



EuroWDC: the European data collection on weekly death counts

Eurostat

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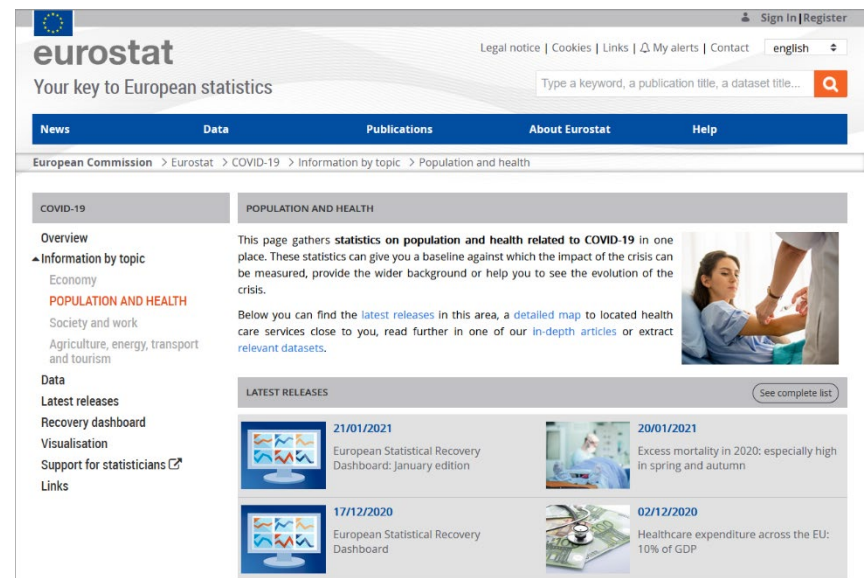
A single entry point on Covid-19

Wide range of related statistics

Focus on population and health



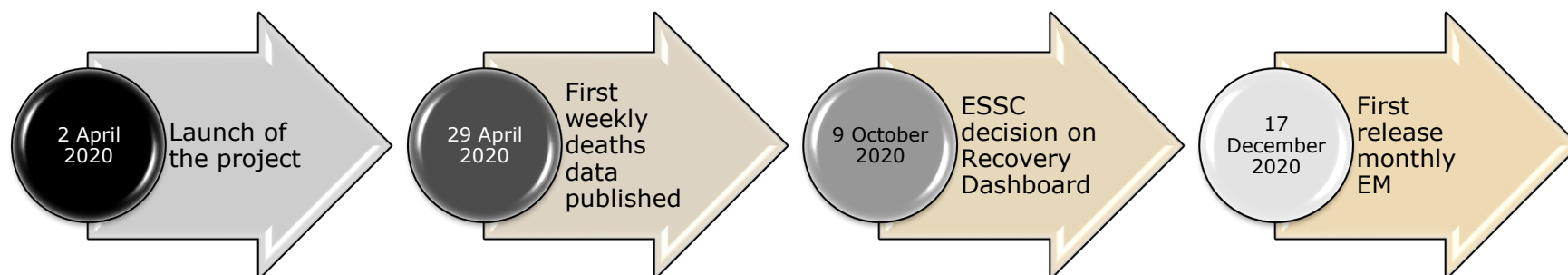
<https://ec.europa.eu/eurostat/web/covid-19/overview>



<https://ec.europa.eu/eurostat/web/covid-19/population-health>

A voluntary data collection on all-causes weekly deaths in Europe

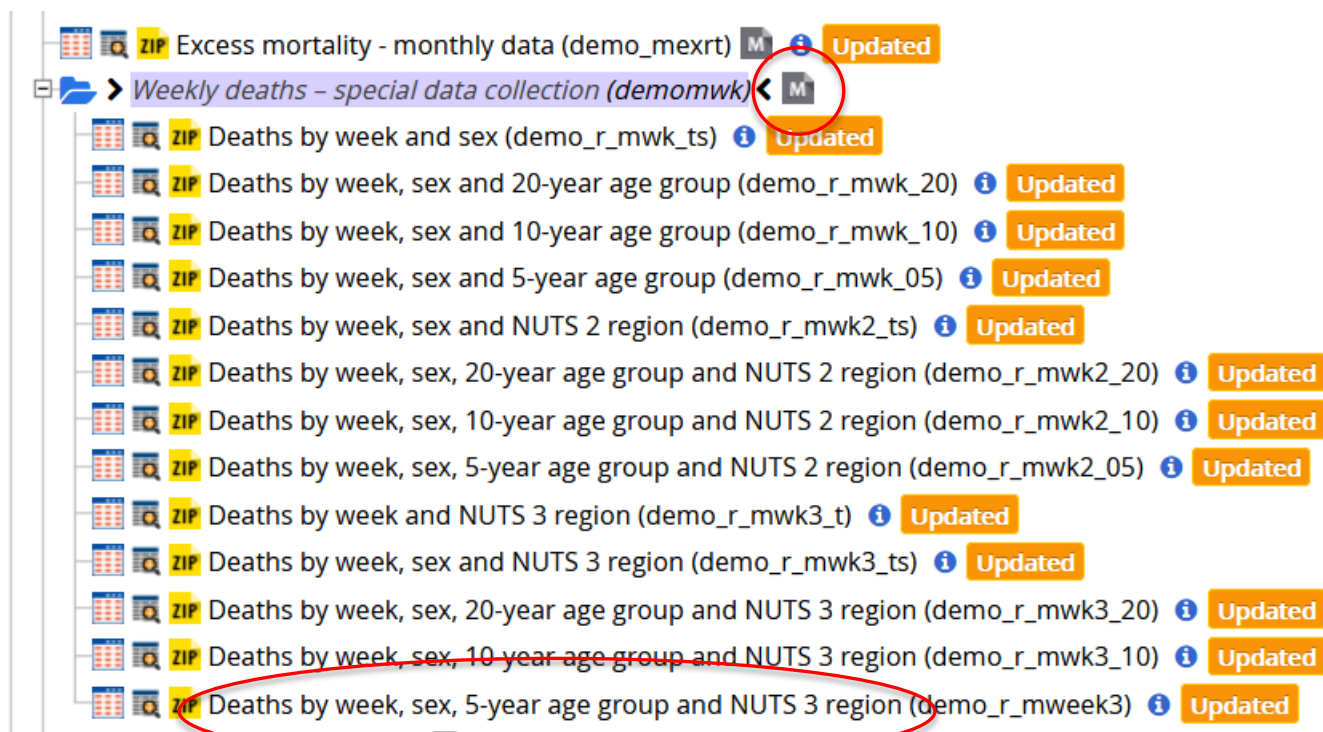
EuroWDC milestones



ESSC: European Statistical
System Committee

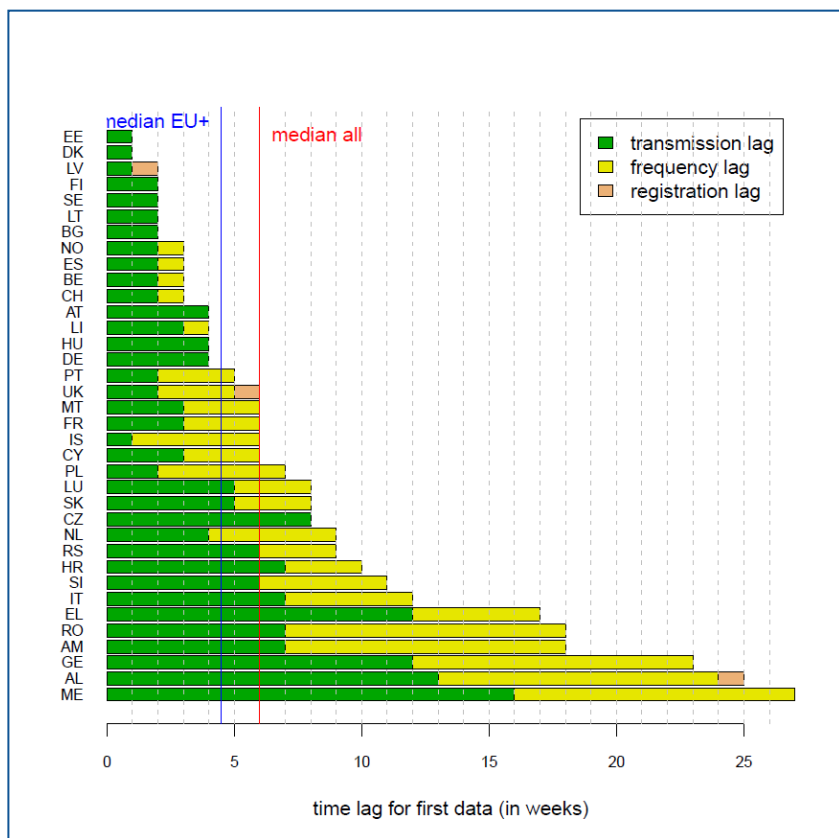
High granularity

https://ec.europa.eu/eurostat/web/population-demography-migration-projections/data/database?node_code=demomwk

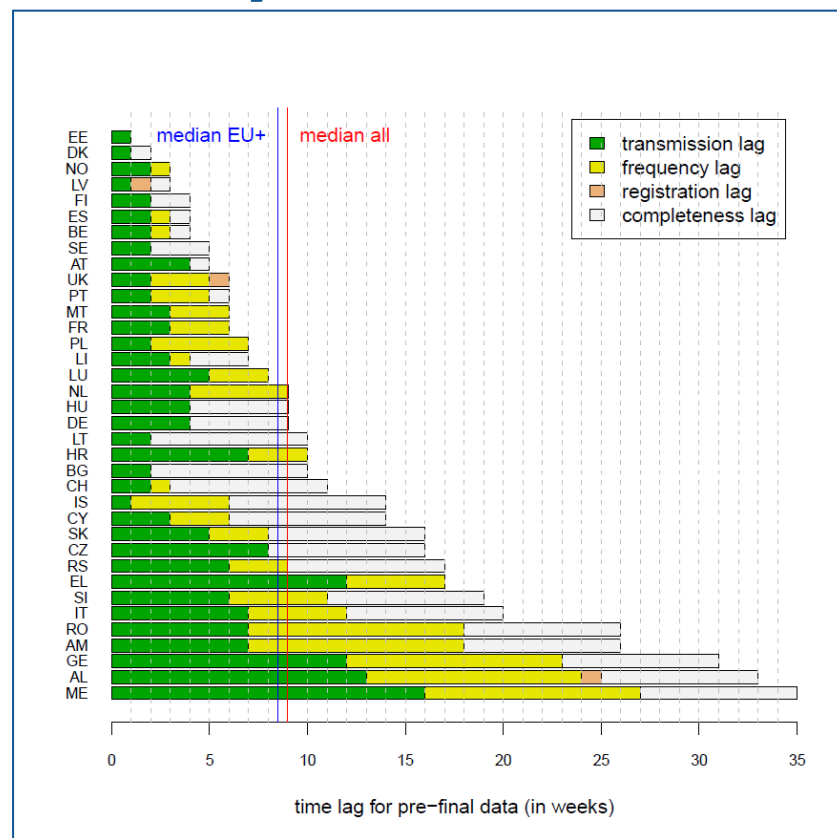


Timeliness (at Eurostat public database as of 16 October 2020)

TP1 – first data



TP2 – pre-final data



Selected indicators on recovery



<https://ec.europa.eu/eurostat/cache/recovery-dashboard/>

Monthly excess mortality

- *ESSC requirement:*

$$EM = \left(\frac{\hat{D}_{2020}^M - \bar{D}^M}{\bar{D}^M} \right) \cdot 100$$

where:

$$D = \text{deaths}, M = \text{month}, \bar{D}^M = \frac{1}{4} \sum_{i=2016}^{2019} D_i^M$$

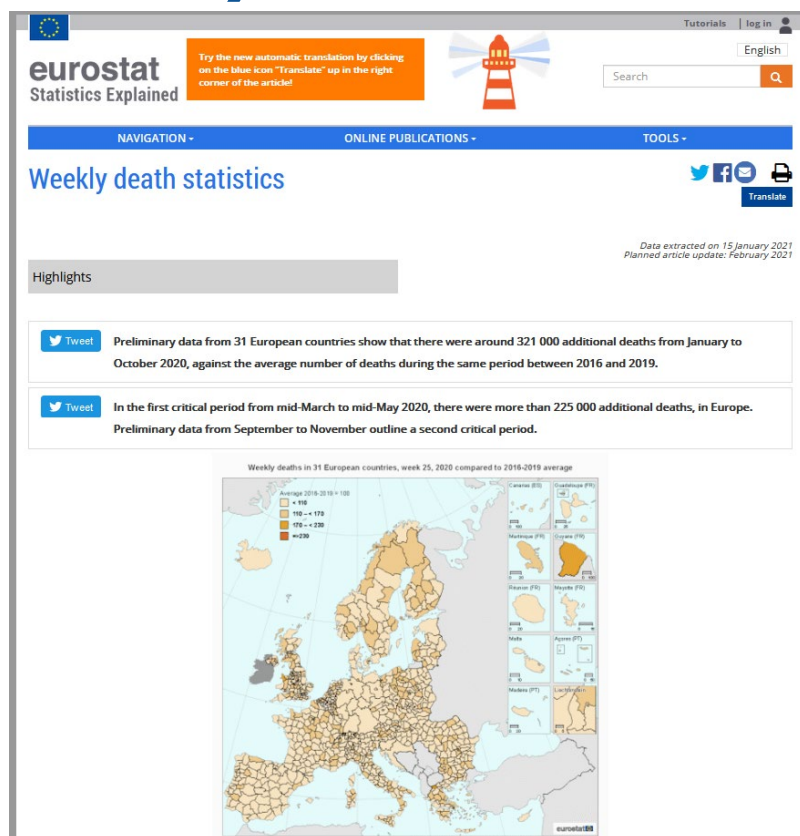
- *Correction for (estimated) data completeness \hat{C} in country c and week w :*

$$k_{c,w} = \frac{1}{\hat{C}_{c,w}}, \hat{C}_{c,w} \in [0, 1] \rightarrow \hat{D}_{c,w} = k_{c,w} \cdot D_{c,w}$$

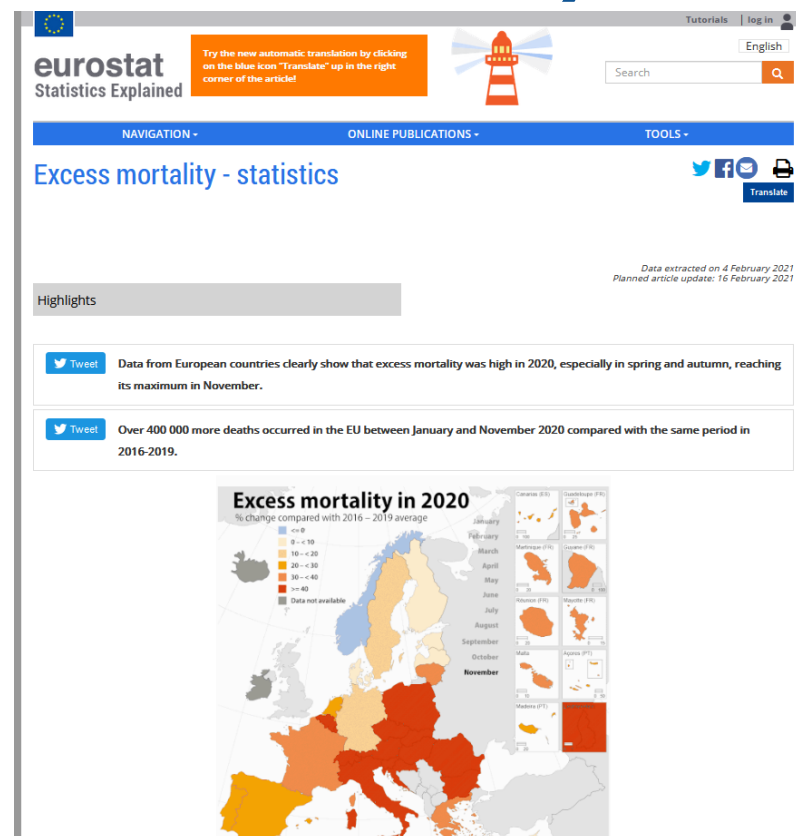
Illustrating the developments

“Statistics Explained” articles

Weekly deaths



Excess mortality



Main features of the two datasets

Weekly deaths

- *Voluntary data collection*
- *Time dimension: week (ISO)*
- *Updated on daily basis as data come in*
- *Breakdown by NUTS 3 region (NUTS-2021 classification), sex, 5-year age group (up to age 90+)*
- *Data from 2000 (depending on country), highest coverage 2015 onwards*
- *Associated "Statistics Explained" article updated monthly*

Excess mortality

- *Eurostat computation from weekly deaths based on ESSC requirements*
- *Time dimension: month*
- *Updated once a month around the middle*
- *Only national level, no disaggregation*
- *Data from 2020 only*
- *Associated "Statistics Explained" article updated monthly*

Ongoing work

- *Continuous effort to improve quality (particularly timeliness, completeness and granularity)*
- *Review of the national statistical processes for the production of deaths statistics (publication planned)*
- *Cooperation with EUROMOMO*
- *UK: until agreement on statistical cooperation is established, Eurostat will no longer disseminate new data for the UK, neither through its database nor in other dissemination products*

THANK YOU FOR THE ATTENTION

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