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Headway

A new roadmap in Mental Health



“Headway – Mental Health Index 2.0”

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*The following presentation contains data from the Report “Headway – Mental Health Index 2.0”, which arises from the initiative “Headway – A new roadmap in Mental Health”, realized by **The European House – Ambrosetti** in collaboration with **Angelini Pharma**.*

«Headway - Mental Health Index 2.0»



Monitoring the responsiveness of a Country, assessing its trend over time and comparing it to other systems, allows for a **dynamic and more complete picture of the effects of health, social, employment, educational and environmental policy interventions** on the mental health status of the population

The “Headway Mental Health Index 2.0” is designed to provide a **multidimensional picture on mental health** across European Countries (EU-27 + UK). The first **2 sub-indices** are:

1

ENVIRONMENTAL DETERMINANTS OF MENTAL HEALTH

Analyzing **environmental determinants** of Mental Health in **European Countries**

KPI: e.g., Pollution (water, waste, air), Climate (average annual hours of daylight), Nature (green and blue areas, natural disasters), Urban Environment (i.e., poor housing and indoor air quality, noise pollution, ...), Socio-economic and Political Scenario (i.e., wars, conflicts, forced migration, economic recession,...)

NEW

2

MENTAL HEALTH STATUS OF THE POPULATION

Analyzing **Mental Health outcomes** across European Countries **KPIs:** prevalence of mental disorders, mortality rate (including suicide rate), years lived in disability, prevalence of risk factors (e.g., drug use, alcohol consumption, etc.)

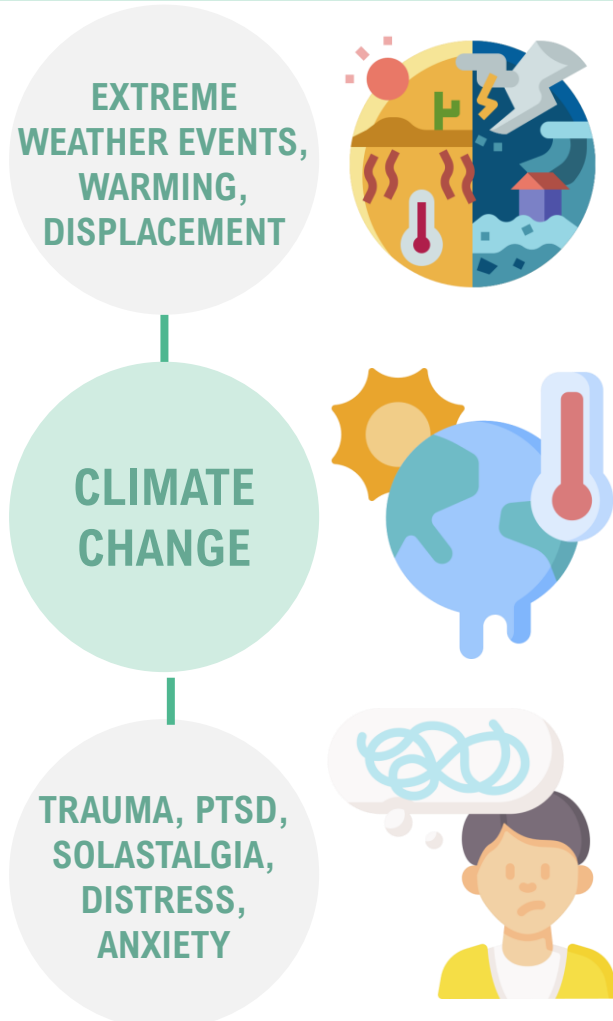
KPIs of the pillar “Environmental determinants of Mental Health”

KPI	Unit of measure	Source
Hours of daylight	Hours	National databases
Average temperature	C°	Climate Change Knowledge Portal
Economic damage caused by weather extreme events	Loss per capita in euro PPP	European Environment Agency
Earthquakes	Number of earthquakes of magnitude >2	European Facilities for Earthquake Hazard and Risk
Poor housing conditions	% population living in poor housing conditions	Eurostat
Overcrowding rate	% of population living in overcrowded households	Eurostat
Air pollution	% of population exposed to particulate matter	Eurostat
Noise pollution	% of population reporting they are impacted by noise	Eurostat
Transport and road traffic	Hours per year	Eurostat and Tom Tom database
Urban green space	% of green infrastructure over total area	Eurostat
Conflicts, migration, economic recession	Score	The Fund for Peace
Crime, violence or vandalism	% of people reporting crime, violence or vandalism in their neighborhood	Eurostat

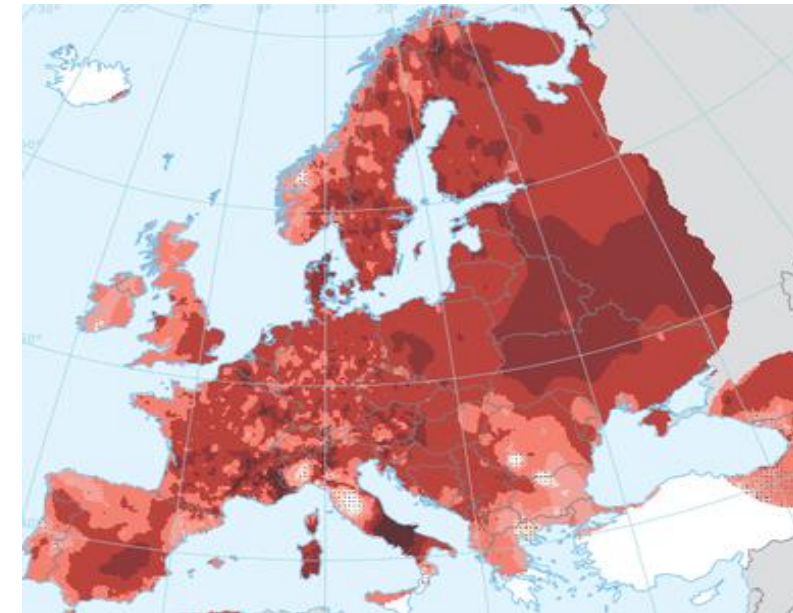
1 Average Temperature Increase

Example of
KPI monitored

The effects of **climate change on Mental Health** have been addressed only recently and knowledge on the pathways between the two is **still limited**



Trends in annual temperature (average °C increase), 1960 - 2021



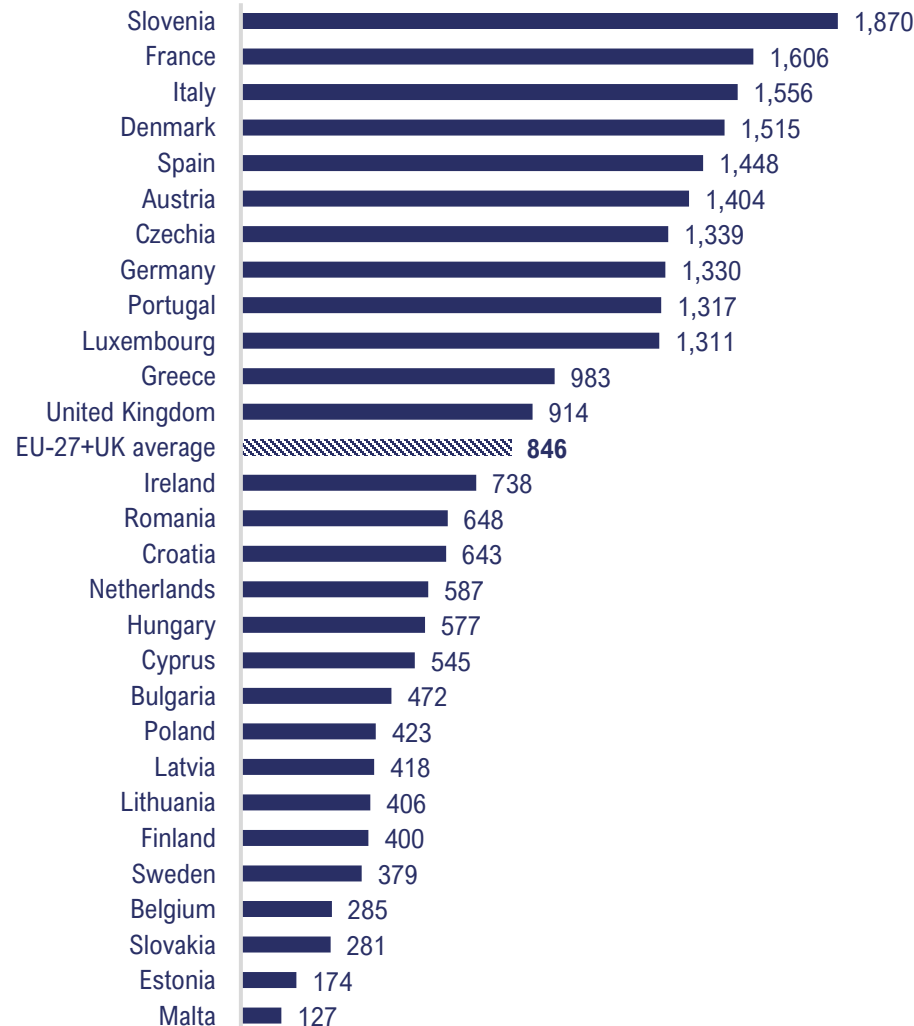
+1.99°C warmer surface temperature

- Leading to decrease in **Mental Health and Well-being** (e.g. increased prevalence of stress, anxiety, and mood disorders)

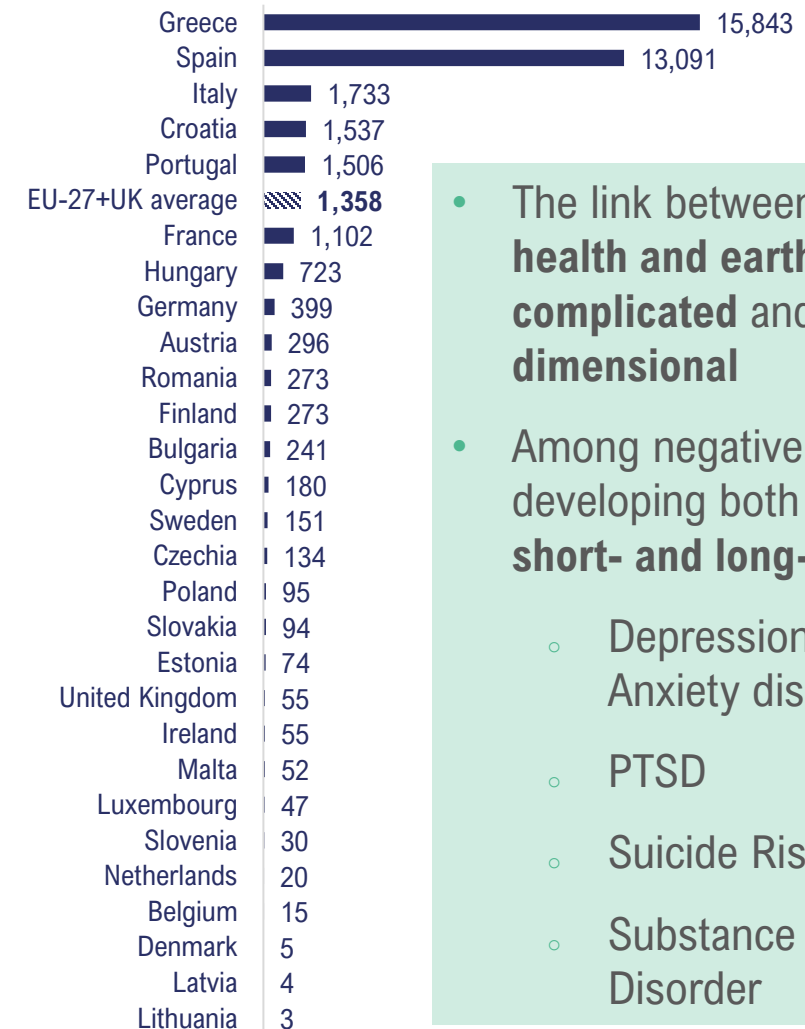
Economic losses caused by Extreme Weather Events and Earthquakes

Example of
KPI monitored

Economic damage caused by Extreme Weather Events –EWE (average loss per capita in euros), 1980-2020



Earthquakes in EU-27 and the United Kingdom (number of quakes of magnitude 2 or higher), 2021



The **economic losses** in the EU due to EWE account for **12 billion euros per year**:

- **Children and adolescents** are the most vulnerable group of society
- **50% of adults** experiencing Extreme Weather Events report **emotional damage**

- The link between **mental health and earthquakes is complicated and multi-dimensional**
- Among negative effects, developing both in the **short- and long-term**:
 - Depression and Anxiety disorders
 - PTSD
 - Suicide Risk
 - Substance Use Disorder

Poor Housing conditions and Overcrowding rates

Example of
KPI monitored

URBAN
ENVIRONMENT AND
ITS
CHARACTERISTICS



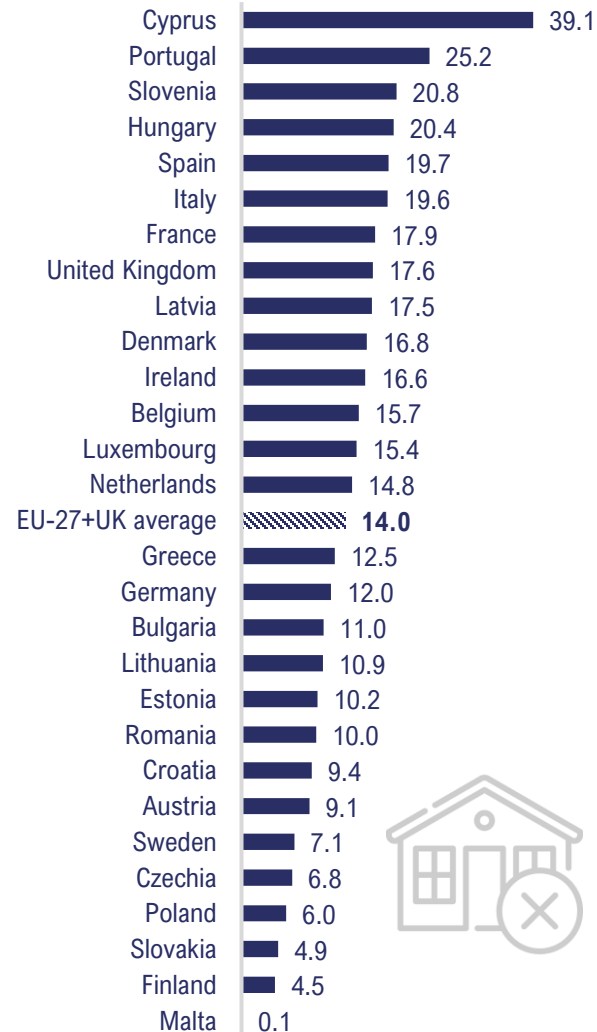
BUILT
ENVIRONMENT



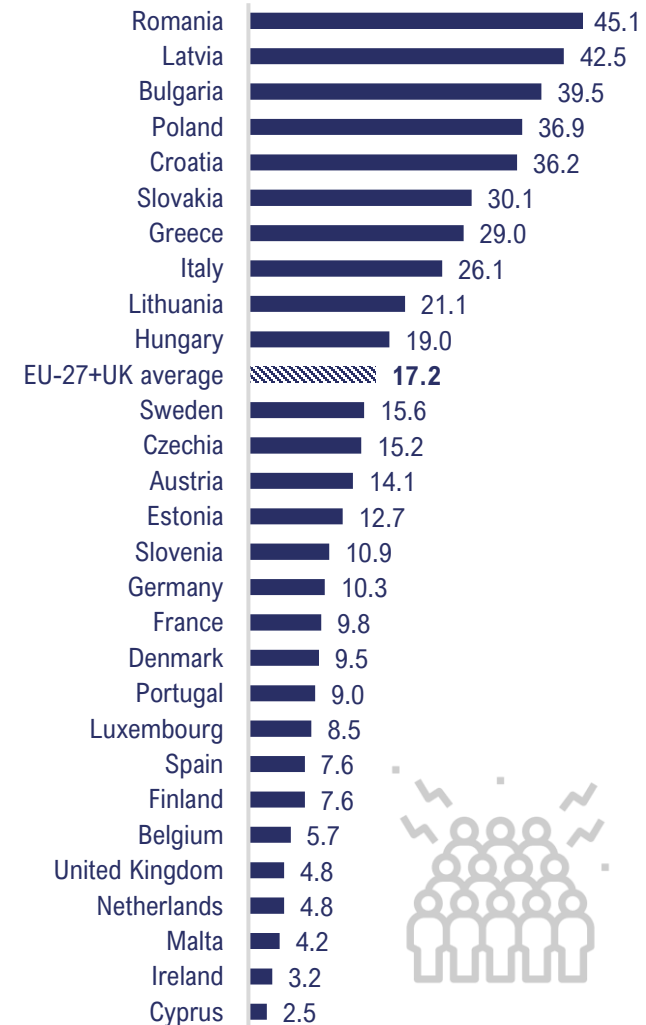
DISTRESS, POOR
COGNITIVE
DEVELOPMENT,
AGGRESSION,
TRAUMA



Population living in poor housing conditions
(% of total population), 2020



Overcrowding rate
(% of total population), 2020



- Studies highlight that people living in **poor housing conditions** have a **higher risk of experiencing mental ill health**:
 - An **alarming factor** is that people with a mental health disorder are **1.5 times more likely to live in poor housing conditions vs. general population**

1 Noise and Air Pollution

Example of KPI monitored

INDIVIDUALS AFFECTED BY ENVIRONMENTAL NOISE IN EUROPE

HIGH ANNOYANCE



22,000,000

HIGH SLEEP DISTURBANCE



6,500,000

PREMATURE MORTALITY



12,000

HEART DISEASE



48,000

COGNITIVE IMPAIRMENT IN CHILDREN



12,500

1 in 5 EU citizens lives in areas where noise levels are considered harmful to mental health



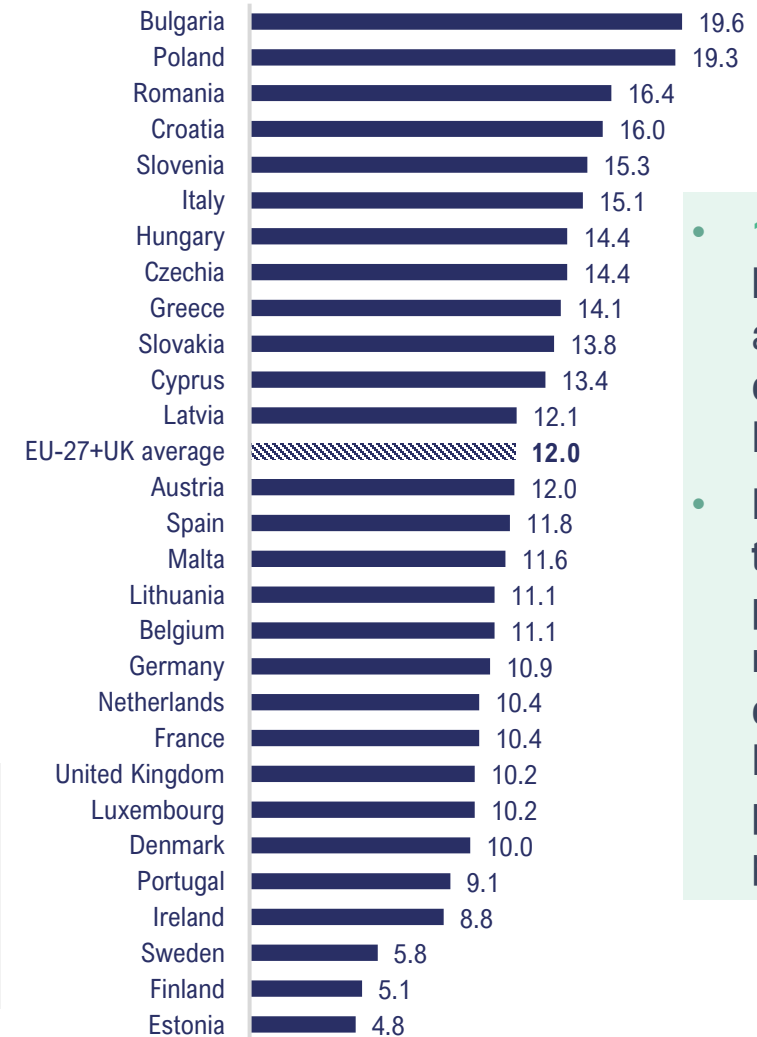
Noise pollution (% of total population exposed), 2020



The chart shows great variability across Europe

Air pollution

(% of urban population exposed to PM2.5), 2019



- 12% of people living in urban areas are exposed to PM2.5
- People exposed to certain air pollutants are more likely to experience Mental Health problems, in particular anxiety

CONFLICT

- **1/5 people in conflict settings** experience depression, anxiety disorders, PTSD, bipolar disorder and schizophrenia
- The **Ukrainian conflict** and its ripple effect will have a negative impact on the Mental Health of the population

MIGRATION

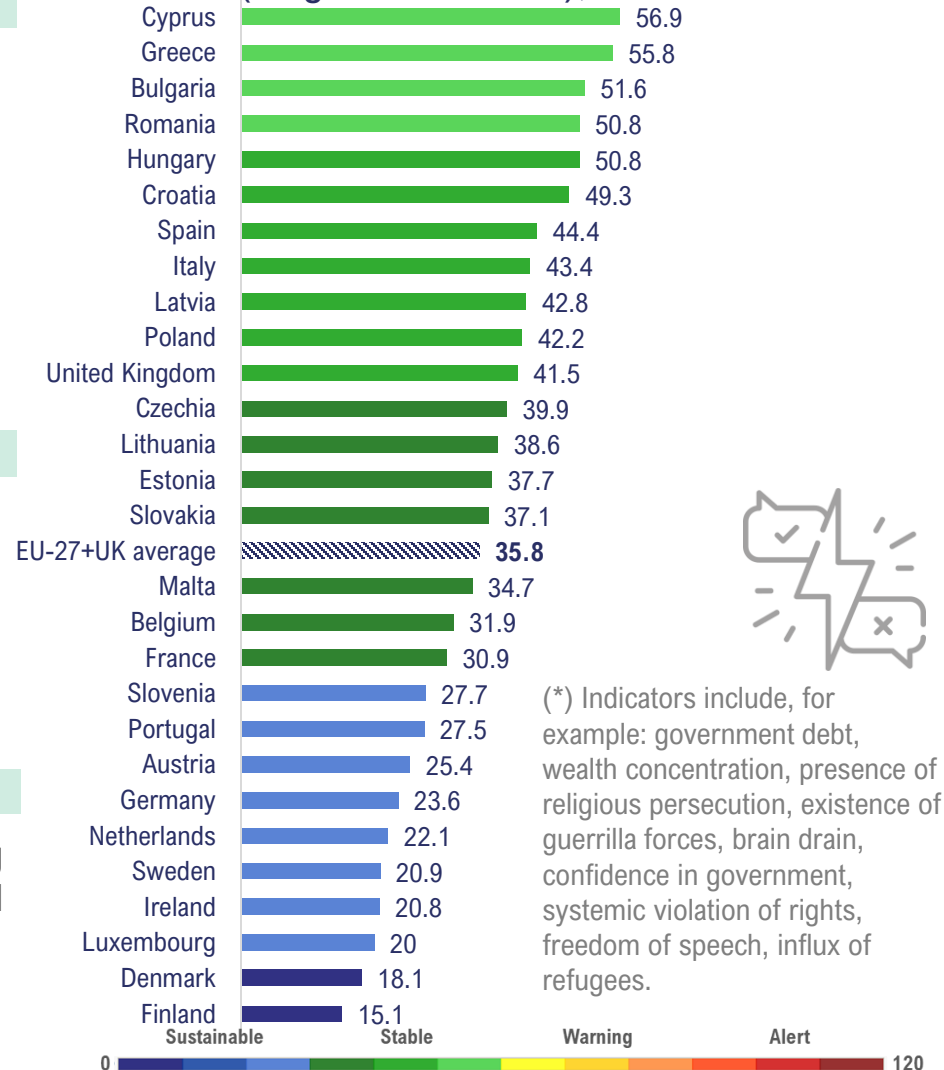
- In 2021, **281 million international migrants are likely** to have unhealthy life-styles, risk behaviors, psychological and social distress and low self-esteem

ECONOMIC RECESSION

- **Unemployment and a decline in living conditions** cause psychological distress and greater use of mental health services

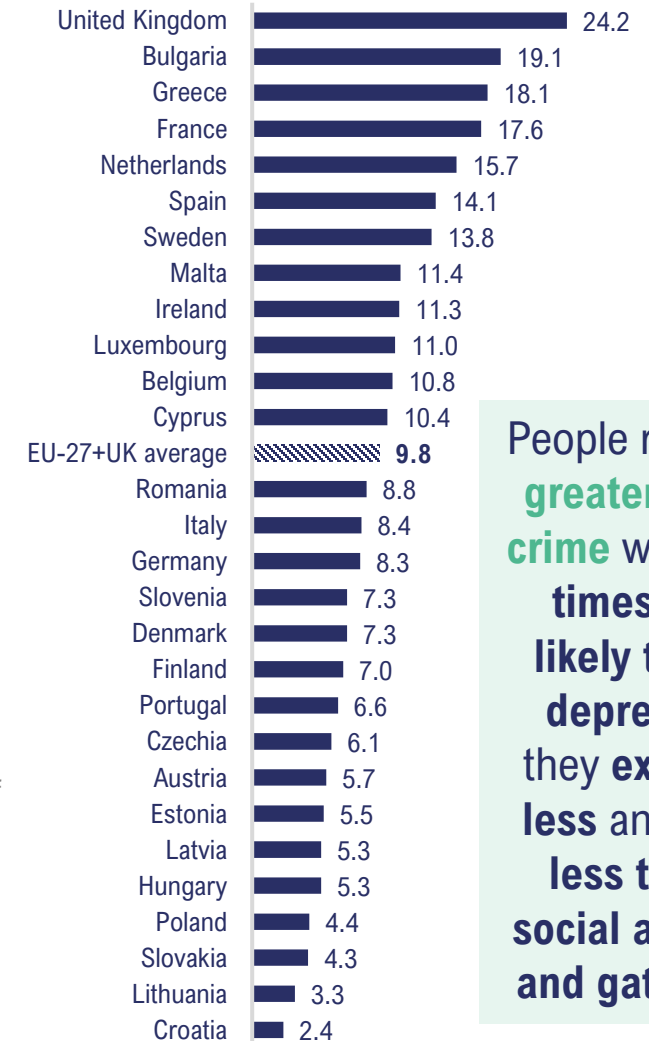
Conflicts, migration, economic recession*

(Fragile State Index), 2022



Crime, violence or vandalism in the area

(% annual measure), 2020

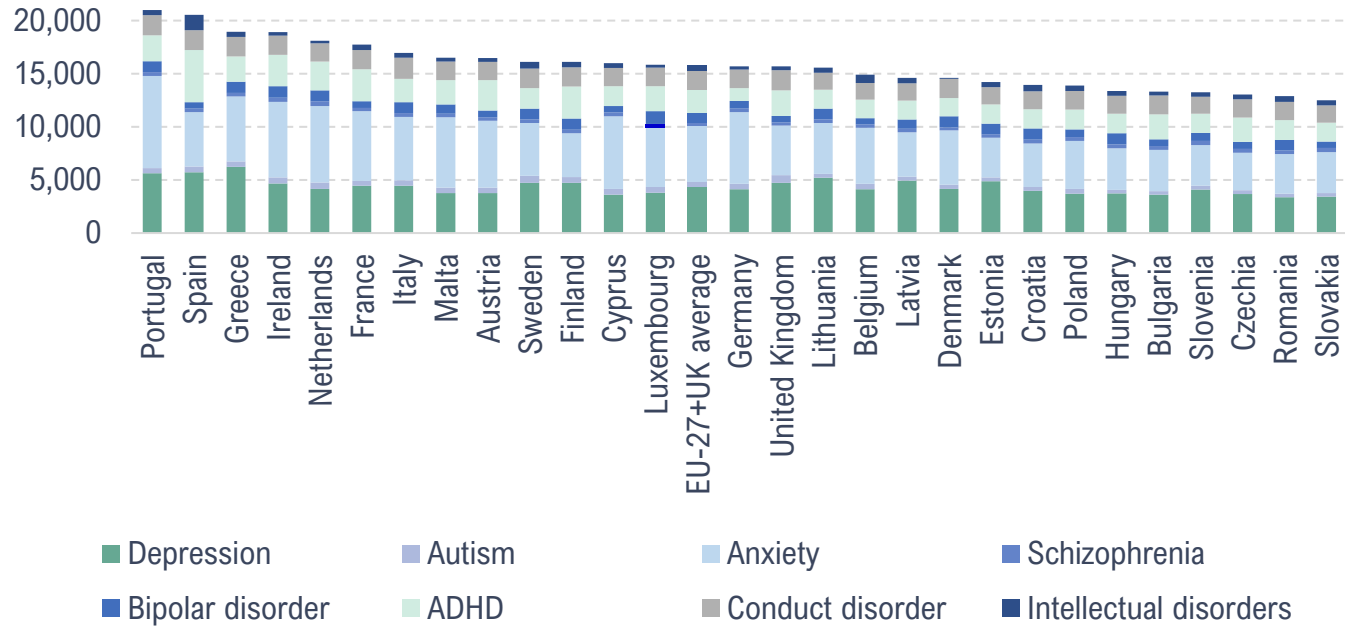


People reporting **greater fear of crime** were **1.93 times more likely to have depression**, they **exercised less and spent less time in social activities and gatherings**

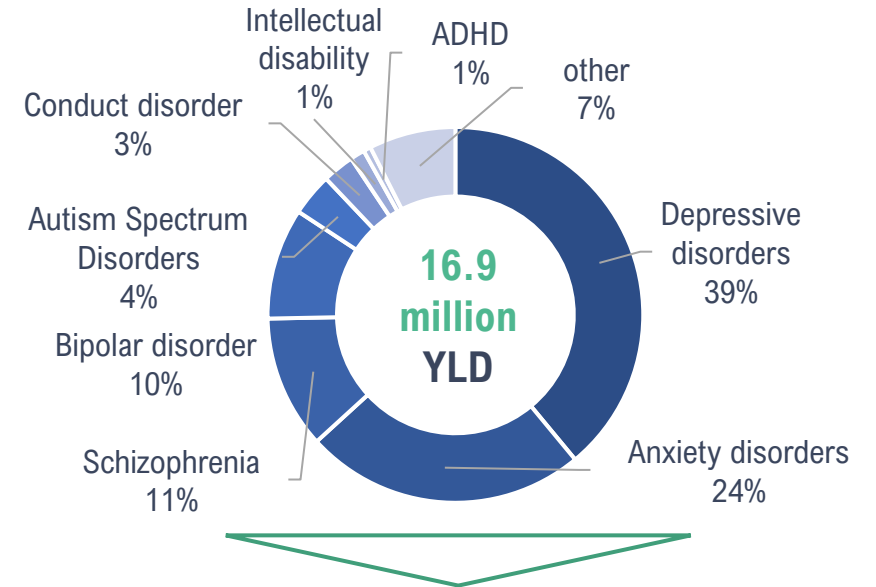
KPI	Unit of measure	Source
<p>Prevalence (depression, anxiety, schizophrenia, bipolar disorder, autism, ADHD, conduct disorders and intellectual disorders)</p>	Rate per 100,000 inhabitants	Global Burden of Disease, databases of National Statistic Institutes of Member States, official platforms of scientific associations
<p>Disability - Years Lived with Disability (mental and behavioral disorders for general population and <20 years)</p>	Rate per 100,000 inhabitants	Global Burden of Disease
<p>Mortality (mental and behavioral disorders and suicide)</p>	Standardized rate per 100,000 inhabitants	Eurostat and databases of National Statistic Institutes of Member States, official platforms of scientific associations
<p>Risk factors (smoking and drug use in adults and adolescents, alcohol abuse in adults, bullying in young people and sexual abuse)</p>	<p>% Rate per 100,000 inhabitants</p>	Eurostat, European Monitoring Center for Drugs and Drug Addiction, Global Burden of Disease and databases of National Statistic Institutes of Member States, official platforms of scientific associations

Prevalence of Mental Health disorders in Europe and its burden of disease

Prevalence of Mental Health disorders in Europe (per 100.000 inhabitants), 2019



Distribution of Years-Lived-With-Disability - YLD- by mental disorder (%), 2019

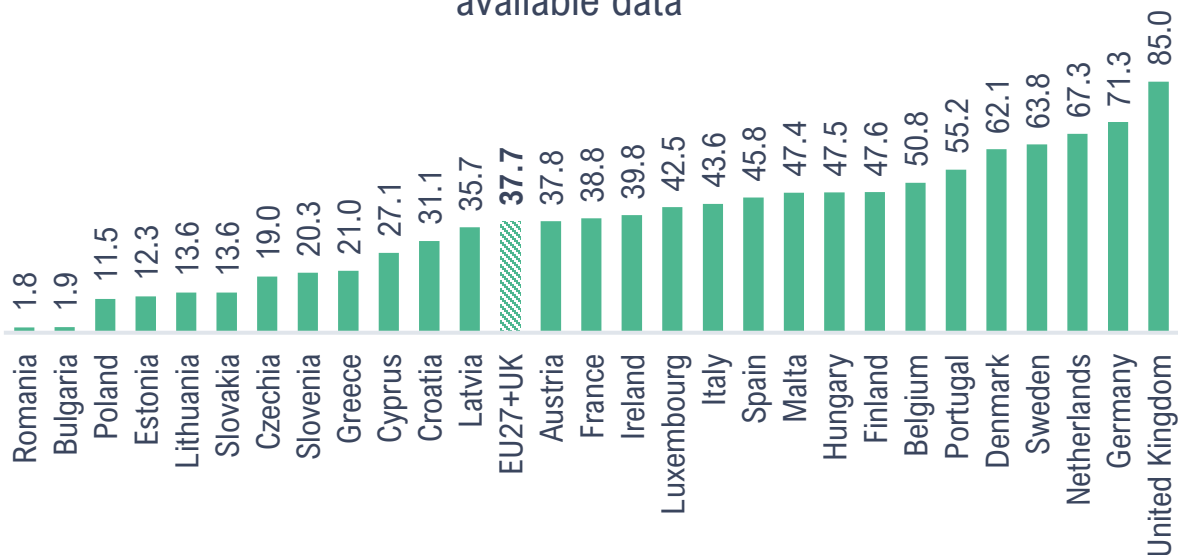


In Europe, COVID-19 pandemic triggered a **+25% increase in prevalence of anxiety and depressive disorders**

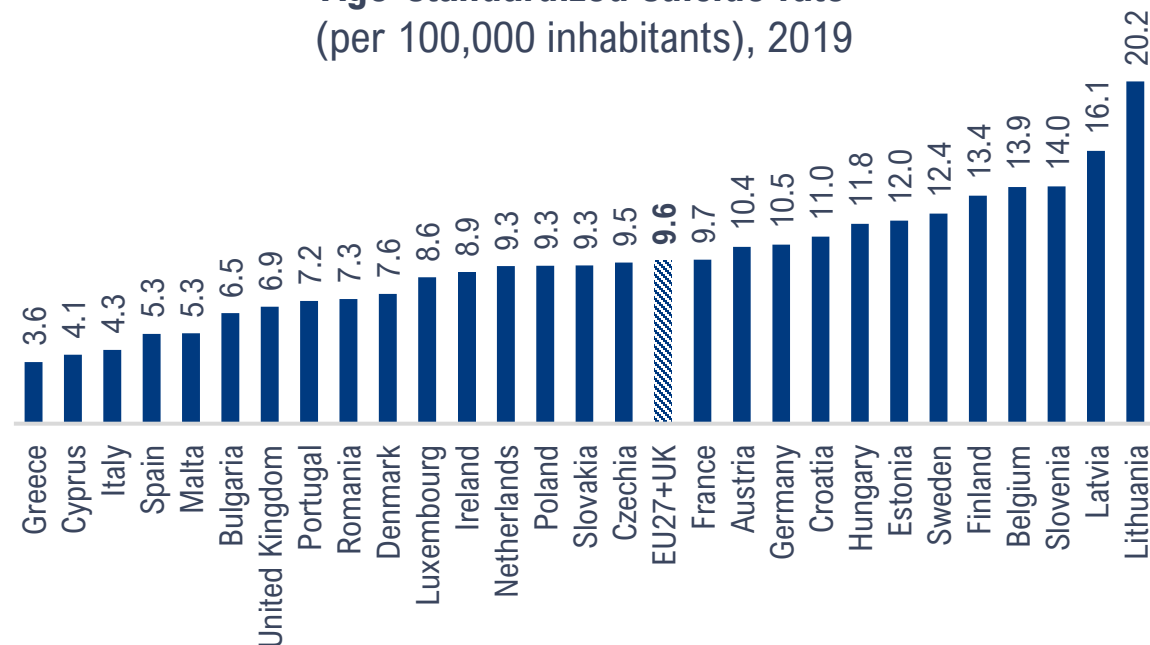
>1 out of 6 people are affected by Mental Health disorders

- Mental Health disorders rank **2nd** among the most **common disabling non-communicable diseases**
- The scenario is **projected to worsen given the increased prevalence rate** due to the COVID-19 pandemic

Standardized death rate of mental and behavioral disorders in European Countries (per 100,000 inhabitants), 2020 or last available data



Age-standardized suicide rate (per 100,000 inhabitants), 2019



Over 235,000 (approximately 4% of all deaths) **annual deaths** due to **mental and behavioral disorders** in Europe



- In the WHO-Europe region, poor mental health is responsible for **140,000 deaths per year by suicide**:
 - 6th cause of death** in the population aged <70 years
 - 4th cause of death** in the population below <20 years

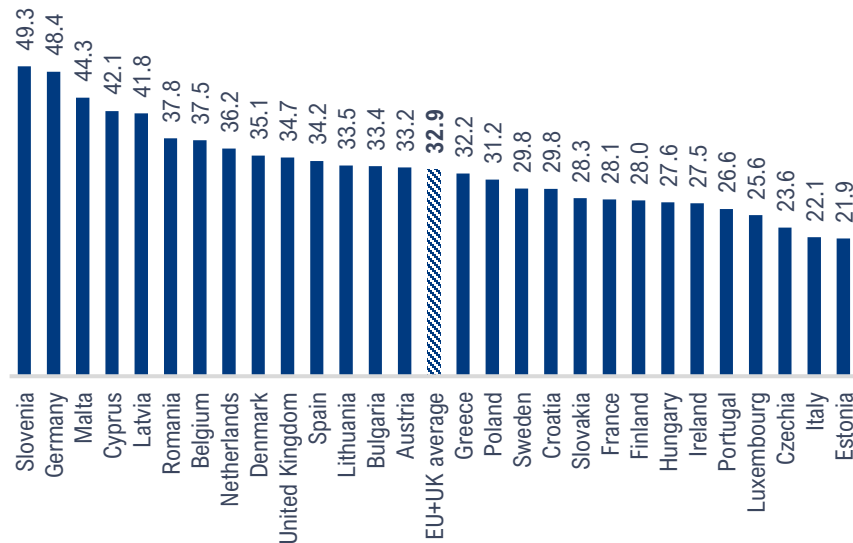
The pandemic, current socio-economic uncertainties and geopolitical conflicts (e.g. war in Ukraine) are responsible for increased uncertainty, insecurity, grief and loss. The effects of these impactful events on people's mental health are significantly high

Addictive behaviors, bingeing and episodes of abuse of alcohol, tobacco and drugs are frequently related and represent **major signaling factors of incoming or ongoing Mental Health disorders.**

32.9% of people in Europe reported having had **heavy episodic drinking** in the previous months



Alcohol abuse (% of the population who report heavy episodic drinking in the previous 30 days), 2020



700,000 deaths per year across EU
Countries with a **higher share of male reporting** daily smoking



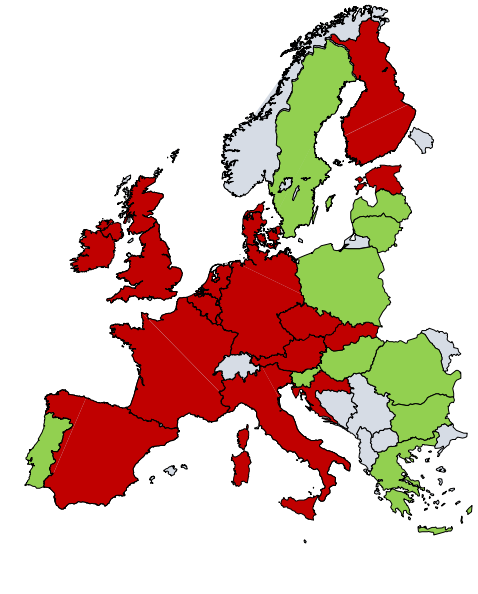
Smoking (% of the population aged 15 years and over who are daily smokers), 2020 or last year available



Almost **16.9%** of young adults make use of **illicit drugs** regularly



Drug use (% of the population having used any illicit drug over lifetime), 2021



- We need a **public mental health approach**
- **Evidence-based, cost-effective** public mental health (PMH) interventions exist
- **Primary Prevention** at forefront
- **Inclusion of understudied environmental factors:** natural, climate change, urban environment, political and socio-economic variables
- **Worse Mental Health outcomes after COVID-19** (we need to deepen the value and commitment we give to mental health)