





Conferenza stampa #ValoreAcqua

Mercoledì 23 febbraio

Community Valore Acqua per l'Italia

Scenari, strategie e *policy* per la filiera dell'acqua in Italia e l'ottimizzazione del suo sviluppo

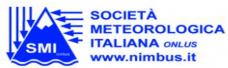
Presentazione di Luca Mercalli

Presidente, Società Meteorologica Italiana

Il clima che verrà e l'acqua

Luca Mercalli – Società Meteorologica Italiana - www.nimbus.it







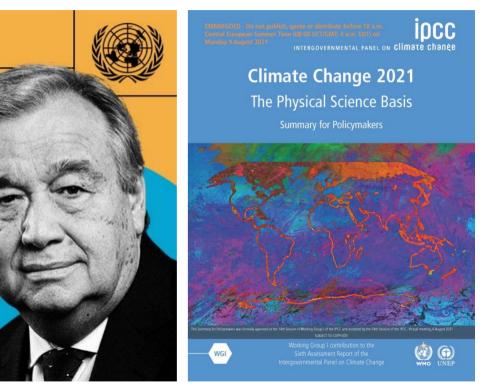
ANTÓNIO GUTERRES

United Nations Secretary-General

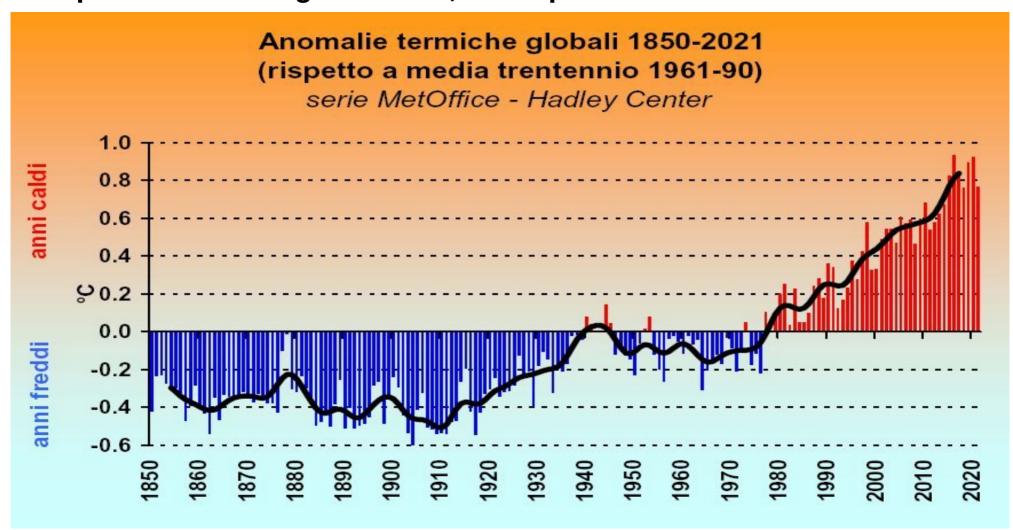


Today's IPCC Working Group 1 Report is a code red for humanity."

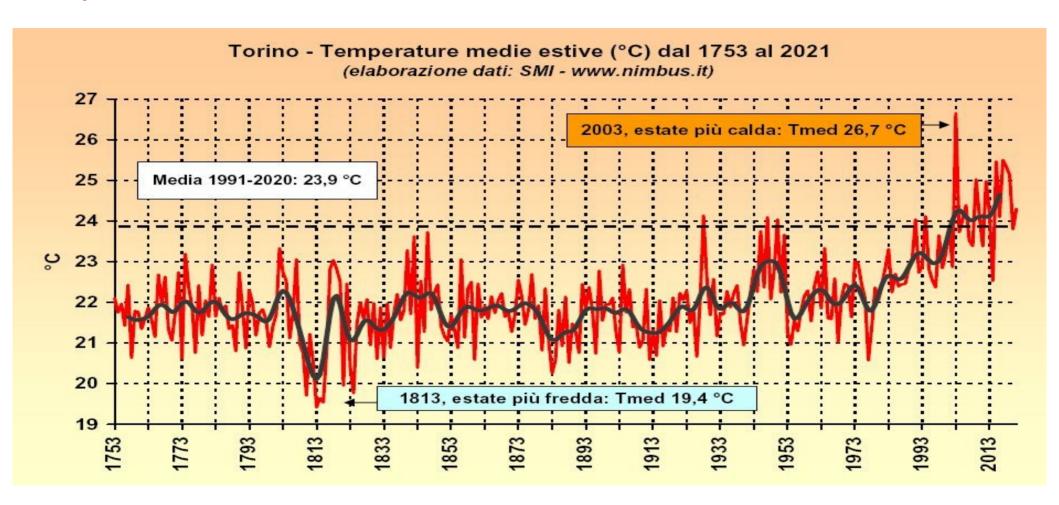
9 AUGUST 2021



Temperatura media globale: +1,2°C in più nell'ultimo secolo



Temperature estive in aumento





1897 2005 2015 (f. Druetti) (f. L. Mercalli) (f. S. Jobard)

Ghiacciaio Pré de Bar (Monte Bianco):

ritiro della fronte di oltre 800 m dal 1897 al 2015

I ghiacciai alpini si sono ridotti di oltre il 50% in un secolo



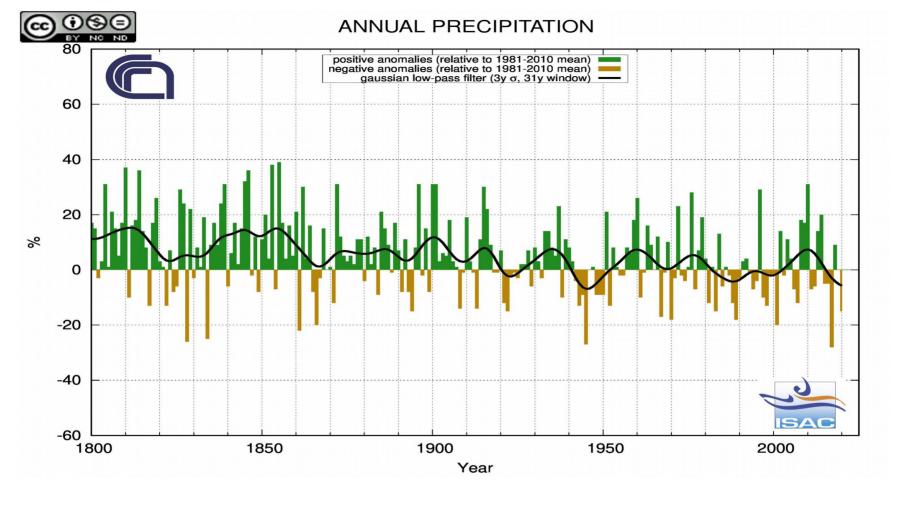


Ghiacciai piccoli estinti: Gh. di Teleccio (Gran Paradiso)

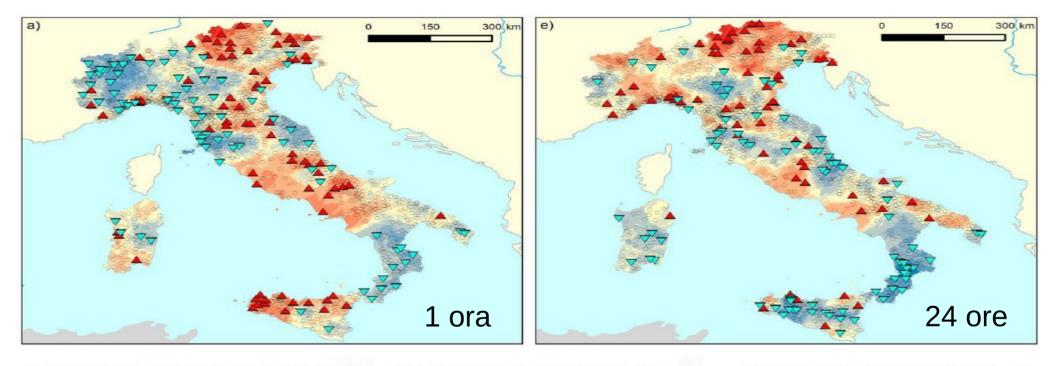


Ghiacciaio Meridionale del Sabbione (Ossola) dalla diga.

Regresso frontale circa 1200 m.



Precipitazioni annue in Italia (1800-2019): tendenze per ora poco evidenti, solo lieve calo rispetto all'Ottocento



Increasing significant trend

Not significant trend (5%)

Tratto da: Libertino et al., 2019 - Evidence for Increasing Rainfall Extremes Remains Elusive at Large Spatial Scales: The Case of Italy. Geophysical Research Letters, 46.

Decreasing significant trend ▼

Intensità degli episodi piovosi (1915-2015):
tendenze a lungo termine ancora variegate a livello nazionale,
ma probabili primi effetti del riscaldamento globale
sulla severità e frequenza degli eventi (più energia e vapore dal mare caldo).

Siccità 2017





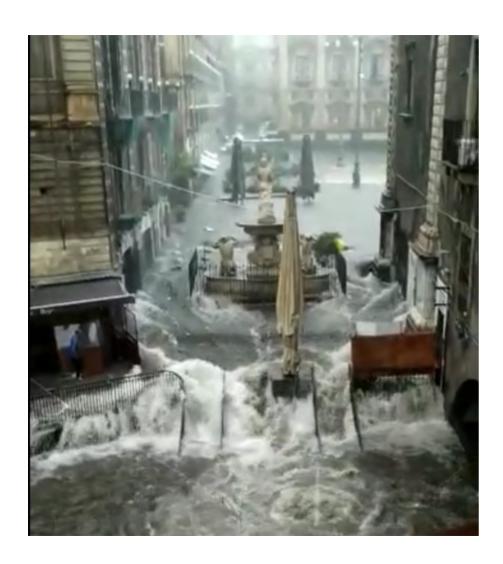
2-3 ottobre 2020, alluvione disastrosa sulle Alpi Marittime (tempesta Alex): nubifragi eccezionali in risalita dal mare troppo caldo

Nord-Est, Emilia e regioni tirreniche, 4-6 dicembre 2020

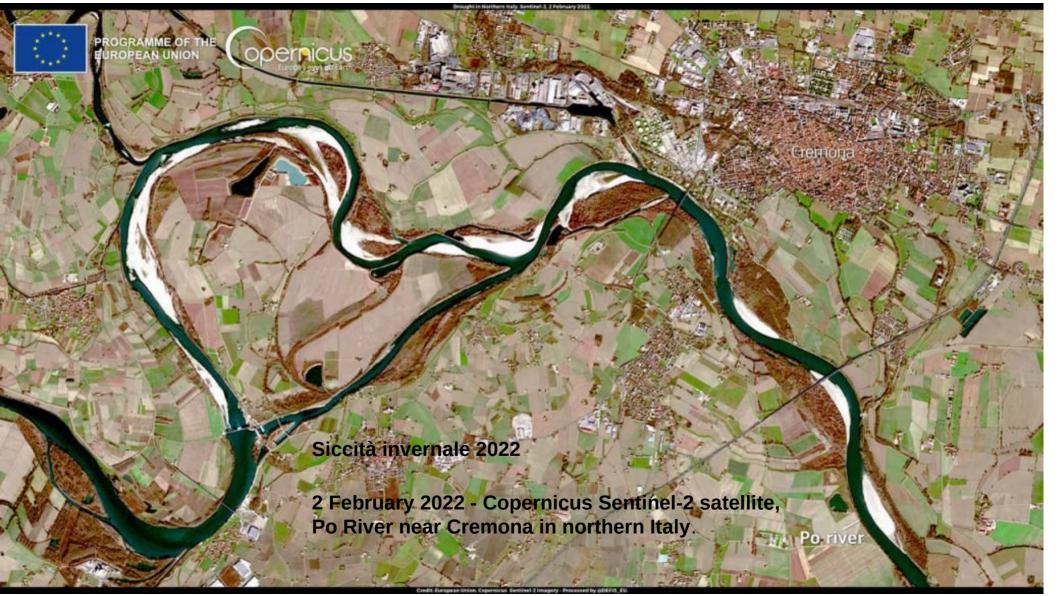




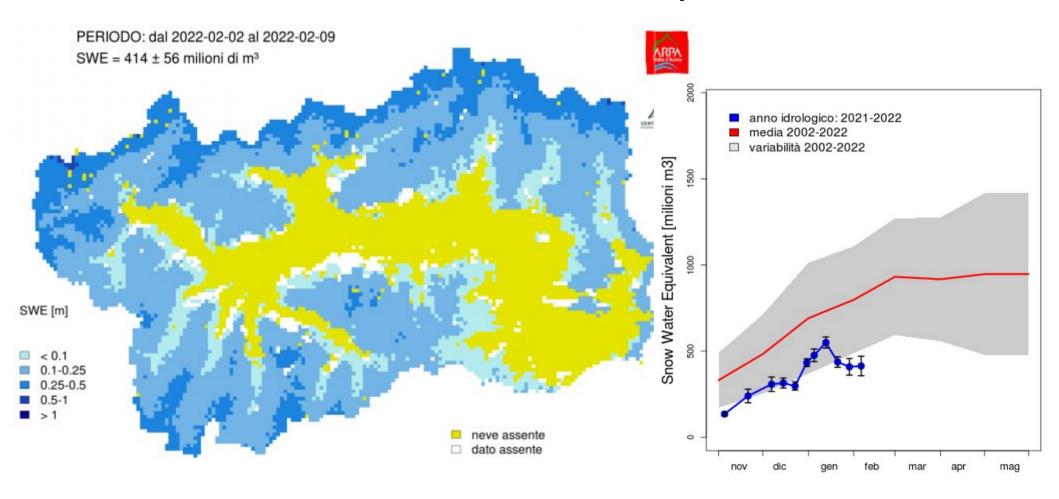
Alluvioni Germania e Belgio luglio 2021



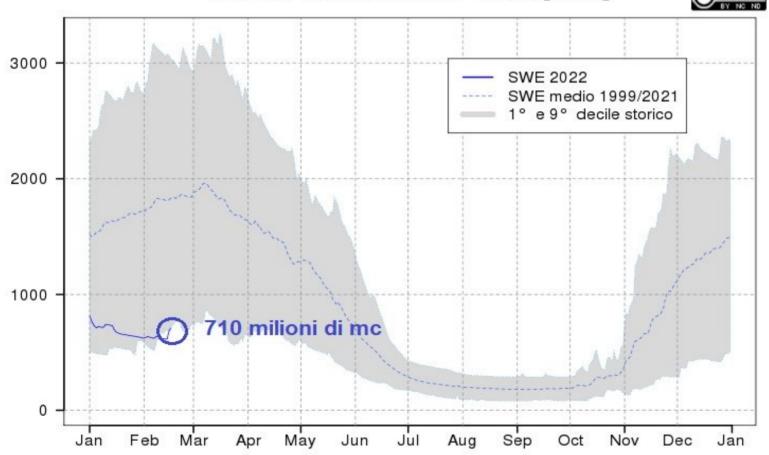
Alluvione Catania 26 ottobre 2021



Deficit accumulo nevoso sulle Alpi inverno 2021-22

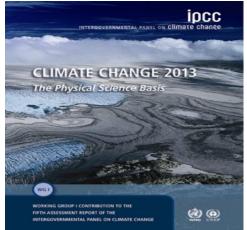


SWE Po chiuso a Ponte Becca [Mmc]



Riduzione portate Po e scarsa riserva idrica nivale sulle Alpi al febbraio 2022

Ampie possibilità di compensazione deficit con piogge primaverili, ma situazione di attenzione elevata

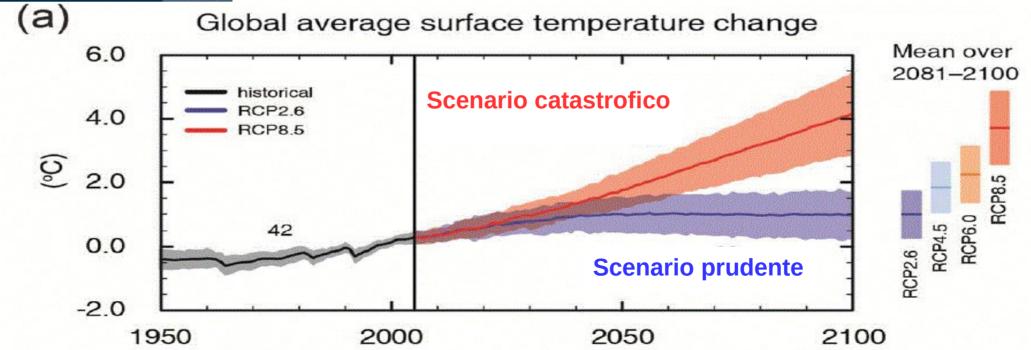






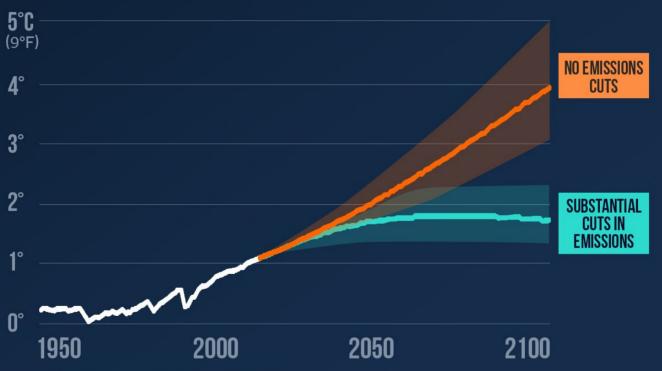
Scenari 5° rapporto IPCC (AR5 2013):

+2°C al 2100 se si applica **Accordo Parigi 2015** (linea azzurra), o fino a +5°C in più con business-as-usual (linea rossa)



FUTURE TEMPERATURES

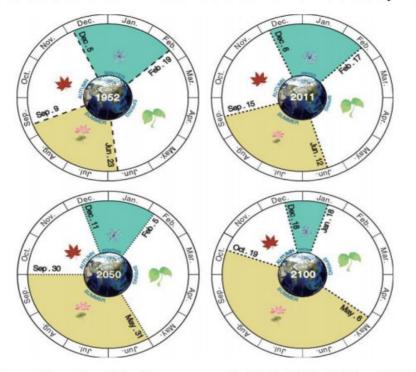
WARMING DEPENDS ON CHOICES TODAY



Global surface temperature (°C) anomaly relative to 1850-1900 High warming scenario: SSP3-7, Low warming scenario from SSP1-2.6. Source: IPCC AR6 WG1

CLIMATE (*) CENTRAL

4, Figures S7-8), indicating that even if seasons are to continue at the current rate observed, a longer summer and shorter winter will become the new normal in the twenty-first century.



Inverni sempre più brevi, estati sempre più lunghe (fino a 6 mesi nel 2100)

Figure 5. Onsets and lengths of the four seasons in 1952, 2011, 2050 and 2100. The top row is from HadGHCND, and the bottom row is from RCP8.5.

Changing Lengths of the Four Seasons by Global Warming

Jiamin Wang Yuping Guan Lixin Wu Xiaodan Guan Wenju Cai Jianping Huang Wenjie Dong Banglin Zhang First published: 19 February 2021 https://doi.org/10.1029/2020GL091753 Geophisical Research Letters

Over the period of 1952 2011, the length of summer increased from 78 to 95 days and that of spring, autumn and winter decreased from 124 to 115, 87 to 82 and 76 to 73 days, respectively. In addition, summer is projected to last nearly half a year, but winter less than two months by 2100.

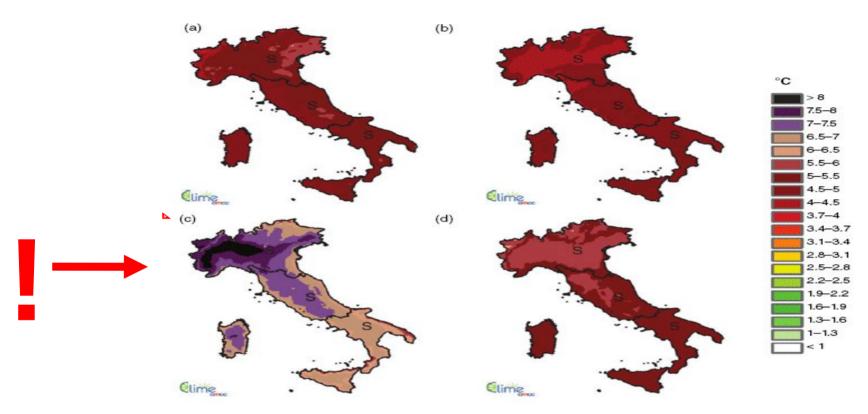


Figure 9. Temperature climate projections, RCP8.5: seasonal differences (°C), between the average value over 2071–2100 and 1971–2000 for (a) DJF, (b) MAM, (c) JJA and (d) SON (S, significant; NS, not significant).

E se non facessimo nulla? NW Italiano + 8 °C in estate nel 2100! Torino come Karachi...

Bucchignani et al. (2015) *High-resolution climate simulations with COSMO-CLM over Italy*, Int. J. Climatol.

11 agosto 2021

48,8 °C a Floridia, Siracusa

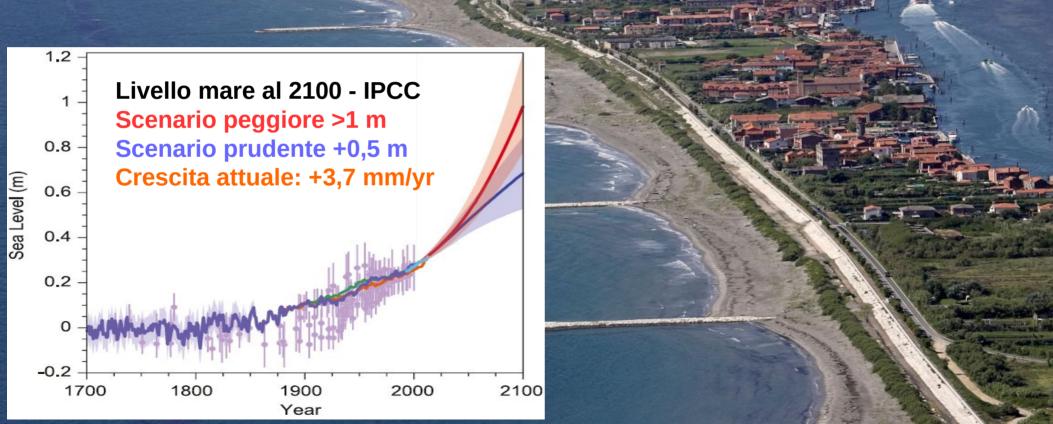
Temperatura massima record in Italia e in Europa in circa 200 anni di osservazioni





Stazione meteo rete SIAS





http://climate-adapt.eea.europa.eu/



Climate-ADAPT

European Climate Adaptation Platform

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About Climate Change Adaptation in Europe

The European Climate Adaptation Platform (Climate-ADAPT) aims to support Europe in adapting to climate change. It is an initiative of the European Commission and helps users to access and share information on:

- · Expected climate change in Europe
- Current and future vulnerability of regions and sectors
- National and transnational adaptation strategies
- Adaptation case studies and potential adaptation options
- Tools that support adaptation planning

→Read more

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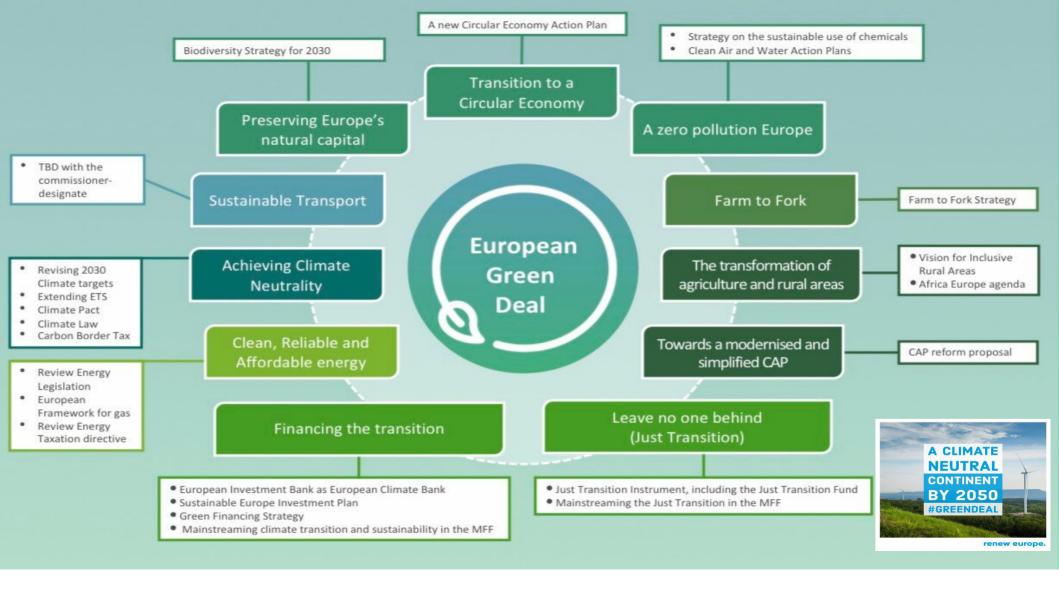
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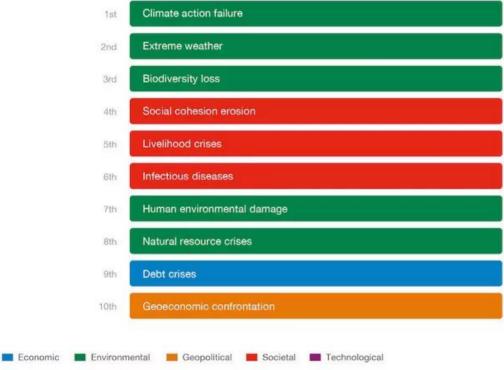






Top 10 Global Risks by Severity

Over the next 10 years







ECONOMIC I primi tre rischi globali più importanti secondo il **World Economic Forum** 2022 sono :

- cambiamenti climatici
- eventi meteorologici estremi
- -perdita di biodiversità.

Possiamo ancora agire per evitare di peggiorarli, ma dobbiamo farlo subito!