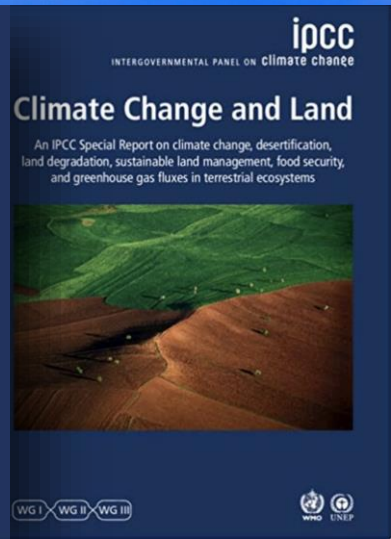


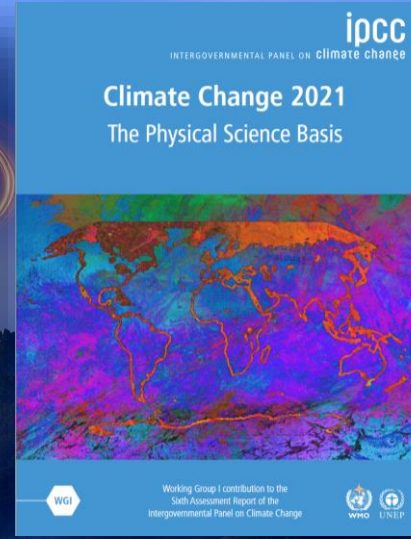
Ocean and Cryosphere in a Changing Climate



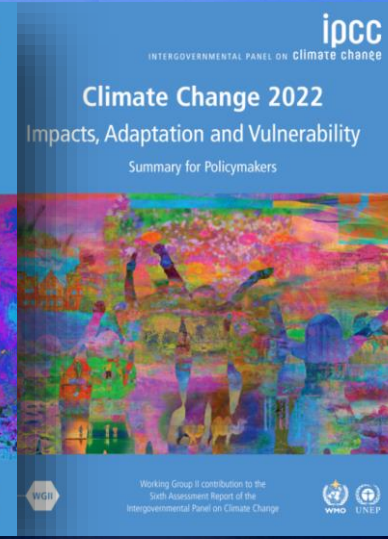
Climate Change and Land



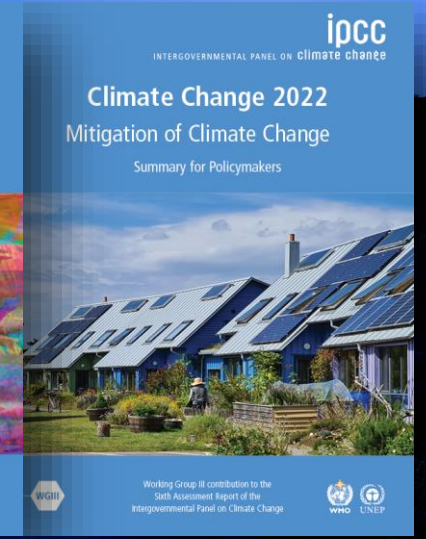
Global Warming of 1.5 °C



AR6 Climate Change 2021: The Physical Science Basis



Climate Change 2022: Impacts, Adaptation and Vulnerability



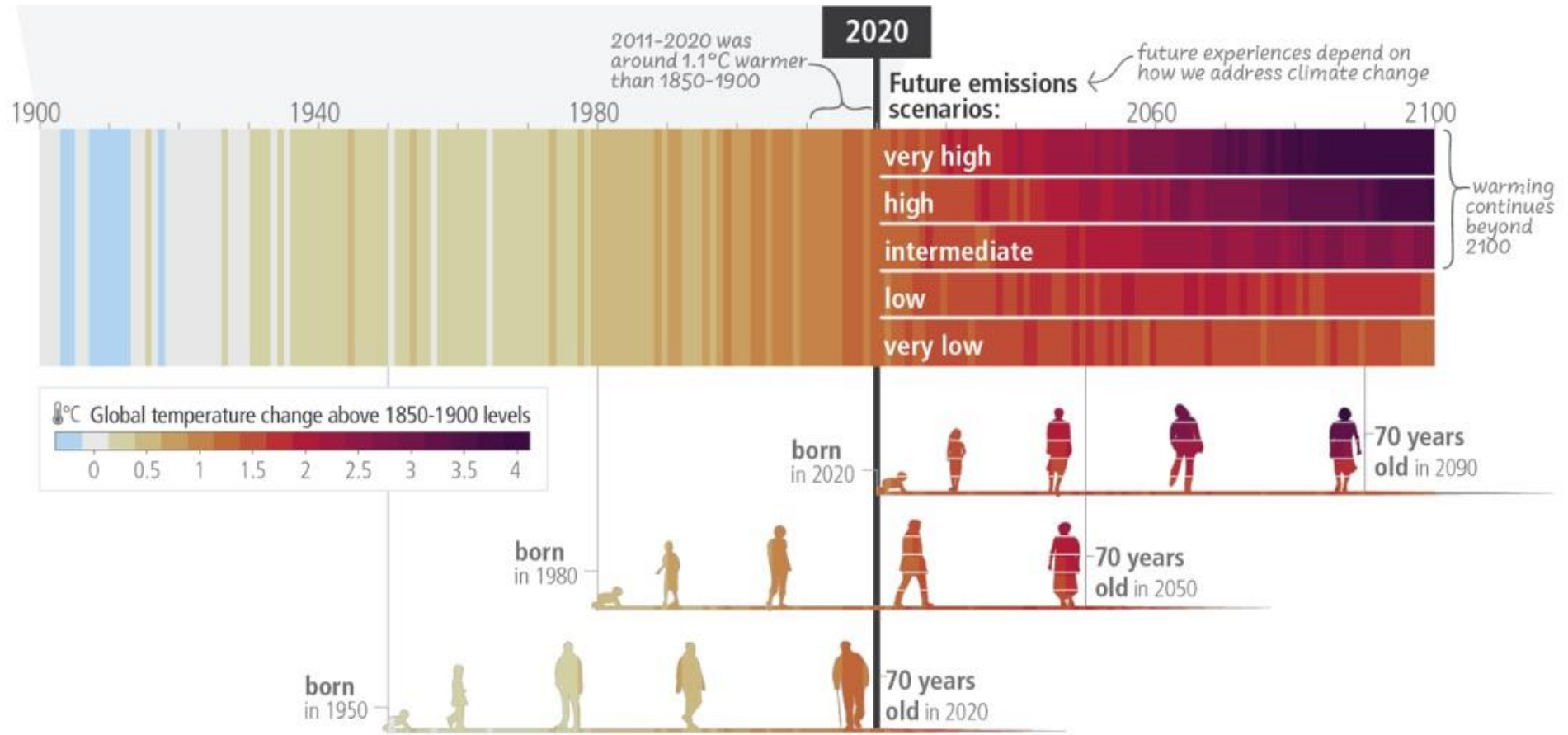
Climate Change 2022: Mitigation of Climate Change

# Lo stato delle conoscenze sui cambiamenti climatici

Elena Verdolini

# Stato del clima e impatti su economia e società

# Il clima è già cambiato; il clima di domani dipende dalle scelte di oggi

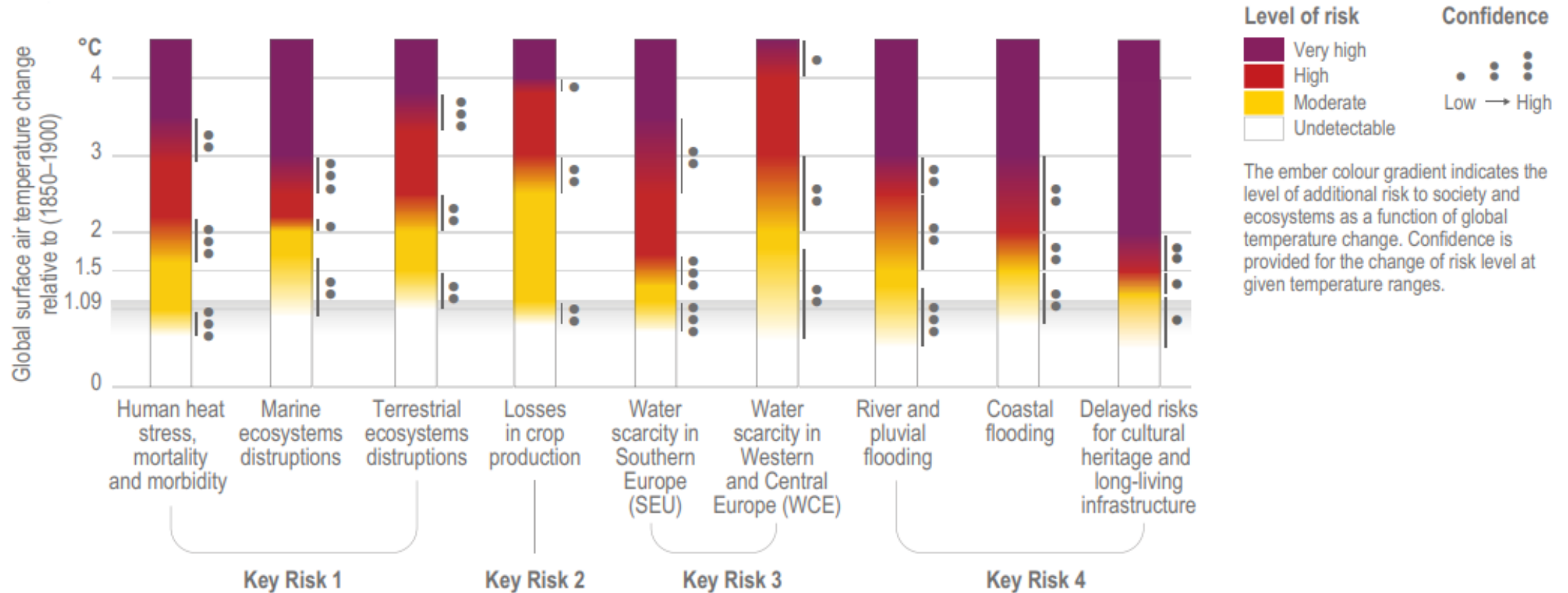


SYR Figure SPM.1c



# Più sale la temperatura, più si intensificano rischi e impatti

## Rischi chiave per l'Europa con un'adattamento basso-medio

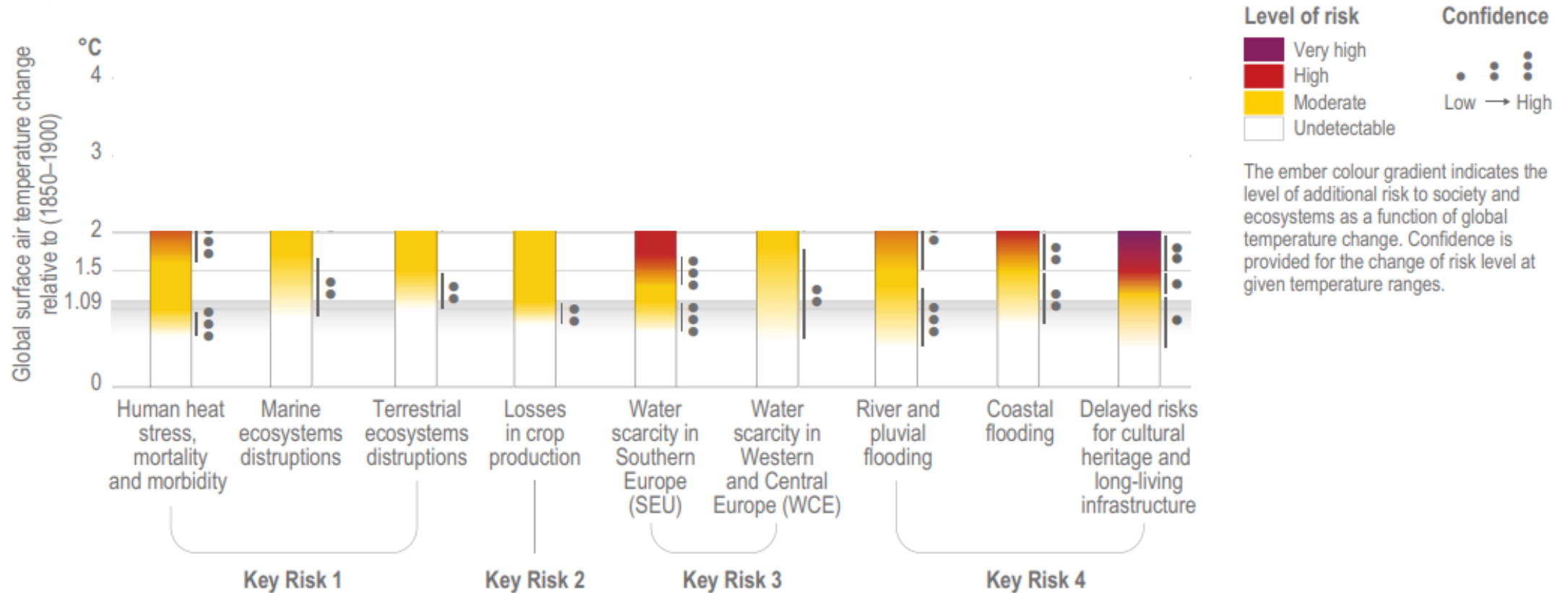


WGII Figure 13.28



# Più sale la temperatura, più si intensificano rischi e impatti

## Rischi chiave per l'Europa con un'adattamento basso-medio



WGII Figure 13.28



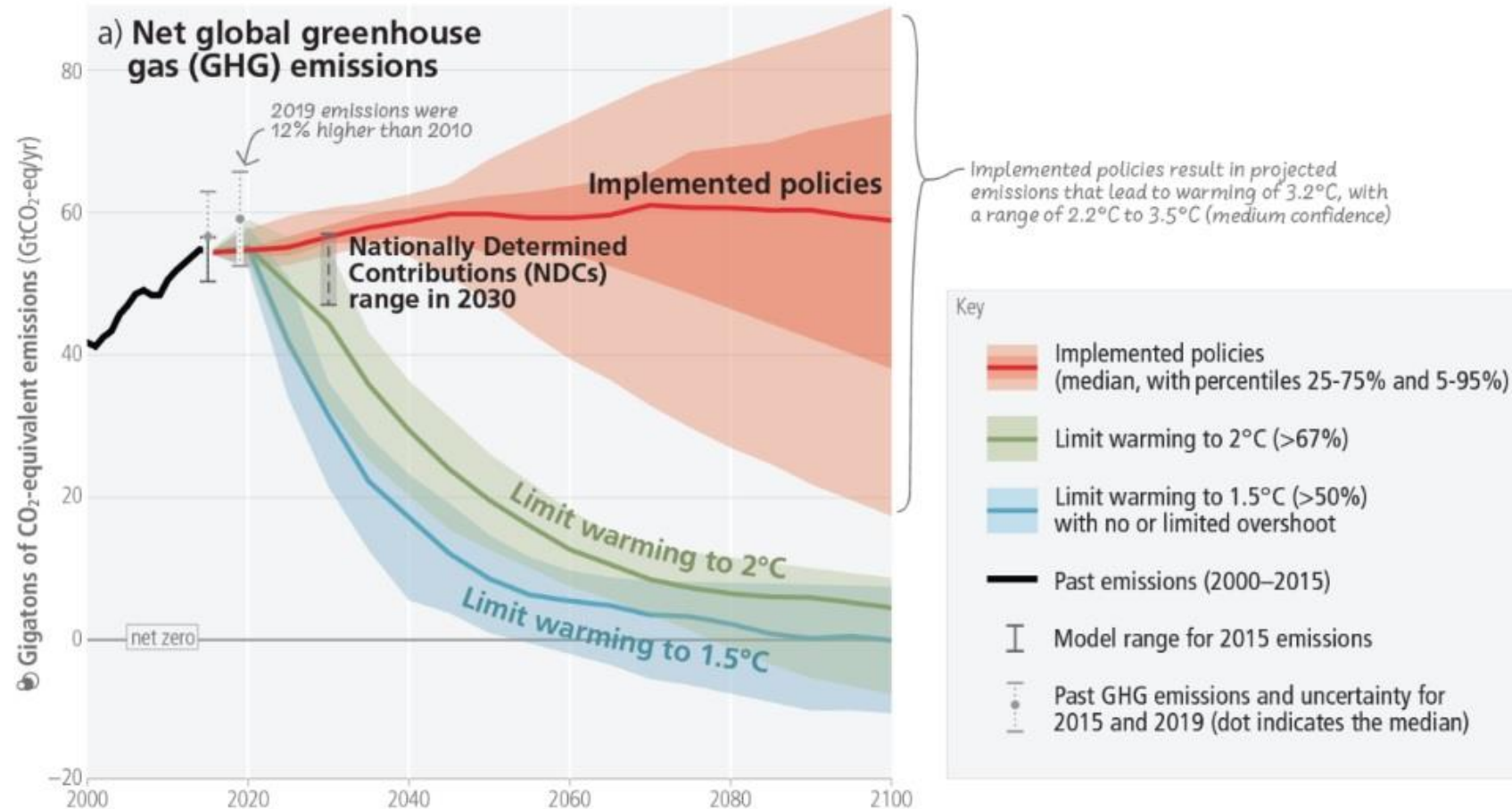
# Scenari di mitigazione



# Le emissioni aumentano, i contributi promessi non sono abbastanza

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

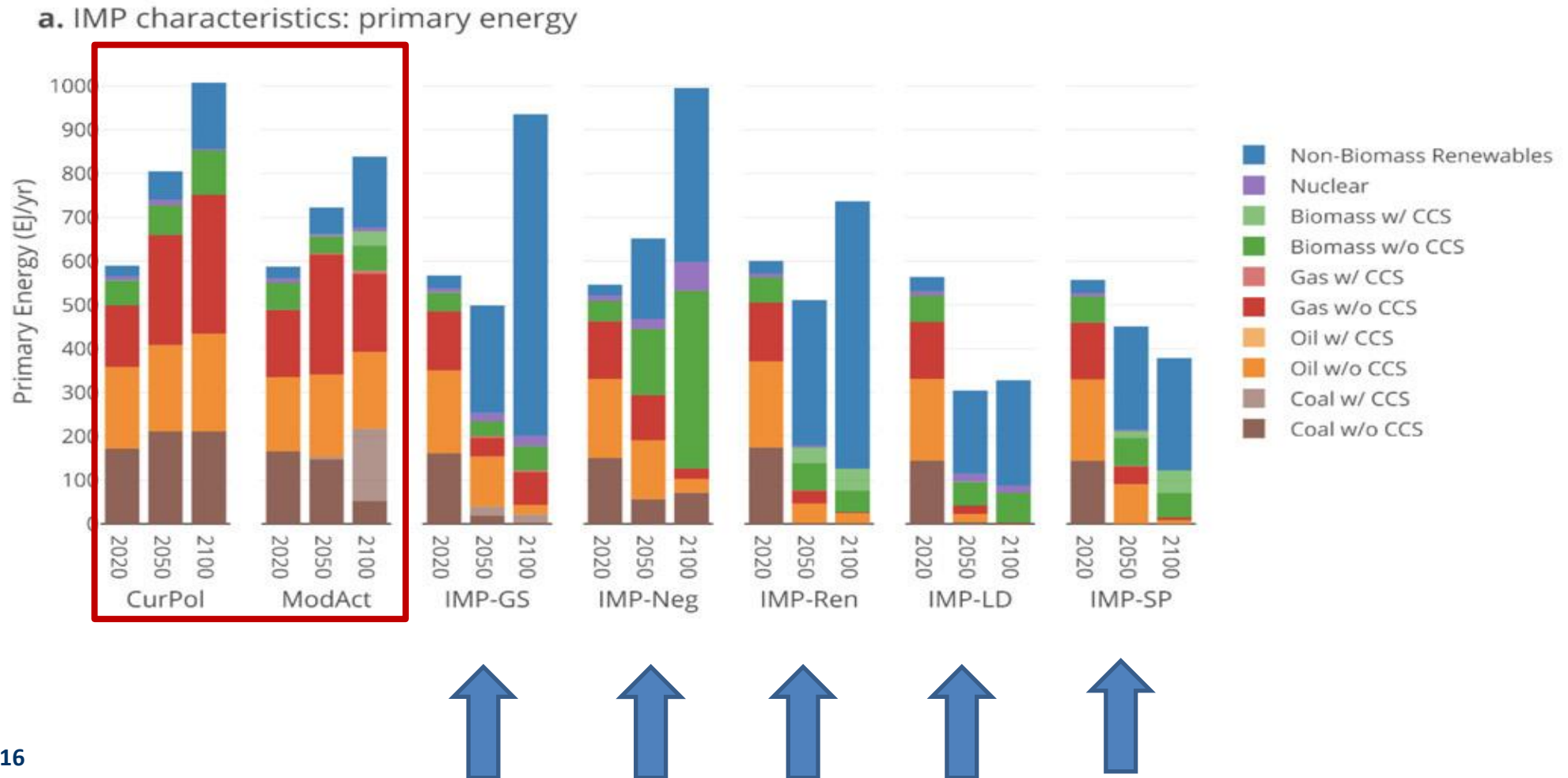
Net zero CO<sub>2</sub> and net zero GHG emissions can be achieved through strong reductions across all sectors



SYR Figure SPM5.a



# Multi scenari possibili: abbiamo le tecnologie, le politiche funzionano



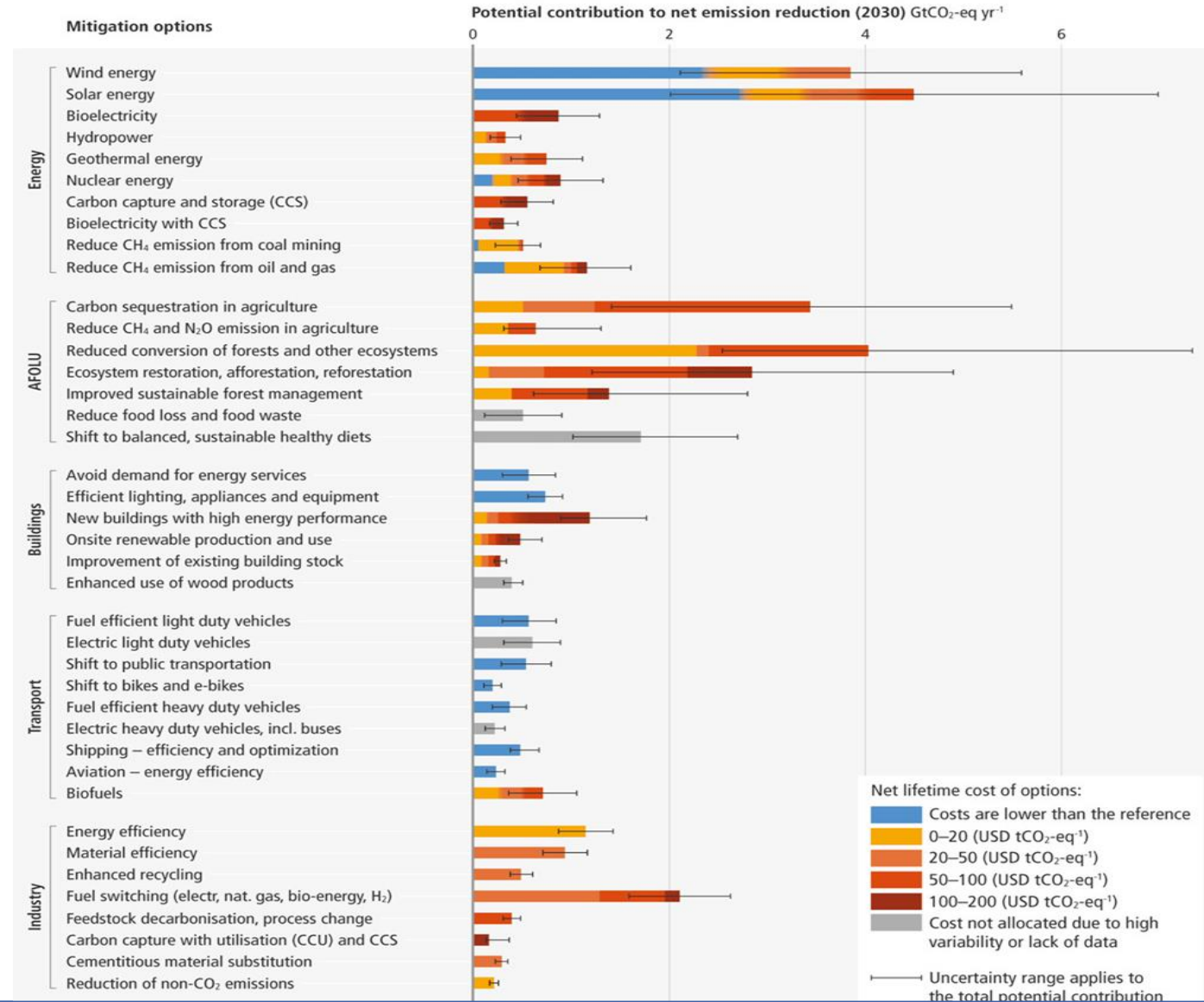
WGIII Figure 3.16





# Opzioni per le imprese

# Molto può essere fatto con costi <100\$/tCO<sub>2</sub>

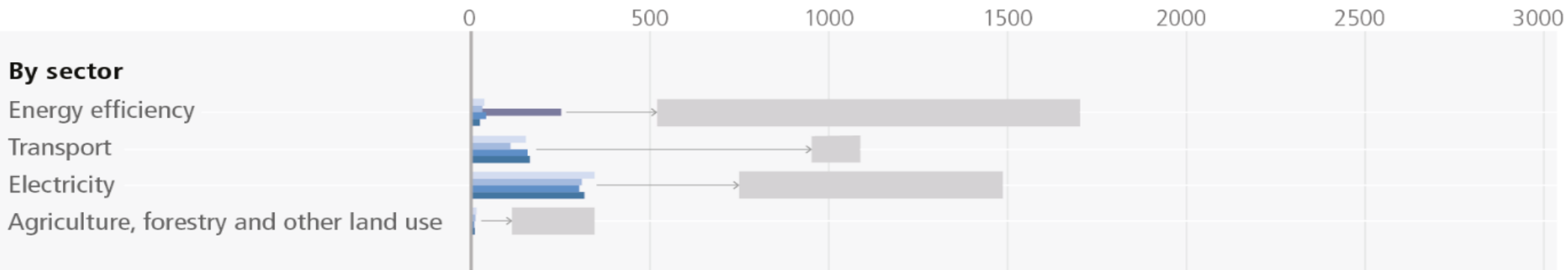


WGIII – SPM Figure 7



# Investimenti: a livello globale ci sono capitali disponibili

Actual yearly flows compared to average annual needs  
in billions USD (2015) per year



## Multiplication factors\*

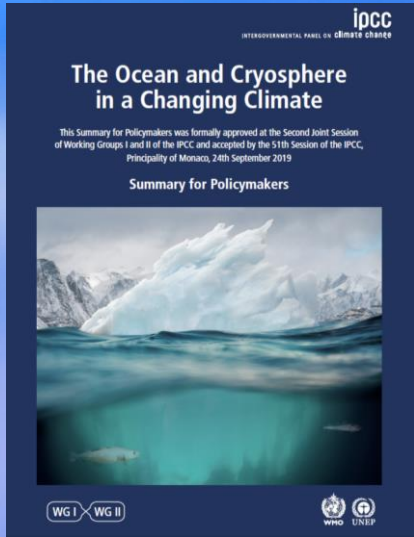
Lower range	Upper range
x2	x7
x7	x7
x2	x5
x10	x31

Yearly mitigation investment flows (USD 2015/yr) in:



\*Multiplication factors indicate the x-fold increase between yearly mitigation flows to average yearly mitigation investment needs. Globally, current mitigation financial flows are a factor of three to six below the average levels up to 2030.





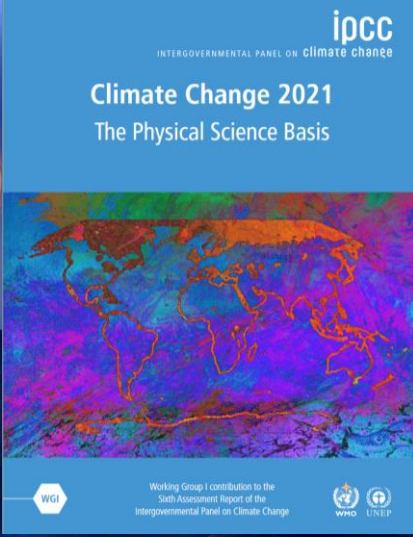
Ocean and Cryosphere in a Changing Climate



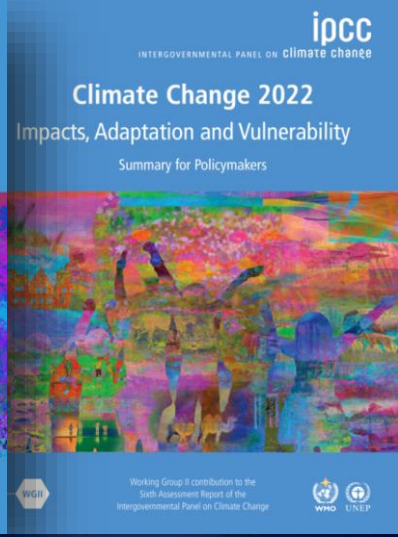
Climate Change and Land



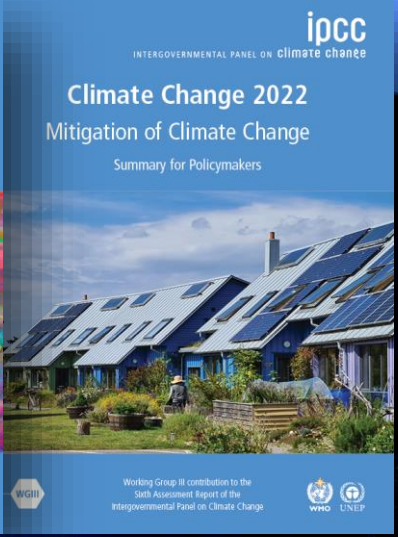
Global Warming of 1.5 °C



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Climate Change 2022: Mitigation of Climate Change

Grazie