

Production of timely vital statistics in Maldives



Health Information Management & Research Division,
Ministry of Health,
Maldives

What are vital statistics?

“Vital statistics constitute the collection of statistics on vital events in a lifetime of a person as well as relevant characteristics of the events themselves and of the person and persons concerned” (*United Nations Principles and Recommendations for vital statistics, Revision 3 (2014)*).



Birth



Death

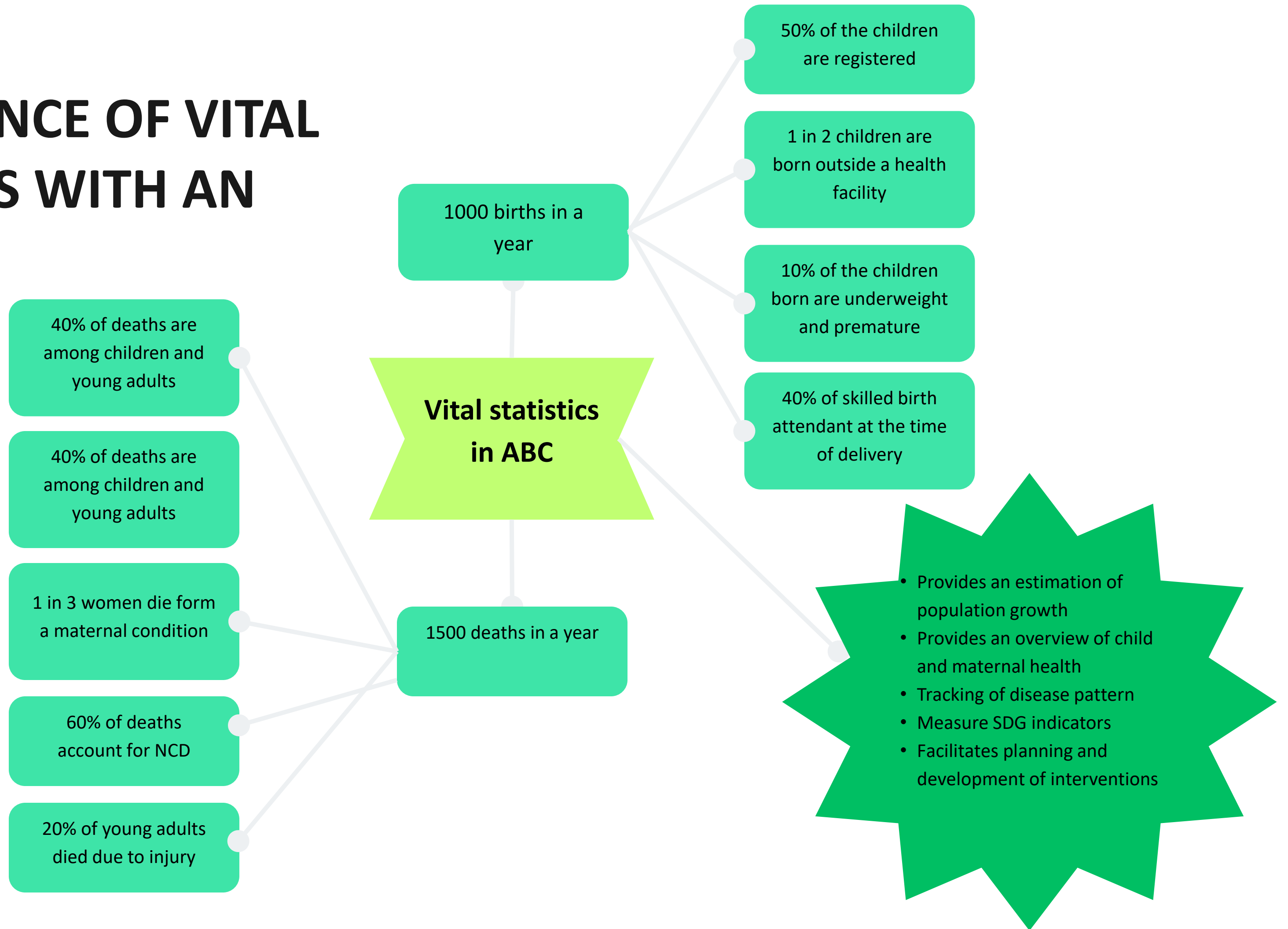


Marriage



Divorce

IMPORTANCE OF VITAL STATISTICS WITH AN EXAMPLE

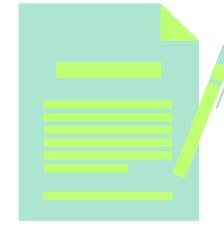


History of vital statistics production in Maldives

1960
Births and deaths were being reported to the Ministry of Health (MoH) through a registration system

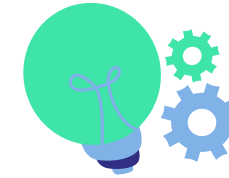


2022
New birth and death registration act enacted

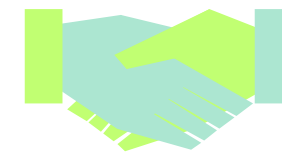


2020
Roll-out of GEMEN (digital VRS system)

2019
Development of population module in e-council system with digitalization of birth and death forms.



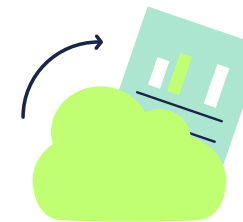
2013
The death coding staff were transferred from DNR to MoH so that coding support could be provided to the health team



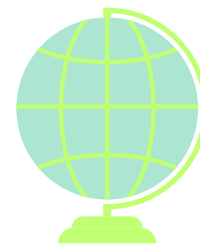
2011
All data entry and coding processes of births and deaths were moved to the Department of National Registration



2010
under the decentralization act, local councils were mandated to keep a record of the birth and death registration at atoll and island level



2009
Established an online birth and death system



2008
An online VRS module was incorporated into the eGov system



2003
Triplicate copy system of reporting births and deaths



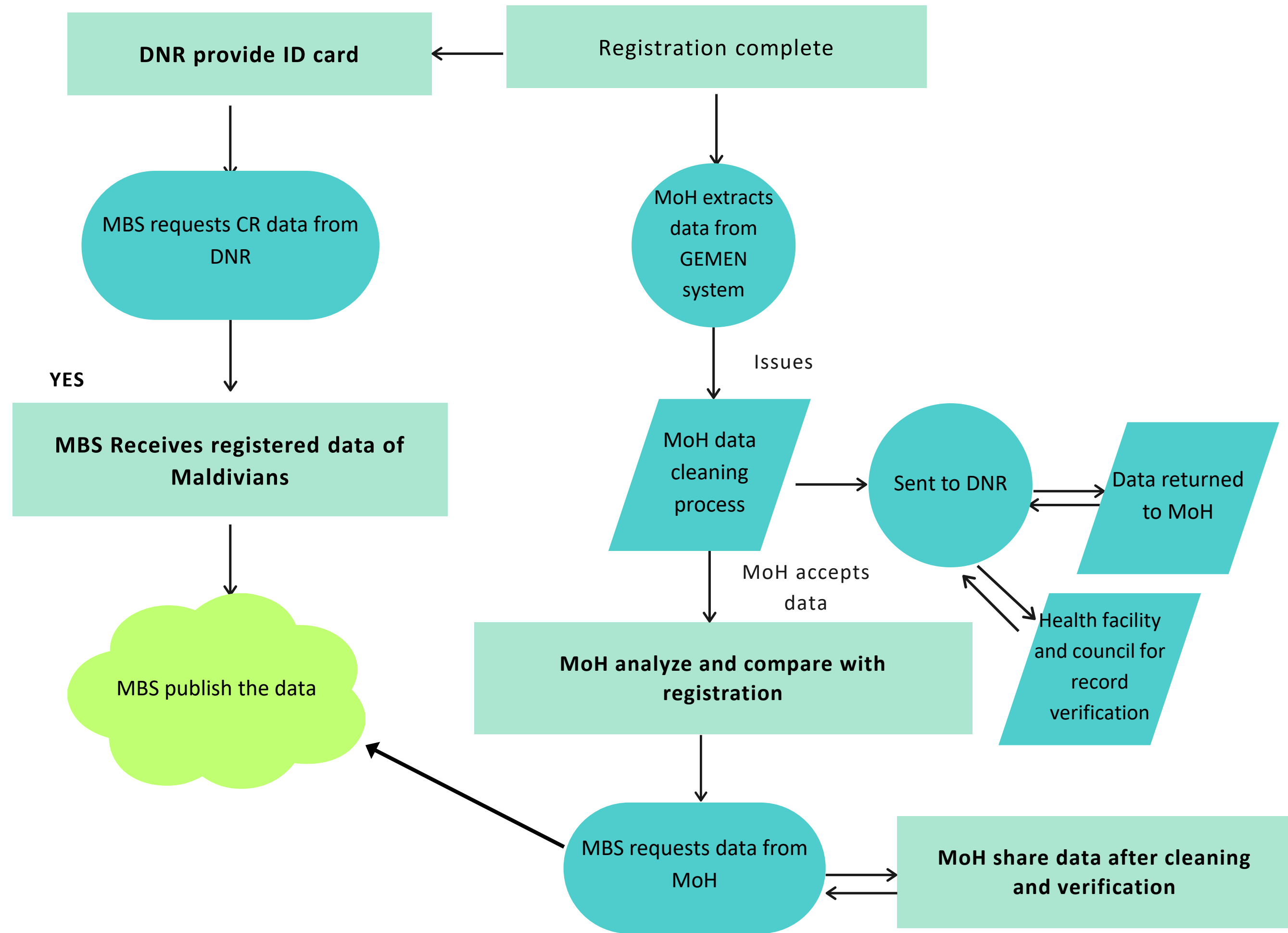
1999
Microsoft Access database was established and Cause of death classification was initiated based on the ICD-10 classification system



1992
Birth and death registration law enacted



CURRENT PROCESS FOR VITAL STATISTICS PRODUCTION (BIRTH)



STRENGTHS OF VRS SYSTEM IN MALDIVES



Institutionalized
legal framework



A digital system
where data is
captured real-time



High coverage of
birth and death
registration



Establishment of a
CRVS core team for
implementation of
vital statistics
business process
model

CHALLENGES

1. DATA QUALITY

Validity and accuracy:
Inaccurate and invalid data since some of the validations are missing,
Quality of cause of death

Completeness:
incomplete records, missing information

Consistency:
Inconsistent data (eg: gestational age less than 12 weeks for livebirths)

Uniqueness:
duplicate data entries

Timeliness:
delays in timely data entry,
delays in data cleaning from the system

2. SYSTEM RELATED CHALLENGES

- Delays in data cleaning by making changes from the system
- Insufficient robust IT infrastructure
- Limited integration between related systems (eg: Nares and Gemen system)
- Delays in system enhancement (eg: delays in adding validations, making system modifications)

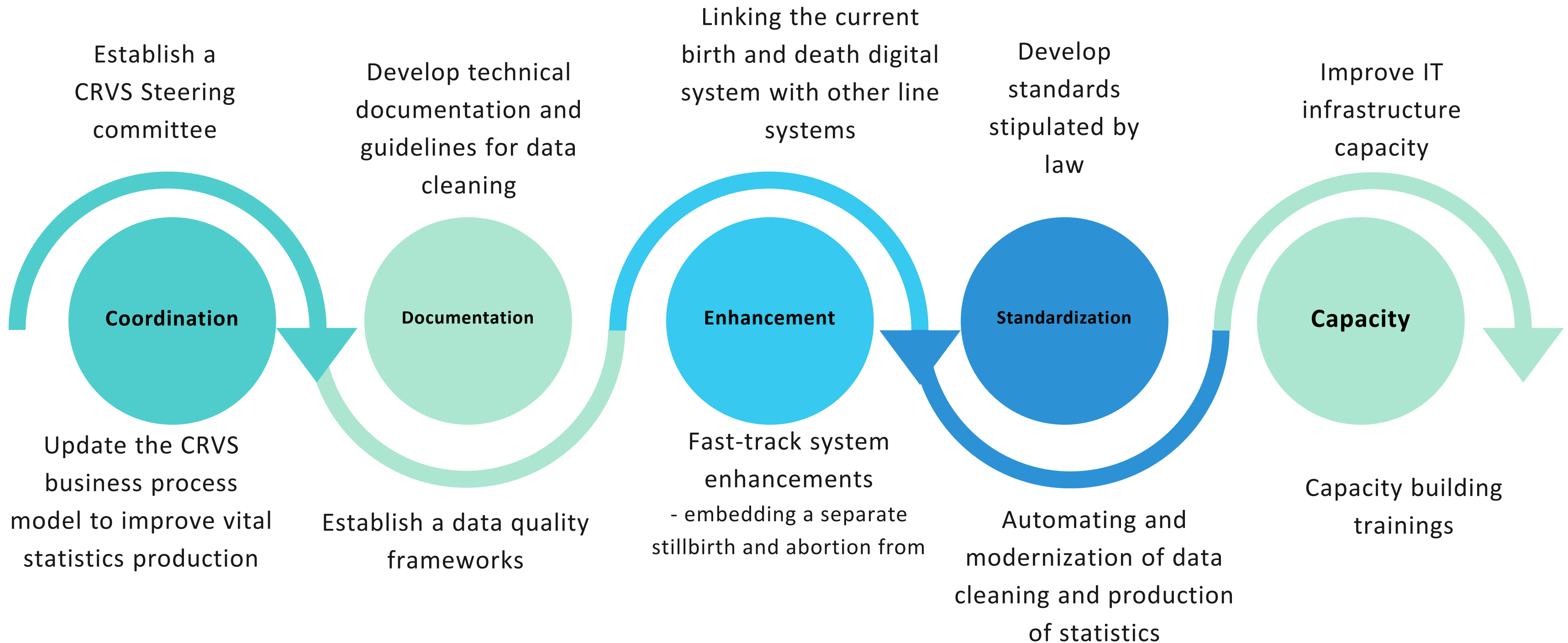
3. CAPACITY AND TRAININGS

- Limited human resource capacity mostly in islands
- Limited trained and skilled data entry users

4. POLICIES AND STANDARDS

- Updated standards are not in place as stipulated by law
- Limited guiding documentations and frameworks

FUTURE PLANS



Thank You