You can find the Roadmap here: <http://goo.gl/FbZ1ST>

FOR MORE INFORMATION

<http://bit.ly/1pvOAFv>

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#ClimateServices

