



Over bomen en mensen

van klimaatwetenschap naar
klimaattransitie

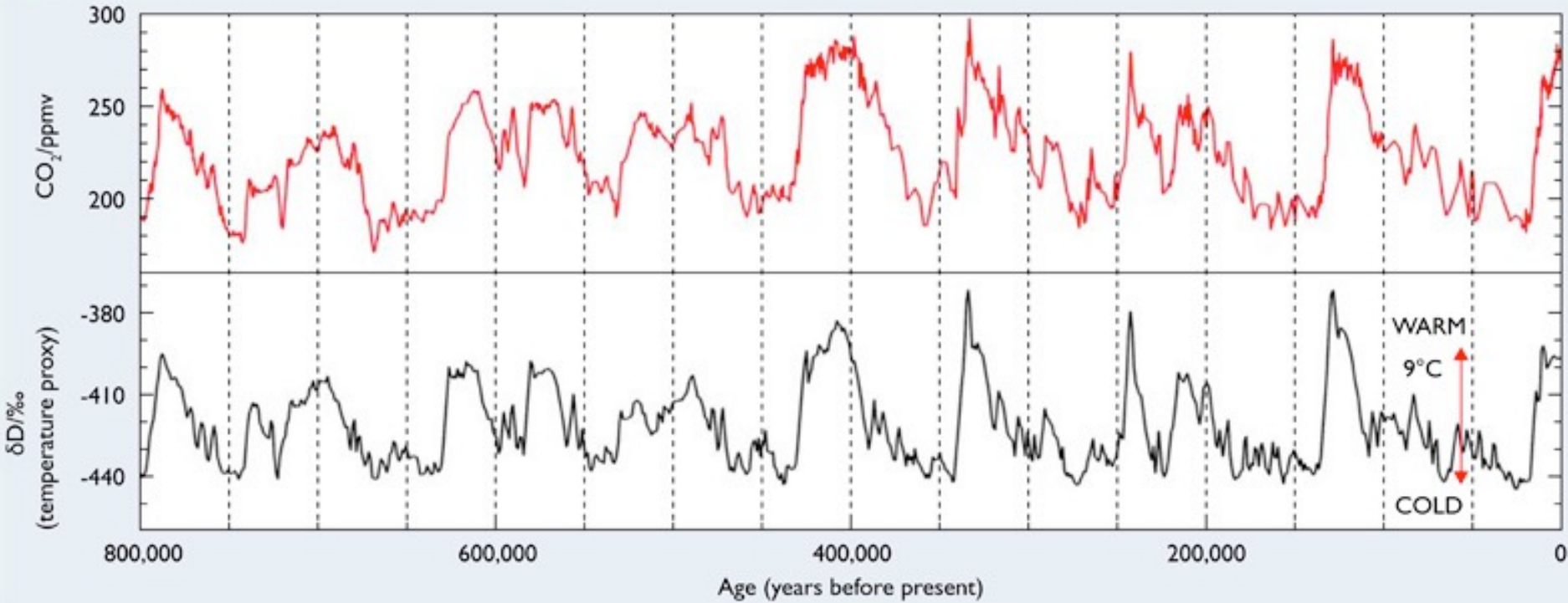
Valerie Trouet

FARO

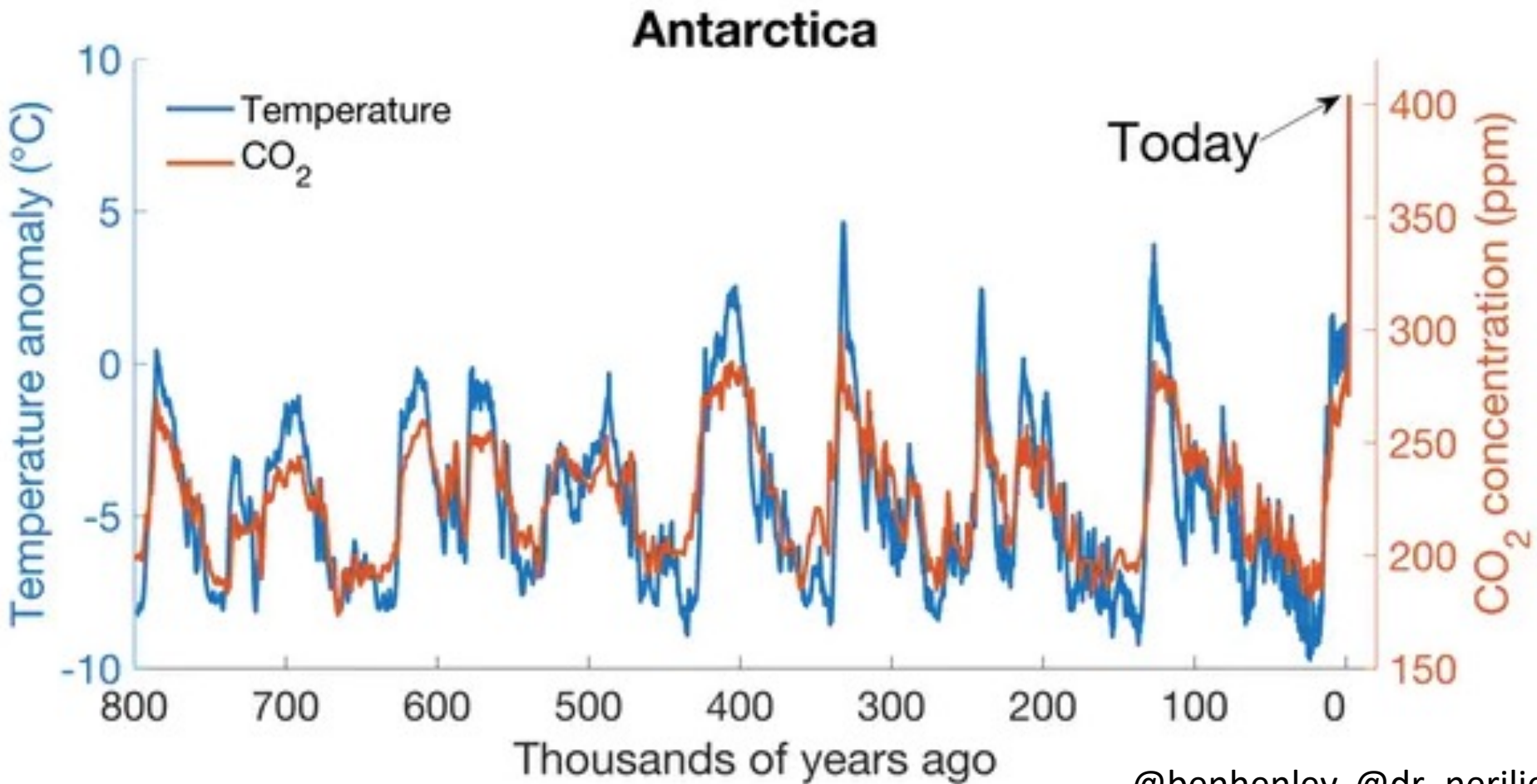
16 Mei 2023

**Waarom klimaatgeschiedenis
bestuderen?**

Fig. 3: Ice core data from the EPICA Dome C (Antarctica) ice core: deuterium (δD) is a proxy for local temperature; CO_2 from the ice core air^(5,6)



today: 423 ppm



@benhenley, @dr_nerilie



Oudste levende boom
bristlecone pine
5062 jaar (in 2012)

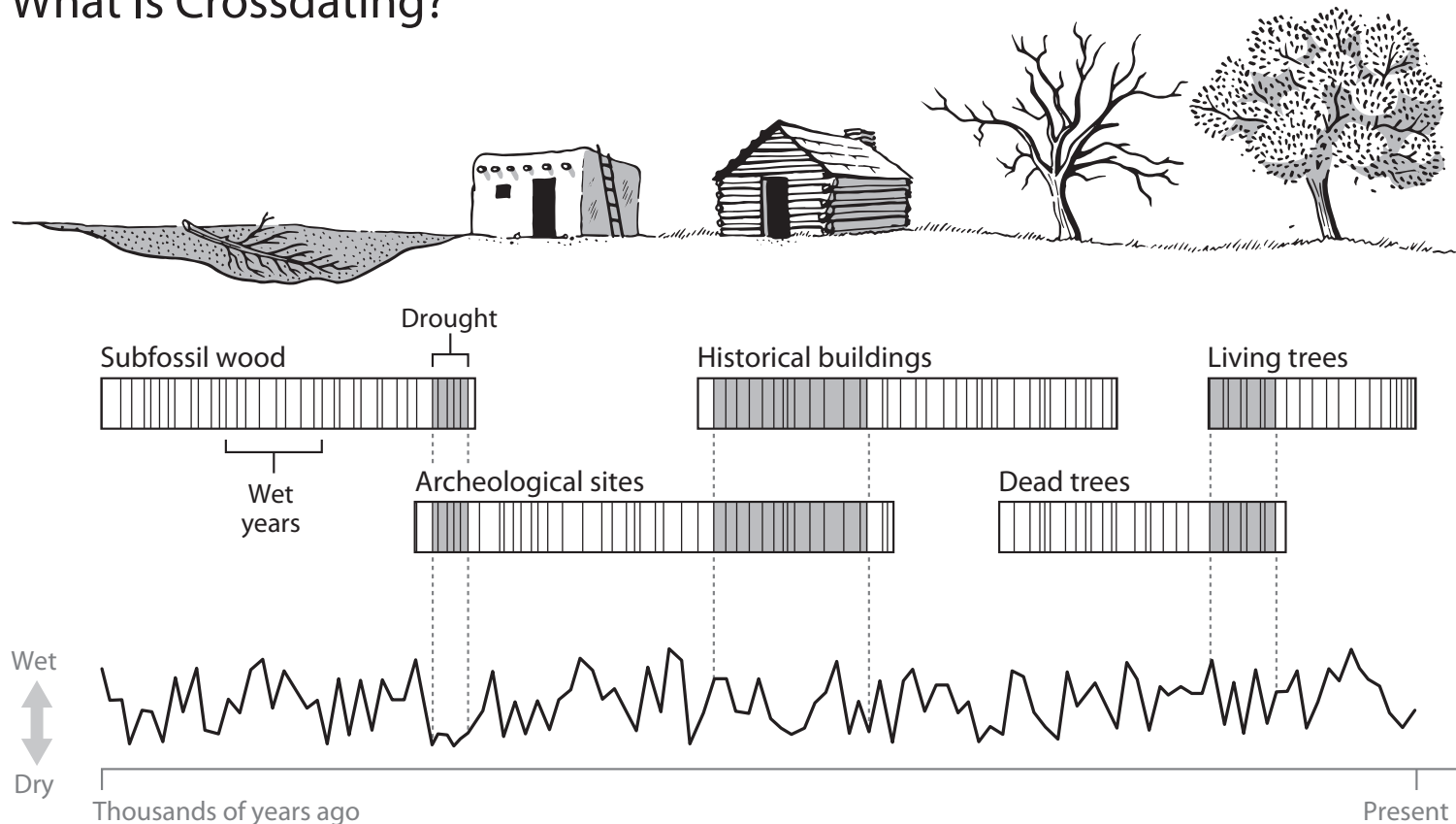




Photo: D
S

De langste ononderbroken jaarring-chronologie: 12.650 jaar

What Is Crossdating?

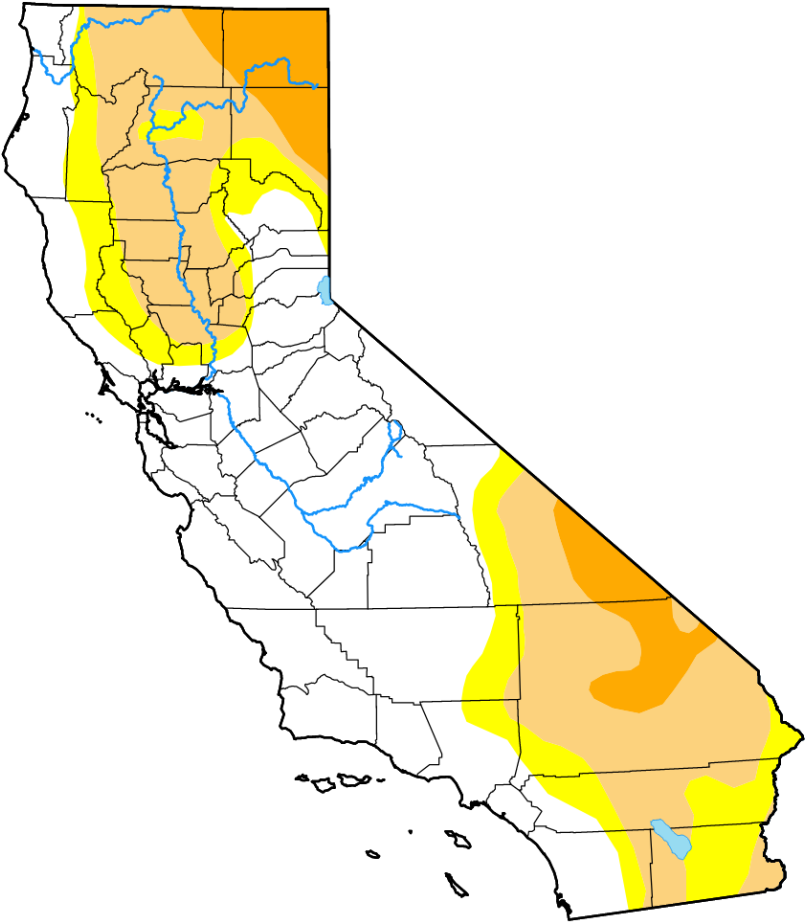


Menselijke geschiedenis



klimaat geschiedenis








California



Map released: Thurs. March 23, 2023

Data valid: March 21, 2023 at 8 a.m. EDT

Intensity

-  None
-  D0 (Abnormally Dry)
-  D1 (Moderate Drought)
-  D2 (Severe Drought)
-  D3 (Extreme Drought)
-  D4 (Exceptional Drought)
-  No Data

Authors

United States and Puerto Rico Author(s):
Curtis Riganti, National Drought Mitigation Center

Pacific Islands and Virgin Islands Author(s):
Ahira Sanchez-Lugo, NOAA/NCEI

U.S. Drought Monitor California

April 7, 2015

(Released Thursday, Apr. 9, 2015)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.15	99.85	98.11	93.44	66.60	44.32
Last Week <i>3/31/2015</i>	0.15	99.85	98.11	93.44	66.60	41.41
3 Months Ago <i>1/6/2015</i>	0.00	100.00	98.12	94.34	77.94	32.21
Start of Calendar Year <i>12/30/2014</i>	0.00	100.00	98.12	94.34	77.94	32.21
Start of Water Year <i>9/30/2014</i>	0.00	100.00	100.00	95.04	81.92	58.41
One Year Ago <i>4/8/2014</i>	0.00	100.00	99.81	95.21	68.76	23.49

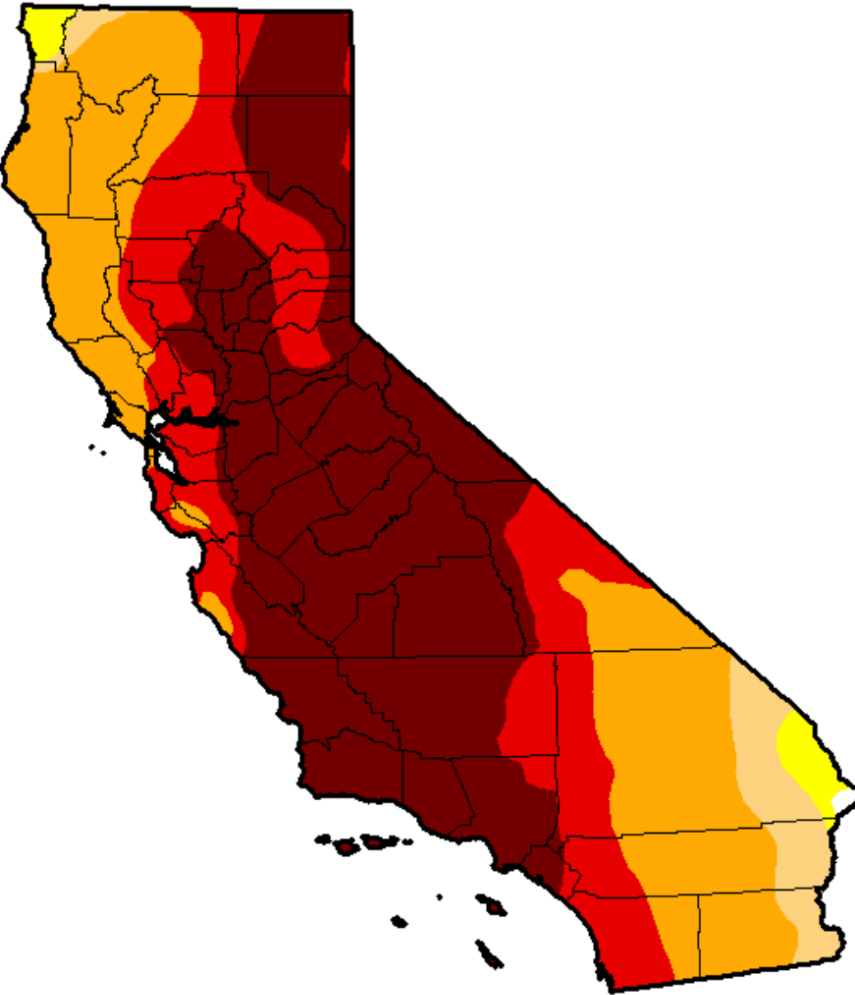
Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

Michael Brewer
NCDC/NOAA



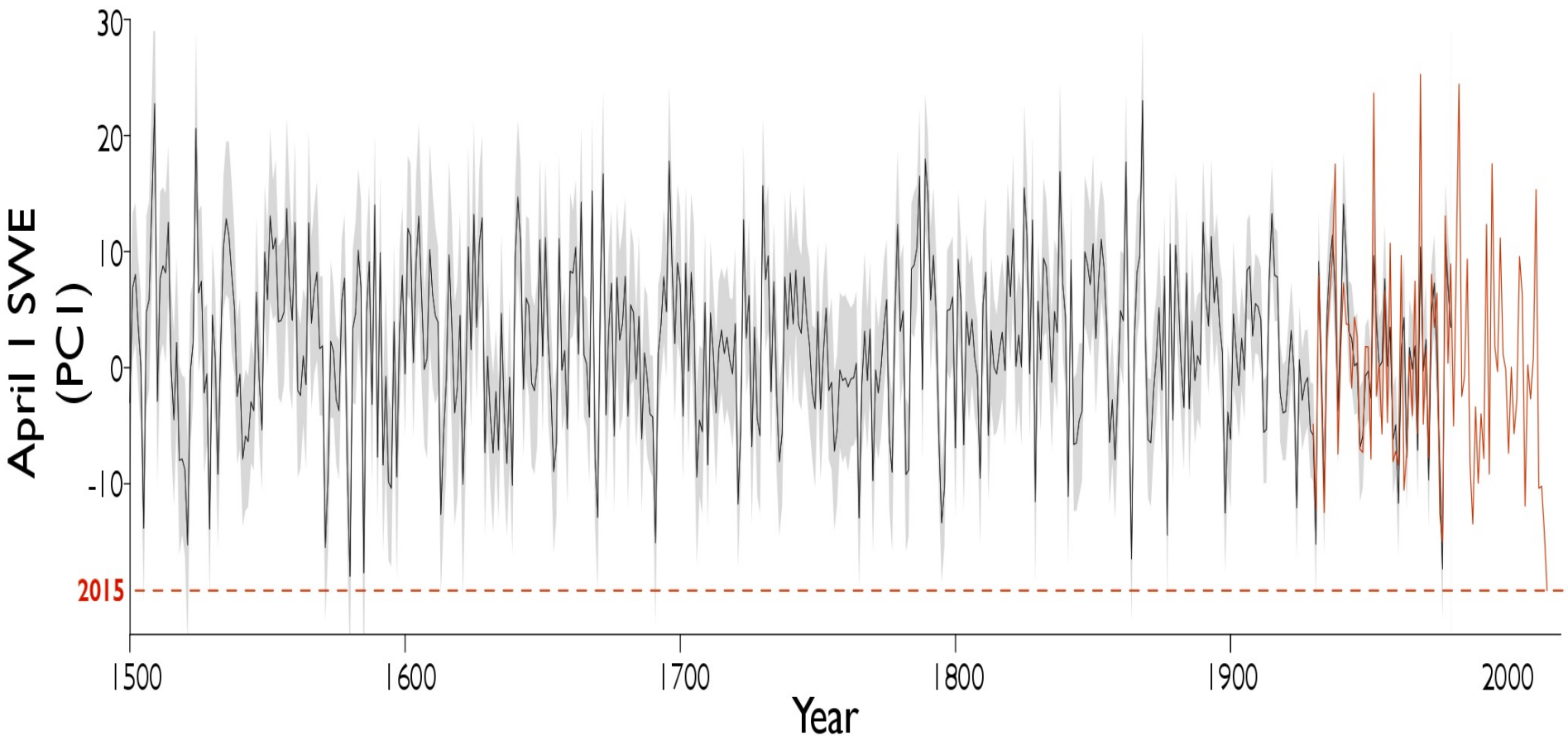
<http://droughtmonitor.unl.edu/>



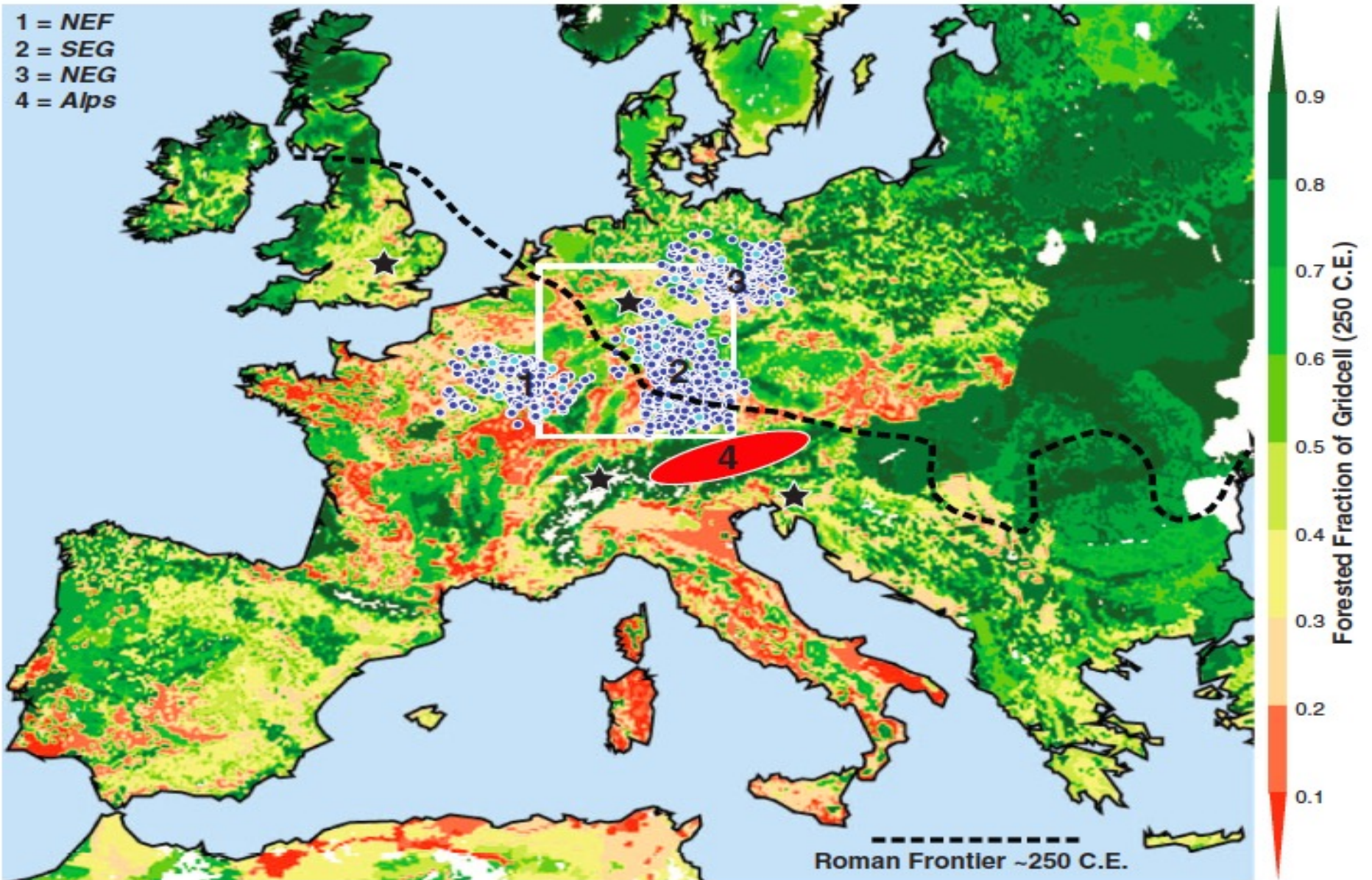


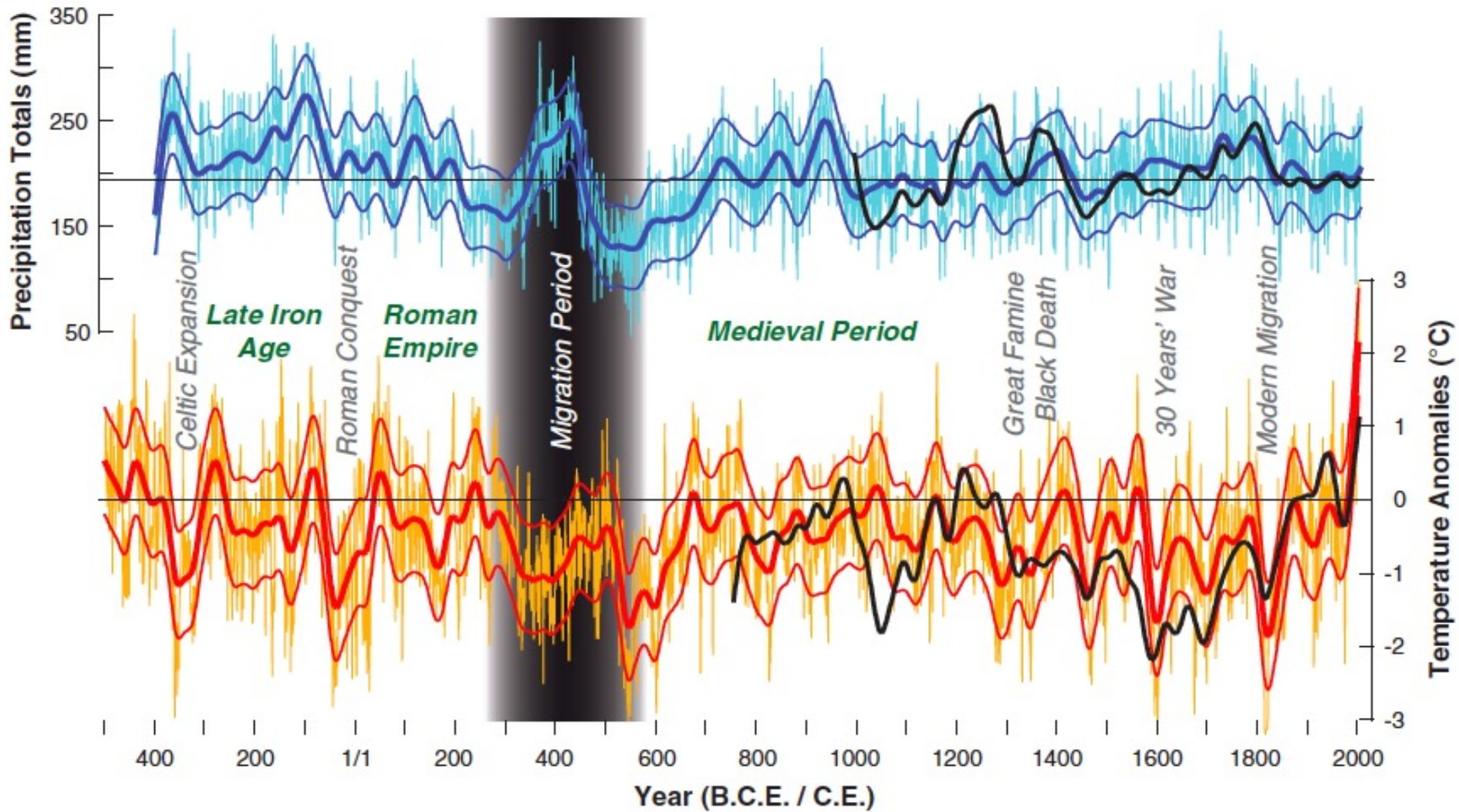
Photo: K.I. Anchukaitis

De sneeuwlaag in de Sierra Nevada in 2015 was de laagste in 500 jaar



De Val van Rome

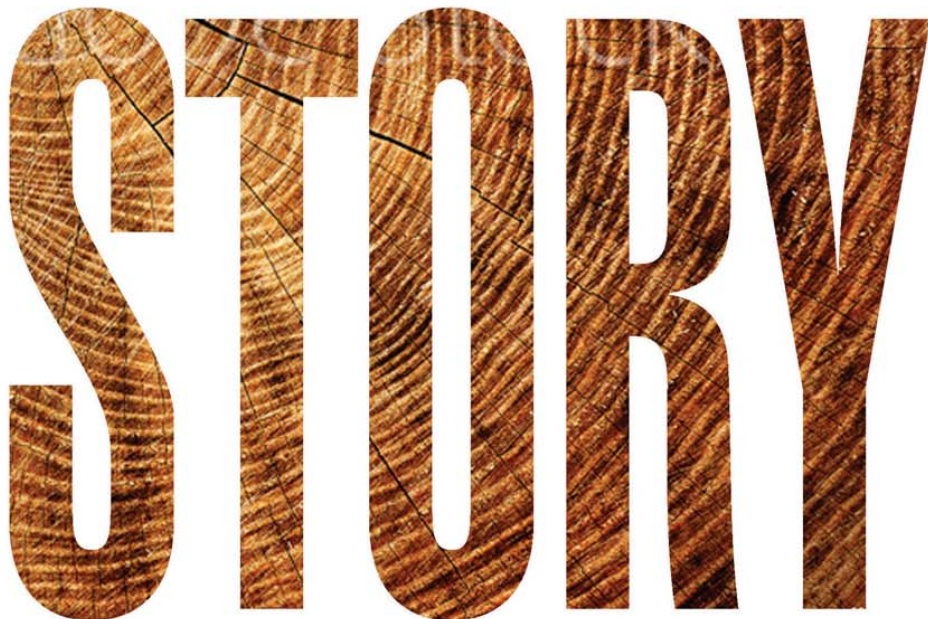






TREE

The History of the World Written in Rings Valerie Trouet



STORY



VALERIE
TROUET

Wat bomen
ons vertellen

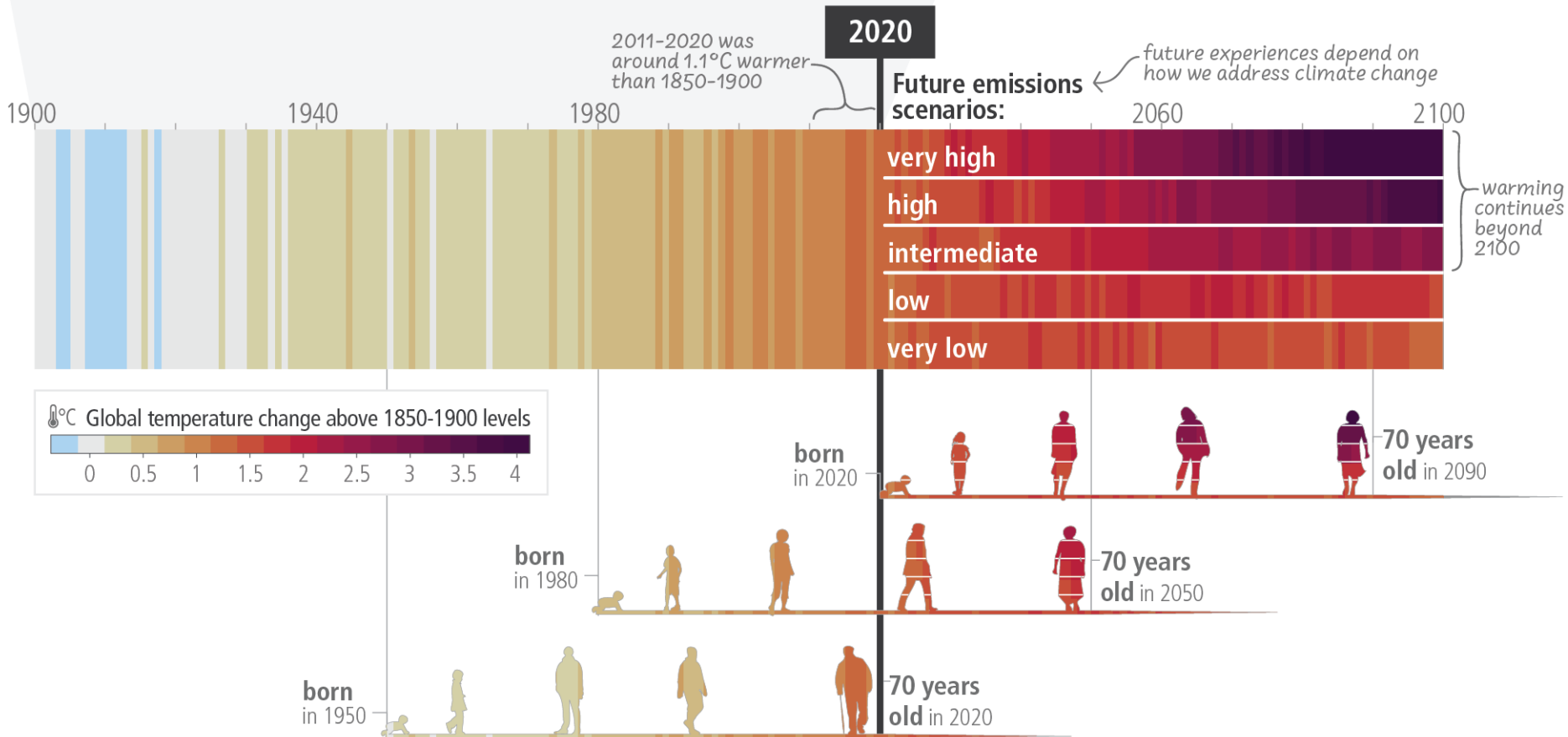
EEN GESCHIEDENIS
VAN DE WERELD
IN JAARRINGEN

lanoo

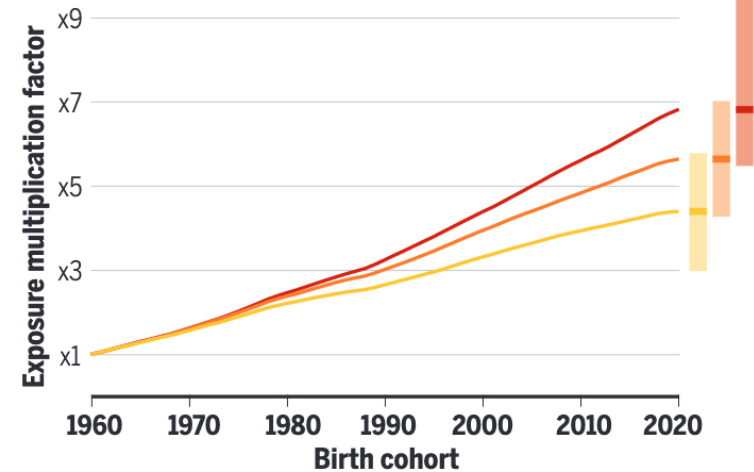
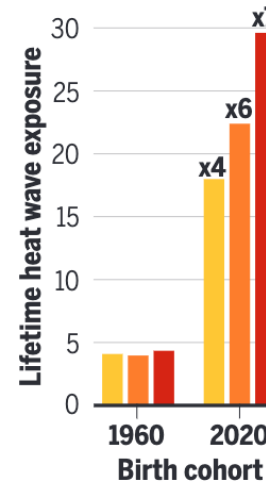
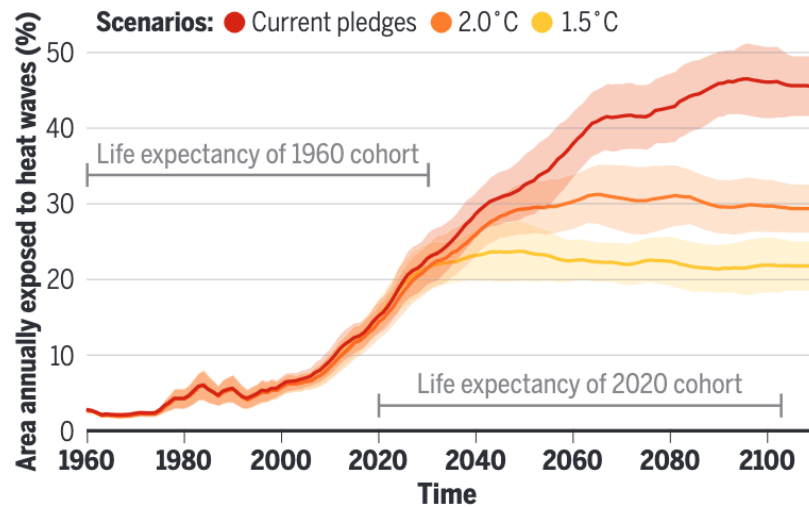
Lessen

nadelen

c) The extent to which current and future generations will experience a hotter and different world depends on choices now and in the near-term



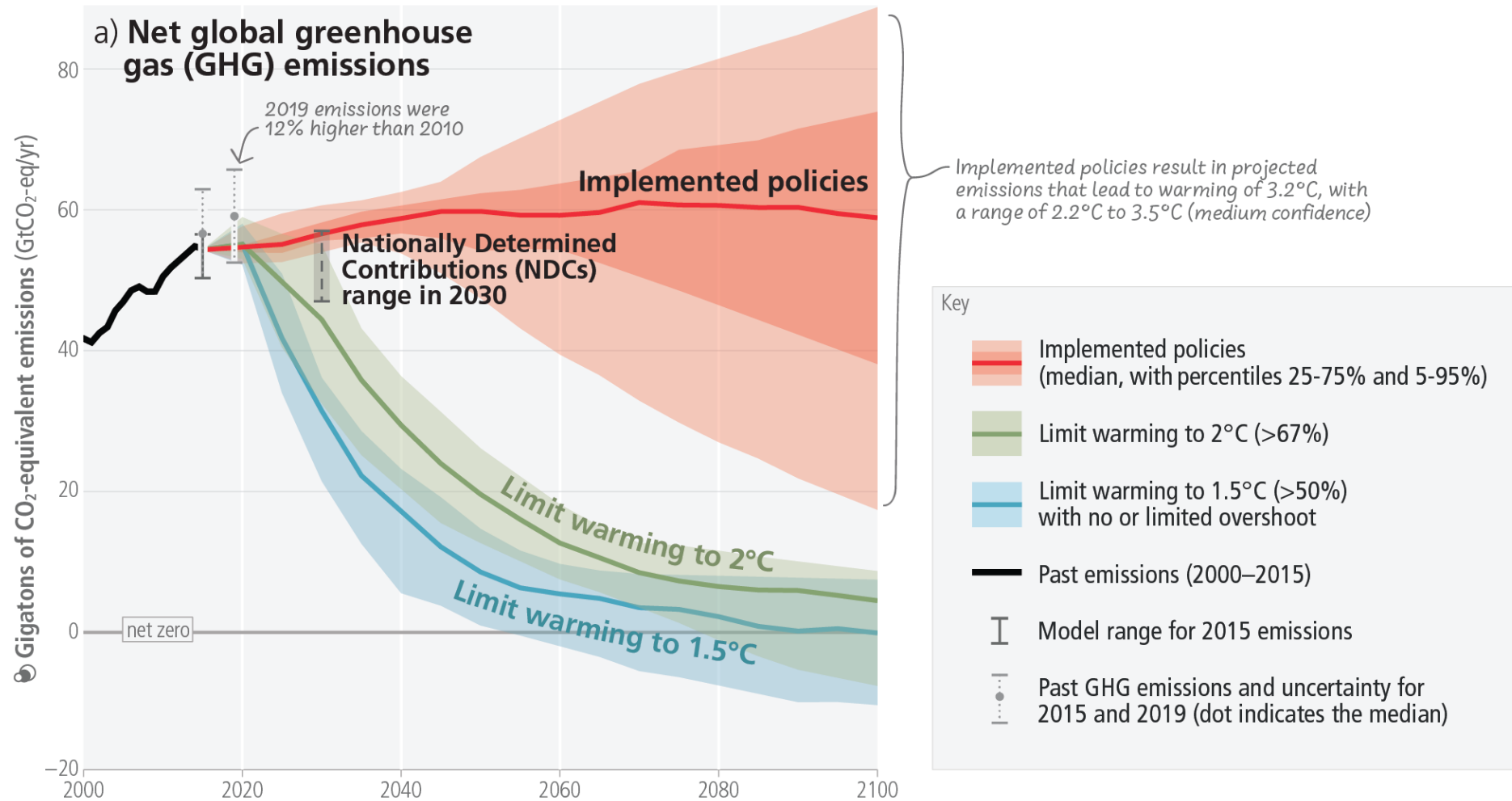
Intergenerational inequities in exposure to heatwaves



voordelen

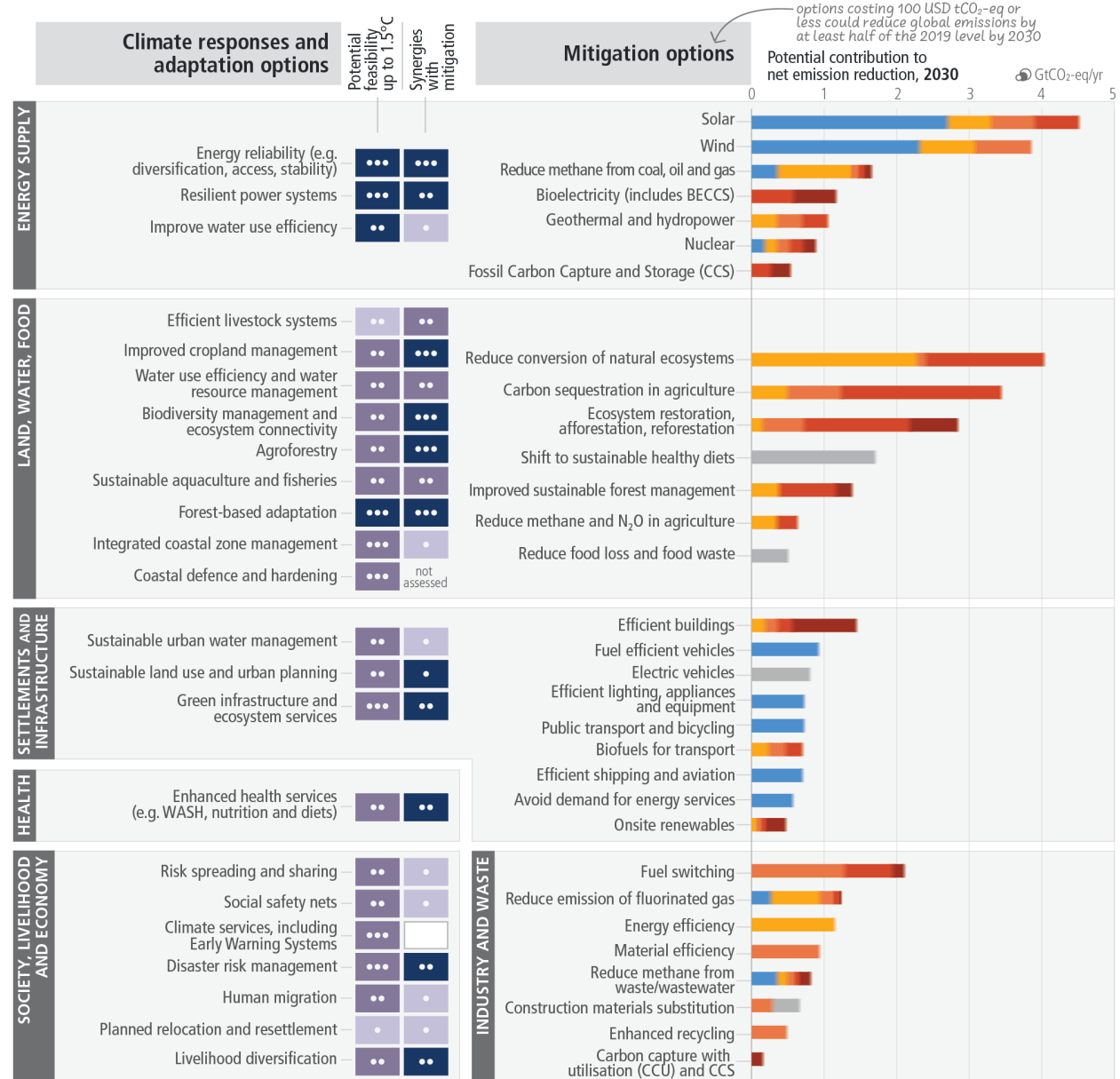
Limiting warming to 1.5°C and 2°C involves rapid, deep and in most cases immediate greenhouse gas emission reductions

Net zero CO₂ and net zero GHG emissions can be achieved through strong reductions across all sectors



There are multiple opportunities for scaling up climate action

a) Feasibility of climate responses and adaptation, and potential of mitigation options in the near-term



Feasibility level and synergies with mitigation

High Medium Low

Insufficient evidence

Confidence level in potential feasibility and in synergies with mitigation

High Medium Low

Net lifetime cost of options:

Costs are lower than the reference

0-20 (USD per tCO₂-eq)

20-50 (USD per tCO₂-eq)

50-100 (USD per tCO₂-eq)

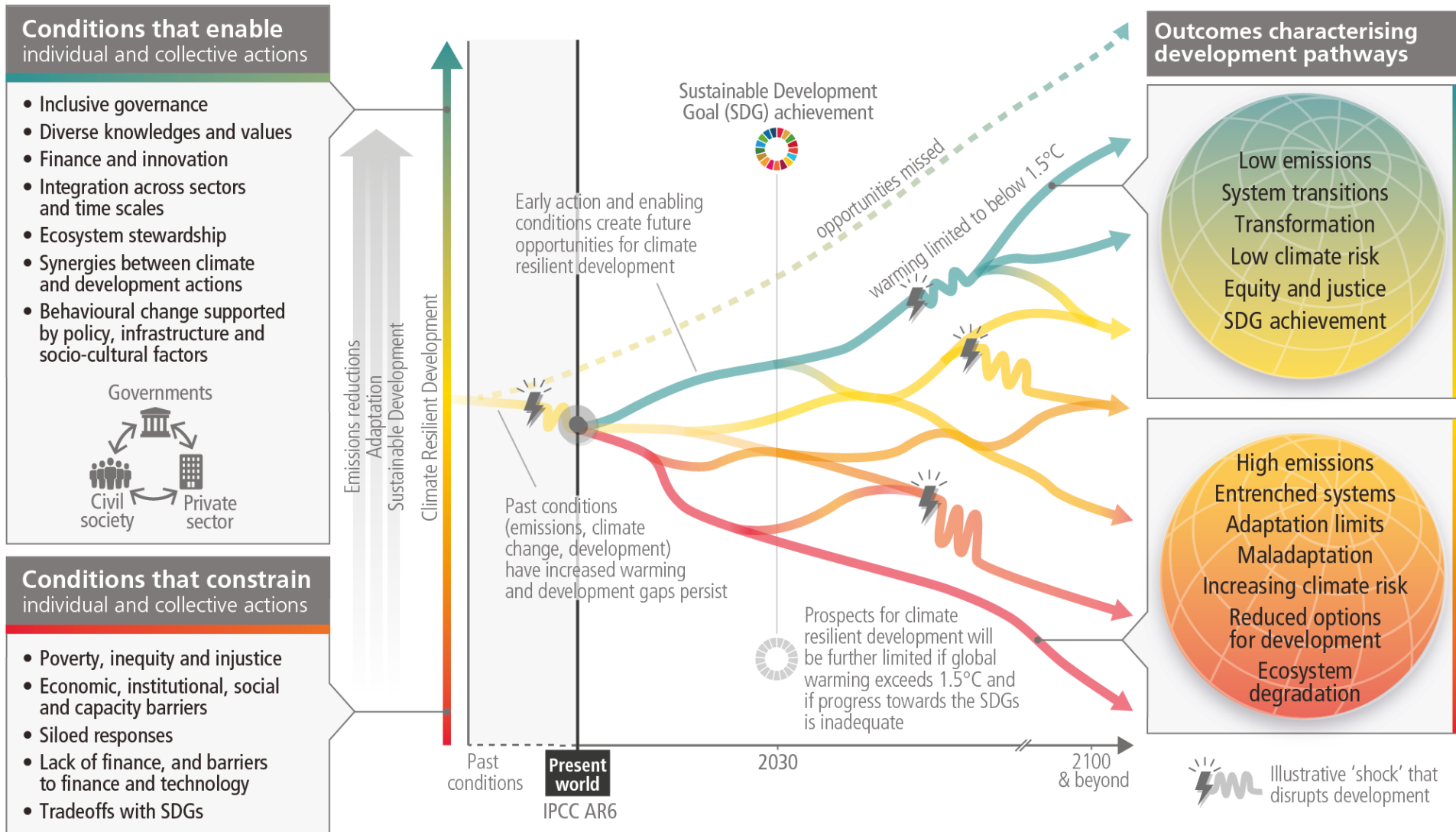
100-200 (USD per tCO₂-eq)

Cost not allocated due to high variability or lack of data

weerbaarheid

There is a rapidly narrowing window of opportunity to enable climate resilient development

Multiple interacting choices and actions can shift development pathways towards sustainability



Het Belgisch Klimaatcentrum



Onze missie

Het Klimaatcentrum wil de impact
van wetenschappelijk onderzoek op
klimaat mitigatie en adaptatie
maximaliseren





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Onze belangrijkste doelen

- Klimaat-gerelateerd onderzoek in België strategisch coördineren
- Overdracht van wetenschappelijke kennis naar beleidsmakers, publieke en privé sector, en media
- Gerichte onderzoeksprogramma's leiden



Dank u!

