





# UNITED NATIONS ENVIRONMENT PROGRAMME MEDITERRANEAN ACTION PLAN

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Mediterranean Sustainability Dashboard: Analytical Factsheets

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UNEP/MAP Athens, 2019

# MONITORING THE IMPLEMENTATION OF THE MEDITERRANEAN STRATEGY FOR SUSTAINABLE DEVELOPMENT 2016-2025





United Nations Environment Programme



Mediterranean Action Plan Barcelona Convention



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ISO2 Code	Country or entity	Regions
AL	Albania	NMC
BA	Bosnia-Herzegovina	NMC
СҮ	Cyprus	NMC
DZ	Algeria	SEMC
EG	Egypt	SEMC
ES	Spain	NMC
FR	France	NMC
GR	Greece	NMC
HR	Croatia	NMC
IL	Israel	SEMC
IT	Italy	NMC
LB	Lebanon	SEMC
LY	Libya	SEMC
MA	Morocco	SEMC
MC	Monaco	NMC
ME	Montenegro	NMC
MT	Malta	NMC
PS	Palestine	SEMC
SI	Slovenia	NMC
SY	Syria	SEMC
TN	Tunisia	SEMC
TR	Turkey	SEMC

These factsheets concern 22 countries or entities bordering the Mediterranean Sea:

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**.** . ...

The analysis can consider the groups of countries usually utilized by Plan Bleu:

- The Northern Mediterranean Countries (NMC) gather twelve countries or entities: AL, BA, CY, ES, FR, GR, HR, IT, MC, ME, MT and SI
- The Southern and Eastern Mediterranean Countries (SEMC) gather ten countries or entities: DZ, EG, IL, LB, LY, MA, PS, SY, TN and TR.

The "indicator" factsheets, developed in the framework of the monitoring of the implantation of the Mediterranean Strategy for Sustainable Development (MSSD), are intended to provide a first answer to the question:

# ARE THE MEDITERRANEAN COUNTRIES PROGRESSING TOWARDS SUSTAINABLE DEVELOPMENT?

The objectives of these factsheets are to have the MSSD 2016-2025 implementation monitored and evaluated on periodic basis through this agreed set of indicators in line with SDG and to be presented as a Mediterranean Sustainability dashboard to be adopted by the Barcelona convention COP 21 by the end of 2019.

The factsheets document the 28 priority indicators selected to monitor the progress made by the Mediterranean countries regarding the 6 objectives of the MSSD 2016-2025:

- 1. Ensuring sustainable development in marine and coastal areas
- 2. Promoting resource management, food production and food security through sustainable forms of rural development
- 3. Planning and managing sustainable Mediterranean cities
- 4. Addressing climate change as a priority issue for the Mediterranean
- 5. Transition towards a green and blue economy
- 6. Improving governance in support of sustainable Development

They also document composite indicators such as Human Development Index (HDI) and Ecological Footprint to show the overall progress observed in terms of sustainable development.

The indicators shown in these factsheets are those with sufficient amount of data available mainly from international sources. The Indicator 8 and 28 are pending.

The indicators for the follow-up of the MSSD 2005-2015 were presented in similar factsheets updated and published every 2 years from 2005 to 2013. Some of them were also selected for the MSSD 2016-2025.

Note: The boundaries, colors, denominations, and other information shown on any map in this work do not imply any judgment on the part of Plan Bleu concerning the legal status of any territory or the endorsement or acceptance of such boundaries.

MEDITERRANEAN STRATEGY FOR SUSTAINABLE DEVELOPMENT FOLLOW-UP





N°	GOAL	INDICATOR
1	General indicators	Ecological footprint *
2	General indicators	Human Development Index
3	General indicators	Annual growth rate of real GDP per capita (SDG Indicator 8.1.1) *
4	General indicators	Youth literacy rate *
5	General indicators	Girl/Boy primary, secondary and tertiary school registration ratio *
6	1 - Sea and coast	Number of ratifications and level of compliance as reported by Barcelona Convention Contracting Parties
7	1 - Sea and coast	Coverage of protected areas in relation to marine territorial waters (SDG Indicator 14.5.1) *
8	1 - Sea and coast	Proportion of fish stocks within biologically sustainable levels (SDG Indicator 14.4.1) *
9	2 - Rural & Resources	Number of protected areas participating in the Green List initiative *
10	2 - Rural & Resources	Official development assistance and public expenditure on conservation and sustainable use of biodiversity and ecosystems (SDG Indicator 15.a.1) *
11	2 - Rural & Resources	Global Food Security Index
12	2 - Rural & Resources	Level of water stress: freshwater withdrawal as a proportion of available freshwater resources (SDG Indicator 6.4.2) *
13	2 - Rural & Resources	Water demand, total and by sector, compared to GDP *
14	2 - Rural & Resources	Proportion of population using safely managed drinking water service (SDG Indicator 6.1.1) *
15	2 - Rural & Resources	Proportion of population using (a) safely managed sanitation services (SDG Indicator 6.2.1) *, **
16	2 - Rural & Resources	Proportion of agriculture quality products and Share of the agricultural land area used by organic farming *
17	2 - Rural & Resources	Red List Index. (SDG Indicator 15.5.1) *

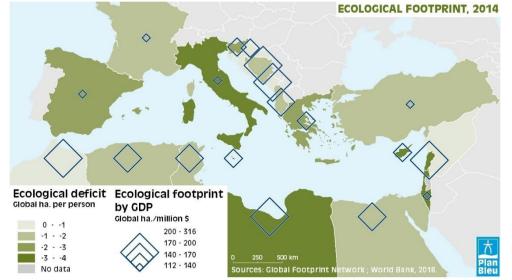
# LIST OF INDICATORS



N°	GOAL	INDICATOR
18	3 - Cities	Proportion of urban population living in slums, informal settlements, or inadequate housing (SDG Indicator 11.1.1) *
19	3 - Cities	Status of UNESCO world heritage sites*
20	3 - Cities	Waste generated and treated by type of waste and treatment type *, **
21	4 - Climate change	Green House Gas emissions (related to GDP)*
22	2 4 - Climate change	Energy intensity measured in terms of primary energy and GDP (SDG Indicator 7.3.1)*, Renewable energy share in the total final energy consumption (SDG Indicator 7.2.1) *
23	5 – Green/blue economy	Domestic material consumption, domestic material consumption per capita, and domestic material consumption per GDP (SDG Indicator 12.2.2) *
24	6 - Governance	Number of National Strategies for Sustainable Development adopted or updated [and number of updates since first edition] *
25	6 - Governance	Proportion of bank credit allocated to the private sector – Existence of alternative financing systems using bank credit
26	6 - Governance	Research and development expenditure as a proportion of GDP (*) (SDG Indicator 9.5.1)
27	6 - Governance	Number of countries that have clear mechanisms in place for ensuring public participation and guarantying public access to environmental information*
28	6 - Governance	Number of countries that have National Strategies/Action Plans on Education for Sustainable Development in place*

\* Similar or linked to SDG indicators, \*\* Similar or linked to SEIS / Horizon 2020 indicators





"All the Mediterranean countries had an Ecological Deficit in 2014. This means that the environmental capacity of the region is used up faster than it is renewed."

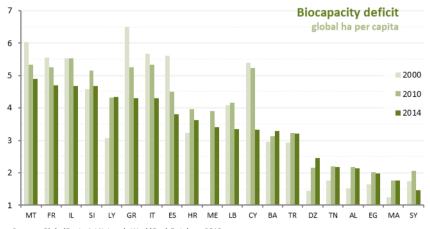
## Definition:

- Ecological Footprint: Amount of biologically productive land and water a country requires to produce all the resources it consumes and to absorb the carbon dioxide emissions it generates.
- **Biocapacity:** Capacity of ecosystems to produce useful biological materials used by the economy and to absorb carbon dioxide generated by human.
- **Ecological deficit / reserve:** The difference between the Biocapacity and Ecological Footprint of a region or country.

# *Ecological Footprint and Biocapacity are expressed in units of global hectares.* **Precautions / Notes:**

• Ecological Footprint: It only measures one aspect of sustainability, that is whether human societies are able to live within their annual biocapacity budget. It therefore deals with only the environmental pillar of sustainability and, even for this pillar, important environmental parameters are not considered (pollution due to GHGs other than CO<sub>2</sub>, impact of nuclear energy, etc.).

Sources / References: Global Footprint Network 2018. National Footprint Accounts, 2018 Edition.



WHAT IS THE IMPACT OF HUMAN ACTIVITIES ON THE ENVIRONMENT?

Sources: Global Footprint Network, World Bank Database, 2018.

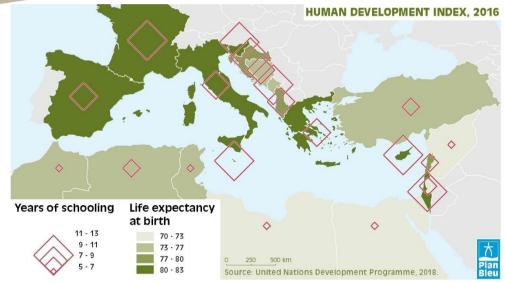
The Ecological Footprint is used to assess the level of the consumption of available resources connected to the human activities. Compared to the Biocapacity, this indicator offers the possibility to calculate the Ecological Deficit or Reserve in a region or country.

From 2010 to 2014, the Ecological Footprint per capita decreased in most of Mediterranean country.

- Thus, the Mediterranean Ecological Footprint (3.2 gha/cap) is higher than the planet's Ecological Footprint (2.8 gha/cap).
- The Mediterranean's Ecological Deficit (2.02 gha/cap) is two times greater than the world's Ecological Deficit (1.1 gha/cap).
- The Ecological Footprint of the northern Mediterranean countries decrease since few years (from 5 gha/cap in 2010 to 4.2 gha/cap in 2014). This is mostly due to the effects of the economic crisis, which slowed down resource consumption and, primarily, CO, emissions
- The Ecological Footprint per unit of GDP is less than 160 ghaper million dollars in most of northern countries except in the Balkan countries (316 in Bosnia-Herzegovina). In the southern countries the maximum values are for Libya (254 ghaper million of dollars) and Lebanon (231).

# ECOLOGICAL FOOTPRINT





The index of human development constantly progressed in most of Mediterranean countries since 1990\*.

# Definition:

The Human Development Index (HDI) is a composite index, developed by the UNDP, that measures the evolution of a country according to three basic criteria:

- Health and longevity, measured by life expectancy at birth.
- Knowledge and education, measured by the mean years of schooling and the expected years of schooling.
- Standard of living, indicated by GNI per Capita (PPP US dollars).

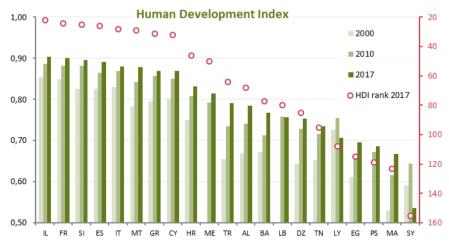
The HDI is standardized and used to classify countries by values between 0 and 1.

# Precautions / Notes:

An HDI value greater than 0.8 is generally considered high. A value below 0.55 is considered low. The new methodology used in 2013 need to recalculate the time series and had the effect of decreasing the values of HDI (with a small impact on country rankings).

Sources / References: UNDP Human Development Report 2018

# IS SOCIAL WELFARE PROGRESSING IN THE MEDITERRANEAN COUNTRIES?



Source: United Nations Development Programme Database, 2018.

The human development index (HDI) with its three components (health, education and income) enables us to identify and understand the social component of sustainable development.

With an average HDI of 0.786 in 2017, the Mediterranean region was above the world value of 0.728.

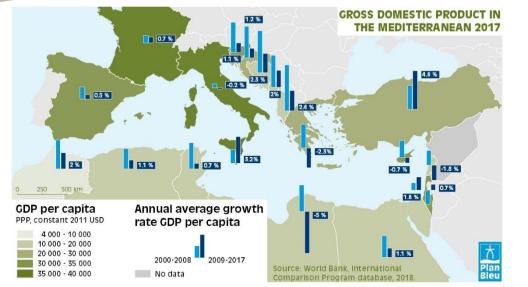
However, there are great differences between countries:

- 10 countries have high HDI, greater than 0.8: Israel (ranked 22<sup>nd</sup> out of 189 worldwide), France, Slovenia, Spain, Italy, Malta, Greece, Cyprus, Croatia and Montenegro (50<sup>th</sup> worldwide).
- 7 countries have HDI between 0.7 and 0.8: Turkey, Albania, Bosnia-Herzegovina, Lebanon, Algeria, Tunisia and Libya (108<sup>th</sup> worldwide).
- 4 countries have HDI lower than 0.7: Egypt, Palestine, Morocco and Syria with 0.536 (155<sup>th</sup> worldwide).

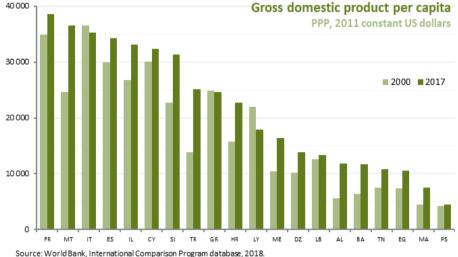
The life expectancy at birth, which accounts for one third of the HDI, shows a gap of 12 years between Israel (83) and Syria (71).

\* Except in Libya and Syria





# ARE THE INCOME GAPS BETWEEN THE SOUTH AND NORTH COUNTRIES GETTING SMALLER?



"The EU Mediterranean countries count for 60% of the Mediterranean GDP."

# Definition:

SDG Indicator 8.1.1: Annual growth rate of real GDP per capita

- Annual growth rate of real Gross Domestic Product (GDP) per capita is calculated as the percentage change in the real GDP per capita between two consecutive years. Real GDP per capita is calculated by dividing GDP at constant prices by the population of a country or area. The data for real GDP is measured in constant US dollars to facilitate the calculation of regional and global aggregates.
- The Gross Domestic Product (GDP) is the value of all the goods and services produced in a country in a year. The GDP can be calculated by adding up all the items of income – salaries, interests, profits and rents – or by calculating the expenditure – consumption, investment, public purchases, net exports, (exports less imports) – of an economy.
- Purchasing power parity (PPP): A conversion factor that indicates the number of units of a country's currency required to buy in the local market what one dollar could buy in the USA.

# Precautions / Notes:

By using PPP rather than the exchange rate, the GDP per capita of a country, calculated in units of national currency, can be converted into GDP per capita in dollars, while taking into account the differences in domestic prices for the items being considered (PPP gives the value of a typical basket of goods in different countries).

Sources / References: World Bank, World Development Indicators (WDI).

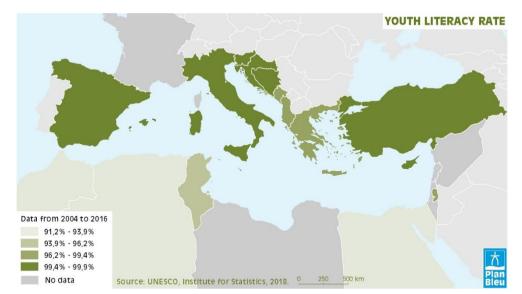
Although insufficient to measure the development level of the countries, the GDP per capita remains an unavoidable indicator for comparing economic situations in terms of income.

The GDP growth rate in the south and east Mediterranean countries are higher than those of the EU Mediterranean countries. However, they are considered low when compared to the population growth rates, as the demographic growth is still high in the southern Mediterranean countries.

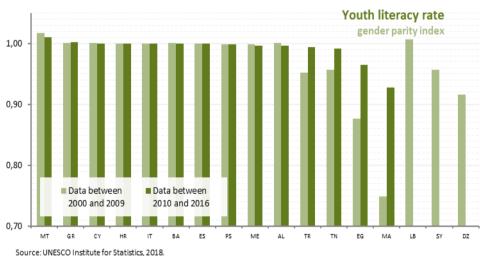
In 2017, the average income per capita in the South and East Mediterranean countries is 3 times lower than the average income in the EU Mediterranean countries.

The share of the Mediterranean GDP in the world GDP is decreasing: from 12.9% in 2000 to 11% in 2010 and 9.8% in 2017. Meanwhile, the share of the Mediterranean population remains constant in the world population (about 7%).





# IS THE LITERACY RATE OF YOUNG ADULTS IMPROVING?



"literacy rate of young adults: The Mediterranean average (98%) falls above the world average (91%)."

### Definition:

Literacy rate between ages 15 to 24 is presented as a percentage of the total population of this age group. People are considered as literate when they can read, write, and understand a short simple article concerning their daily life (Millennium Indicator n°8). This indicator is linked to the SDG Indicator 4.6.1: Proportion of population in a given age group achieving at least a fixed level of proficiency in functional (a) literacy and (b) numeracy skills, by sex

# Precautions / Notes:

Across Measurement of literacy can vary from a simple question "Can you read and write?" to various evaluation tests to assess the levels of literacy. In some cases, literacy is roughly measured in censuses with self-report or by estimating the population not attending school or uneducated.

The definitions of literacy used in the national surveys often differ from that of UNESCO. The types of survey carried out in different countries to estimate the literacy rate are also different from one another and from year to year.

The data resulting from these surveys should, therefore, be considered with caution.

Sources / References: UNESCO, Institute for Statistics.

The literacy rate of young adults reflects the primary education received in the previous decade.

Access to primary education is a key issue for the UNESCO « Education for All » programme as well for the Sustainable Development Goals 6.

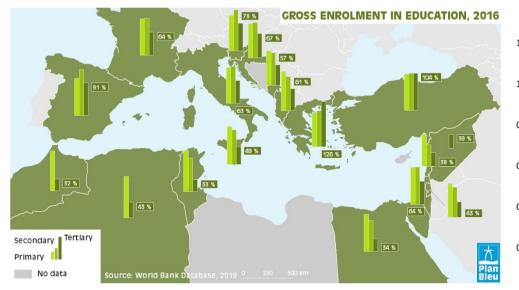
This objective has been has taken up in the MSSD for all the young adults, by stressing its importance in rural areas and for girls in order to reduce the disparities yet significant in the Mediterranean.

Since 1990, the literacy rate of young adults has increased significantly in all of the southern and eastern Mediterranean countries and is satisfactory in most of the northern Mediterranean countries.

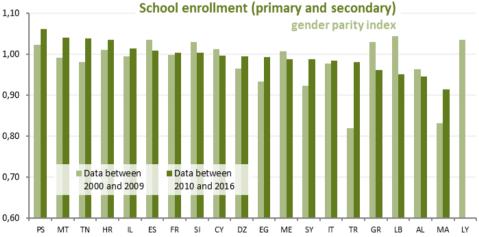
The ratio of the literacy rate of girls compared to boys less than 1 indicates a lack of education for girls. The rate is less than 0.97 in Algeria, Egypt, Morocco and Syria

MEDITERRANEAN STRATEGY FOR SUSTAINABLE DEVELOPMENT FOLLOW-UP





# ARE WE GOING IN THE DIRECTION OF ACHIEVING GENDER PARITY AT ALL LEVELS OF EDUCATION?



# Girls' education has improved: the parity index for the gross combined enrolment rate is over 0.98 in 15 Mediterranean countries.

Т

# Definition:

This indicator is the parity index between girls and boys for the gross enrolment rate (primary, secondary and combined) defined by UNESCO. It refers to the number of girls enrolled in primary and secondary schools, in public and private schools compared to the number of boys.

The gross enrolment rate is the ratio of the number of students enrolled in schools at different grade levels (such as elementary, middle school and high school), regardless their age, and is expressed as a percentage of the population in the official age group corresponding to this level of education.

# Precautions / Notes:

This indicator is not an accurate measurement of school access for girls because the improvements of the report may reflect an increase enrolment of girls receiving education or a decrease in the case of boys. The gross enrolment rate could be over 100% because of late admission and/or because of repletions.

Sources / References: UNESCO https://en.unesco.org/gem-report/allrepo

# Education and gender equality are central concerns in the new sustainable development agenda.

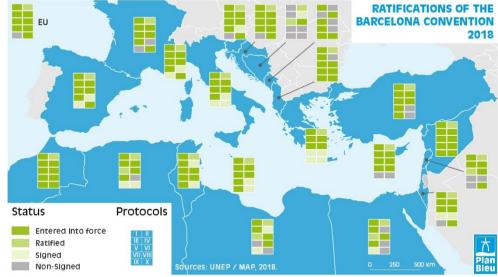
The Education 2030 Framework for Action, agreed by the global education community in November 2015 to accompany the SDG agenda, recognizes that gender equality is inextricably linked to the right to education for all, and that achieving gender equality requires an approach that « ensures that girls and boys, women and men not only gain access to and complete education cycles, but are empowered equally in and though education ».

"Worldwide some 64 million children of primary school age, or 9%, were out of school in 2017, as were 61 million adolescents of lower secondary school age (16%) and 138 million youth of upper secondary school age (36%)" (UNESCO. 2018. Global Education Monitoring Report Summary 2019)

The enrolment rate in primary education is over 95% in most of Mediterranean countries except in Lebanon, Montenegro, Palestine and Syria.

For the secondary education the gross enrolment rate is over 95% in 11 countries.





In the Contacting Parties, 7 to 21 Barcelona Convention protocols are entered into force.

# Definition:

The signature qualifies the signatory state to proceed to ratification, acceptance or approval. It also creates an obligation to refrain, in good faith, from acts that would defeat the object and the purpose of the convention.

Ratification defines the international act whereby a state indicates its consent to be bound to a convention if the parties intended to show their consent by such an act.

Entered into force: An international convention enters into force at a time when it becomes legally binding on the parties. The parties have to decide to apply the convention.

# Precautions / Notes:

This indicator is very complex and this factsheet provide only an overview of the status. All the details can be found in the official documents of the Convention.

A country can implement a protocol without signature and it can take more protective measures.

Sources / References: UNEP/MAP http://www.unepmap.org/

# WHAT IS THE LEVEL OF IMPLEMENTATION OF THE BARCELONA CONVENTION? (To be updated with the status in September 2018)

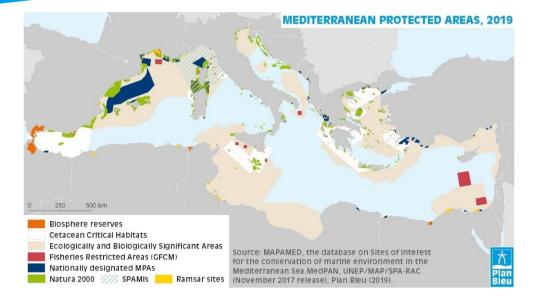
Number	Protocols
L I	Prevention and Emergency Protocol - 1976
II	Prevention and Emergency Protocol - 2002
Ш	Protocol on Land-Based Source (LBS) - 1980
IV	Specially Protected Areas (SPA) Protocol - 1982
v	SPA Protocol and SPA & Biodiversity Protocol - 1995
VI	Offshore Protocol - 1994
VII	Hazardous Wastes Protocol - 1996
VIII	Protocole « Integrated Coastal Zone management » (ICZM) - 2008

The Convention for the Protection of the Mediterranean Sea Against Pollution was adopted on 16 February 1976 then has entered into force on 12 February 1978. The original Convention has been modified by amendments and the "Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean" was adopted on 10 June 1995 then has entered into force on 9 July 2004.

## Major dates and Number of parties where the Barcelona Convention and its protocols are entered in force

Legal instruments	Date of Adoption	Entry into force date	Number of parties
Barcelona Convention	1976 (1995)	1978 (2004)	21
Dumping Protocol	1976	1978	16
Emergency Protocol	1976	1978	21
Prevention and Emergency Protocol	2002	2004	15
LBS Protocol	1980	1983	17
SPA Protocol and SPA & Biodiversity Protocol	1982 (1995)	1999	21 and 18
Offshore Protocol	1994	2011	7
Hazardous Wastes Protocol	1996	2008	8
ICZM Protocol	2008	2011	9





# "Trends in the creation of MPAs that contain no-go, no-take or no-fishing zone(s) have slowed down since the late 1990s"

# Definition:

Indicator 14.5.1: Coverage of protected areas in relation to marine areas shows temporal trends in the mean percentage of each important site for marine biodiversity (i.e., those that contribute significantly to the global persistence of biodiversity) that is covered by designated protected areas.

In the Mediterranean, "Marine Protected Area" (MPA) is understood as any marine and/or coastal area (including lagoons that are permanently linked to the sea) that has been put under protection generally by legal means for the conservation of natural habitats, species or specific natural features as its prime purpose. It thus includes a wide range of areas, established under various designations, at various levels (subnational, national, regional or even international), and providing various degrees of protection.

"Other Effective area-based Conservation Measures" (OECMs), it originates from the CBD to also indicate protection designations, although there is no clear international guidance as to how it applies.

## Precautions / Notes:

The indicator is used to track progress towards the 2011–2020 Strategic Plan for Biodiversity 2014, and was used as an indicator towards the Convention on Biological Diversity's 2010. Some discrepancies could be due to the numerous types of protected areas and their overlapping.

Sources/References: MedPAN et. al. 2016. The 2016 status of Marine Protected Areas in the Mediterranean: Main findings. Brochure, MedPAN & UN Environment/MAP - SPA/RAC MAPAMED (Marine Protected Areas in the Mediterranean) database and Mediterranean Platform on Biodiversity <u>http://data.medchm.net/en/home</u> MedPAN & SPA/RAC World Database on Protected Areas (IUCN & UNEP-WCMC 2017)

#### Mediterranean Sea is covering 2,516,900 km2

There are 186 protected sites designated at national level which cover 1.6% or 40,327 km2 of the Mediterranean Sea. The surface covered by nationally designated sites has close to double since 2012, with the creation of 6 new sites, some of which being very large (more than 1,000 km<sup>2</sup>). Of these nationally designated sites, 76 have at least one no-go, no-take or no-fishing zone that are known of. These cover 0.04% of the Mediterranean Sea (976 km2)

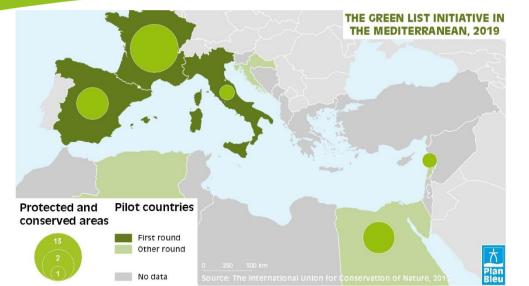
Compared with 2012, MPA & OECMs still cover a wider surface of waters within the 12 nautical mile zone1, with 95,418 km<sup>2</sup> or 14.7%, compared to beyond (84,381 km<sup>2</sup> or 4.5%). Waters. 90% of the total surface covered by MPAs and OECMs are found in EU waters

The 1,233 MPAs and OECMs now cover 7.1 % of the Mediterranean through a large variety of conservation designations. Over 73% of the surface covered is located in the Western Mediterranean. Designations cover 9.8% of European waters mostly due to the Natura 2000 at sea network which rarely affords strict restrictive measures.

To reach the 10% quantitative part of the Aichi Target, an additional 71,900 km2 (2.9 % of the Mediterranean) would need to be placed under strong protection designations that also target currently under-represented features

These comments don't take into account the "Mediterranean Cetacean Corridor" declared 'Marine Protected Area' by the Government of Spain in June 2018.





# The development of IUCN Green List should provide an accurate framework for protected areas' management.

## Definition:

The IUCN Green List is one of the flagship initiatives included in the MSSD to measure the effectiveness of the protected areas management in the Mediterranean region

The IUCN 'Green List of Protected and Conserved Areas' (GLPCA) is a global programme to encourage, achieve and promote effective, equitable and successful protected and conserved areas. To be added to the Green List, protected and conserved areas have to show that they meet the indicators of the GLPCA Standard by means of an independent evaluation.

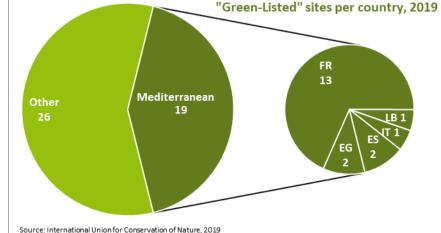
#### Precautions / Notes:

At the moment, only a few Mediterranean countries are concerned by the IUCN Green List Programme, which has been launched recently (2013)

The map and graph summarize the situation of all Green List sites of the Mediterranean countries (except 2 overseas French sites). The analysis should be focused on Mediterranean sites but there are only few at the moment

Sources / References: https://www.iucn.org/fr/node/17069





The Green List of Protected and Conserved Areas has been recognized as a Flagship Initiative under the Mediterranean Strategy for Sustainable Development 2016-2025, adopted during the 19th meeting of the Contracting Parties to the Barcelona Convention.

To integrate the Green List, sites have to demonstrate fair and transparent sharing of the costs and benefits of conservation, effective management and long-lasting conservation outcomes.

The pilot phase of the Green List Programme began in 2013, to test the Green List in 10 countries including France, Italy and Spain. The last IUCN World Park Congress took place in Sydney in November 2014.

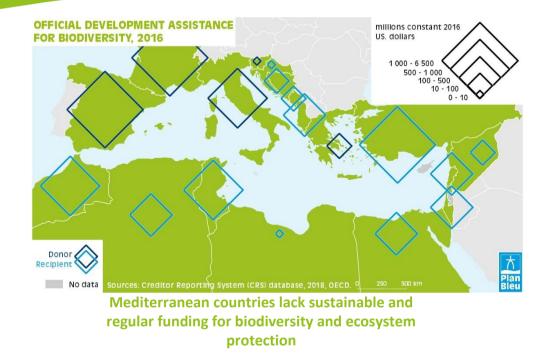
24 of the tested sites obtained a GLPCA award, 8 of which were located in 3 Mediterranean countries, but only 1 site is on the Mediterranean coast.

The second phase of the Programme, called « Development phase » began in mid-2015.

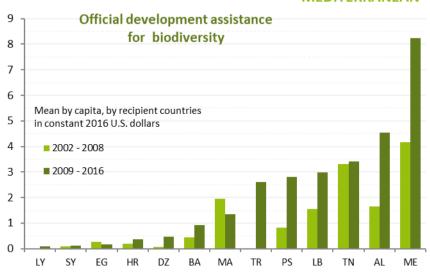
In 2019, out of the 45 sites worldwide, 19 are in the Mediterranean region, 6 sites are located with the 100-km coastal strip and only 1 site is located on the Mediterranean coast (Marine natural reserve of Cerbère - Banyuls, France)

MEDITERRANEAN STRATEGY FOR SUSTAINABLE DEVELOPMENT FOLLOW-UP





# FINANCIAL RESOURCES FOR BIODIVERSITY PROTECTION IN THE MEDITERRANEAN



Source: Creditor Reporting System database, 2018, OECD.

# Definition:

This SDG Indicator 15.a.1 deals with official development assistance and public expenditure on conservation and sustainable use of biodiversity and ecosystems. The goal is to mobilize and significantly increase financial resources from all sources to conserve and sustainably use biodiversity and ecosystems.

#### Precautions / Notes:

This indicator is available for recipient countries and for donor countries. The information shown in the factsheet refers to the "Total official development assistance for biodiversity".

The official development assistance for biodiversity is covered by irregular time series and needs to be analyzed for a period of time.

The current data does also not allow to make an assessment of the spatial distribution of funds in comparison to the spatial distribution of pressures on biodiversity and ecosystems (are the funds allocated at the right places?).

Sources / References: OECD Extracted from: <u>http://unstats.un.org/sdgs/indicators/database/?indicator=15.a.1</u> Development assistance and public expenditure for biodiversity and ecosystem protection vary largely across time and space. These variations can be explained by the fact that funding is made available mostly on a project basis which is limited in time. Thus, large budgets can be available for a country during a limited period of time but are usually not sustainable in the long term.

Total official development assistance for biodiversity in the Mediterranean region (13 countries) was about 371 million of constant 2016 United States dollars (average 2009-2016) equivalent to 1.3 dollars per capita. Turkey received more than half of this amount (200 million of dollars) and Montenegro received about 5 million dollars, equivalent to 8 dollars per capita.

5 EU Mediterranean countries are donors for 850 million of dollars (average 2009-2016) and the amount for France count for 83 % (706 million dollars)

This indicator should be further explored and improved with additional information in order to allow deducting indications about the effectiveness of the funds (what level of protection is achieved with the available amounts?) and to be able to assess the capacity of the available funding to safeguard Mediterranean ecosystems and biodiversity (are the amounts sufficient?).





# "Global food security is improving in the Southern and Eastern countries

# Definition:

The 1996's World Food Summit defined food security as the state in which « all people, at all times, have physical and economic access to sufficient, safe and nutritious food to meet their dietary needs and food preferences for an active and healthy life ».

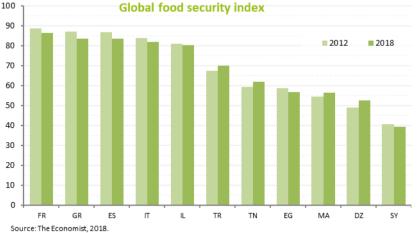
- Affordability measures « the ability of consumers to purchase food »,
- Availability measures « the sufficiency of the national food supply»,
- Quality and safety measures « the variety and nutritional quality of average diets, as well as the safety of food ».

#### Precautions / Notes:

Across all indicators used for the construction of the Global Food Security Index, where the data have missing values, the Economist Intelligence Unit has estimated the scores.

Sources / References: The Economist Intelligence Unit Limited 2018



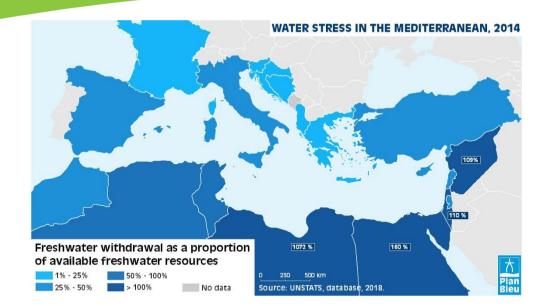


The experts of the Economist Intelligence Unit built the Global Food Security Index (GFSI) in order to measure food security considering 3 core issues: affordability, availability and quality of food.

Physical access to food products depends on their availability as well as their affordability. However physical access is not sufficient to guaranty food security, which also depends on the quality of people's diet.

- The state of good food security has been reached in many Northern Mediterranean countries, Turkey and Israel. However, data is missing to evaluate food security rates in the Balkans, Cyprus, Lebanon, Libya, Malta and Palestine.
- In most countries food affordability and availability rates are very close.
- Improving food production and farmer's income, especially in Southern and Eastern Mediterranean countries, is necessary for a better food security.
- On the contrary, in Egypt, food affordability is lower, meaning that improving employment and income in the country should have a positive effect on food security.
- Food quality is also an issue in the Mediterranean area, due to several factors, such as poor access to potable water, low diet diversification or lack of nutrients in people's diet.





# "Water stress will continue to increase"

# Definition:

SDG Indicator 6.42: The level of water stress: freshwater withdrawal as a proportion of available freshwater resources is the ratio between total freshwater withdrawn by all major sectors and total renewable freshwater resources, after taking into account environmental water requirements.

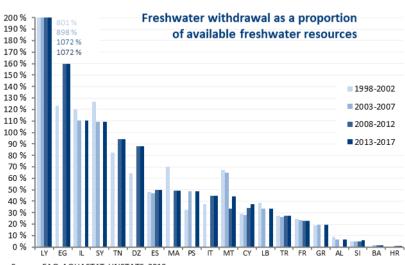
Main sectors, as defined by International Standard Industrial Classification (ISIC) standards, include agriculture; forestry and fishing; manufacturing; electricity industry; and services. This indicator is also known as water withdrawal intensity.

#### Precautions / Notes:

Sources of discrepancies: Differences might occur due to the following, amongst others: For national estimates incoming water is counted as being part of the country's available water resources, while global estimates can only be done by adding up the internal renewable water resources (water generated within the country) of all countries in order to avoid double counting. Non official withdrawals especially for agriculture use which could represent a large part of the total withdrawals are not considered.

Sources / References: FAO-Aquastat, https://unstats.un.org/sdgs/indicators/database/

# **IS WATER STRESS INCREASING IN THE MEDITERRANEAN?**



Source: FAO-AQUASTAT, UNSTATS, 2018.

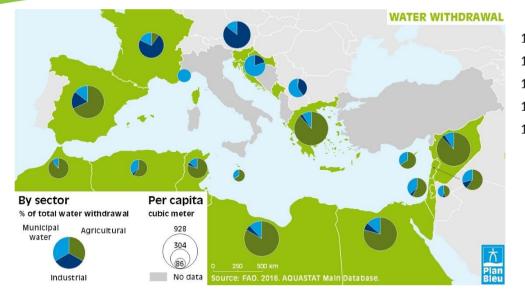
Freshwater withdrawal as a proportion of available freshwater resources (%)

- SDG Target 6.4: By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity.
- The total renewable water resources in the Mediterranean region amount to 1,030.44 Km3 (Aquastat database. FAO, 2016). The distribution and availability of this freshwater resources are uneven between the sub-regions of the Mediterranean, as 67% is located in the Northern sub-region, 10% in the South, and 23% in the East part of the Mediterranean, of which, 20.5% in Turkey alone.

The range of the water stress in the Mediterranean countries is very wide: from less than 10% in the Balkans countries to 100% and more in the Southern countries. In Libya, the water stress is higher than 1000% (10 times the available resources).

The situations within the countries are also very diverse and it is essential to provide a clear picture for the Mediterranean watersheds and therefore obtain the necessary data from national institutions





# "Overall, the evolution in water demand is alarming in the Mediterranean countries due to the scarcity of the resource"

#### Definition:

Total water demand is defined as the sum of the volume of water mobilized to meet the various uses, including the quantities lost in production, transport and use of water. It corresponds to the sum of the water withdrawals, of non-conventional production (desalination, reuse of water, etc.) and of imports less exports.

Water demand in relation to GDP of each activity sector corresponds to the demand for water used divided by the value added in the same sector (agriculture, industry).

#### Precautions / Notes:

In this factsheet, the water withdrawals are used as estimates of the water demand which is not available in the international sources. To get information on water demand needs to relaunch data collection/sharing with the national institutions dealing with water. That will allow to refine the indicator for the Mediterranean Watersheds.

For agriculture, the indicator could be refined by calculating the ratio between irrigation water demand and the value added of the irrigated production.

Sources / References: FAO-Aquastat, World Bank for added value and population

UN-WATER: UN World Water Development Report 2019: Leaving No One Behind



Better water demand management, especially for agriculture, is one of the priority actions recommended by the Mediterranean Strategy for Sustainable Development.

This means stabilizing water demand (decrease in the north and a controlled increase in the south and the east). Moreover, the water demand and the growth in GDP should also be decoupled by increasing the value added for per cubic meter of water used.

The share of water for agriculture remains high, often higher than 50% in most of the countries and is even close to 90% in Syria and Morocco. In some Balkan countries and in France the water demand for agriculture is low.

The volume of water used to produce 1000 dollars of agricultural added value goes from about 74 m3 in France to close to 1000 m3 in Greece.

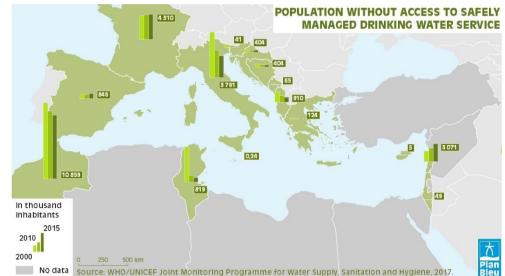
The share of water for industry stays low, less than 20% in most countries except in France with 70% (mainly for cooling water).

Drinking water demand per capita is widely varying across the Mediterranean region: from 33 m<sup>3</sup>/cap/year (88 litres/cap/day) in Morocco to about 158 m<sup>3</sup>/cap/year (430 liters/cap/day) in Italia.

Water use has been increasing worldwide by about 1% per year since the 1980s and Agriculture (including irrigation, livestock and aquaculture) is by far the largest water consumer, accounting for 69% of annual water withdrawals globally. Industry (including power generation) accounts for 19% and households for 12% (AQUASTAT, n.d.).

The lack of data in the Mediterranean region is a big issue for this indicator.





# In 2015, the proportion of population using safely managed drinking water services was over 90% in most Mediterranean countries.

## Definition:

SDG Indicator 6.1.1: Proportion of population using safely managed drinking water services is currently being measured by the proportion of population using an improved basic drinking water source which is located on premises, available when needed and free of fecal (and priority chemical) contamination. 'Improved' drinking water sources include: piped water into dwelling, vard or plot: public taps or standpipes: boreholes or tubewells: protected dug wells: protected springs; packaged water; delivered water and rainwater.

#### Precautions / Notes:

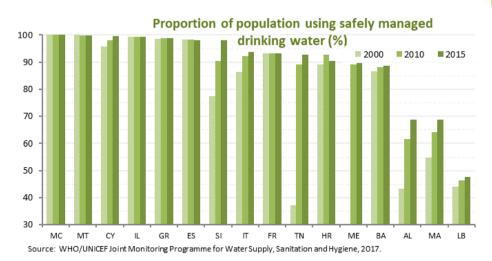
In order to meet the standard for safely managed drinking water, a household must use an improved source type that meets three criteria:

- 1. the facility should be accessible on premises (located within the dwelling, yard or plot);
- 2. Water should be available when needed (sufficient water in the last week or available for at least 12 hours per day):
- 3. Water supplied should be free from contamination (compliant with standards for fecal and priority chemical contamination).

Joint Monitoring Programme (JMP) updates have also highlighted inequalities between rural and urban areas, between rich and poor, and between other groups and the general population

Sources / References: SDG database, JMP website (www.washdata.org).

# IS ACCESS TO SAFE DRINKING WATER INCREASING?



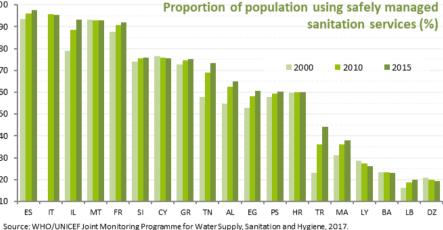
- SDG Target 6.1: By 2030, achieve universal and equitable access to safe and affordable drinking water for all.
- The WHO/UNICEF Joint Monitoring Programme (JMP) for Water Supply, Sanitation and Hygiene is in charge of the data compilation for this indicator in continuation of the MDGs
- In 2015, 71 per cent of the global population (5.2 billion people) used a safely managed drinking water service; that is, one located on premises, available when needed and free from contamination.
- Estimates for the proportion of population using safely managed drinking water are available for 96 countries (representing 35 per cent of the global population).
- Estimates are available only for 16 countries in the Mediterranean region and there is no data for most of the Southern countries. According to available data, the population without safely managed drinking decreased from 37 million in 2000 to 25.7 million in 2015.



# IS ACCESS TO SAFELY MANAGED SANITATION SERVICES IMPROVING?



POPULATION WITHOUT ACCESS TO SAFELY MANAGED SANITATION SERVICE



# "In 2015, the proportion of the population using safely managed sanitation services is up to 90 % and less than 50 % in 5 countries."

#### Definition:

2010

2000

SDG Indicator 6.2.1: The Proportion of population using safely managed sanitation services is currently being measured by the proportion of the population using a basic sanitation facility which is not shared with other households and where excreta is safely disposed in situ or treated off-site. 'Improved' sanitation facilities include: flush or pour flush toilets to sewer systems, septic tanks or pit latrines, ventilated improved pit latrines, pit latrines with a slab, and composting toilets.

# Precautions / Notes:

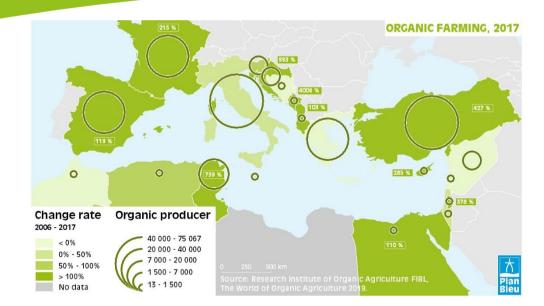
These data, however, may reflect installed treatment technology rather than actual performance, overestimating safe management. Furthermore, not all excreta from households with sewer connections actually connect with a sewer line and reach a wastewater treatment plant.

Sources / References: Sources / References: JMP website (www.washdata.org).

- SDG Target 6.2: By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations
- The WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene is in charge of the compilation of this indicator in the continuation of the MDGs. JMP will continue to track the proportion of the population with access to a basic sanitation system for disposal of human excrement of households or the immediate neighborhood (public wastewater network, septic tanks, etc.).
- In the JMP 2017 report estimates for basic sanitation services were available for nearly all countries and estimates for safely managed sanitation services were made for 96 countries at national level.
- Worldwide, 39 per cent of the global population (2.9 billion people) used a safely managed sanitation service and 2.3 billion people still lacked even a basic sanitation service
- In 2015, the population using safely managed sanitation services is lesser than 50% in Algeria, Lebanon, Bosnia-Herzegovina, Libya.

Estimates are available for 19 countries in the Mediterranean region, the population without safely managed sanitation services increase from 162 million in 2000 to 167 million in 2015 (The proportion decreased from 40% to 35%)





# "Organic farming area is unprecedently booming (x 4 since 2000) but still only covers 4% of the agricultural land in 2017"

# Definition:

This indicator measures the evolution of the number of organic farms in the Mediterranean countries, as well as the share of agricultural land used by organic farming. Organic areas: certified organic land/areas that are fully converted as well as land under conversion.

"Organic Agriculture is a production system that sustains the health of soils, ecosystems and people. It relies on ecological processes, biodiversity and cycles adapted to local conditions, rather than the use of inputs with adverse effects. Organic Agriculture combines tradition, innovation and science to benefit the shared environment and promote fair relationships and a good quality of life for all involved." (IFOAM)

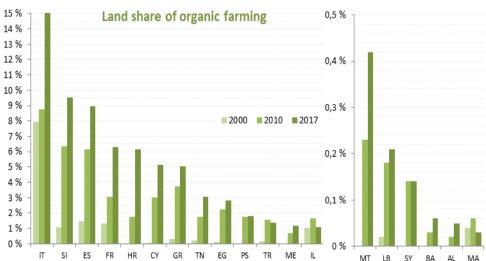
# Precautions / Notes:

The number of producers is probably higher than the published number because the number of small producers is not reported by some countries.

In European countries, the data on high quality products is available because the European Union has created protection and valorisation systems for agricultural products and foodstuffs.

Sources / References: FiBL & IFOAM (2019): The World of Organic Agriculture, 2019

WHAT IS THE SITUATION OF ORGANIC FARMING IN THE MEDITERRANEAN REGION?



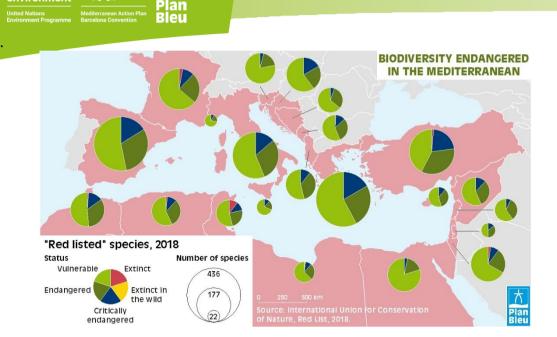
The rise in agricultural added value from the development, acknowledgement and marketing of top-quality Mediterranean products is a real challenge for agriculture in the region. The agriculture quality product is not sufficiently referenced in the Mediterranean countries, but the proportion of agricultural land used by organic farming is at least an indicator of the high-quality development production.

the share of agricultural land used by organic farming is rising in most of the Mediterranean countries. In Italy, this share reached up to 15% in 2017 while it is lower than 3% in 12 countries.

Besides, organic farming has become one of the most dynamic agricultural sectors in the European Union, with 12.8 million hectares in 2016, i.e. 7.2% of agricultural land and almost 300 000 organic producers.

Italy, Slovenia and Spain are in the first positions in the Mediterranean region for their share of organic farming, and ranked respectively 7<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> worldwide in terms of proportion of agricultural land used for organic farming. France, Tunisia and Italy are in the worldwide top ten countries with the highest increase of organic land 2017.

The number of organic farms has been multiplied by 2 from 2006 to 2017, reaching 260 thousand producers. Turkey and Italy with 55% of the Mediterranean producers are in the worldwide top ten countries



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Red List Index

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The Mediterranean region is the second largest of 34 biodiversity hotspots in the world

# Definition:

SDG Indicator 15.5.1 Red List Index: It measures change in aggregate extinction risk across groups of species. It is based on genuine changes in the number of species in each category of extinction risk on The IUCN Red List of Threatened Species (IUCN 2015). It is expressed as changes in an index ranging from 0 to 1. A Red List Index value of 1 would indicate that biodiversity loss has been halted.

### Precautions / Notes:

The main limitation of the Red List Index is related to the fact that the Red List Categories are relatively broad measures of status, and thus the Red List Index for any individual taxonomic group can practically be updated at intervals of at least four years. As the overall index is aggregated across multiple taxonomic groups, it can be updated typically annually. In addition, the Red List Index does not capture particularly well the deteriorating status of common species that remain abundant and widespread but are declining slowly.

Sources / References:

International Union for Conservation of Nature (IUCN), <u>http://www.iucn.org/</u> BirdLife International (BLI), http://www.birdlife.org/ https://unstats.un.org/sdgs/indicators/database/ SDG Target 15.5: Take urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity and, by 2020, protect and prevent the extinction of threatened species

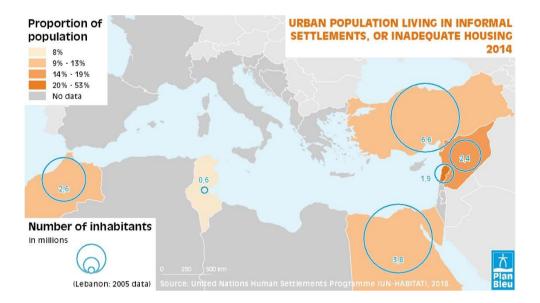
The Red List Index represents an index of aggregate survival probability (the inverse of extinction risk) for all birds, mammals, amphibians, corals and cycads occurring within the region, weighted by the fraction of each species' distribution occurring within the region. It shows how adequately species are conserved or not in the region relative to its potential contribution to global species conservation.

The value of the Red List Index in the Mediterranean countries is above the world value 0.73717. The Red List Index is above 0.9 in 11 Mediterranean countries. In the 2000-2017 time period, the Red List Index is decreasing mainly in 4 countries: Egypt, France, Albania and Montenegro.

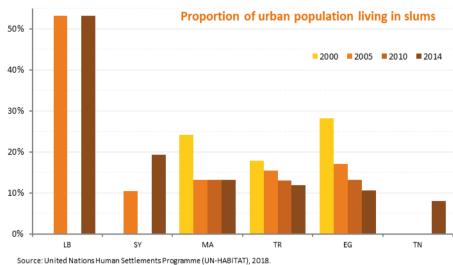
A specific Red List Index could be developed for the Mediterranean species and Mediterranean area.

Are biodiversity losses halted?





# IS ACCESS TO DECENT DWELLING IMPROVING?



# In most countries, the urban population living in slums is increasing even if its percentage is decreasing

#### **Definition:**

SDG Indicator 11.1.1: Proportion of urban population living in slums, informal settlements, or inadequate housing. This indicator measures the proportion of urban population living in informal settlements and deprived housing conditions (lack of access to improved water, access to improved sanitation, sufficient living area, and durability of housing). It takes into account slums, informal settlements and inadequate housing. It is a key indicator measuring the adequacy of the basic human need for shelter (housing). An increase of this indicator is sign for deteriorating living conditions in urban areas.

## Precautions / Notes:

The Information needed for the computation of this indicator is not currently available for all Mediterranean countries. This indicator is approximated by the proportion of urban population living in slums. The data is collected in the framework of the United Nations Human Settlements Programme.

SDG Target 11.1 is about Adequate housing: By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums

The proportion of slum dwellers in urban areas across all developing regions has reduced since 1990, but the numbers have increased gradually.

The proportion of the urban population living in slums in the developing countries decreased from 46.2 per cent in 1990 to 29.7 per cent in 2014. Meanwhile the number of slum dwellers in the developing countries is increasing and reached over 880 million inhabitants in 2014 compared 689 million in 1990.

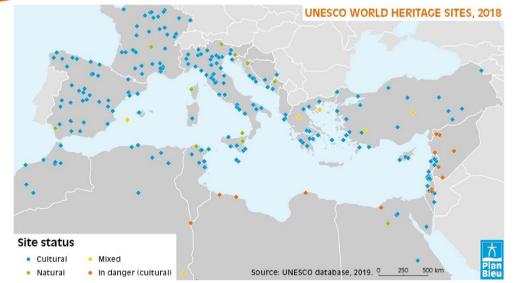
Some national programs of social housing allowed to reduce the part of the population having no access to an adequate dwelling and living in districts without essential services: from 12,6% to 3,8% in Egypt between 1990 and 2014 (8.8 million persons concerned). In Turkey, the population living in slums in 2014 is approximately 6.6 million (11.9%), compared to 7.7 million in 1990 (23.4%).

Data needs to be completed in several countries including some EU countries.

18

SUSTAINABLE CITIES





"23% of the sites inscribed on the List of World Heritage are located in Mediterranean countries and 15 sites are in danger".

#### **Definitions:**

The 1972 World Heritage Convention links together in a single document the concepts of nature conservation and the preservation of cultural properties. The Convention recognizes the way in which people interact with nature, and the fundamental need to preserve the balance between the two. The World Heritage Committee defined the criteria on the basis of which a property belonging to the cultural or natural heritage may be included in either of the lists:

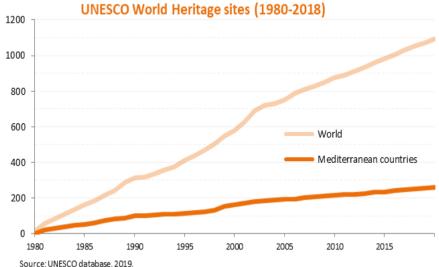
- The World Heritage List: a list of properties forming part of the cultural heritage and natural heritage which it considers as having outstanding universal value.
- The List of World Heritage in Danger: the list may include only such property forming part of the cultural and natural heritage as is threatened by serious and specific danger.

# Precautions / Notes:

The Committee may decide to remove a site from the World Heritage List and the List of World Heritage in Danger.

Sources / References: <u>http://whc.unesco.org/fr/list</u>

# UNESCO WORLD HERITAGE SITES: SITUATION IN MEDITERRANEAN COUNTRIES



#### The heritage conservation is one of the objectives of UNESCO.

"Based on a strong appeal from national and local stakeholders, the 2030 Agenda adopted by the UN General Assembly integrates, for the first time, the role of culture, through cultural heritage and creativity, as an enabler of sustainable development across the Sustainable Development Goals" (UNESCO)

The List of World Heritage constantly progressed in the Mediterranean countries. The number of sites inscribed has increased from 29 in 1980 to 258 in 2018 (including 11 transboundary sites).

More than half of these 258 sites (139 sites) are located on the Mediterranean coast (within 100 km of the coastline)

In Mediterranean Countries: 91 % are cultural sites, 7 % are natural sites 3 % are mixed sites.

However, there are great differences among countries:

- 3 countries have many sites: Italy (48), Spain (43) and France (40). Greece and Turkey are lagging far behind with 18 sites each.
- 7 countries have less than 3 sites each.

In the world, 54 sites are in danger and 28% of these sites are in Mediterranean countries.

All the sites located in Syria, Libya and Palestine are inscribed on the List of World Heritage in Danger.



# WASTE GENERATION 2016 Waste production Waste composition kg. / cap. per vear Food & Other Organic 200 - 300 Metal Plastic 700 450 Glass 450 - 500 Paper 500 1217 Rospia and Her Monaco Slovenia: no data Plan Source: What a Waste Global Database, World Bank, 2018. 0 250 500 km

# "In 2016, the overall situation is mixed, high waste generation in the North, high food part in the South and a still low recycling rate"

# Definition:

This indicator is one of the H2020/ ENI SEIS II South Support Mechanism project and it is also linked to the SDG Indicator 11.6.1: Proportion of urban solid waste regularly collected and with adequate final discharge out of total urban solid waste generated, by cities and to SDG Indicator 12.5.1: National recycling rate, tons of material recycled

Municipal Solid Wastes (MSW) are wastes generated by households, and wastes of a similar nature generated by commercial and industrial premises, by institutions and from public spaces.

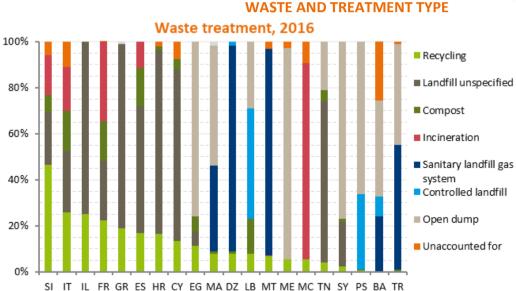
Waste treatment and disposal includes the following categories: recycling, composting, anaerobic digestion, incineration, landfilling, open dumping.

# Precautions / Notes:

Industrial, medical, hazardous, electronic, and construction and demolition waste are reported separately from total national waste generation to the extent possible. It is not the case for the countries.

The differences in data production methods the countries can lead to distortions in the analysis

2018. What a Waste 2.0: A Global Snapshot of Solid Waste Management to 2050.



WASTE GENERATED AND TREATED BY TYPE OF

Source: What a Waste Global Database, World Bank, 2018.

In the Mediterranean region home for about 500 million inhabitants in 2016, the waste generation and management practices vary widely.

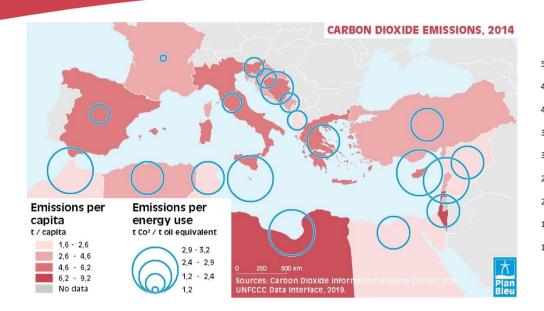
The total amount of MWS is slightly greater than 183 million of tons, i.e. an average of 370 kg per capita per year (about 1 kg/cap/day).

In the Northern countries, the range of value is from 1.1 to 1.7 and raised to more than 3 kg/cap/day in Monaco. In the southern countries, the amount generated is from 0.5 kg/cap/day in Morocco to 1.1 in Algeria (the value for Israel is similar to the EU countries).

In the Northern countries (inc. Israel), the percentage of Food & Organic waste is between 30% and 52% while this rate in the Southern countries is still higher (From 52 % in Lebanon to 70% in Libya)

The recycling is also widely varying. In the northern countries, the recycling rate is higher that 13% and raises to 46% in Slovenia, except in Bosnia-Herzegovina with a rate close to 0(the rate for Israel is 25%). In the southern countries, Egypt has the higher recycling rate (12.5%) and the rate is especially low in Syria, Palestine and Turkey.





# "CO, emissions from fossil fuel continue to rise in most Mediterranean countries."

#### Definition:

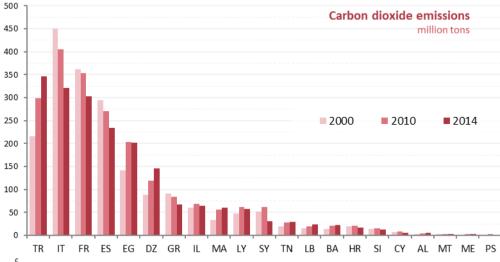
This indicator corresponds to the aggregate annual national emissions of human origin of the main greenhouse gases: Carbon dioxide (CO<sub>2</sub>), Nitrogen dioxide (N<sub>2</sub>O), Methane (CH<sub>4</sub>), Hydrofluorocarbons (HFC), Fluorocarbon (PFC) and Sulfur hexafluoride (SF<sub>c</sub>).

# Precautions / Notes:

In this factsheet, only CO<sub>2</sub> emissions from solid fuels, cement and the gas flaring are taken into account. On average, they count for 80% of the emissions of human origin greenhouse gases.

Sources / References: CAIT Climate Data Explorer. Washington, DC: World Resources Institut. Available online at: ttp://cait.wri.org





Only 7 countries have made commitments under the Kyoto Protocol. These 7 countries are officially committed to reduce or control their emissions by 2020/ compared to 1990 emissions: Croatia, Monaco and Slovenia (-8%), Italy (-6.5%), France (stabilisation), Spain (+15%) and Greece (+25%). The EU-27 committed to reduce 20%/30% of its CO2 emissions by 2020.

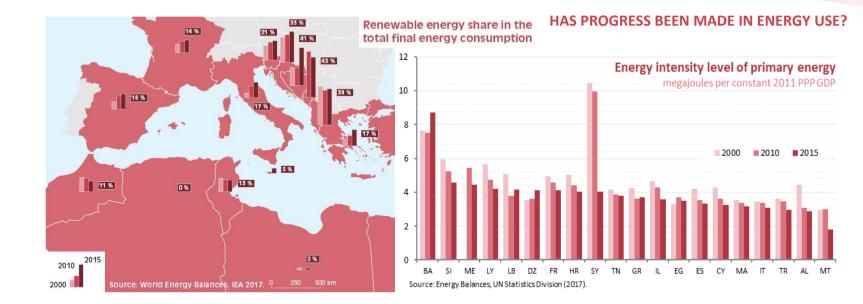
The Mediterranean countries with no quantified commitment under the Kyoto Protocol nevertheless committed themselves to control their GHG emissions with respect to the **Climate Convention and Kyoto Protocol.** 

The rise in CO<sub>2</sub> emissions from 1990 to 2014 was higher than the national objectives in most the countries except in France. From 2000 to 2014, CO<sub>2</sub> emissions from energy have decreased mainly in Italy, France and Spain and increased in Turkey, Egypt, Algeria and Morocco.

In 2014, one Mediterranean citizen emitted an average of 4 tons of CO2 per year: 4/5 of the World average (5 tons), 2/3 of EU (6.4 tons) and 4 times less than in USA (16.3 tons).

In the North, the CO2 emissions per capita are extremely diverse: from 2 tons per capita in Albania to above 6 in the Balkans countries in 2014. The differences in CO2 emissions per capita are also significant in the southern and eastern Mediterranean countries: from 1.7 tons in Morocco to 9.2 tons in Libya.





# In most Mediterranean countries, the energy intensity and the share of renewable energy are improving.

# Definition

SDG 7.3.1 Indicator: Energy intensity is defined as the energy supplied to the economy pet unit value of economic output.

Total energy supply, as defined by the International Recommendations for Energy Statistics (IRES), as made up of production plus net imports minus international marine and aviation bunkers plus-stock changes.

SDG 7.2.1 Indicator: The renewable energy share in total final consumption is the percentage of final consumption of energy that is derived from renewable resources.

Renewable energy consumption includes consumption of energy derived from: hydro, solid biofuels, wind, solar, liquid biofuels, biogas, geothermal, marine and waste. Total final energy consumption is calculated from national balances and statistics as total final consumption minus non-energy use.

#### Precautions / Notes:

The very high values should be interpreted with caution for the countries in economic crisis (with low GDP). PPP: Purchasing Power Parity. Koe: kilo oil equivalent.

#### Sources / References:

https://unstats.un.org/unsd/energy/ires/, https://unstats.un.org/sdgs/indicators/database/

SDG Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for SDG all:

SDG Target 7.3: By 2030, double the global rate of improvement in energy efficiency

SDG Target 7.2: By 2030, increase substantially the share of renewable energy in the global energy mix

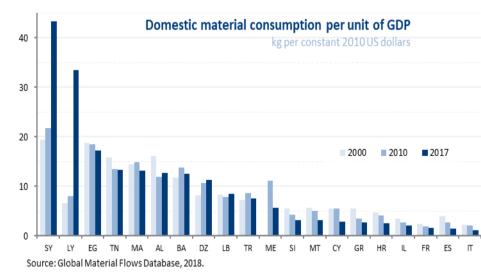
In 2015, the energy intensity of the Mediterranean countries (84 koe/1000 dollars) was higher than the European average (110) and below the world average (125).

However, disparities among countries remain significant, even among countries with equivalent income levels. Energy intensity in Bosnia- Herzegovina, Slovenia and Montenegro is over 100 koe/1000 dollars while it is lower than 50 in Malta.

In the Mediterranean countries, the share of renewable energy in total final consumption covers a wide range: from 0,06 % in Algeria to 43% in Montenegro. In the Balkans countries, the share is above 20% while it is low in the Southern countries, especially in the Oil & Gas producing countries



# DECOUPLING ECONOMIC GROWTH FROM MATERIAL CONSUMPTION IN THE MEDITERRANEAN REGION?



# Despite the diversity of their DMC, the Mediterranean countries start a decoupling of their economic growth

↑ Plan Bleu

**DOMESTIC MATERIAL CONSUMPTION, 2017** 

#### Definition:

tons by capita

45 - 55 80 - 112

55 - 65 No data

65 - 80

39 - 45

SDG 7.3.1 Indicator: Domestic material consumption, domestic material consumption per capita, and domestic material consumption per GDP.

Source: Environment Live / Ci

Material Flows Database 201

Domestic Material Consumption (DMC) is a standard material flow accounting (MFA) indicator and reports the apparent consumption of materials in a national economy. It is measured for several types of materials.

In this factsheet, the DMC is shown for ram materials. The DMC is measured in kg per constant 2010 US dollars.

#### Precautions / Notes:

The indicator does not take into account the consequences of outsourced material-intensive extraction and production which dislocates environmental pressures. Water and air consumption are, apart from the water content of materials, not included. DMC cannot be disaggregated to economic sectors which limits its potential to become a satellite account to the System of National Accounts (SNA).

The UN Environment International Resource Panel Global Material Flows and Resource Productivity working group compiles data from countries and from other sources.

Sources / References: Global Material Flows Database. Available at: <u>www.materialflows.net</u>

million tons

2 500 - 9 500

1 150 - 2 500 450 - 1 150

180 - 450

27 - 180

The comparison of material consumption with economic performance provides an insight in trends of material intensity and material productivity (the reciprocal value of material intensity) as well as of decoupling of the global economic system over time. For instance, in the EU Roadmap to a Resource-Efficient Europe the main indicator used is GDP divided by Direct Material Consumption (DMC). Despite the decline in domestic material consumption since 2007, GDP has nevertheless continued to grow.

In the period 2000–2017, the Mediterranean economy achieved a "relative decoupling" of economic growth from resource use (fossil fuels, metal ores, industrial and construction minerals, biomass): income or GDP of most Mediterranean countries increased faster than the amount of used materials.

In the EU Med countries in 2017, the DMC per constant 2010 US dollars is less than 6. It is between 7 and 17 is most of Southern countries and reached 33 and 43 respectively in Libya and Syria.





# This assessment needs to be updated with information from countries

## Definition:

The proposed indicator is "Number of National Strategies for Sustainable Development adopted or updated [and number of updates since first edition]"

Waiting for updated data directly provided by the national institutions, this factsheet shows an Assessment of National Green Economy (GE) and Sustainable Development (SD) Strategies published in Mediterranean Countries issued from the report referenced hereafter

#### Precautions / Notes:

This report includes data up till June 2016, published by national governments and available through public search. It reviews only written documents, not the implementation of it. Updated information needs to be provided by the countries.

Sources / References: report "Towards a Green Economy in the Mediterranean" (eco-union, MIO-ESCDE & GEC, 2016)

http://www.medgreeneconomy.org/assets/downloads/greeneconomy-medweb.pdf

# HOW MANY COUNTRIES HAVE GREEN ECONOMY AND SUSTAINABLE **DEVELOPMENT STRATEGIES?**

Countries	Strategies
Albania	Several plans and strategies
Algeria	NSSD
Bosnia-Herzegovina	Several plans and strategies
Croatia	NSSD
Cyprus	NSSD
Egypt	Several plans and strategies
France	NSSD
Greece	Several plans and strategies
Israel	SCP
Italy	Green Economy
Lebanon	SCP
Malta	Green Economy
Montenegro	NSSD
Morocco	NSSD
Palestine	Several plans and strategies
Slovenia	CC
Spain	NSSD
Tunisia	NSSD
Turkey	СС

The large majority of the countries have outdated or incomplete national GE/SD strategies. Often, they are vague, not giving clear definitions, objectives, budgets or indicators.

Only four countries (France, Italy, Morocco and Tunisia) can claim to have good, up to- date and detailed strategies with concrete roadmap, or - in the case of Italy - supporting legislation in place.

Seven countries (Albania, Bosnia-Herzegovina, Cyprus, Egypt, Palestine, Slovenia and Spain) have outdated GE/SD strategies or none at all.

The rest of the Mediterranean countries (Algeria, Croatia, Greece, Israel, Lebanon, Malta, Montenegro and Turkey) are somewhere in between these two groups of countries.

Some recommendations to catalyze and to support GE/SD:

Design ambitious, coherent and consistent national Strategies that mainstream Sustainability concepts; formulate clear objectives, actions and indicators; and integrate new international commitments (Paris Agreements, SDGs, etc.)

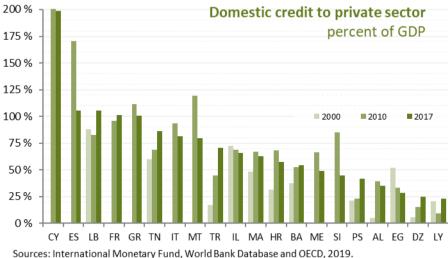
Improve awareness, commitment and involvement of all stakeholders through awareness raising campaigns; dialogues with cooperation and peer key actors; and support tc learning activities. local or sectorial initiative:

Phase out Brown Economy incentives, commit the financial sector and enhance **GE/SD** implementation through regional





# CAN PRIVATE ENTERPRISES BENEFIT FROM CREDIT TO FINANCE THEIR INVESTMENTS?



"The domestic credit allocated to the private sector in percentage of GDP is varying across time and countries without any obvious trend."

# Definition:

Multiple indicator:

- Share of bank credit allocated to the private sector
- Existence of alternative credit systems other than bank credit

Domestic credit for the private sector refers to the financial resources provided for the private sector, such as credits, purchase of non-participating securities, trade credits and other accounts that establish a repayment obligation. Public credit is included in some countries.

The alternative finance systems of bank credit may concern investments in venture capital and micro-credit allocated to those that are excluded from the conventional banking system.

#### Precautions / Notes:

Alternative finance is not well defined and it could be financing from external sources other than banks or stock and bond markets. It can include fundraising via online platforms.

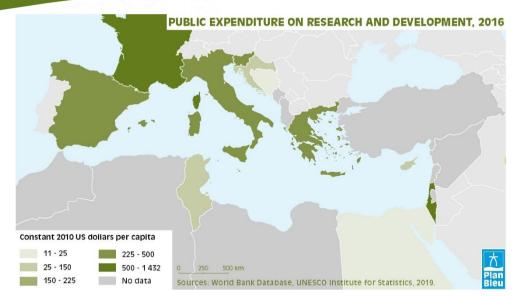
Sources / References: World Bank, World Development Indicators. International Finance Statistics, Global Findex database.

The development of Small and Medium Enterprises finance systems for productive and innovative activities (micro-credit, venture capital, incentives, etc.) is one of the objectives for setting up efficient banking services.

In the Mediterranean region, the share of domestic credit allocated to the private sector in 2017 varied a lot across the countries, from 23 % in Libya to 106% in Spain and reaches about 200% in Cyprus. Trends over time are differ across countries.

In the Mediterranean Southern countries, an average of 39% of the adult population have a formal bank account in a financial institution or used a credit card and 30% of women have a such account (Global Findex database). An average of 9 % of the adult population had a credit in the past years from financial institution or used a credit card.





# The amount of national public expenditures on R&D expressed as a percentage of GDP is increasing

#### Definition:

SDG Indicator 9.5.1: Research and development expenditure as a proportion of GDP.

Research and development expenditures include the operating expenditures and investments (including overheads) for creative and system-based activities dedicated to increase knowledge. This amount includes both fundamental and applied research as well as experimental development work leading to new devices, products or processes

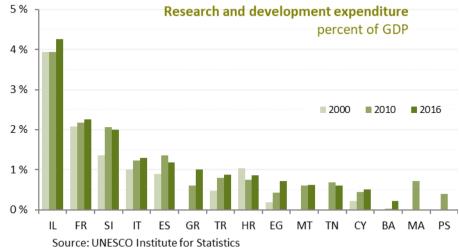
#### Precaution/Notes:

Research and development expenditures are not necessarily oriented to the sectors supporting sustainable development or contributing to SDG and MSSD goals.

This indicator could be refined in focusing on the sustainable development aspects and with the resources mobilization by the private sectors for Research and development and innovation.

# Sources / References: UNESCO, UNDP





SDG Target 9.5: Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development workers per 1 million people and public and private research and development spending

The Mediterranean Strategy for Sustainable Development 2016-2025 promotes education and research for sustainable development (strategic direction 6.4) and in particular to strengthen research capabilities in the area of sustainable development, as well as the science - policy interface.

In average, Mediterranean countries spend 1.25% of their GDP on research and development (R&D) in 2016 and these expenditures are increasing. The expenditure in EU-27 countries is stabilized around 2% of the GDP.

Except in Israel where Research and development expenditure is 4,25% of GDP in 2016, this percentage is between 1 and 2,3% in Greece, Spain, Italy, Slovenia, and France and less than 1% in the other Mediterranean countries.





# Definition:

SDG Indicator 16.10.2. Number of countries that adopt and implement constitutional, statutory and/or policy guarantees for public access to information. The focus of this indicator is thus on the status of adoption and implementation of constitutional, statutory and/or policy guarantees for public access to information. The definition relates directly to "public access to information", which is wider than, but is also very much based upon, the established fundamental freedoms of expression and association. Conversely, these freedoms also both impact on the environment for public access to information.

#### Precaution / Notes:

This indicator does not assess the totality of "public access to information" component of the full SDG Target 16.10. Nevertheless, it focusses on a key determinant of the wider information environment.

This indicator is still classified as Tier II Indicator: conceptually clear, has an internationally established methodology and standards are available, but data are not regularly produced by countries.

Sources / References: UNESCO - International Programme for the Development of Communication: <u>https://en.unesco.org/programme/ipdc</u>

https://www.law-democracy.org/live/wp-content/uploads/2018/11/SDG-Parallel-CS-Report.18.09.20.final\_.pdf THE ACCESS TO THE INFORMATION, A STAKE IN THE MEDITERRANEAN REGION?

- SDG Target 16.10: Ensure public access to information and protect fundamental freedoms, in accordance with national legislation and international agreements.
- UNESCO's reports to the UN on global monitoring of 16.10.2 have accordingly been compiled and submitted by the IPDC secretariat
- According to UNESCO's preliminary assessment, Indicator 16.10.2 seeks to establish the state of public access to information in terms of three key variables:
  - 1. Whether a country (or at the global level, the number of countries) has constitutional, statutory and/or policy guarantees for public access to information.
  - 2. The extent to which such national guarantees reflect 'international agreements' (such as the Universal Declaration of Human Rights).
  - 3. The implementation mechanisms in place for such guarantees, including the following variables:
    - Sovernment efforts to publicly promote the right to information.
    - The capacity of public bodies to provide information upon request by the public



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