Register based census 2015

Statistics Korea



1.Obtain admin. data

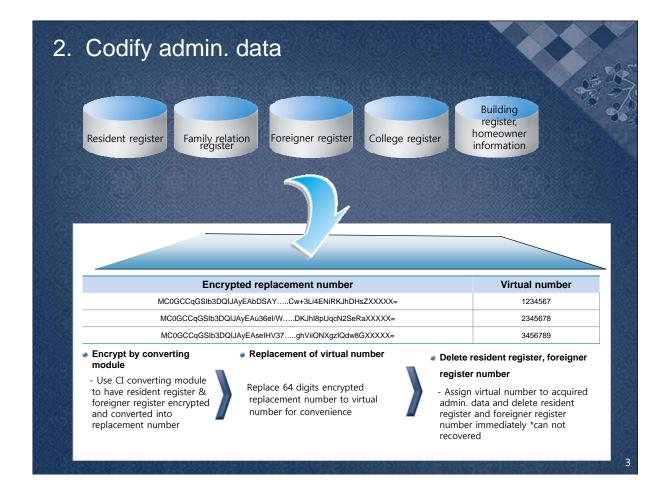
Action plan

- Build sharing / cooperating relations with data supply
- Obtain newest data required for register-based census every Nov. 1st
- admin data required for register-based census : 25 types from 12 agencies*

Required data

Admin. data	Supply agency	Purpose of use	First acquired		
Resident register	Ministry of Government administration and Home Affairs	Generate population & household	'10. 4		
Foreign register	Ministry of Justice	Generate population (foreigner)	'10. 5		
Entry & Exit data	Ministry of Justice	Identify residents residing abroad	'11. 2		
Family relation register	Supreme Court of Korea	Supplement &Generate household	'11.3(Once)		
Building register	Ministry of Land, Infrastructure and Transport	Supplement housing	'09. 4		
Publicly announced housing price	Ministry of Land, Infrastructure and Transport	Generate housing	'10. 7		

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3. Standardize address in admin. data

Action plan

- Standardize management of similar items and classification
- Secure link key across admin. data

Standardization

Standardize address system among admin data

시도	시군구	Legal_dong	Street-name address	Build <u>ing na</u> me	동명	호명
전라남도	영광군	대마면 원흥리	영대로5길 33-1	예다인APT	104동	101호

Standardized address											
Govtmnt dong code	Street- name code	Building main #	Building — sub·#—	Building name	동	층 구분	충	호			
3644011	468704694264	00033	00001	예다인아파트	000104	20	1	000101			

- Standardize management method on type of living quarter, gender, date of birth and etc.
- Secure link key (population: identification number, housing: standardized address)

4. Items supplied by 2015 Register-based Census Name ...• • Ö • Relation to head of household 0 Educational attainment register 0 Martial status Nationality • Date of arrival Place of birth $\ddot{\circ}$ ö Residence 1 year ago Ö 0 Residence 5 year ago Date of marriage Ö ö Children ever born Ö Ö Family clan • Household items Number of rooms in use Building and floor of residence ö Type of dwelling facility ö Housing tenure House ownership in other place of residence Ö Ö Residence period ö Type of living quarters ۰ Residential gross area Year structure built • Lot area Number of rooms ö Number of dwelling facilities ö 2010/2015 Complete enumeration variables, ○ 2010/2015 sample variable

[Appendix] 2015 Population and Housing Census survey items

Coverage of Population and Housing Census items by year

Ž		'15(items)	'10	'05	'00	'95	'90
2000	Total	56	50	44	50	28	45
	Complete enumeration variables	12	19	21	20	17	33
	Sample variables	44	31	23	30	11	12

3 si, do items included in sample variables from '05 and '10

Complete enumeration variables 2010

=> Sample variables 2015

Sample variables 2010 => Complete enumeration variables 2015

Complete enumeration variables 2015 (new)

Educational attainment, martial status, number of rooms in use, building and floor of residence, type of dwelling facility, house ownership in other place of residence, housing tenure, Total number of rooms, number of dwelling facilities

Lot area

Family clan (complete enumeration in 2000)

5. Supplement population coverage

Population status quo (based on Nov 1st 2010)

Difference from estimated population: 1.9 million 뉮 0.16 million (Unit: persons

	Admin data(A)	Register-based	gister-based Estimated		Difference				
	Admin data(A)	census(B)	population (C)	Census(D)	(A-C)	(A-B)	(B-D)	(B-C)	
Total population	5,145	4,967	4,951	4,858	194	178	109	16	
Korean	5,047	4,873	4,853	4,799	194	174	74	20	
Foreigner	98	94	98	59		4	35	-4	

Why there is difference and how to supplement it

- Resident register population includes persons residing abroad on purpose of education and employment (1.71mil)
 - Supplement with entry & exit data
- Difference occurs due to delayed birth and death registration
- Include birth[20 k] and death [50 k] after 3 month of reference point Exclude registered foreigner residing abroad (130 k),
- Include undocumented foreigners (90 k)

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^{*} Items not supplied by register-based census will be found in sample survey from 20% of population

6. Supplement household coverage

General household status quo

Difference from estimated household: 2.39 million

(Unit: household, %)
0.28 million

	Resident	Compon	Register-	Compon	Estimated	Compon	Census	Compon		Diffrence	
	register(A)	ent ratio		ent ratio	household (C)	ent ratio	(D)	ent ratio	(A-C)	(A-B)	(B-C)
Total	1,985	100.0	1,774	100.0	1,746	100.0	1,734	100.0	239	211	28
1-person household	662	33.3	442	24.9	422	24.2	414	23.9	240	220	20
2-person household	378	19.1	415	23.4	426	24.4	421	24.3	-48	-37	-11
3-person household	365	18.4	378	22.0	372	21.3	370	21.3	-7	-13	6
4-person household	423	21.3	389	22.3	388	22.2	390	22.5	35	34	1
5-person household	157	7.9	150	9.2	138	7.9	140	8.1	19	7	12

• Household split does not reflect actual household (i.e. housing pre-sale, schooling)

☑ Integrate households using family relation data, resident register (Unit: 10,000 households)

Total household supplement	Persons residing abroad (entry & exit data)	Special EMD	Institutional (facility) Household separation (Census)	Family with same address (family relation register)	Spouses living nearby district (family relation register)	Non blood related households in multi-unit dwelling (resident register)
211	69	16	24	60	19	23

▼ Concepts: 가구 household and 세대 generation

Household is a mild term for generation with no conceptual difference. Although they belong in one household, household-split by generation occurs due to personal and special purposes

Household	Generation
Domestic unit of 1 and more persons sharing livelihood such as cooking and sleeping (Population and Census rule article 2, definition)	A group of unit sharing livelihood (Resident registration Affair Manual)

▼ Illustration of household supplement

< 1 household with 3 generation in identical address: 3 generation as husband, spouse + children, parents>

	Fa	mily relation	register		Resident register 「generation」				
	Name	Gender	Age	Relation to head of household	Resident data Name	Head of household	Relation to head o f household	Note	Number of generati on
	이승*	1 41 Head of household		이승*	이승*	Head of household	1-person generatio n		
1	임선*	2	38	Spouse to head of household	임선*	임선*	Head of household		2nd
househol d	이지*	1	9	Child	이지*	임선*	Child	_	Ζ
u u	이여*	2	8	Child	이여*	임선*	Child		
	박정*	2	60	Parent to spouse	박정*	박정*	Head of household	1-person househol d	

7. Housing coverage supplement

Number of housing by types

(Unit: 10 thousand, %)

	Number of housing	Detached housing	General detached	Multi- family	Dwelling with shop	Apartmen t	Row house	Apartm ent units in a private house	Non- residentia I
Publicly announced	1,461	385	300	54	31	847	46	150	32
housing price(A)	(100.0)	(26.3)	(20.5)	(3.7)	(2.1)	(58.0)	(3.2)	(10.3)	(2.2)
Register- based census	1,473	388	303	54	31	856	46	150	32
(B)	(100.0)	(28.0)	(23.0)	(2.3)	(2.6)	(56.7)	(3.3)	(9.7)	(2.3)
Population and	1,468	409	285	89	36	858	54	131	16
housing census(C)	(100.0)	(27.9)	(19.4)	(6.0)	(2.4)	(58.4)	(3.7)	(9.0)	(1.1)
Difference(A-C)	-7	-24	15	-35	- 5	-11	-8	19	16
Difference(B-C)	5	-21	18	-34	-5	-2	-7	19	16



Supplement housing by using admin. data



Official residence, rental APT: 50 k Soldier, employee APT: 7 k About 100k illegal housings are estimated as not counted.

At Household and Housing Preliminary Enumeration in 201 they will be checked and supplemented

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