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## Use of Census data to estimate internal and international migration

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# Major implications of migration for policy and planning

- Internal migration is a major driver of urban growth
- Immigrants might have special needs, for example:
  - Housing
  - Counseling
  - Health (refugees)
- Immigrants play a particular role in the labour market, e.g. fill labour shortages in some industries or set up businesses (return migrants)
- Emigration depletion of working age cohorts, brain drain, remittances

#### Some issues needing policy attention in the Pacific

- Unplanned urban growth (e.g. informal settlements)
- Emigration contributes to depopulation either at national level or in outer islands (small Polynesian countries)
- Loss of human resources (skilled health personnel, teachers and professionals), e.g. Fiji
- □ Possible reductions in remittances due to reduced commitments to home societies (how to maintain remittance flows?)
- Long-term or permanent movement is the primary emigration
   stream but temporary labour migration is of increasing importance

### Migration-related questions in census form (Fiji)

D10. What is this person's place of birth? The place of birth is where mother usually lived at time of person's birth. (State **Province** or **Country** if outside Fijl) D11. What is this person's **usual place of residence?**: (State **Province** or **Country** if outside Fiti) D12. Where did this person *live five years ago*? (on 16 September 2002) (State Province or Country if outside Fiii) D13. (For Fijians and Rotumans only). What is this person's place of origin? (koro dina). (State Province of Origin) Fiji Citizen D14. What is this person's residency status? Permit Holder (Tick appropriate box) Visitor REMITTANCES: H15. Does this household receive money from overseas? Tick appropriate box. Yes (Go to H15A) 2. No (Go to Disability Section) If yes, give a rough estimate how much is received within last 12 months : F\$ H15A. H15B. What is the country of H15E. How is the money H15C. What is the H15D. What is the occupation of sender residence of sender. usually received? (Enter relationship of sender to head of household (Enter mode of transfer inside front relationship inside front cover)

## **Internal** migration

- Censuses are most useful for measuring internal mobility
- Definition of internal mobility depends on distance and territorial units of analysis (divisions, provinces etc.)

#### **Examples:**

- Inter-provincial mobility: from one province to another
- Intra-regional mobility: within the same region
- Classification of the territorial unit (i.e. rural or urban) allows the identification of different types of flows (e.g. rural-urban, urban-urban, etc.)

### Measurement of internal migration

#### Two main categories:

- Lifetime migrants: place of enumeration (or usual place of residence) different from place of birth
- Recent (or period) migrants: place of enumeration different from place of residence 1 or 5 years before the census

### Measurement of international migration

- Lifetime immigrants: foreign-born (or foreignnational)
- Recent (or period) immigrants: place of residence was overseas 1 or 5 years before the census
- Place of birth and place of residence before the census can be cross-tabulated to identify return migrants (people born in the country who had been residing overseas)

### Measurement of <u>net</u> migration

Censuses do not provide estimates of out-migration but **net inter-censal migration** can be estimated using the population balancing equation:

$$P^{2011} = P^{2001} + B^{2001-11} - D^{2001-11} + I^{2001-11} - E^{2001-11}$$
 $P = \text{Population}$ 
 $P = \text{$ 

## Example of citizenship tabulation (Samoa, 2011 census)

Table 2.4: Total population by country of citizenship and urban-rural residence, 2011

Residence	Country of citizenship						
		Samoa and Australia and United States					
	Total	Samoa	New Zealand	New Zealand	of America	Others	ns
Samoa	187820	180398	3818	1246	1184	1167	7
URBAN							
Apia Urban Area	36735	33765	1548	510	371	538	3
Vaimauga West	24105	22103	1081	366	217	335	3
Faleata East	12630	11662	467	144	154	203	0
RURAL							
North West Upolu	62390	59635	1403	478	430	442	2
Vaimauga East	7730	7387	147	71	42	82	1
Faleata West	18895	17683	632	176	169	234	1

## Example: identification of period migration (Samoa, 2011 census)

#### Territorial unit of analysis is the region

	Place of residence 5-year before the census					
Place of enumeration	Apia Urban Area	N-W Upolu	Rest of Upolu	Savaii	Overseas	
Apia Urban Area	27,157	1,168	882	1,004	1,562	
North West Upolu	1,473	47,111	1,301	1,521	1,862	
Rest of Upolu	447	694	35,201	524	874	
Savaii	424	685	455	35,971	571	

#### Non migrants

Internal migrants to Apia Urban Area

International migrants to Apia urban Area

Internal migrants from Apia Urban Area

## Example of period migration tabulation (Samoa, 2011 census)

Table ... - Inter-regional migration in the 5 years before the census

Region	Population (5 years +)	in-migrants	out- migrants	net migration	net migration rate (000)
Samoa	160,961	10,578	10,578	0	
Apia Urban Area	31,808	3,054	2,344	710	22.3
North West Upolu	53,290	4,295	2,547	1,748	32.8
Rest of Upolu	37,752	1,665	2,638	-973	-25.8
Savaii	38,111	1,564	3,049	-1,485	-39.0

#### **Conclusions**

- Migration has major policy implications in the Pacific (e.g. urban planning, remittances, labour market policies)
- Censuses include several migration-related questions (e.g. place of birth and residence 5 years before the census) that can be used to estimate internal and – to a lesser extent – international migration
- Migration statistics are relatively underdeveloped in the Pacific and there is large scope for producing more accurate and comprehensive data