

#### What is mapping of administrative data?

- Mapping of administrative data sources can help identify available administrative data sources which can be used for producing official statistics
- Mapping gives a full picture, e.g., within a sector:
  - ✓ Identify administrative data sources already used for official statistics
  - ✓ Identify administrative data sources which could be a new source for official statistics
    - Either replacing partly or entirely surveys or producing new information on society which is not yet published.



#### Why is mapping useful?



To avoid requesting data that already exists (e.g., we use administrative data instead of asking questions in a survey)



To understand the scope of possibilities of new statistics



It improves cooperation within the National Statistics System

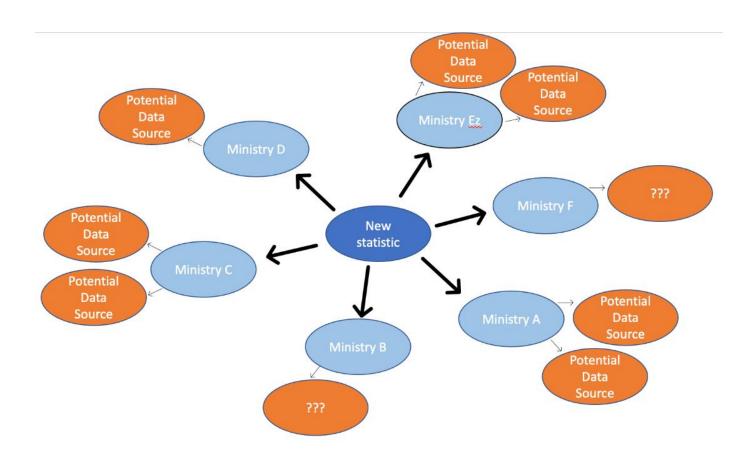


#### Different types of approaches (inventories)

- There are two types of approaches to map to administrative data
  - Inventory of administrative data sources available within a sector that can be used for statistics
  - Inventory of statistics that are produced based on administrative data
- The information obtained during the mapping, can be stored in inventories:
  - National inventory of all administrative data sources
  - Specific inventories of administrative data for a sector



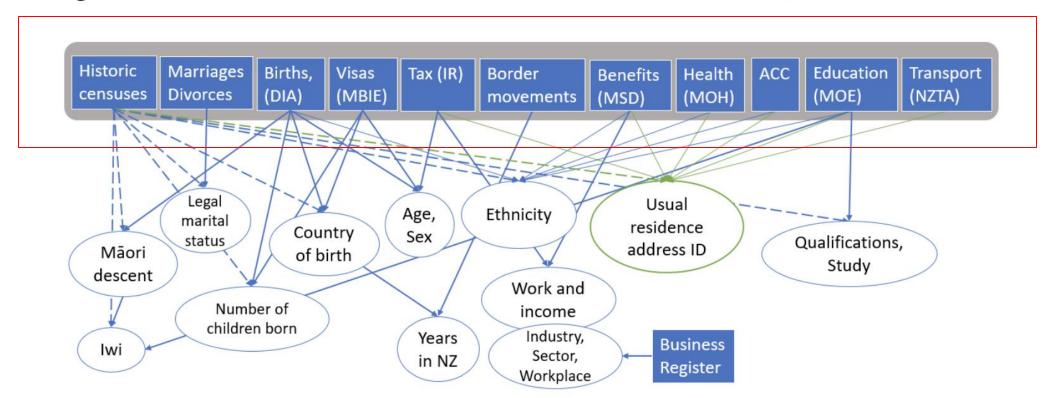
### Example: what New Zealand did to identifying data sources for use in their census





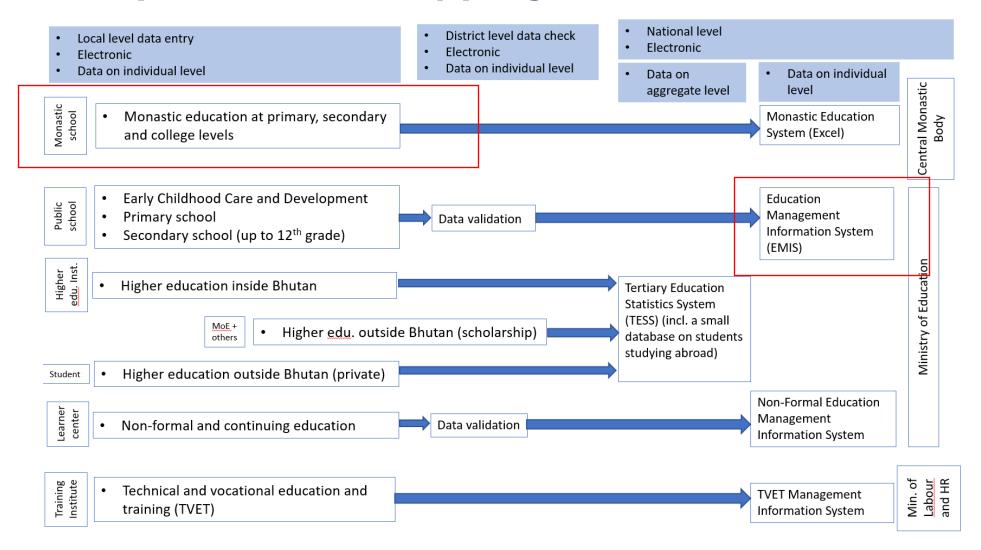
# Example: New Zealand Mapping admin data sources for data and statistics on life events

Figure 1. Administrative sources for census information about individuals





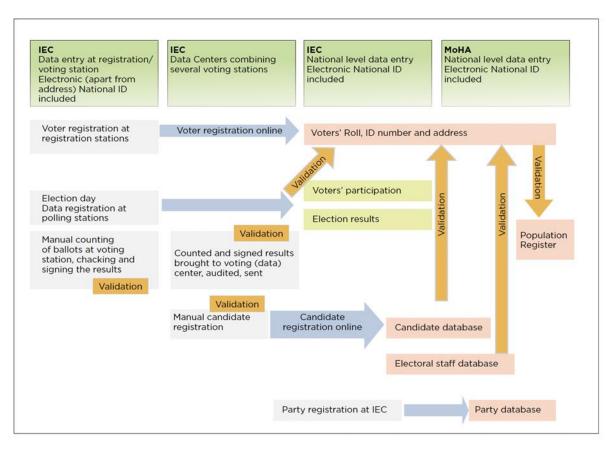
#### Example: Bhutan mapping of the education sector





#### **Example: South Africa electoral data**

- The mapping tool was used in South Africa by the Independent Electoral Commission and UN Women to map the electoral data system of South Africa
- the mapping identified that statistics on voter participation by age, sex and region/municipality can be produced
- It was also discussed that the information that the Electoral Commission holds is often more up to date than the information in the population register





# Mapping can happen as part of developing a National Strategy for the Development of Statistics (NSDS)

The process of developing NSDS and engagement of relevant stakeholders is a perfect opportunity to get an overview of administrative data sources in the country





# Mapping tool to identify administrative data within a sector

Mapping tool for administrative data sources	
Basics	Administrative data source
1 Name of administrative data source	
2 Which department or ministry is the data holder?	
3 Contact person at the data holder:	
Information in the register	
4 What is the target population in the administrative data source?	
5 Is this register survey based?	
6 Is there any unique ID through which individuals/reporting units can be identified? Is it a national / ministry /	
data source specific code?	
7 Which variables does the register contain?	
8 Are there data gaps/missing variables that you know of?	
9 What is the earliest year from which the administrative data is available? (e.g., 2015 or similar)	
Data entry	
10 How is the administrative data collected/reported - from entry point to other levels?	
11 Is the data digitally available	
12 How frequent is the data updated by the data owner (Periodicity: Annual, quarterly, monthly, daily)?	
13 Are the data at individual level or aggregate?	
Data sharing	
14 If there a formal agreement/MoU on data delivery with NSO? If yes, when is it from?	
15 How frequently is the data shared with other institutions in the NSS or withthe NSO?	
16 In what format is the data received from the data owner?	
Data validation	
17 How is data validation performed?	
Usage of register	
18 Which statistics/indicators can the administrative data be used for?	
Known challenges	
19 What are the challenges, if any, with (the quality of) the data?	
20 Are there any human capacity gaps related to managing and analysing the data?	
Other relevant data for the whole sector	
21 Which other similar data exist outside the register/s?	
22 Which organization collects/holds this data?	
23 Is this data survey-based?	
24 General challenges and questions	



## **Example:** Health sector



Bas	ics	Data source (example responses)
1	Name of data source (for instance vaccination register)	Vaccination register
2	Which agency is the data holder?	Ministry of Health
3	Contact person at the data holder (incl. email	Head of register unit, Ms. Anna
	address):	Alana, aa@moh.xx
Info	ormation in the data source	
4	What is the main objective of the data collection for this source?	Record vaccinations
5	What is the target population in the data source?	Children in vaccination age (0-2 years old)
6	Is this data based on operations or survey based?	Operations, all health workers who vaccinate record and report
7	Is there any unique ID through which	There is a vaccine ID, and the birth
	individuals/reporting units can be identified?	registration number of the child is
		also recorded if available
8	How wide is the coverage of the unique ID?	Birth registration IDs are available
		for all registered children, current
		coverage is at 80 %
9	Which variables does the database contain (mention	Type of vaccine provided, date the
	all)?	vaccine was provided, birth
		registration number of child, name
10	Do you have metadate (descriptions standards	of child, age of child
	Do you have metadata (descriptions, standards, definitions etc)	NO
	Is registration mandatory?	Yes
12	Are there data gaps, missing variables, under	Not all children are vaccinated, and
	coverage or over coverage that you know of?	there is some under-reporting in
		vaccinations given
13	What is the earliest year from which the data is	2006
	available? (e.g., 2015 or similar)	
14	Is there a continuous time series or are there gaps?	Yes, data are available for all years
		from 2006

## **Example:** Health sector

Dat	ta validation	
27	How is data validation performed?	MoH has automated checks built in the app. In addition, the statistician
		is regularly checking the data over time and against other measures
Known challenges		and against other measures
28	What are the challenges, if any, with (the quality of)	There are challenges with some
	the data (e.g. over-reporting, under-reporting,	health workers not reporting on all
	groups missing)?	vaccinations provided
29	Are there any human capacity gaps related to	The statistician is overwhelmed,
	managing and analysing the data? If yes, please	and there is high turnover
	describe	



Dat	a entry	
15	How are the data collected initially?	Health workers record the
		vaccination
16	Is the data digitally available	Yes
17	What is the data flow from initial collection to central	Health workers use an app to record
	level (is there sharing from sub-national to national	the vaccination which goes
	level for example)?	automatically to the Ministry of
		Health
18	How frequent is the data updated by the data holder	The Ministry gets data in real time
	(Periodicity: Annual, quarterly, monthly, daily)?	(with some delays due to internet
		connectivity challenges)
19	Are the data at individual level or aggregate?	Individual level
20	Is there a manual with instructions for data entry?	Yes, a guide on how to use the app
		exists
Dat	a sharing	
21	Are there supporting legal standards/ a legal	Yes, the statistics act specifies that
	framework that allow data sharing for statistical or	data need to be shared for
	other purposes?	statistical purposes. The public
		health act specifies that only
		anonymized information can be
		shared.
22	If there a valid formal agreement/MoU on sharing data	Yes, an MoU exists, but it is only
	with the NSO? If yes, when is it from?	related to birth registration
23	If yes to above, is the MoU/agreement currently made	Yes, but only related to birth
	use of/operational?	registration
24	How frequently is the data shared with other	Vaccination data are currently not
_	institutions (with the NSO and/or within the NSS)?	shared with others
25	In what format is the data provided to the recipients?	-
26	Do officials sign a confidentiality agreement in relation	Yes, this is the practice both at MoH
	to working with individual data?	and NSO

