

Mediterranean Health State

through 10 key indicators.











Regional Cooperation

Sharing of knowledge and strategic recommendations to support Mediterranean countries towards more sustainable and coherent public policies.



Mediterranean Strategy for Sustainable Development & Indicators

Monitoring and revision of the Mediterranean Strategy for Sustainable Development. Monitoring of indicators, evaluation of countries' progress, and aid in guiding public policies.



Plan Bleu and its Observatory

French Law 1901 Association and Regional Activity Centre of UNEP/MAP dedicated to environmental analysis and sustainable development in the Mediterranean, watchtower of the Mediterranean.

The 10 key indicators on the state of the Mediterranean

*Precautions and limits of analysis specific to each indicator appear at the end of the document

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Demography

Number of inhabitants in the Mediterranean (sum of annual populations of Mediterranean countries).





30% of the population lives in rural areas

70% of the population lives in cities

2023

Mediterranean - North



285 Millions of inhabitants



The northern shore has an ageing population

Mediterranean - South



252 Millions of inhabitants



The southern shore has a younger population



Life Expectancy at Birth

Average number of years an individual is expected to live at birth.



Mediterranean - North



79,7 years

In 2023





84 years 79 years For women For men

72 years
74 years
75 years
79 years

Mediterranean - South



75 years

Average life expectancy

In 2023





77 years 72 years For women For men

69 years
70 years
72 years

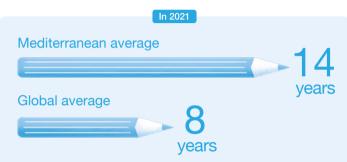
Average Years of Schooling

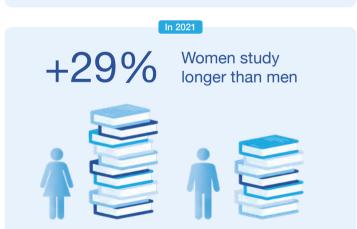
Average number of years of study received by people aged 25 and over.



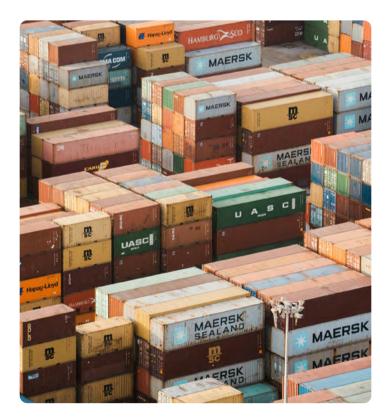
+4 years

of additional schooling





Gross Domestic Product per Capita







+73%

Increase in Mediterranean GDP

+43%

Increase in global GDP

In 2024



\$37,871

GDP per capita in the North

\$

-\$ 11,552

per capita in the South

Mediterranean - North

+42%

GDP per capita in the North

Mediterranean - South

+193%

GDP per capita in the South

Territorial Carbon Dioxide Emission per Capita

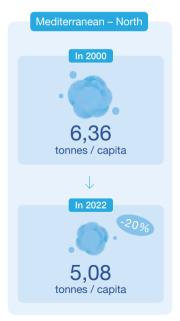
Resident CO2 emissions in the country, divided by the total population.





5,5%

In 2022, the Mediterranean basin represents only 5.5 % of global CO₂ emissions, but it's experiencing particularly marked warming there.





Surface Atmospheric Temperature (SAT)

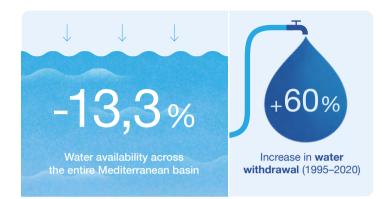
AT is defined as the Atmospheric temperature (in °C) 2 m above the ground surface.



Water Availability per Capita

Average annual water availability per capita (m³/capita/year) at the national level





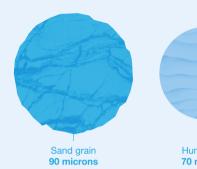




Air Quality

Annual average of atmospheric concentrations of PM2.5 particles (diameter < 2.5 micrometers).









2020

400 000

premature deaths per year on average in Europe due to PM2.5

In 2022



Urban stations

60,75%

of urban stations recorded an average of 13.50 µg/m³



Peri-urban stations

55,91%

of peri-urban stations recorded 13.19 µg/m³



Rural stations

59,12%

of rural stations recorded 7.56 µg/m³

Plastic Stock in Aquatic Environments

Stocks (integrating various aquatic stocks) of plastic in millions of tons.



In 2019





In 2019, the equivalent weight of about 90 Colosseums was released into aquatic environments and ended up in the sea.



Forecasts				
	In 2020	In 2040		
Plastic production	475 _{Mt}	736 _{Mt}		
Mismanaged waste	81 _{Mt}	119 Mt		
Leaks into nature	20 Mt	30 Mt		



Marine **Protected Areas**

Percentage (% of the total area of Mediterranean waters) of coverage of Marine Protected Areas from 1990 to 2020



1278 MPAs in 2020



11%

of the marine area of the region is an MPA

△ Less than 0,1%

MPAs enjoy strong protection equivalent to that of a marine reserve.

30%

target objective Aichi
11 of the Convention on
Biological Diversity (CBD),
which was reaffirmed in
2022 at COP15 of the CBD.



Mediterranean – North

1200 MPAs

179 798 km²

Mediterranean - South

78 MPAs

11 602 km²

Precautions and limits of analysis:

Demography

Migrations (emigration and immigration) as well as 'sending' and 'receiving' countries are not taken into account. The coastal population is not differentiated here. Other variables should be included in the analysis, such as national birth and death rates.

Life Expectancy at Birth

Factors such as income and gender inequalities, as well as lifestyle choices influencing life expectancy are not reflected here due to the HDI methodology (itself).

Average Years of Schooling

The quality of education and disparities within countries are not reflected due to a specific methodological flaw of the HDI: factors such as income inequality, gender inequality, and lifestyle choices that influence years of schooling are not taken into account.

Gross Domestic Product per Capita

GDP does not reflect the distribution of wealth or standards of living per capita.

5 Carbon Dioxide Emission per Capita

Does not take into account consumption-related emissions or total global impact. Only national territorial emissions are considered

61 Surface Atmospheric Temperature (SAT)

All analyses presented come from extracted data which show average annual values without taking into account seasonal and infra-seasonal variabilities.

62 Sea Surface Temperature (SST)

The data represents values at the national level, whereas greater variability constantly occurs at smaller spatial scales (regional climates, microclimates, etc.), particularly for SST, which is associated with a very dense physical domain with varied surface current movements and

energy transfers. There is no integration of drastic and isolated climatic events: downwelling and upwelling currents (cold water masses) can cool marine water surfaces. Extreme events (marine storms, oceanic eddies) can also directly affect local SST.

Water Availability per Capita

Economic and social factors are not taken into account in the water withdrawal indicator Seasonal water demand (generally more intense in summer) is not considered. A holistic and intersectoral analysis (NCWR) and in-depth analysis (national studies) could be implemented to better understand the variations. The indicator assumes that water is equally available to all, whereas significant geographic and temporal disparities may appear: the qualitative dimension of renewable freshwater resources is not taken into consideration: demographic dynamics can significantly affect estimates of renewable freshwater resources per capita: the indicator assumes that resources remain constant, potentially underestimating the impact of climate change on the major water cycle and associated hydrological processes.

8 Air Quality

A finer geographical analysis could be provided (at urban, suburban, and rural scales). Average annual values exclude extreme daily peaks, particularly those induced by daily traffic rush hours. No information on the chemical composition of PM2.5 particles is provided, even though they are very dangerous for human health.

9 Plastic Stock in Aquatic Environments

The data was analyzed at the interregional level (not refined for other scales). The notion of stock has been simplified (no reference to «fluxes» and «living stocks»). Significant data gaps, particularly regarding emissions at the source. There is no centralized (qualitative and quantitative) database for the Mediterranean.

MarineProtected Areas

Data accuracy, overlap of designations, and effectiveness of conservation efforts.

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