



# Societal preparedness

Where are we and where are we going?

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# Forging a Climate Resilient Europe – 2021 Adaptation Strategy



## Smarter adaptation

- Help close **knowledge** gaps on climate impacts and resilience, improve **data** recording, collection and access...



## Faster adaptation

- Horizon **Missions**, climate proofing **guidance** and other decision support tools, **standardization**, sustainable **finance**, resilient **water** management...



## More systemic adaptation

- Guidelines for National Adaptation Strategies, reskilling, public finances, nature-based solutions...



## International

# 2021 European Climate Law



Union and Member States to ensure continuous **progress** in enhancing adaptive capacity, strengthening resilience and reducing vulnerability to climate change

- Union institutions and MS to ensure that adaptation policies are **coherent, mutually supportive and work towards better integration of adaptation in a consistent manner** (*mainstreaming*) in all policy areas
- By 30 September 2023, and every five years thereafter, the Commission shall **review the consistency of Union measures** with ensuring progress on adaptation

# 2023 Progress Assessment: Union level

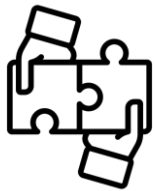


Commission committed to 49 actions in Adaptation Strategy

- Exceptionally **broad sectoral/topic coverage**, variety of timeframes
- Rapid **mainstreaming** in some areas like health policy, slower progress/sequencing in others



Some examples: European Climate and Health Observatory; Technical Guidance on Climate Proofing Infrastructure; Water Re-use Regulation; Horizon Mission on Adaptation...



Awareness and skills increasing across Commission departments due to ongoing coordination: improving **adaptive capacity**

# 2023 Progress Assessment: National level (1)



Good coverage of acute **hazards** (heatwaves, droughts, pluvial floods...)

- key hazards sometimes missing among slow-onset / chronic hazards (sea level rise and coastal flooding...)



Almost all Member States have conducted **climate risk assessments**

- Robust, comprehensive assessments covering more than 5 sectors an exception



Adaptation a **legal obligation** in 8 MS

- PM office rarely involved in coordination; adaptation **voluntaristic** in many MS

# 2023 Progress Assessment: National level (2)



Progress made in implementing measures – but tracking and **measuring impact** is difficult/lacking



**Financing:** most countries lack dedicated budgets; gaps in assessing needs; project pipelines need improvement



**Nature-based solutions (NBS)** not sufficiently included at the strategic level and through policy documents: may hamper systemic deployment



International and transnational **cooperation** progressed in 2/3 of MS

**Good examples** exist on measuring progress, on NBS, cooperation etc

# Communication on managing climate risks



## ADAPTATION STRATEGY





# Communication “Managing climate risks – protecting people and prosperity”

## Main parameters of the Communication:

- Demonstrates EU readiness to respond to the evolving reality
- Geographic focus within the EU
- Risk ownership a central concept - identifying responsibility for managing risks, notably between EU and MS level
- Calibrated to the end of mandate, mostly about good decision-making processes and tools.

1. **Introduction:** explains why urgent action is needed and how it builds on existing processes

2. **Analysis/climate science:** Provides a condensed selection of the evidence and the uncertainties.

### 3. Solutions space (provides key horizontal actions)

3.1. Improved governance

3.2. Tools for empowering risk owners

3.3. Harnessing structural policies

3.4. Right preconditions for financing climate resilience

### 4. Key actions in in main impact clusters

4.1. Natural ecosystems

4.2. Water

4.3. Health

4.4. Food

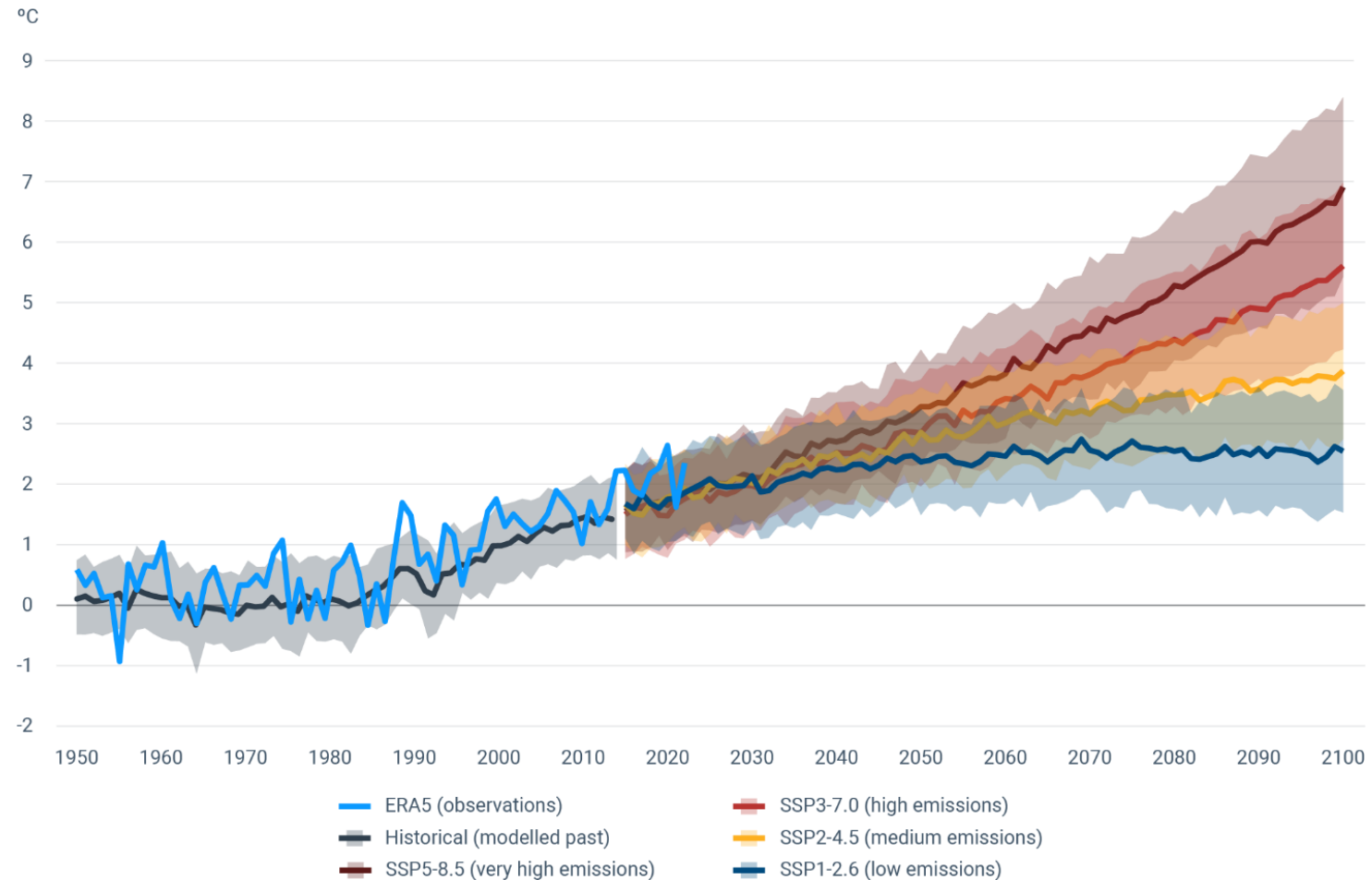
4.5. Infrastructure

4.6. Economy

### 5. Next steps

# Chapter 1: Introduction

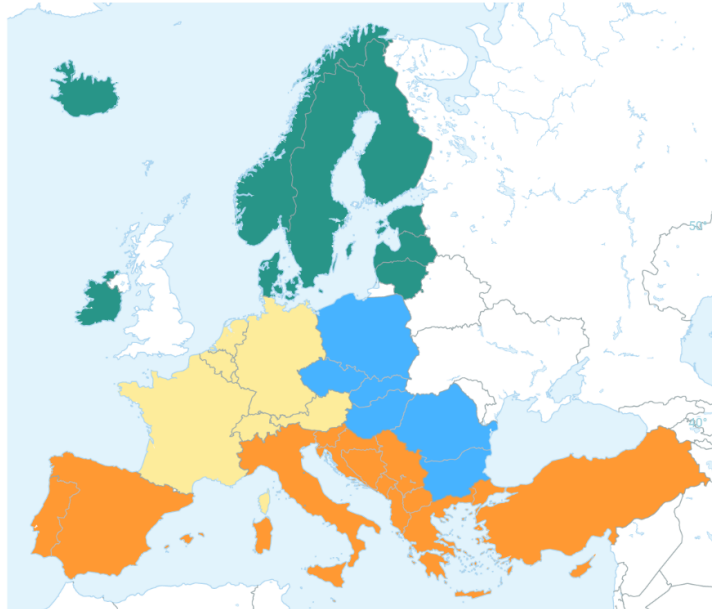
- Climate impacts will increase; mitigation & adaptation as part of the response package to the same problem.
- There is public demand for more action of resilience
- Not starting from scratch, but current action not sufficient
- Policy-makers have agency – risks can be managed



# Chapter 2: Diagnostics

## Hazards are increasing

Land regions	Northern Europe		Western Europe		Central-Eastern Europe		Southern Europe		European regional seas	Past	Future
	Past	Future	Past	Future	Past	Future	Past	Future			
	Low	High	Low	High	Low	High	Low	High			
Mean temperature	↗	↗	↗	↗	↗	↗	↗	↗	↗	↗	↗
Heat wave days	□(*)	↗	↗	↗	↗	↗	↗	↗	↗	↗	↗
Total precipitation	↗	↗	↗	↗	↘	↘	↗	↗	↘	↘	↘
Heavy precipitation	↗	↗	↗	↗	↗	↗	↗	↗	↗	↗	↗
Drought	↗	↘	↘	↗	↘	↗	↗	↘	↗	↗	↗



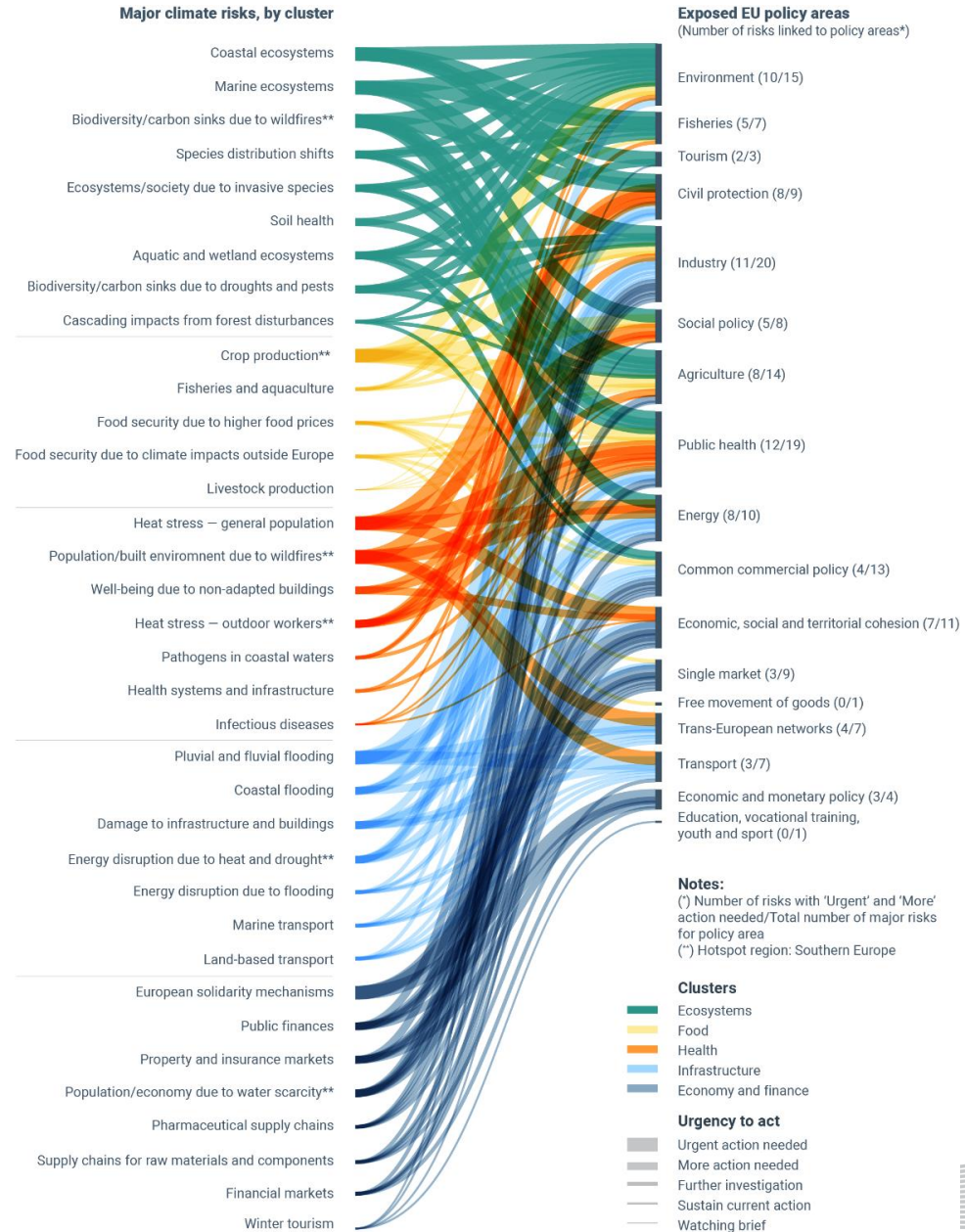
**Legend**

- ↗ Increase
- ↘ Decrease
- ↗ Increase (limited agreement between models, datasets or indices)
- ↘ Decrease (limited agreement between models, datasets or indices)
- ↗ Low confidence in direction of change
- No change

**Note**

(\*) Other heatwave indices show an increase for the past

# Risks and solutions are interconnected



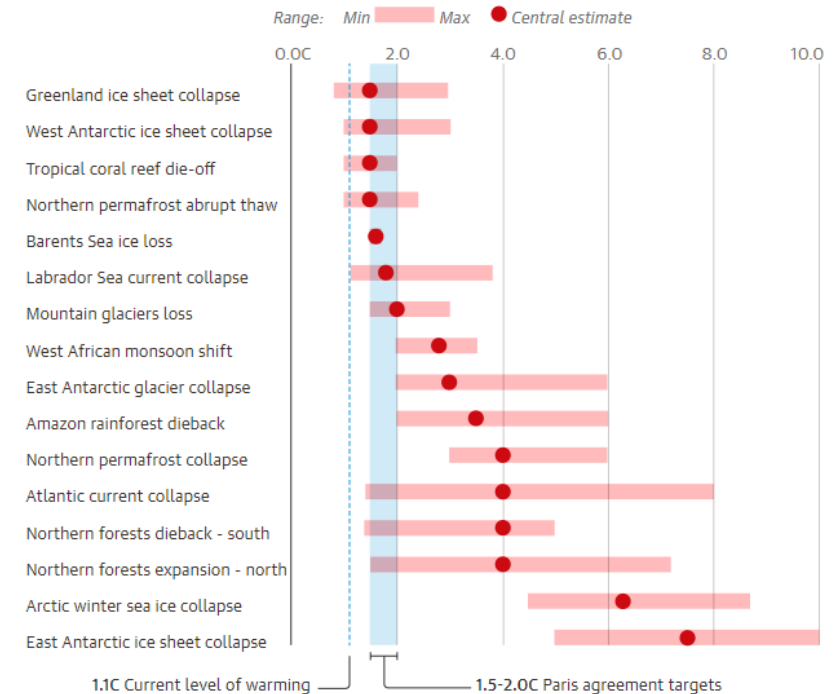
# Chapter 2: uncertainties

## Big "known unknowns"

- The climate scenarios are a useful indication of the likely outcomes (with confidence intervals), depending on GHG emissions.
- BUT,
- They don't account for "tail risks", the compounding and cascading impacts.
- For policy decision, these are important. The science on climate tipping points underlines the need for preparing.
- Uncertainty is not a valid excuse for inaction.

### The risk of climate tipping points is rising rapidly as the world heats up

Estimated range of global heating needed to pass tipping point temperature



Guardian graphic. Source: Armstrong McKay et al, Science, 2022. Note: Current global heating temperature rise 1.1°C Paris agreement targets 1.5-2.0°C

# Chapter 3: Horizontal actions

**Governance**

**Tools**

**Structural  
policies**

**Financial  
resilience**

# 3.1 Governance

Overall call to implement existing commitments.

- Need clear risk ownership, based on subsidiarity
  - COM calls on sector-processes to check the agreement on how responsibilities are divided between EU-MS levels, notably in implementation choices
- Stronger governance structures
  - Stressing the need to ensure that local-regional-national responsibilities are clear and adequately resourced
  - COM will review its processes, notably the implementation of the climate consistency check in the Better Regulation requirements
- Synergies in EU-level governance processes
  - COM will review whether the implementation of the risk assessment, monitoring and reporting requirements can be facilitated within the current legislative frameworks.

## 3.2 Tools

Recognising that risk owners may not have appropriate capacities and tools to effectively embed climate risks in their processes.

- **Climate data, modelling tools**, indicators, warning systems, guidance, and better access to these. Notably the upcoming DestinE.
- **Baseline climate scenarios**. The RCP4.5 should be the baseline scenario for considering climate impacts in any models; for stress-testing more adverse should be used.
- **Administrative capacities**. COM will support a consolidate knowledge base and will use the existing programmes to support Member States.
- **Combat disinformation**. COM will use the existing tools to better fight climate disinfo, including in the Digital Services Act compliance.



## 3.3. Structural policies

Stressing three policy areas that are horizontally important for managing climate (and other) risks across many sectors:

- **Spatial planning.** A MS/local competence, defines a big part of exposures and vulnerability. Decisions on spatial planning should be explicit on how much residual climate risks they accept. COM will also consider if can support better.
- **Critical infrastructure.** The CER directive is the EU level framework, and covers climate risks. How MS choose to implement this determines a lot about residual climate risks.
- **EU-level solidarity mechanisms.** Both UCPM and EUSF are stretched, and may need more topping up. COM will see if there are ways to incentivise preparedness, to reduce pressure on solidarity measures



## 3.4 Finance

Focus is on the updating the decision-frameworks in a way that makes preventing climate-related disruptions the best choice economically.

- **EU spending\***. Implementing the DNSH principle in the revised Financial Regulation for the post-2027 MFF will embed climate risks.
- **Public procurement**. MS should take climate risks into account in tender design and make use of the non-price criteria, so decisions are resilient in the longer term.
- **Mobilising finance**. COM sets up a Reflection Group to gather ideas on how to build better incentives for private investments for resilience.

\* *National budgets/Econ.GovernanceReview is covered in 4.6*

# Chapter 4: Actions in impact clusters

## 4.1. Natural ecosystems

- Implementation of legislation and better accounting of the value of natural systems
- Forest disturbances and carbon sinks
- Maritime ecosystems
- Climate-resilient landscapes

## 4.2. Water

- Safeguarding freshwater supplies
- Comprehensive stocktake of water issues

## 4.3. Health

- Occupational safety and health (linked to heat)
- European Climate and Health Observatory
- Monitoring on cross-border health threats
- Mobilisation of medical personnel and patient transfer
- Critical medical countermeasures

## 4.4. Food

- Food safety and affordability
- Future-proofing agriculture
- Fisheries policy

## 4.5. Infrastructure and built environment

- Infrastructure and building standards
- Transport infrastructure
- Energy infrastructure

## 4.6. Economy

- Resilience of firms, notably SMEs and supply chains
- Fiscal sustainability
- Financial markets stability

# Chapter 5: Next steps

## **International dimension**

- EU will exchange with international partners for mutual learning in various fora.
- Possible international event in 2025 about managing climate risks.

## **Political framing**

Not an endpoint: building resilience requires concerted action and Commission will continue to work with all to take this forward.

# Thank you



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