European health information
WHO/Europe’s tools and practice

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Introduction
The WHO European Region

WHO Regional Office for Europe
Copenhagen, Denmark

53 Member States  900 million population
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.
EHII participants: 40 and growing
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](http://www.who.int) -> Search for topic of interest (e.g. Tuberculosis, Health workforce…);
- WHO Global Health Observatory: [http://www.who.int/gho/](http://www.who.int/gho/);
- WHO Regional offices (e.g. WHO Europe: [http://www.euro.who.int](http://www.euro.who.int));
- UN Data: [http://data.un.org](http://data.un.org);
- World Bank: [http://data.worldbank.org](http://data.worldbank.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

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
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;
The reporting challenge for countries:

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.
Coverage of indicators across frameworks and Public Health domains

<table>
<thead>
<tr>
<th>Domains (number of indicators)</th>
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<tbody>
<tr>
<td>Mortality and health expectancies (8)</td>
</tr>
<tr>
<td>Health behaviours and risk factors (9)</td>
</tr>
<tr>
<td>Social determinants of health (5)</td>
</tr>
<tr>
<td>Morbidity – NCDs and communicable diseases (7)</td>
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<tr>
<td>Health systems (4)</td>
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<tr>
<td>Well-being (3)</td>
</tr>
<tr>
<td>Environmental health (2)</td>
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<tr>
<td>Health policy (2)</td>
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Approach to developing a Joint Monitoring Framework

Q3-Q4/2017

Expert Group on Common Set of Indicators

Q1-Q3/2018

Consultation with Member States on Draft Common Set of Indicators & SCRC March/May

Q3/2018

Adoption of Common Set of Indicators

Q4/2018-Q2/2019

Implementation of Common Set of Indicators

First time joint indicator framework established
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.
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
WHO Europe’s tools to access Data

DATA WAREHOUSE
- Databases – European Health for All database
- Indicators for specific policy frameworks and action plans
- Health 2020 Reports – eHealth report

DATA SOURCE
- API for import
- Databases
- Data sources
- Health information systems

ANALYSIS
1. The Gateway
2. Mobile App
3. Visualisations and Data Stories
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

Exportable data and graphs

SDR, Influenza, per 100 000

Interactive graphs and infographics, reusable on other web sites

Share on social media
Export and share

Influenza, per 100,000 population (age-standardized death rate) (line chart)

Chart export
- Size:
  - Small
  - Custom
  - Medium 3200 x 1333 px
  - Large
    - Keep aspect ratio

- Print chart
- Download chart as PNG image
- Download chart as JPEG image
- Download chart as PDF document
- Download chart as SVG vector image
- Download chart as WMF vector image

Embed code
Code to embed chart:

```
<iframe frameborder="0" class="whoWidget" onload="(function(){if(document.getElementById('ifr')){var s=document.createElement('script');s.type='text/javascript';s.id='ifr';s.src='https://gateway.euro.who.int/Scripts/libs/iframeResizer/iframeResizer.min.js';document.getElementsByTagName('head')[0].appendChild(s);}})()"></iframe>
```

* The former Yugoslav Republic of Macedonia (MKD) is an abbreviation by the International Organization for Standardization (ISO)
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

Cheat for the exercise
Not only search for “mortality”, but for “SDR” and “CDR”
Highlight countries

Animated walk-through across years

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

[App Store] [Google Play]
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Thank you for your attention
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