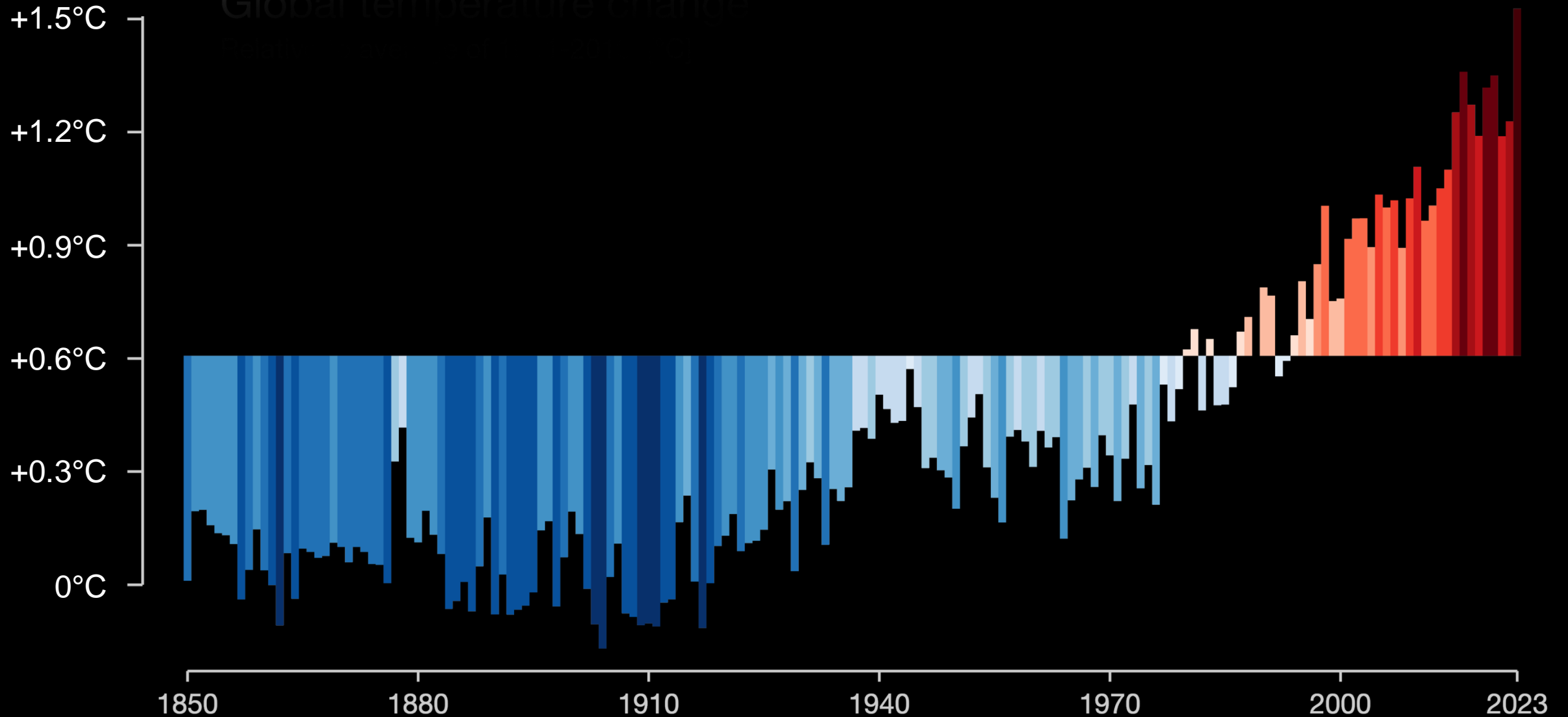


Climate action and energy security while preserving biodiversity

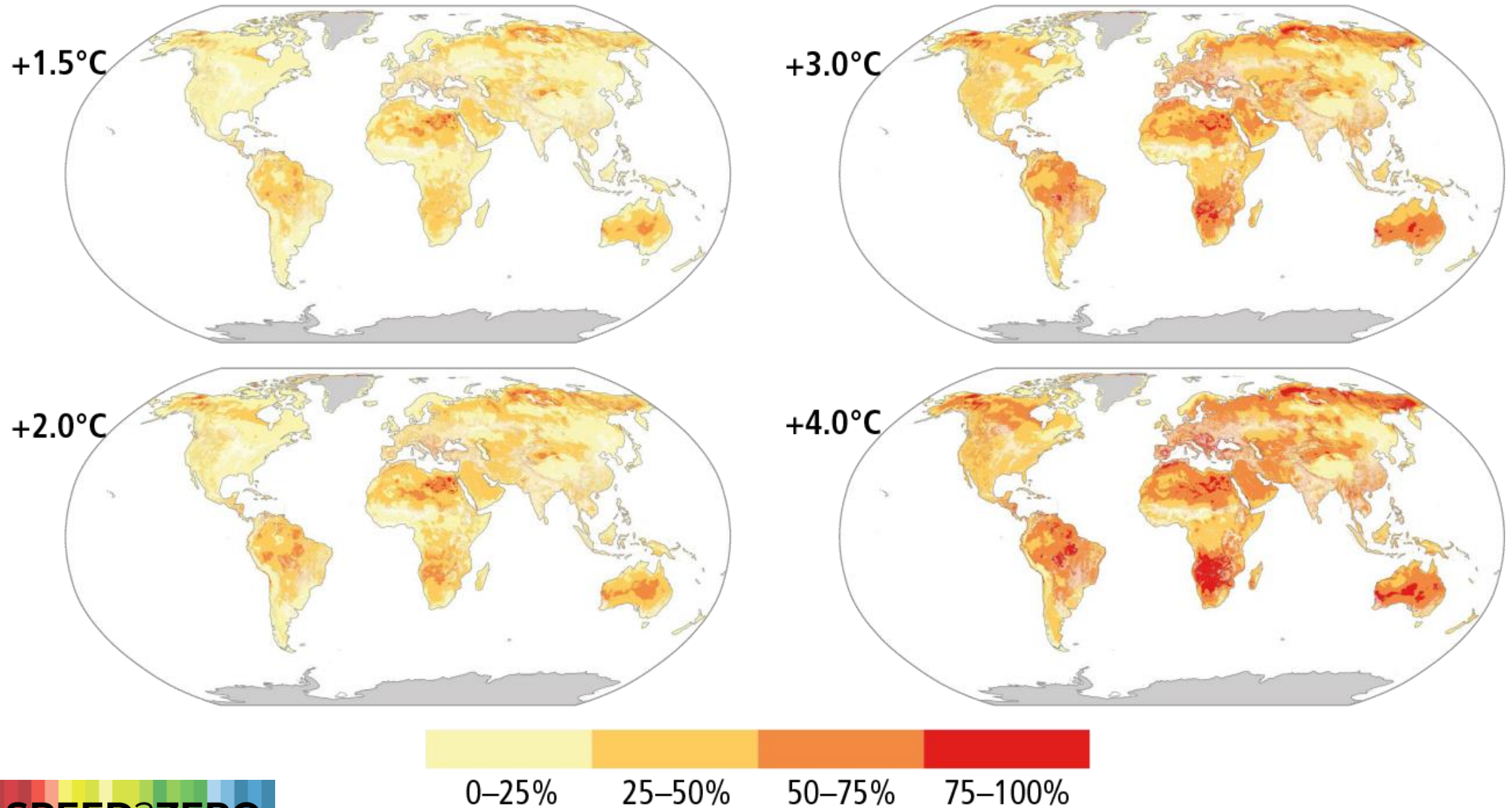
Cyril Brunner

Global temperatures have increased by over 1.3°C

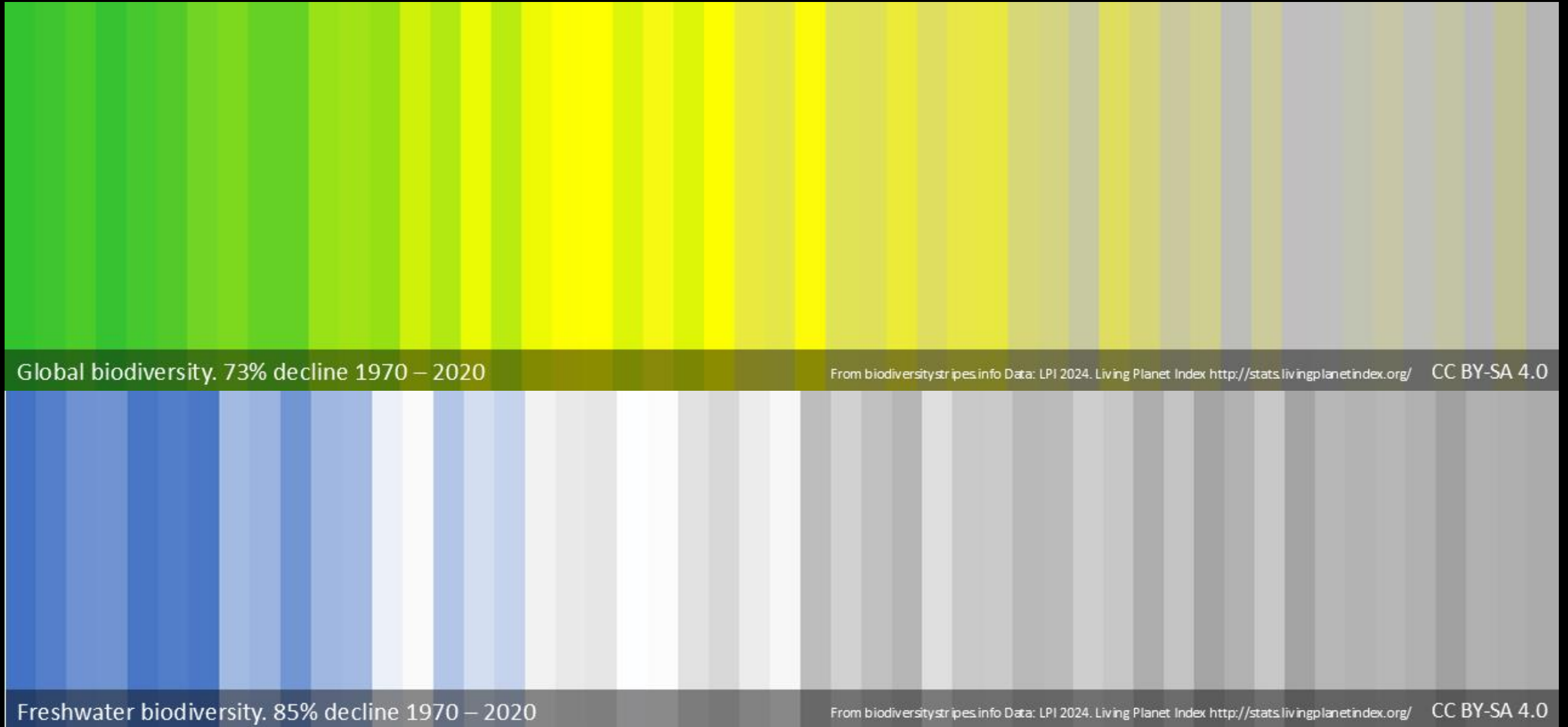
Global temperature change
1850-2023



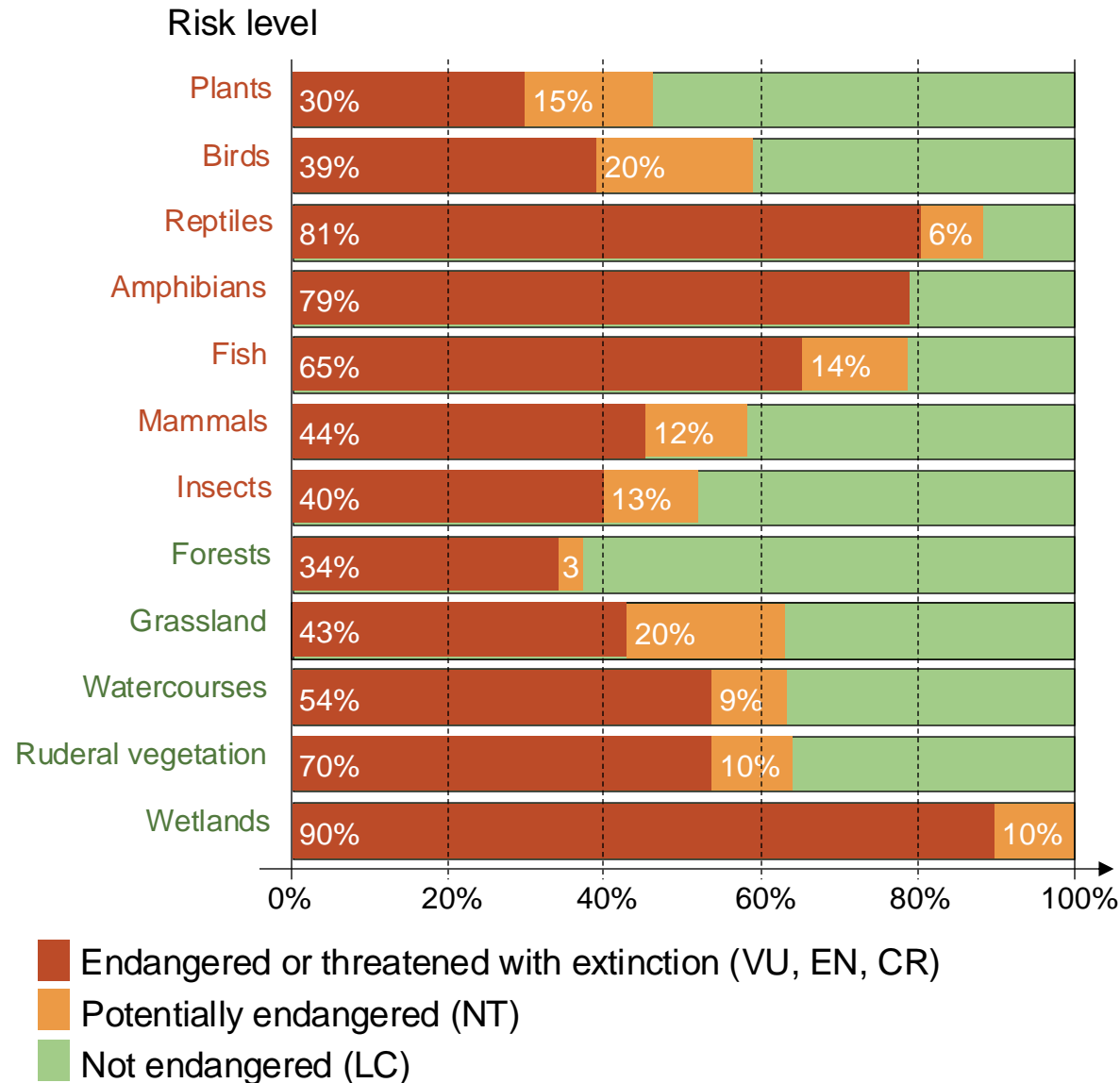
Projected loss of terrestrial and freshwater biodiversity compared to pre-industrial period



Global biodiversity has decreased by more than $\frac{2}{3}$



Many species are endangered or threatened with extinction



1900



Dry grasslands (95% loss)

2010



from: Fischer et al., 2015. Zustand der Biodiversität in der Schweiz 2014. Forum Biodiversität Schweiz, Bern.

Aim of SPEED2ZERO

In SPEED2ZERO, tools, action plans and technologies are being developed to support a sustainable transformation in Switzerland.

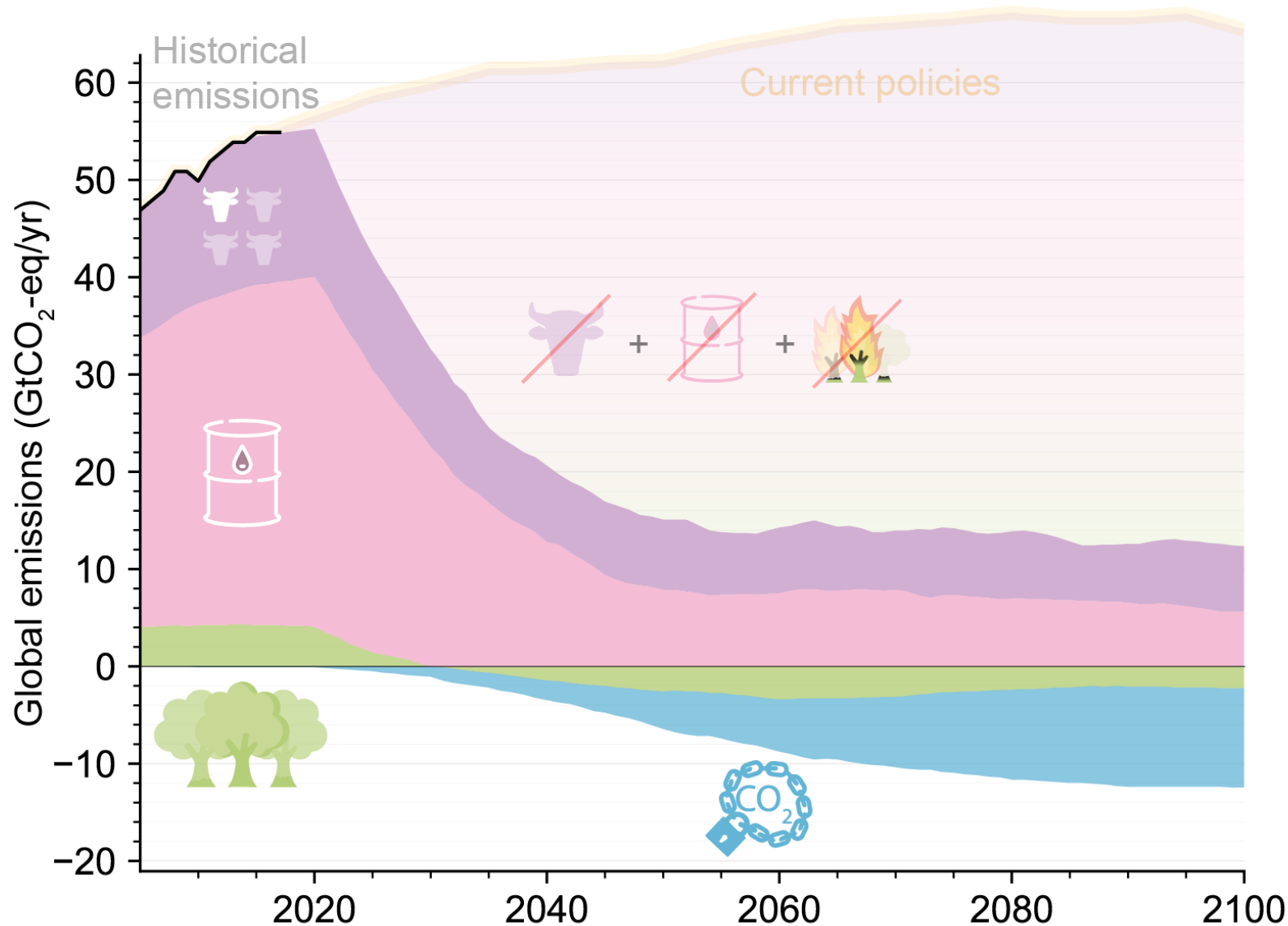
A transformation:

- that **meets** international and national **climate targets**
- that guarantees a **resilient energy supply**
- in which **biodiversity** can **regain its richness**.



SPEED2ZERO aims to create **direct benefits** for Switzerland.

How to stop additional global warming



To stop additional global warming, we need to:

1. Stop burning fossil fuels



2. Use biomass sustainably



3. Reduce our non-CO₂ emissions



4. Carbon dioxide removal to achieve a net emissions balance of zero

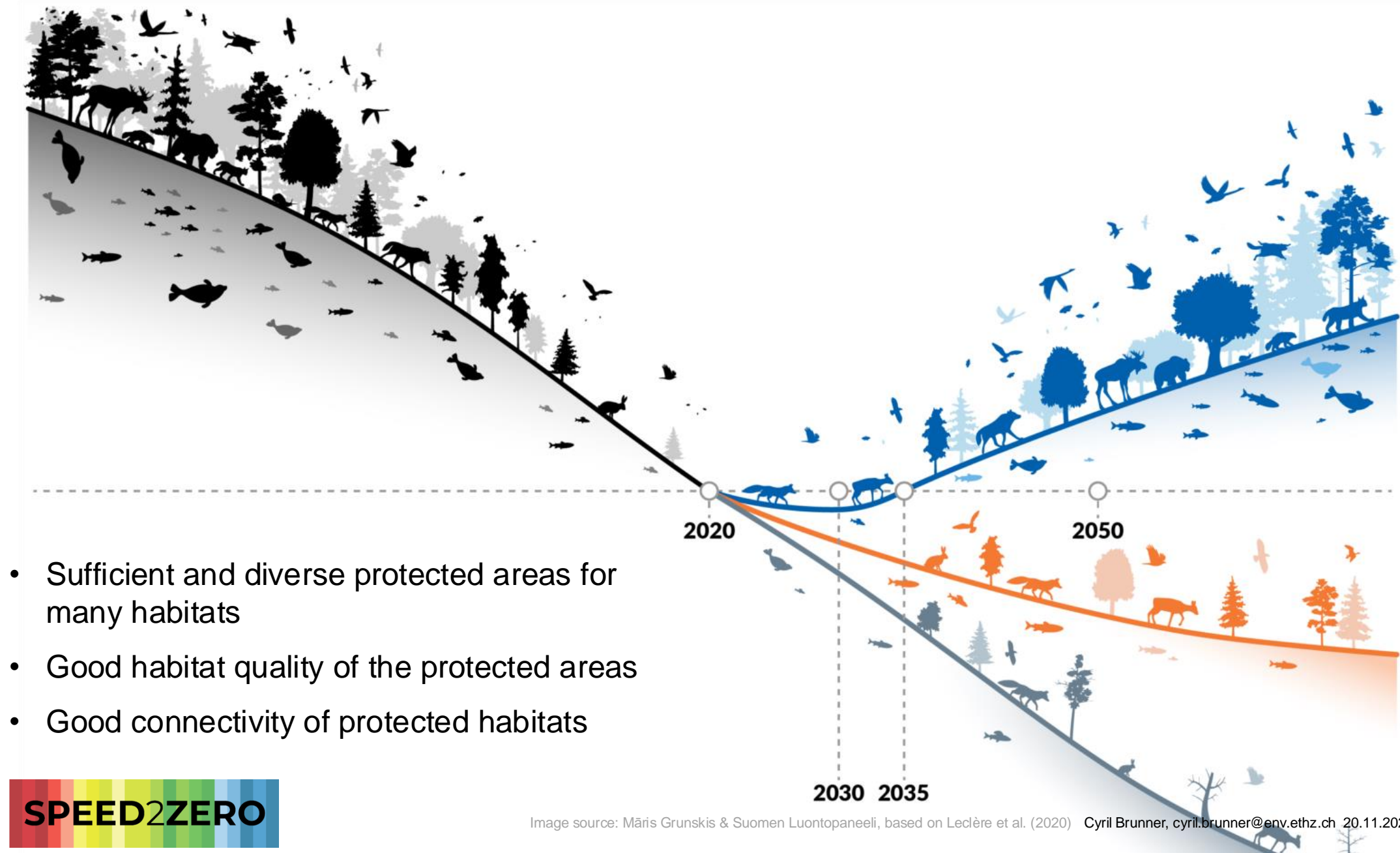


Sources:

IPCC AR6 WGIII (2022)

AR6 Scenarios Database hosted by IIASA; Byers et al. (2022).

How can we protect biodiversity?









Studie: Solarparks positiv für Artenvielfalt

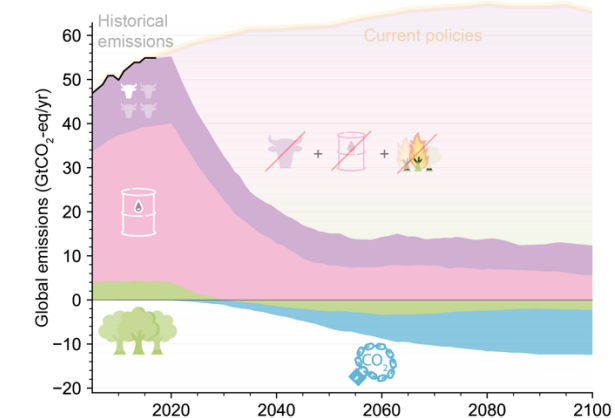
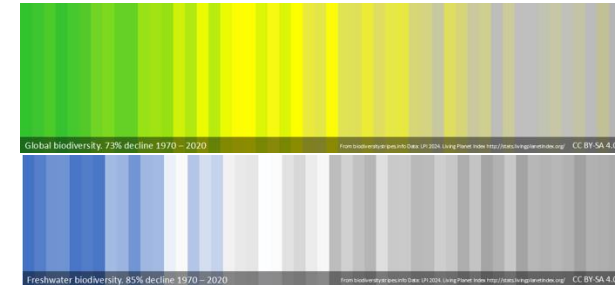
Berlin, 26. September 2024 – Wird auf ehemaligen Ackerflächen ein Solarpark errichtet, steigt die Anzahl und die Vielfalt an Pflanzen und Tieren deutlich an. So konnten in PV-Freiflächenanlagen über 350 unterschiedliche Pflanzenarten und eine Vielzahl von Vogel-, Reptilien- und Insektenarten nachgewiesen werden. Das zeigen die heute veröffentlichten ersten Auswertungen der umfangreichen Untersuchung „Artenvielfalt im Solarpark – Eine bundesweite Feldstudie“, die der Bundesverband Neue Energiewirtschaft e.V. (bne) in Auftrag gegeben hat.





Zusammenfassung

- The state of biodiversity is concerning. Drivers of biodiversity loss are mainly not energy-related. However, if climate change remains unaddressed, it is expected to become a main driver of biodiversity loss.
- Change is inevitable: doing nothing does not mean that nothing will change. We need to make conscious changes today, while we still have some levers to steer change in a desirable direction.
- We have all knowledge, all technologies, all resources to mitigate climate change today. There are several options that go well together with preserving biodiversity.



More information:



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Biodiversität, Landschaftsschutz, Energieversorgung und Klimaschutz
denken
...see more

ETH zürich 

**Gekoppelte Herausforderungen für die Schweiz:
Schnittstellen im Klimaschutz,
Biodiversitätsschutz, Energiesicherheit
und Landschaftsschutz**

Whitepaper
Cyril Brunner, Rebecca Lordan-Perret, Elisa Cadelli,
Nadine Salzmann, Dirk N. Karger, Niklaus E. Zimmermann
17. Mai 2024

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