

United Nations expert group meeting on strengthening the demographic evidence base for the post-2015 development agenda, 5-6 October 2015, New York

#### Demographic Evidence from Civil Registration Systems

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# Purpose of presentation

- Provide a review of the availability of basic statistics and deaths compiled from the records of civil registr systems, and their quality
- A global review and by region

   Africa, Asia, America North, America South, Europe, Oceania,
   19952014 ference period
   Using the UN Demographic Yearbook database; data and info as of m&eptember 2015
- Provide additional insight on challenges and areas new work and improvement

### Vital statistic Demographic Yearbook

- UNSD collects annually statistics on vital events and qualifiers of quality via the Demographic Yearbook Vi<sup>-</sup> Statistics questionnaire, completed by the National S Offices (NSOs).
- The template of the questionnaire is available online http://unstats.un.org/unsd/demographic/products/dyb/dybquest.htm
- The questionnaire is comprised of many tabulations a wide range of vital events accoprimciples and Recommendations for a Vital Statistics System

http://unstats.un.org/unsd/demographic/standmeth/principles/default.htm

### Vital statistics Dephographic Yearbook

- The aim is to collect vital statistics at the national level, outputs of civil registration systems.
- For simplicity, in this presentation we denote by "CRVS bi "CRVS deaths" statistics on respectively births and death from the records of civil registration systems of countrie and reported thereafter by NSOs to UNSD.
- The collected data are reviewed, processed and stored in Demographic Yearbook database.

Information on the other vital events or additional ways of disaggregating the availability of i provided upon request.

### Vital statistics on births and deaths

- As part of the vital statistics data collection, NSOs are requested annually the total numbers of live births and deaths that have occ the calendar year (and by sex and urban or rural residence), as we for births by age of mother and sex of newborn and deaths by ag
- NSOs are requested to provide as well, an estimate of the comple the national level and also for all ages combined in the case of dea births and deaths numbers reported.
- The completeness of births and deaths data, depends respectively coverage and completeness of births and deaths registration.
- For the purpose of Demographic Yearbook, an estimate of more th to 90 per cent refers to "complete" data, otherwise "incomplete".

#### Births and deaths stagistias -



Figure 3: Availability of total deaths reported to Demographic Yearbook, percentage of countries/areas

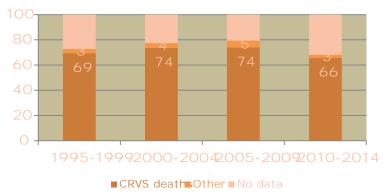
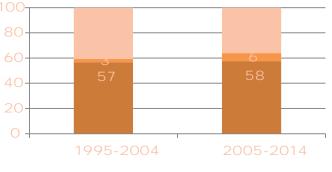


Figure 2: Availability of births by age of mother reported to Demographic Yearbook, percentage of countries/areas



■CRVS birth■Other ■No data



Figure 4: Availability of deaths by age reported to Demographic Yearbook, percentage of countries/areas

#### Births and deaths stagistias -

- Information is presented since 1-9005 byfeivence periods for total births and deaths
- and by two year-reference periods for births by age of mother (and sex of born) and deaths by age and sex; these reference periods coincide with the 2010 rounds of population censuses
- The "Other" portion of the bars include countries or areas that have repornumber of births or household deaths, compiled from census declarations month period (or any other appropriate period) before a census, and only with sample vital registration systems or a large demographic survey.
- Some of the reporting countries that have used census as a source for ele deaths are: Bhutan, Bolivia, Botswana, DPR Korea, Ghana, Jamaica, Liberia, Mali, Mozambique, Namibia, Nepal, Republic of South Sudan, Samoa, Saudi A Senegal, Sierra Leone, State of Palestine, Swaziland, Tokelau, Tonga, Zambia

#### Births and deaths stagistias -

#### some conclusions

- For the reference perio@D2@OBhe percentage of countries that could r CRVS births (complete or incomplete) is at most 73 per cent.
   The analogous figure for deaths is 74 per cent.
- The availability of CRVS data is lower for the more detailed datasets. two decades, the availability of CRVS births by age of mother has rem 58 per cent, and of deaths by age and speer are to the numbers refer to complete or incomplete data.

#### Births and deaths statisticas -

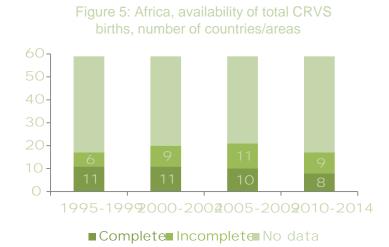
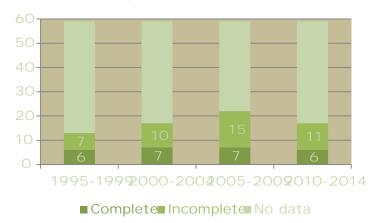
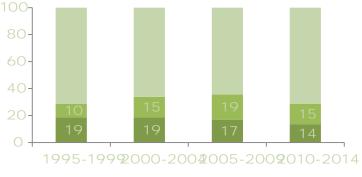


Figure 6: Africa, availability of total CRVS deaths, number of countries/areas

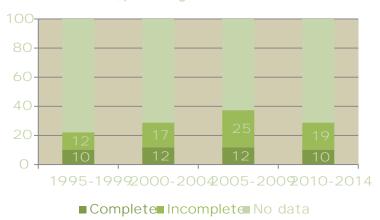






Complete Incomplete No data

Figure 6a: Africa, availability of total CRVS deaths, percentage of countries/areas



#### Births and deaths stakisticas -

- The availability of total CRVS births has shown small improvem the second and subsequently the third time period (from 29 to 36 per cent), however it falls back to 29 per cent for reference 2014.
- The number of countries that could produce complete total CR has decreased (11 during 00949,51-0 during 200095 and 8 during 20102-014).
- CRVS births by age of mother are available for 9 countries dur 200(47 complete and 2 incomplete) and for 12 countries during 2014 (6 complete, 6 incomplete).

#### Births and deaths statisticas -

- The availability of total CRVS deaths has also shown small impr duing the decade 2009, rising up to 37 per cent.
- However the number of countries/areas that could produce control CRVS deaths remain a could produce since 1995.
- CRVS deaths by age are available for 11 countr2090d(Fing 1995 complete and 6 incomplete) and for 13 countr2091du(Fing 2005 complete and 8 incomplete).

A notable umber of countries averelied on census esf population and survey soproduc fertility not mortality dicators

### Births and deaths statisticisca, North

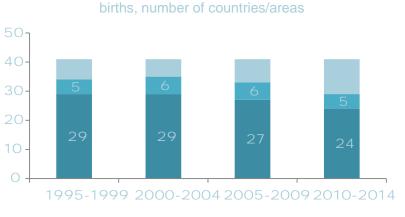


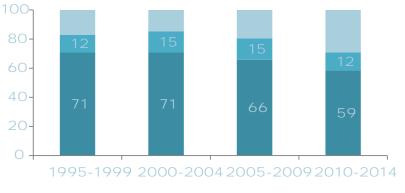
Figure 7: North Americavailability of total CRVS

Complete Incomplete No data

#### Figure 8: North Americævailability of total CRVS deaths, number of countries/areas



Figure 7a: North Americaavailability of total CRVS births, percentage of countries/areas



Complete Incomplete No data





## Births and deaths statisticisca, North

- The availability of totabirCR\$/Sand deaths is above 80 per cent do 19952-009, however it starts declining 20089a2005subsequently drops to 71 per cent for CRVS births and to 68 per CRVS deaths during20040-
- Several Caribbean countries or areas have not reported vital st duing the recent years.
- Among the reporting countries, the number reporting complete births and deaths is much higher than the number reporting in ones.

### Births and deaths statisticisca, North

- Most of the countries that have reported total numbers of CR deaths, have reported as well datasets on births by age of mot deaths by age
- Datasets on CRVS births by age of mother are available for 29 duing 1992004 (24 complete, 5 incomplete) and for 28 countr 2002014 (23 complete, 5 incomplete)
- Datasets on CRVS deaths by age are available for 34 countries 19952004 (28 complete, 6 incomplete) and for 27 countries du 2014 (24 complete, 3 incomplete).

#### Births and deaths statistic South

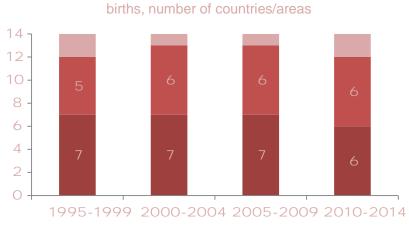


Figure 9: South America, vailability of total CRVS

Complete Incomplete No data



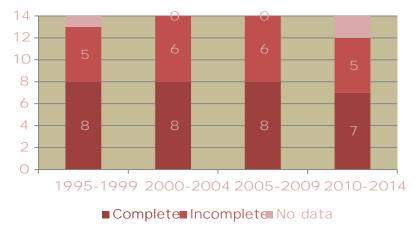
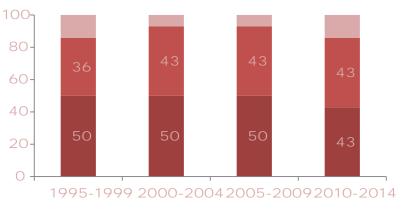


Figure 9a: South Ameriç**a**vailability oftotal CRVS births, percentage of countries/areas



■ Complete Incomplete No data



Figure 10a: South Americavailability of total CRVS deaths, percentage of countries/areas

## Births and deaths stakisticisa, South

- The availability of CRVS total births and deaths reporting is 86 more, with only21non-reporting countries/areas during certain periods.
- The issue however is the completeness -6fcdattriest/afeas (out of 14) reporting births or deaths classified as incomplete.
- One of the issues in some countries is the incomplete combined deayed registration. Work is being done in some countries to contribute delayed registration of births and allocate such births to the y occurrence, by recording during registration and tabulating for statistics the year of birth or the age of individuals registered, to the date of registration, and other characteristics such as so of the mother, etc.

## Births and deaths stakisticisa, South

- The incompleteness issue is reflected also in reporting CRVS bi of mother and sex of newborn and CRVS deaths by age and set
- Out of 14 countries/areas in South America, 10 have reported by age of mother during01094956 complete, 4 incomplete) and 1<sup>-</sup> during 2020514 (6 complete, 5 incomplete).
- CRVS deaths by age have been reported by 12 coun200es during (7 complete, 5 incomplete) and by 11 countri2014(incomplete)
   complete, 5 incomplete).

#### Births and deaths stakisitics -



Complete Incomplete No data



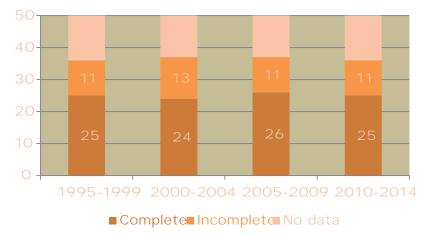
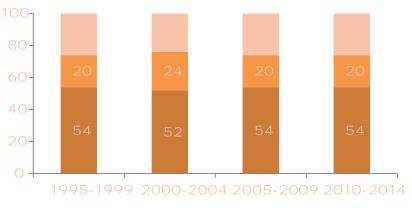


Figure 11a: Asiavailability of total CRVS births, percentage of countries/areas



Complete Incomplete No data



Figure 12a: Asiævailability of total CRVS deaths, percentage of countries/areas

#### Births and deaths stakisitics -

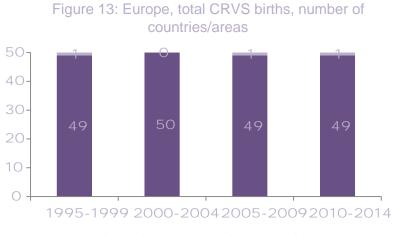
- The level of total CRVS births and deaths availability has remain the same for the past 20 yea6spart dent of the number of countries for births and page cent for deaths.
- The percentage of countries reporting complete 564 t and ebirths is cent, whereas incomplete 24 epse 20 ent.
- The percentage of countries reporting complete to 2a preleaths is cent, whereas incomplete 26 qse2 2 ent.
- Among the reporting countries, the share between the ones recomplete and incomplete data has not visibly changed during the years.

India and Bangladesh that provide data from sanspeteners is tradition China based on national survey on population changes are not inc CRVS numbers.

#### Births and deaths stakisitics -

- The numbers of countries that have reported CRVS births by a mother (and sex of newborn) and deaths by age (and sex) are lower than the ones reporting total births (and by sex of newb total deaths (and by sex).
- Out of 50 countries in Asia, CRVS births by age of mother are 29countries during 2995-(23 complete, 6 incomplete) and 28 countries for 2005-2014 (23 complete, 5 incomplete).
- CRVS deaths by age are available for 26 count 200 (220 a) (220 a)

#### Births and deaths stalistic -

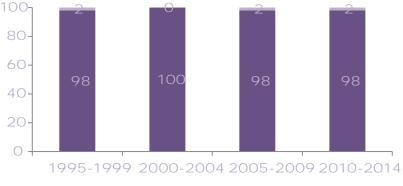


Complete Incomplete No data

Figure 14: Europe, total CRVS deaths, number of countries/areas







Complete Incomplete No data

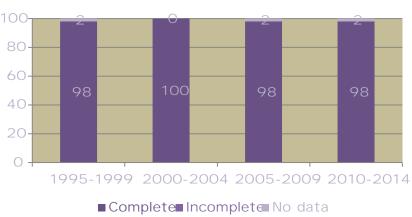
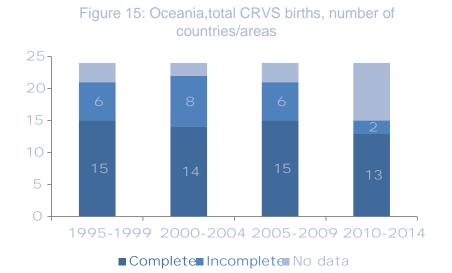


Figure 14a: Europe, total CRVS deaths, percentage of countries/areas

#### Births and deaths stallistic -

- In Europe, the reporting of total CRVS births and deaths, is con countries or areas.
- However a few countries/areas have not reported the CRVS da births by age of mother and sex of child and deaths by age and
- Out of 50 countries/areas, 44 have reported births by age of duing 1992504 and 46 during 0210405-
- 45 countries have reported datasets of deaths by age and sex 200<sup>a</sup>nd 44 countries durin<sup>2</sup>0<sup>2</sup><sup>0</sup>05-
- All the above statistics are complete (i.e. refer to 90 per cent the events occurred in the reference year).

#### Births and deaths statistia-





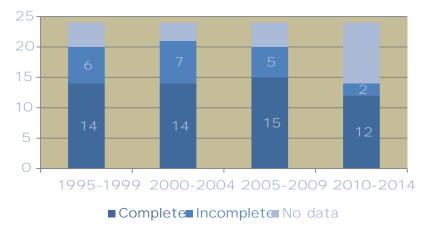
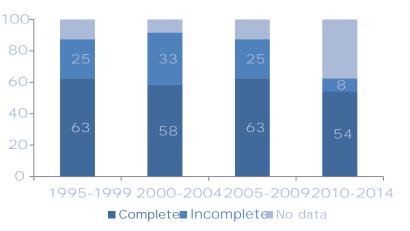


Figure 15a: Oceania, total CRVS births, percentage of countries/areas



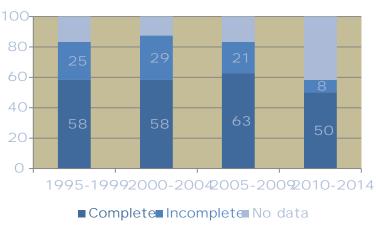


Figure 16a: Oceania, total CRVS deaths, percentage of countries/areas

#### Births and deaths statistia-

- The availability of CRVS births and deaths in Oceania has decre the past 10 reference years, with a sharp decrease during the years.
- Many island nations or areas have not been able to report vita recently.
- For the reference years200405 countries/areas out of 24 have reported total CRVS births (13 complete and 2 incomplete).
- For the reference years 200404 countries/areas have reported total CRVS deaths (12 complete and 2 incomplete).

#### Births and deaths statistia-

- CRVS births by age of mother are available for 14 countries/ar per cent during 1200054 (9 complete, 5 incomplete) and for 12 countries/areas or 50 per cent 2001n4g (200250 mplete, 2 incomplete).
- Datasets on CRVS deaths by age are available for 15 countries per cent during 1299954 (11 complete, 4 incomplete) and the san numbers also for 2201045-
- Oceania has seen the sharpestnotence availability of basic births and deaths datasets as a percentage of countries/areas.

#### Summary

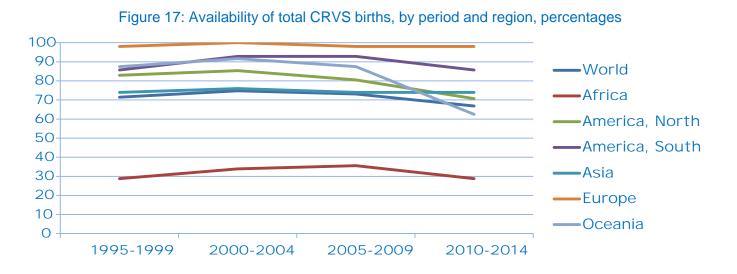
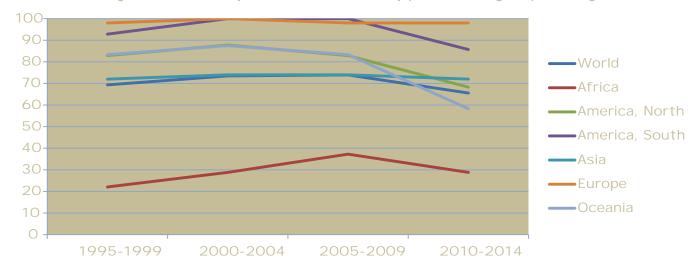


Figure 18: Availability of total CRVS deaths by period and region, percentages



#### Summary

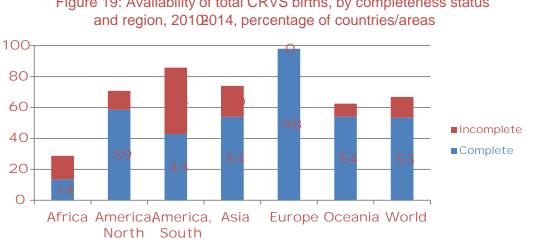
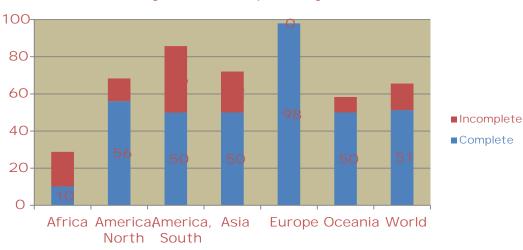


Figure 19: Availability of total CRVS births, by completeness status



#### Figure 20: Availability ofotal CRVS deaths by completeness status and region, 20102014, percentage of countries/areas

## Summary

- The availability of basic statistics on births and deaths compile records of civil registration systems overall has not improved d past two decades,
- by egion, and consequently globally.
- · Differences among regions that existed in the past still persist
- For some regions there is a decrease in availability.
- The more details are required of the basic statistics on births the less is the number of countries able to provide such datase national level.

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# Thank you