European health information
WHO/Europe's tools and practice

Dr David Norvillo Ortiz
Dr Christian Gapp

Division of Information, Evidence, Research and Innovation
28 November 2018

World Health Organization
REGIONAL OFFICE FOR Europe

Organisation mondiale de la Santé
BUREAU RÉGIONAL DE L' Europe

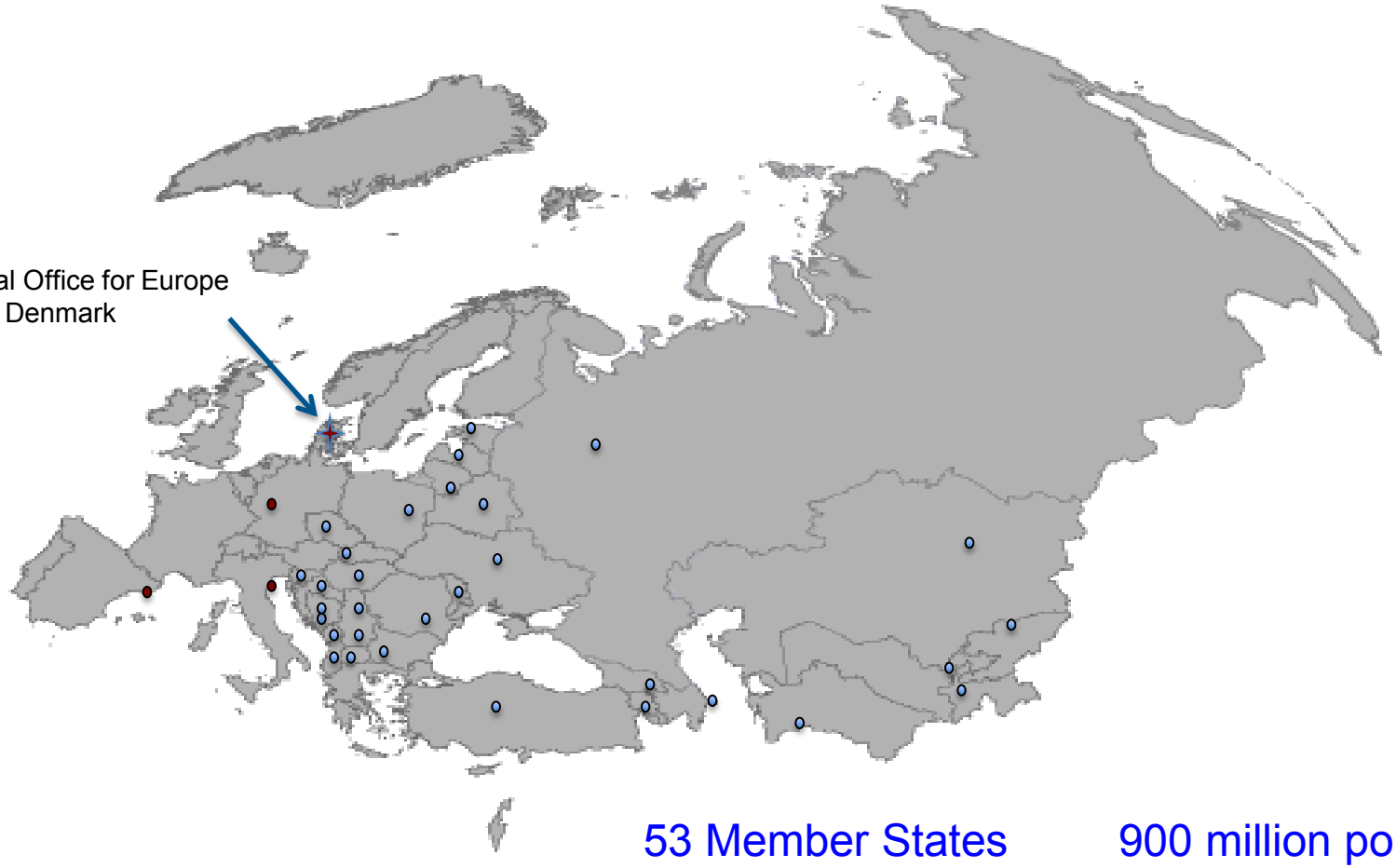
Weltgesundheitsorganisation
REGIONALBÜRO FÜR Europa

Всемирная организация здравоохранения
Европейское региональное бюро

Introduction

The WHO European Region

WHO Regional Office for Europe
Copenhagen, Denmark



53 Member States

900 million population

World Health Organization
REGIONAL OFFICE FOR Europe

Organisation mondiale de la Santé
BUREAU RÉGIONAL DE L' Europe

Weltgesundheitsorganisation
REGIONALBÜRO FÜR Europa

Всемирная организация здравоохранения
Европейское региональное бюро

European Health 2020 policy

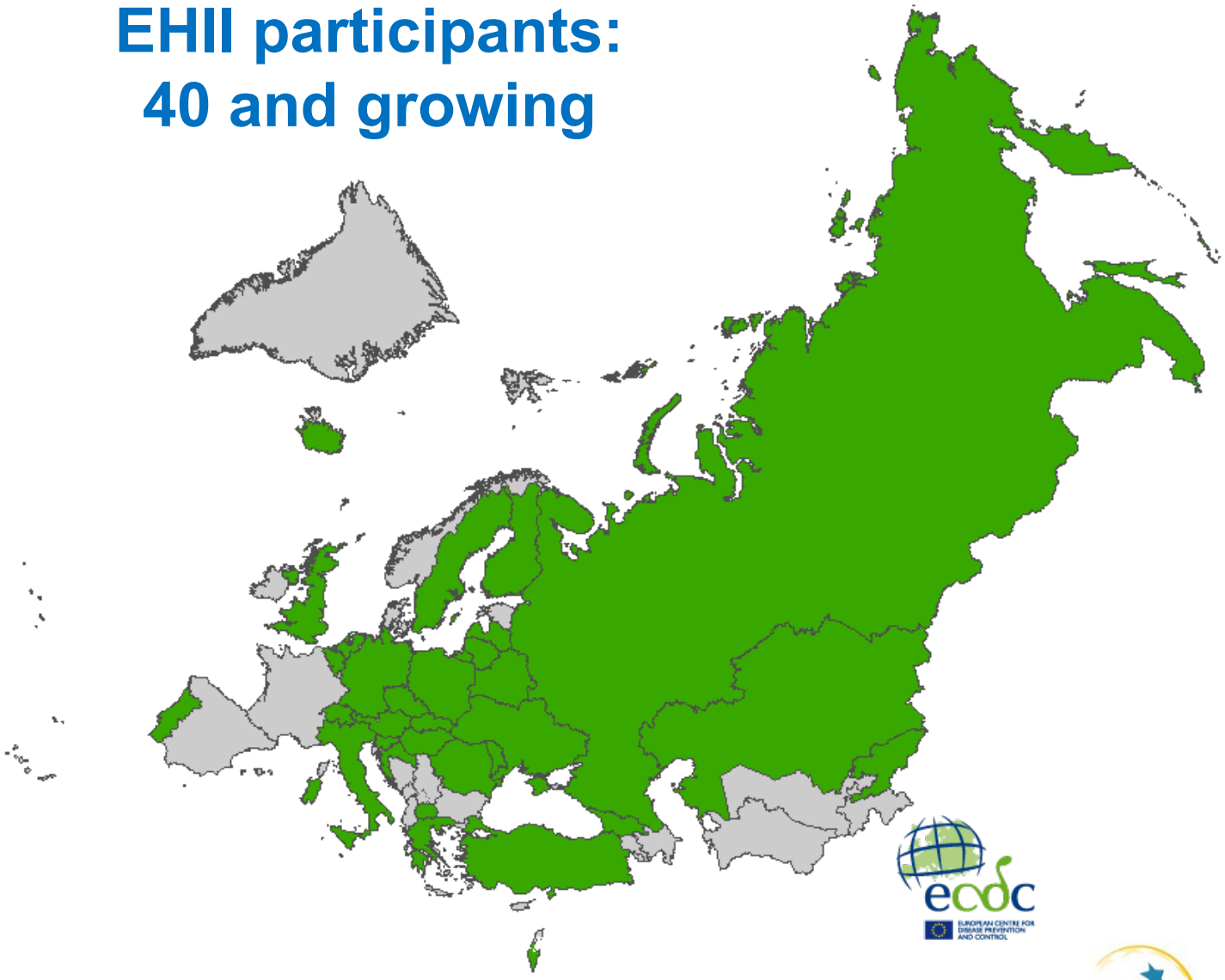
- Emphasis on health and well-being
- The right to health and access to care
- People at the centre
- Addressing the determinants of health
- Whole of society approach
- Whole of government approach
- Importance of partnerships

European Health Information Initiative (EHII)

- Provides overarching coordination & guidance for health information activities WHO Europe;
- Multi-partner network;
- 11 Steering Group meetings held to date.

World Health Organization REGIONAL OFFICE FOR Europe
Organisation mondiale de la Santé BUREAU RÉGIONAL DE L' Europe
Weltgesundheitsorganisation REGIONALBÜRO FÜR Europa
Всемирная организация здравоохранения Европейское региональное бюро

EHII participants: 40 and growing



Austria
Belarus
Belgium
Croatia
Czechia
Finland
Georgia
Germany
Greece
Hungary
Iceland
Israel
Italy
Kazakhstan
Kyrgyzstan
Latvia
Lithuania
Malta
Netherlands
Poland
Portugal
Republic of Moldova
Romania
Russian Federation
Slovakia
Slovenia
Sweden
Switzerland
The former Yugoslav Republic of Macedonia
Turkey
Ukraine
United Kingdom

ecdc
EUROPEAN CENTRE FOR DISEASE PREVENTION AND CONTROL

European Commission

Wellcome Trust

EuroHealthNet

EUPHA European Public Health Association

IHME Institute for Health Metrics and Evaluation

The Commonwealth

World Health Organization
REGIONAL OFFICE FOR Europe

European Health Information Initiative

Measurement	Access	Capacity Building	Networks	Strategy	Communication
H2020, SDGs, JMF	HFA, Gateway, CHI, Panorama	Autumn School, Advanced Course	CARINFONET, EVIPNet, SCHIN, EBoDN, SEEHN, Research	Support tool, European action plan	

Data collection

WHO mandate for health information

Constitution of the World Health Organization

- Article 2: In order to achieve its objective, the functions of the Organization shall be (extract from core functions of the WHO):
  - (…)
  - (*f*) to establish and maintain such *administrative and technical services* as may be required, *including epidemiological and statistical services*;
  - (*q*) to *provide information*, counsel and assistance in the field of health;
  - (*s*) to establish and revise as necessary *international nomenclatures* of diseases, of causes of death and of public health practices;

International sources of health related information

- WHO different technical programs: http://www.who.int. -> Search for topic of interest (e.g. Tuberculosis, Health workforce…);
- WHO Global Health Observatory: http://www.who.int/gho/;
- WHO classifications: The WHO Family of International Classifications: http://www.who.int/classifications/en/;
- WHO Regional offices (e.g. WHO Europe: http://www.euro.who.int);
- UN Data: http://data.un.org;
- World Bank: http://data.worldbank.org;
- Institute of Health Metrics and Evaluation (Global Burden of Disease - GBD, Global Health Data Exchange - GHDx): http://www.healthdata.org.

Databases at WHO Regional Office for Europe

European Health for All database (HFA-DB) - Indicators: 611
Since the mid-1980s, Member States of the WHO European Region have been reporting essential health-related statistics to the Health for All (HFA) family of databases, making it one of WHO's oldest sources of data.

European mortality database (MDB) - Indicators: 852
European mortality database allows age- and sex-specific analysis of mortality trends by broad disease-groups, as well as dis-aggregated to 67 specific causes of death. Data reach back to 1980. The data is taken from the WHO Global Mortality database.

Health 2020 indicators - Indicators: 49
Health 2020 core indicators were agreed by the WHO European Region Member States for monitoring progress towards the Health 2020 targets.

Other databases and information at WHO Europe.

Data validation

An approach to health data validation

WOLFENSON, L. B., AND WORTH, N. An approach to health data validation. Comput. Biomed. Res. l3, 501 (1980).

An example… Validation of HFA data

1. Modification of data validation procedures
2. Production and compilation of LaTeX files
3. Draft the validation questions
4. Data finalization
5. Update

Data standardisation

Standardization… practical steps

- Use of international definitions, making international comparability of data possible
- Good quality and translation in the metadata, including data and metadata validation procedures in place.
- Coding using international classifications
- Consistency in the use of a new source of data or a different methodology (avoiding breaks in time series)
- Use of a unified template and/or form for collecting information and data format

Reporting

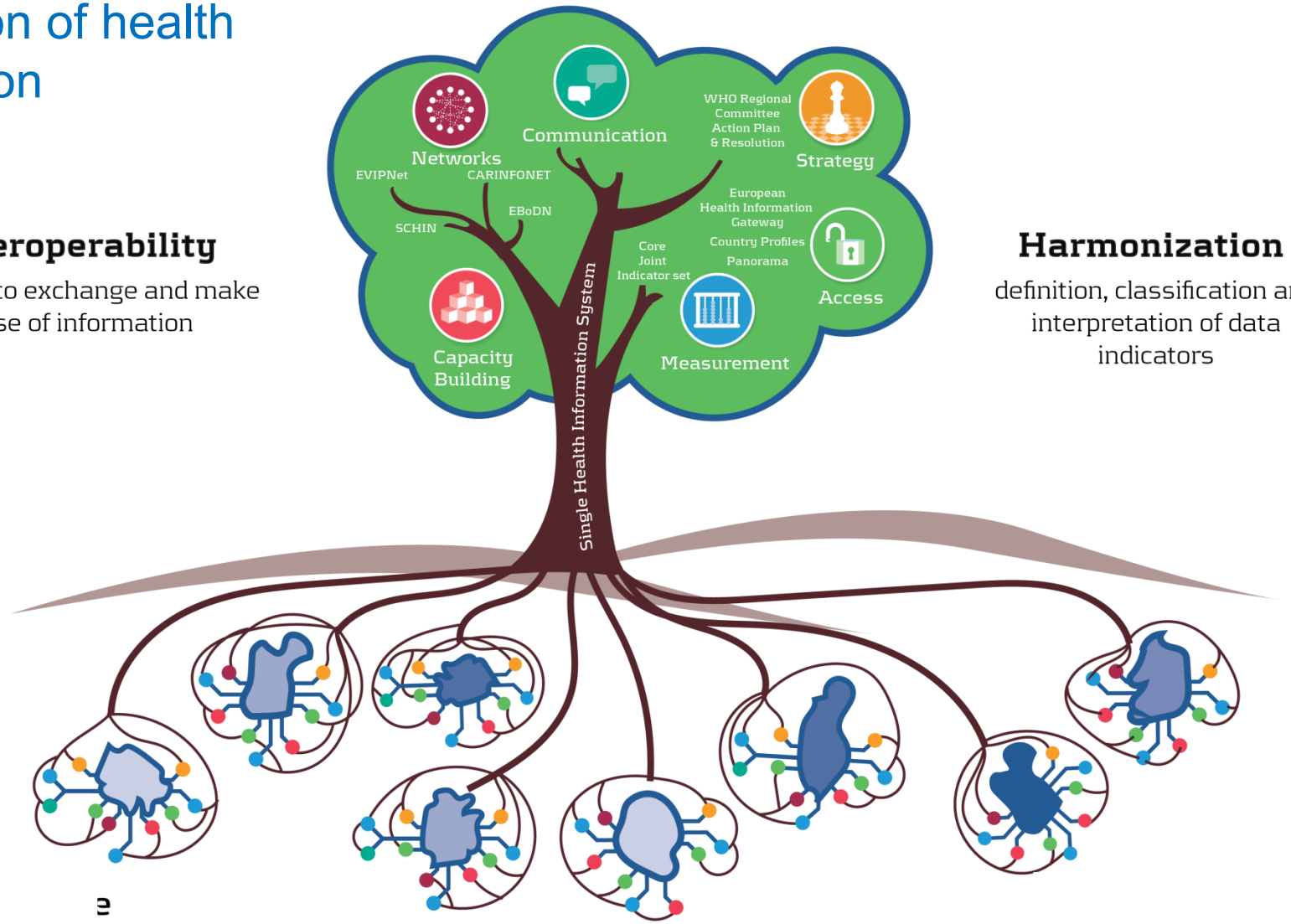
Current situation of health reporting in Europe

European
Health
Information
Initiative

The future: Integration of health information

Interoperability

Ability to exchange and make use of information



Harmonization

definition, classification and interpretation of data indicators

(a) promote and enhance the work of the EHII to harmonize and lead health information efforts in the European Region, ensuring collaboration with the European Union and the Organisation for Economic Co-operation and Development and their affiliated institutions in working towards a single integrated health information system for the WHO European Region;

2016

The reporting challenge for countries:

HEALTH 2020

THE GLOBAL GOALS
For Sustainable Development

World Health Organization
GLOBAL ACTION PLAN
FOR THE PREVENTION AND CONTROL OF NONCOMMUNICABLE DISEASES
2013-2020

6 targets

37 indicators

19 core

18 additional

17 goals

169 targets

244 indicators
(26 indicators under SDG3)

9 targets

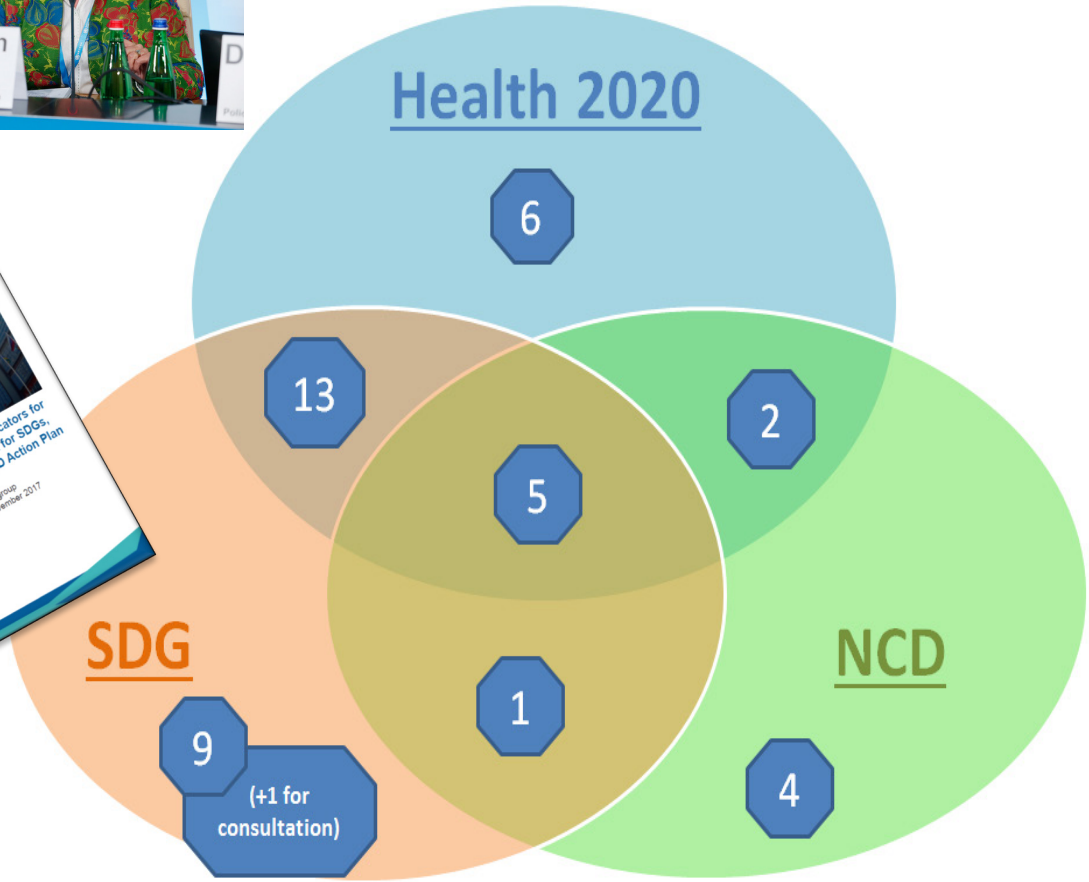
25 indicators

UNECE: even most developed countries
- Can only report on 50% of SDG indicators;
- Can only cover 76 out 169 targets;
- Joint Framework to be proposed.

World Health Organization
REGIONAL OFFICE FOR Europe

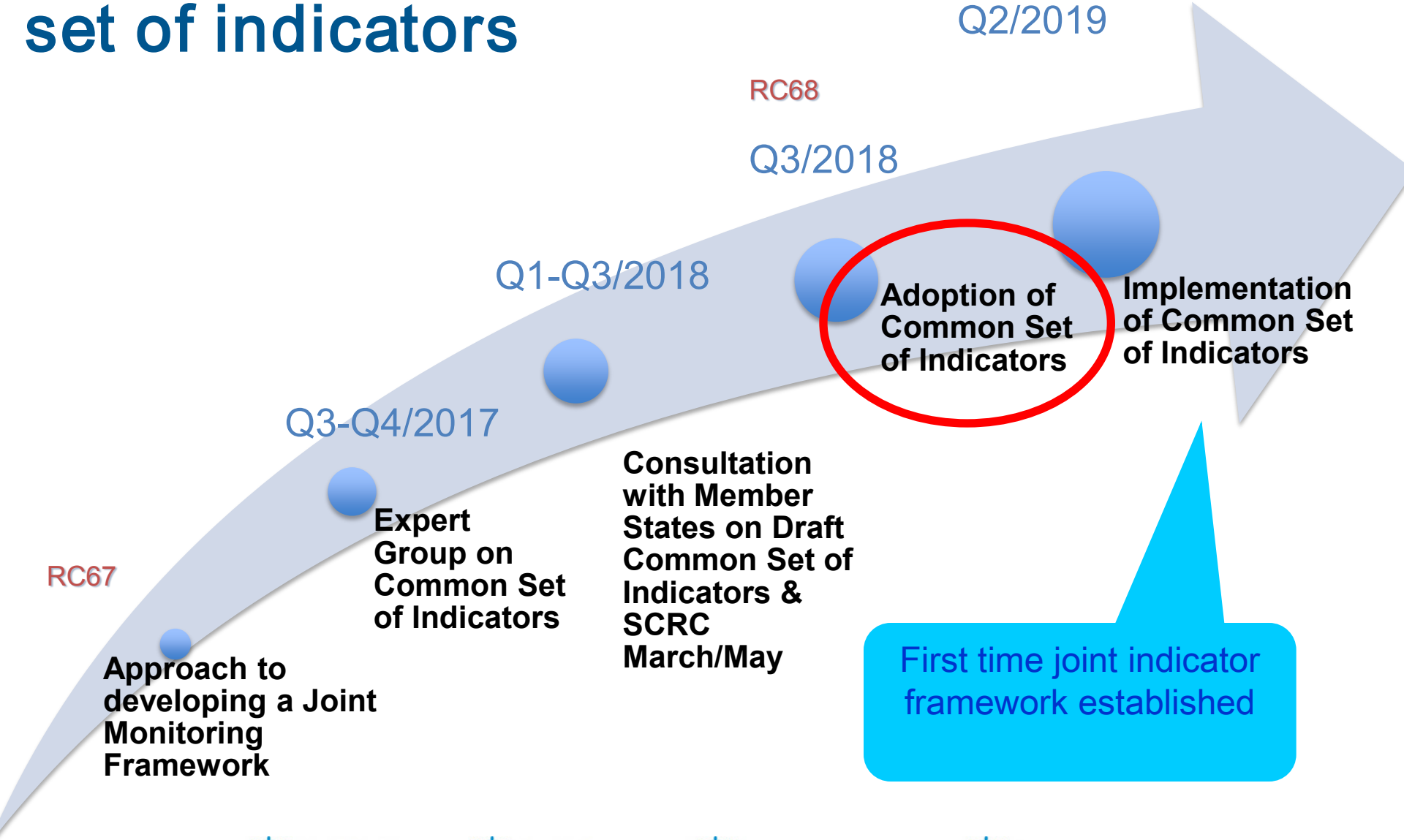
Organisation mondiale de la Santé
BUREAU RÉGIONAL DE L' Europe

Coverage of indicators across frameworks and Public Health domains



Domains (number of indicators)
Mortality and health expectancies (**8**)
Health behaviours and risk factors (**9**)
Social determinants of health (**5**)
Morbidity – NCDs and communicable diseases (**7**)
Health systems (**4**)
Well-being (**3**)
Environmental health (**2**)
Health policy (**2**)

Process to arrive at the JMF set of indicators



European health reports

- Flagship corporate publication;
- Every 3 years;
- Reporting on implementation of Health 2020 (baseline 2010).

Having crossed the half-way point of the implementation period of Health 2020, the 2018 report reflects on the effect Health 2020 has had on the Region, and outlines any aspects that may be unfinished by 2020 and beyond.

68th session of the WHO Regional Committee for Europe
Rome, Italy, 17–20 September 2018

Some key outcomes:

– To **adopt and implement the Joint Monitoring Framework** in the context of the roadmap to implement the 2030 Agenda for Sustainable Development, building on Health 2020, the European policy for health and well-being, EUR/RC68(1).

– To review all existing core indicators, in particular the **Health 2020 indicators** and enter into a second phase indicator development in collaboration with the EC and the OECD in the coming biennium.

The WHO European health information Gateway

World Health Organization
REGIONAL OFFICE FOR Europe

Organisation mondiale de la Santé
BUREAU RÉGIONAL DE L' Europe

Weltgesundheitsorganisation
REGIONALBÜRO FÜR Europa

Всемирная организация здравоохранения
Европейское региональное бюро

WHO Europe's tools to access Data

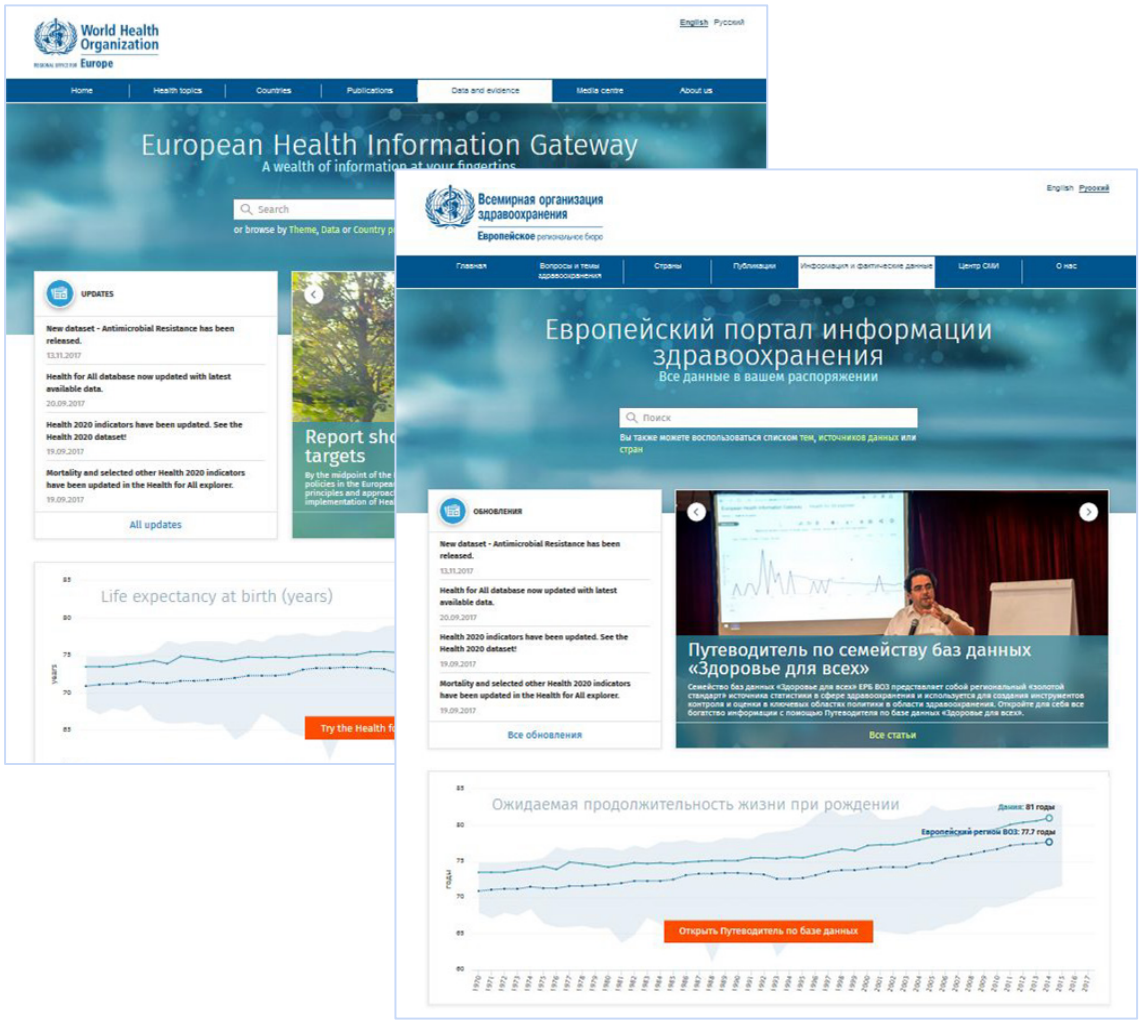
gateway.euro.who.int

- Public health thematic overviews
- Datasets
- Country profiles
- Search

gateway.euro.who.int

A bilingual, interactive one-stop health information shop

- For policy-makers
- Media
- The general public
- WHO staff



The Gateway makes data accessible

SDR, Influenza, per 100 000

Exportable data and graphs

Share on social media

Indicator full name: Influenza, per 100 000 population, by sex (age-standardized death rate)

Unit: deaths per 100 000

Dimensions:

- Age group (AGE_GRP_LIST)
- Country (COUNTRY)
- Supranational group of countries (COUNTRY_GRP)
- Sex (SEX)
- Subnational country codes for HFA-MDB (SUBNATIONAL_MDB)
- Year of measure (YEAR)

Years data is available: 1979—2016

Indicator is part of data set(s):

MDB

Last updated: 14 June 2018

Export to: CSV Excel

Countries with no data (2):

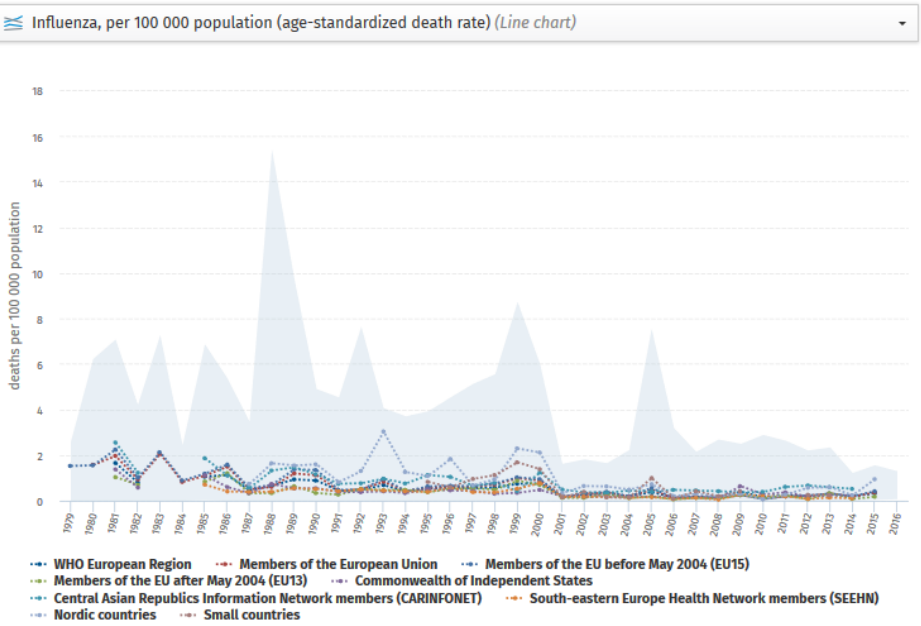
- Andorra
- Monaco

(Sub)regional averages available for:

- WHO European Region
- Members of the European Union
- Members of the EU before May 2004 (EU15)
- Members of the EU after May 2004 (EU13)
- Commonwealth of Independent States
- Central Asian Republics Information Network members (CARINFONET)
- South-eastern Europe Health Network members (SEEHN)
- Nordic countries
- Small countries

View in HFA explorer

Explore this indicator's data in a specialized tool



See full graph

Data set notes

Indicator notes

Country notes

No information

Interactive graphs and infographics, reusable on other web sites

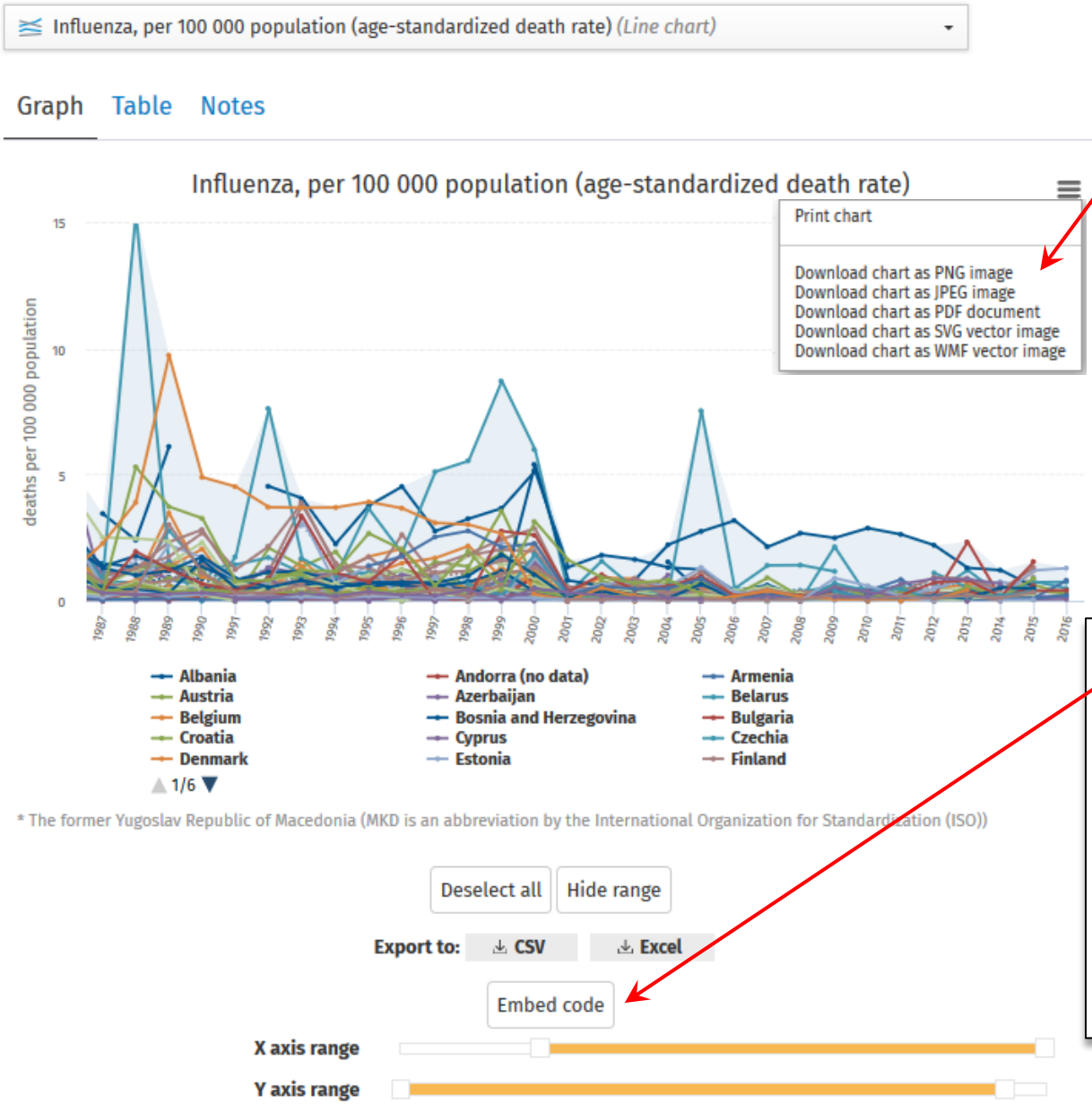
World Health Organization REGIONAL OFFICE FOR Europe

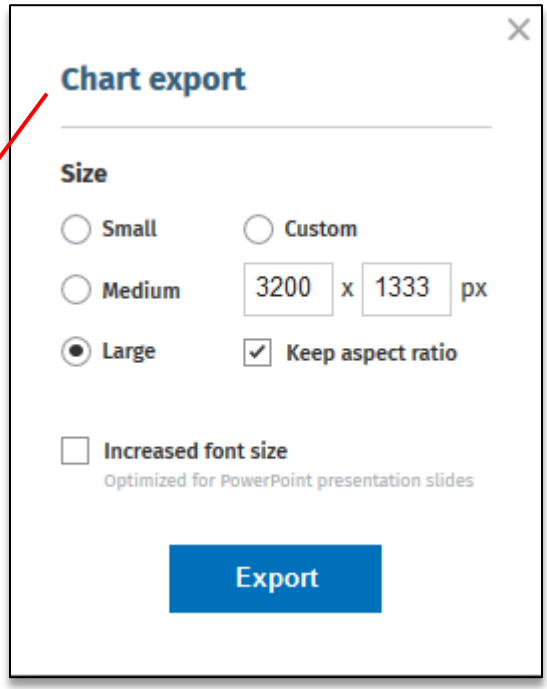
Organisation mondiale de la Santé BUREAU RÉGIONAL DE L' Europe

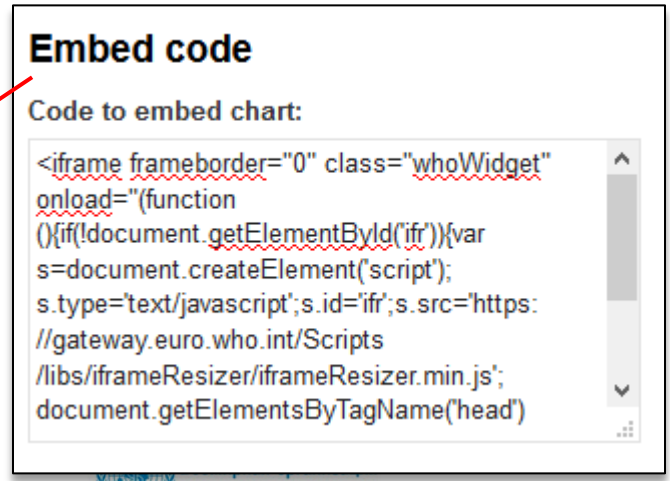
Weltgesundheitsorganisation REGIONALBÜRO FÜR Europa

Всемирная организация здравоохранения Европейское региональное бюро

Export and share







здравоохранения
Европейское региональное бюро

Why do DW and API matter?

Source of up-to-date data in all tools

- Gateway, mobile app, interactive infographics

Standardised data format and coding

- Download Excel overview of all data deposited into the DW

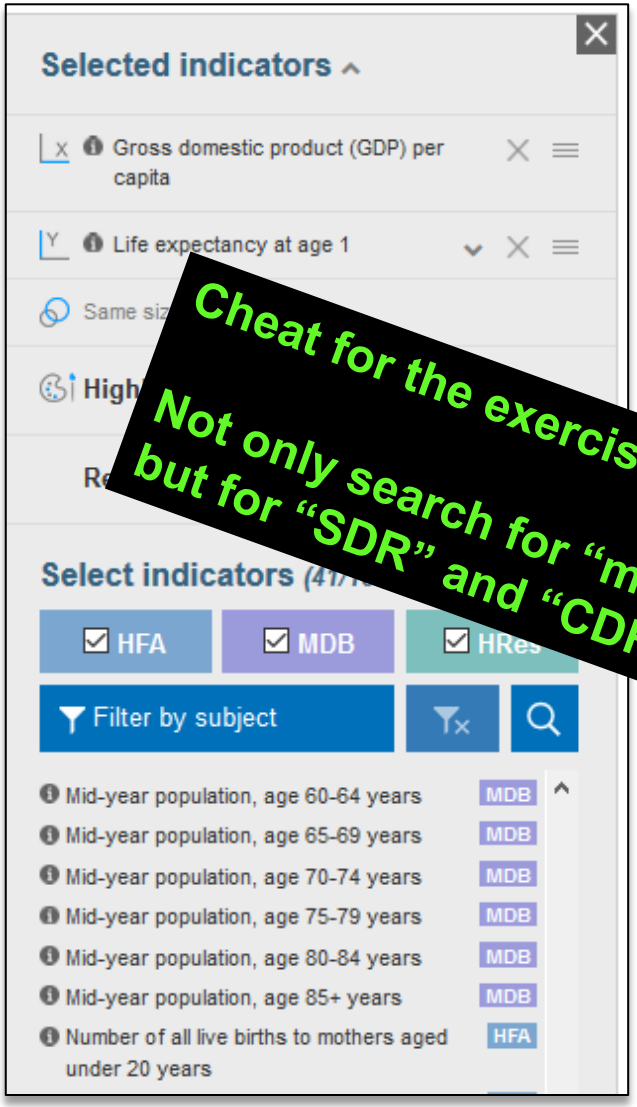
Easily access current data with statistical software or a script

- See “API specifications”

The Gateway consists of:

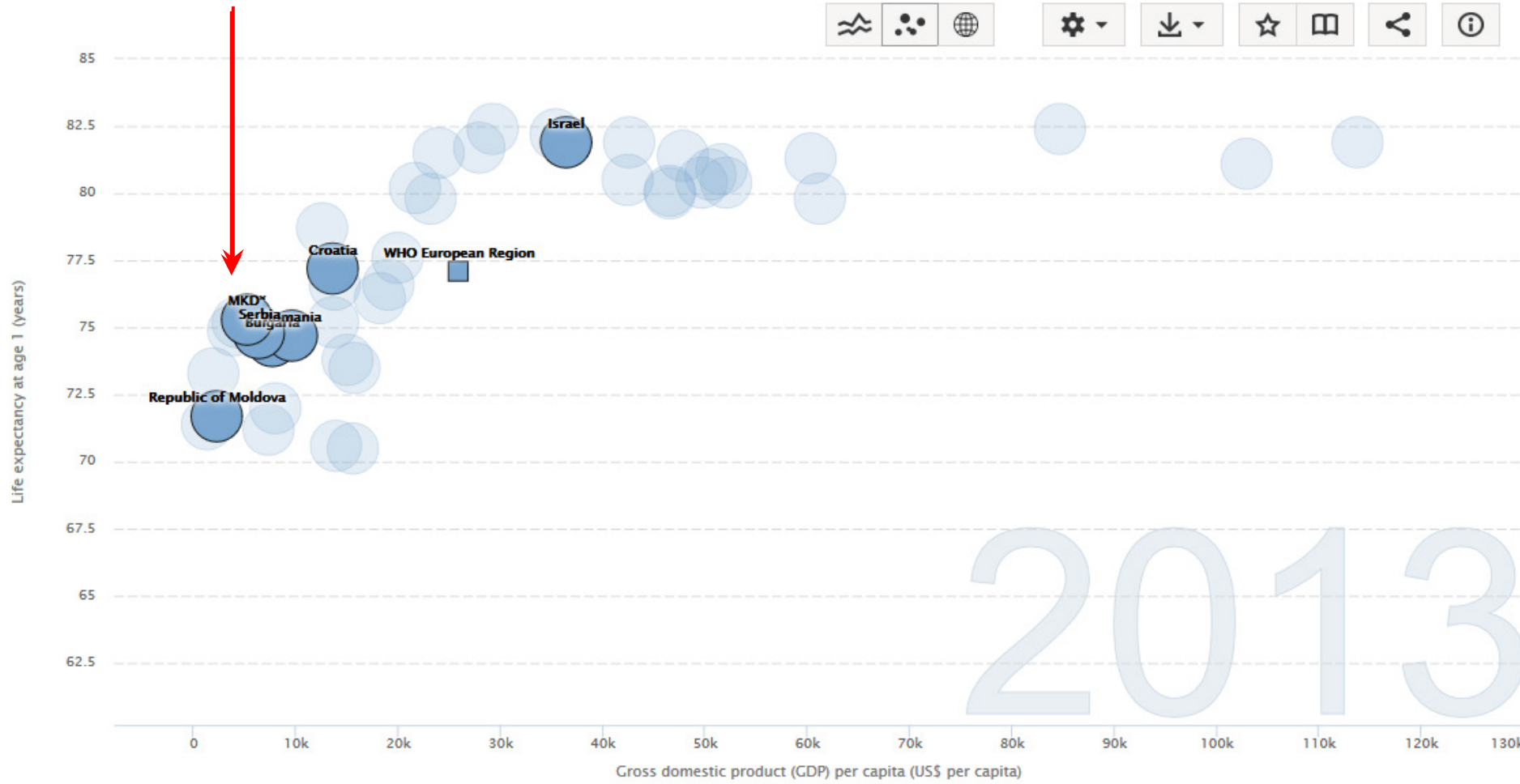
- HFA explorer
- Datasets, indicators
- Country Profiles
- Search functionality
- Themes
- Resources
- Tutorials
- Mobile app
- Data Warehouse & API

Explore the Explorer



- Search across 1500+ indicators in 3 databases
- Select indicator, country, subregional average
- Select graph
- Highlight countries

Highlight countries



No data available (10 countries): Albania, Andorra, Azerbaijan, Bosnia and Herzegovina, Greece, Monaco, Montenegro, San Marino, Tajikistan, Ukraine.

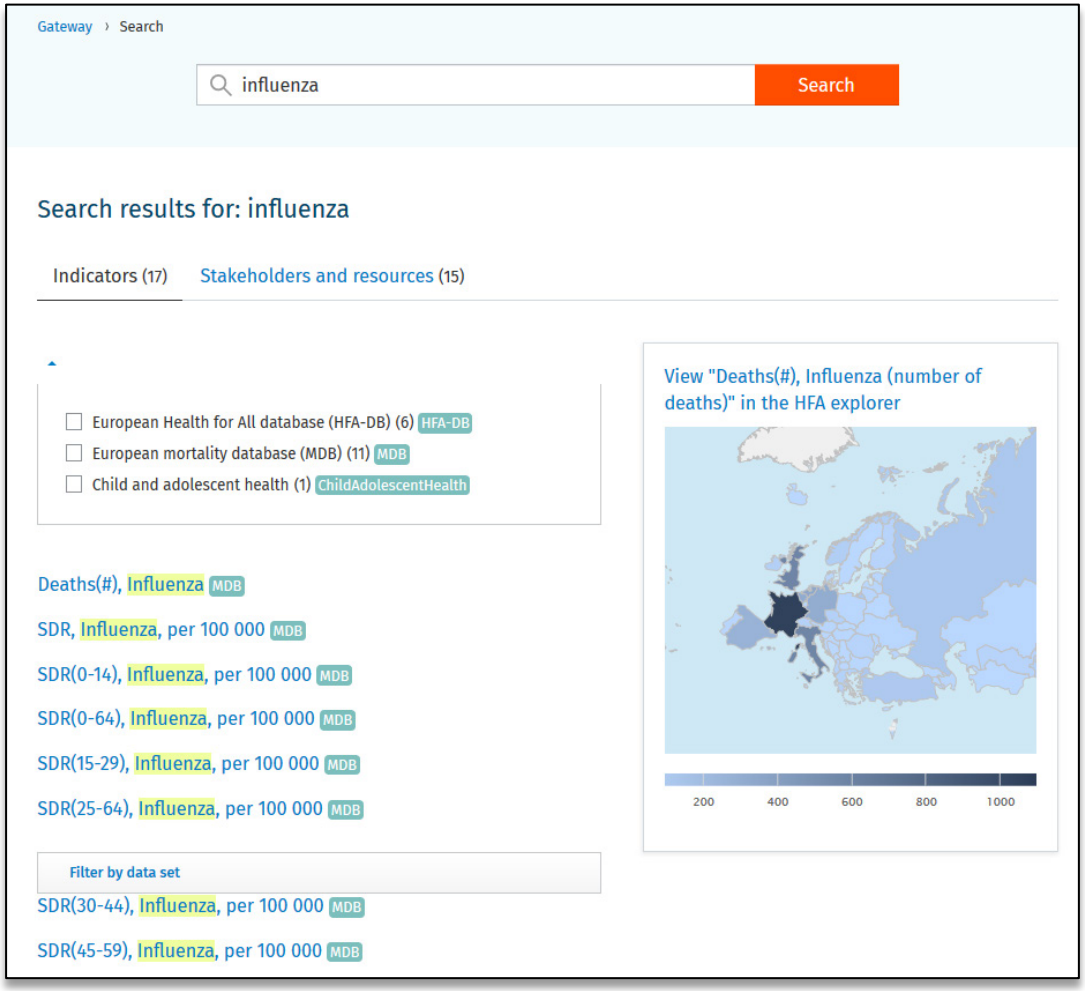
1970 2016 2013

Animated walk-through across years

Show latest data available

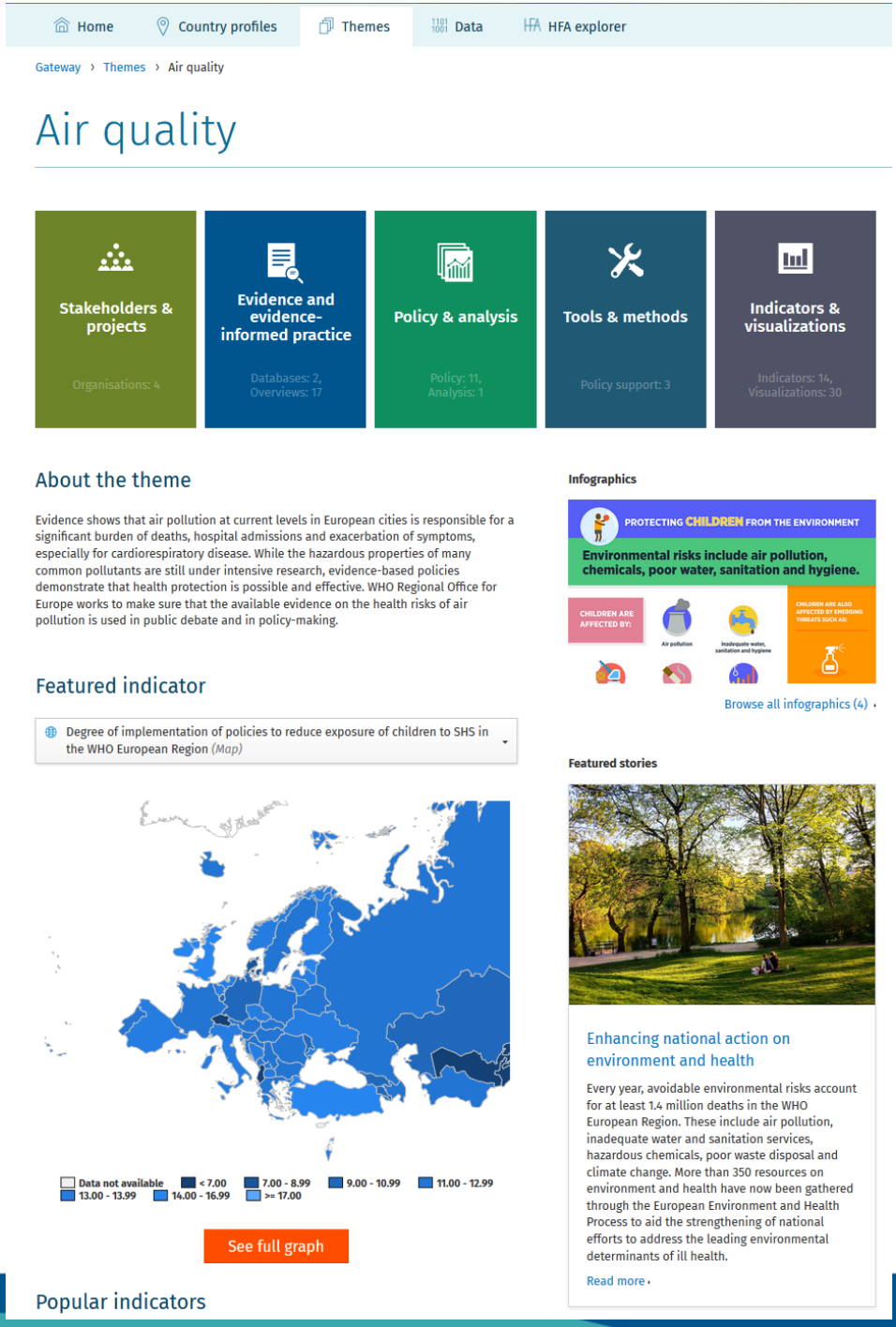
Search functionality

- Search by Country, indicators, within datasets, and qualitative resources.
- Intuitive search provides a country's results, and compares against regional averages.



Themes

1. Focus on specific area
2. Most important documents, stakeholders, and resources
3. Graphs and indicators
4. Organizations and projects
5. Evidence and evidence-informed practice
6. Policy and analysis
7. Tools and methods



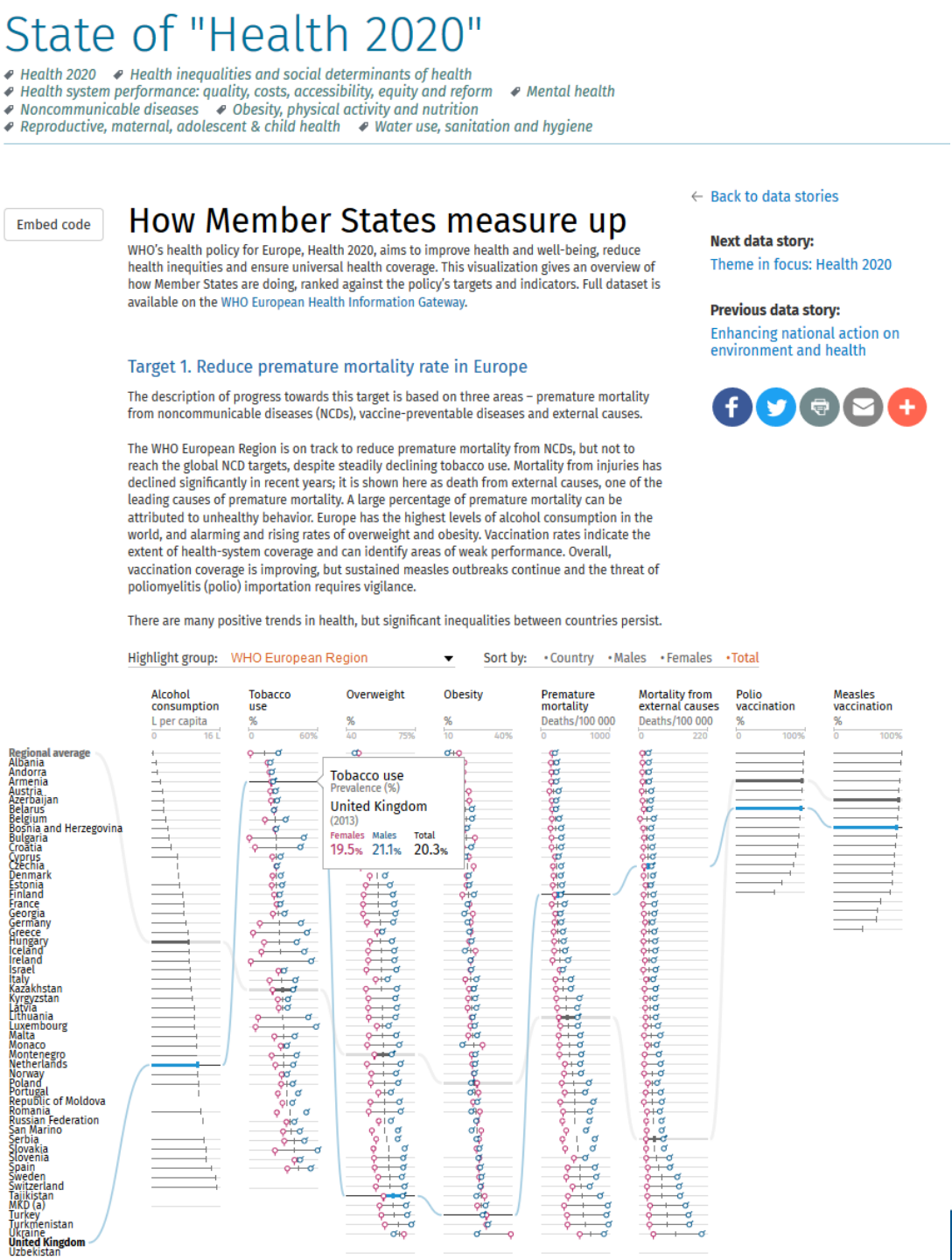
World Health Organization
REGIONAL OFFICE FOR Europe

Organisation mondiale de la Santé
BUREAU RÉGIONAL DE L' Europe

State of “Health 2020”

- An overview of how Member States are doing, ranked against the policy’s targets and indicators, which had been adopted by all European Member States.

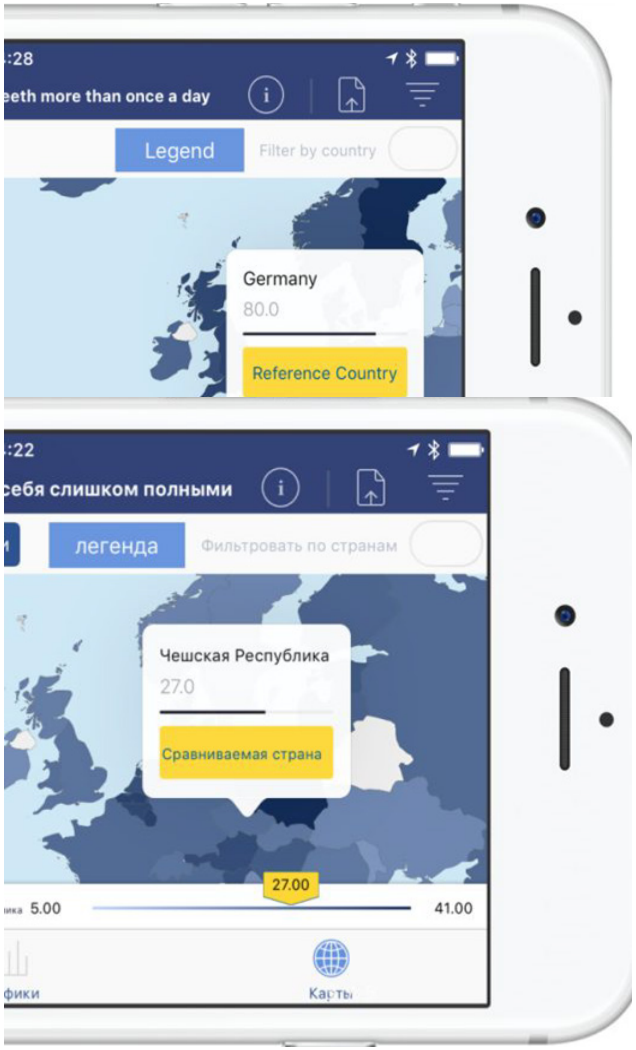
- Further, data is available in the Health for All explorer.



World Health Organization
REGIONAL OFFICE FOR Europe

Organisation mondiale de la Santé
BUREAU RÉGIONAL DE L' Europe

European health statistics mobile app



- Updatable statistical reference, also off-line.

Contains essential indicators:

  - Qualitative Health 2020 indicators
  - European Health Report
  - Health behavior in school-aged children report

- Query indicators, compare countries, set reference country, send via email.

Загрузите в App Store

ДОСТУПНО В Google Play

World Health Organization Regional Office for Europe

Organisation mondiale de la Santé Bureau régional de l'Europe

Weltgesundheitsorganisation Regionalbüro für Europa

Всемирная организация здравоохранения Европейское региональное бюро

Why do DW and API matter?

Source of up-to-date data in all tools

- Gateway, mobile app, interactive infographics

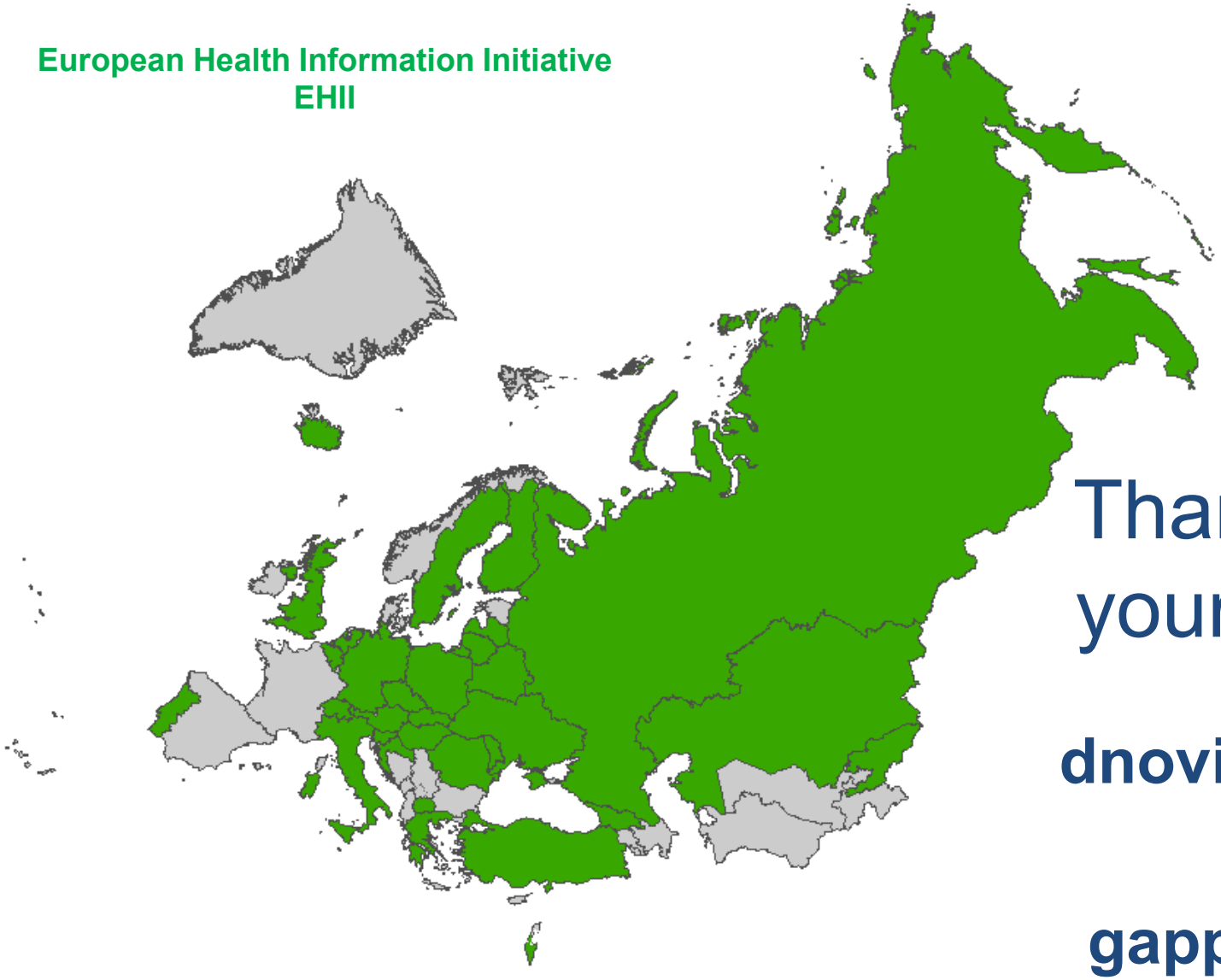
Standardised data format and coding

- Download Excel overview of all data deposited into the DW

Easily access current data with statistical software or a script

- See “API specifications”

European Health Information Initiative
EHII



Thank you for your attention

dnovillo@who.int

gappc@who.int

Division of Information, Evidence, Research and Innovation
WHO Regional Office for Europe
UN City, Marmorvej 51
DK-2100 Copenhagen Ø
Denmark

World Health Organization
REGIONAL OFFICE FOR Europe

Organisation mondiale de la Santé
BUREAU RÉGIONAL DE L' Europe

Weltgesundheitsorganisation
REGIONALBÜRO FÜR Europa

Всемирная организация здравоохранения
Европейское региональное бюро