



Pacific
Community
Communauté
du Pacifique

Improving collection and access to high-quality statistical data

Statistics for Development Division

SPC

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- Main Goal:

Strengthen the capacity of national statistical systems and social and economic planning agencies to provide policy-makers and analysts with important demographic, economic and social indicators for planning and decision-making.

- Core Activities:

DATA COLLECTION, ANALYSIS AND DISSEMINATION.

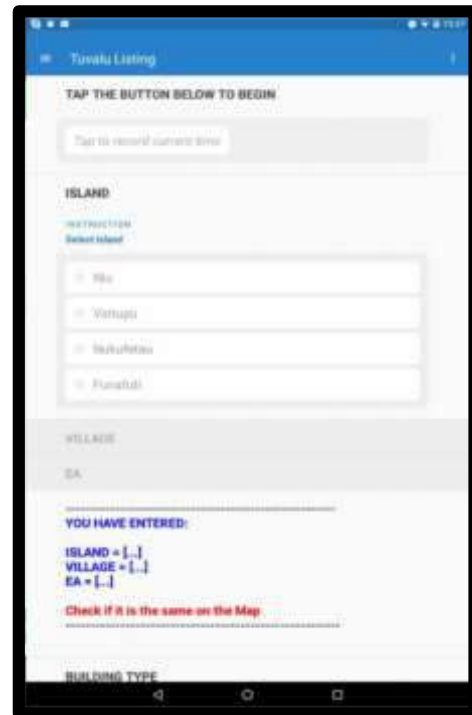
- Economic Statistics
- Social Statistics (CRVS, Health, Education)
- Census and HH surveys
- Data dissemination

CAPI (Survey Solutions) for Data collection

SPC – SDD is fully supporting countries for the use of tablets for data collection.

• **Survey Solutions**, developed by The World Bank, was selected as the best solution in terms of:

- Data collection
- Field monitoring
- Data Quality
- Timeliness
- Cost reduction



TABLETS ARE FAST, EASY TO USE AND SECURE

RESPONDENT → **INTERVIEWER (TABLETS)** ↔ **SUPERVISOR** ↔ **HEAD-QUARTERS**

- Built-in question skips and validations
- Real-time quality control by Supervisors and Headquarters
- Monitoring of survey progress
- Visualisation of spatial coverage
- Reduction of costs
- Improved data quality
- Data securely stored on cloud server
- Data transfer via WiFi or 3G/4G
- Paperless
- Significant time saving

PROVEN EFFICIENCY
Presently, three Pacific Island countries have successfully carried out fully automated Population and Housing Censuses using Android Tablets installed with the World Bank's Survey Solutions software that is designed to collect census and survey data.

Using tablets has shown a significant improvement in data quality and timeliness with real-time data transfer over WiFi and mobile networks (3G/4G), while also saving costs on paper and data editing.

In addition, secure end-to-end technology operating between the tablets and cloud servers ensures safety and confidentiality of the data. An online questionnaire "designer" allows easy sharing of model questionnaires and modules for rapid design and roll-out of future collections.

COUNTRY STATS

	Tonga	Vanuatu	Tokelau
Tablets	600	350	30
Interviewers	482	280	30
Supervisors	89	50	3
Headquarters	40	13	1
# Occupied households	18,005	55,527	250
Time in field (including revisits)	5 weeks	6 weeks	1 day

Note: StatsNZ assisted Tokelau with their CAPI census using Survey Solutions, under guidance from the Statistics for Development Division (SDD), SPC.

Map report

Pacific Community Communauté du Pacifique | Survey Solutions | THE WORLD BANK

QGIS

- QGIS support for Census and Survey Planning, fieldwork and dissemination
- Manual to perform Census and Surveys activities with QGIS.
- Available in <http://sddinnovations.spc.int/>

Manual : QGIS for Censuses and Surveys, and Analysis

0 Comments

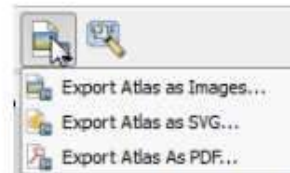
The SPC Statistics for Development Division (SDD) has been working on a manual to assist anyone wishing to perform census and survey mapping, and analysis with QGIS. QGIS is a free and open-source GIS package which is widely used at SPC for both internal GIS work and also training and technical assistance in the region.

[Here is a link to the current final draft.](#)

Below is all the tutorial material associated with the manual:

- [1_Plot_HH_Locations](#)
- [2_Creating_Admin_Bound](#)
- [3_Map_Production](#)
- [4_HotLinks](#)
- [5_Spatial_analysis](#)
- [6_Raster_Analysis](#)
- [7_Remote_Sense](#)
- [8_Advanced_Labeling](#)
- [9_Spatial_Database](#)

Please feel free to explore the manual and use the training material. Your feedback is welcome and will help us to complete the draft and release the final document.



- s. Select an output folder and then wait for the images to be created.
- t. Your resulting maps should all display the different polygons from your coverage layer:



More about automatic map production here:

http://docs.qgis.org/2.18/en/docs/training_manual/forestry/forest_maps.html?highlight=atlas

PopGIS2

PopGIS 2.0 Tonga 2016

There is a vast array of data provided with this mapping tool, at a range of geographic levels from Census Blocks up to Districts. Below you can access the indicators to start mapping, and view data related to those indicators.

Display maps

>>> ACCESS FULL LIST

Over a hundred maps on population, employment, housing, environment ... Examples in one click:

Get data

Data from maps are available in tabular form, filterable as desired. Exports of spreadsheet (xls) are also possible.

...

If this is your first time using PopGIS 2.0 please view the following introductory video:



More videos can be found on the SDD [YouTube channel](#)

To see 2011 Census on PopGIS 2 : [Click Here](#)

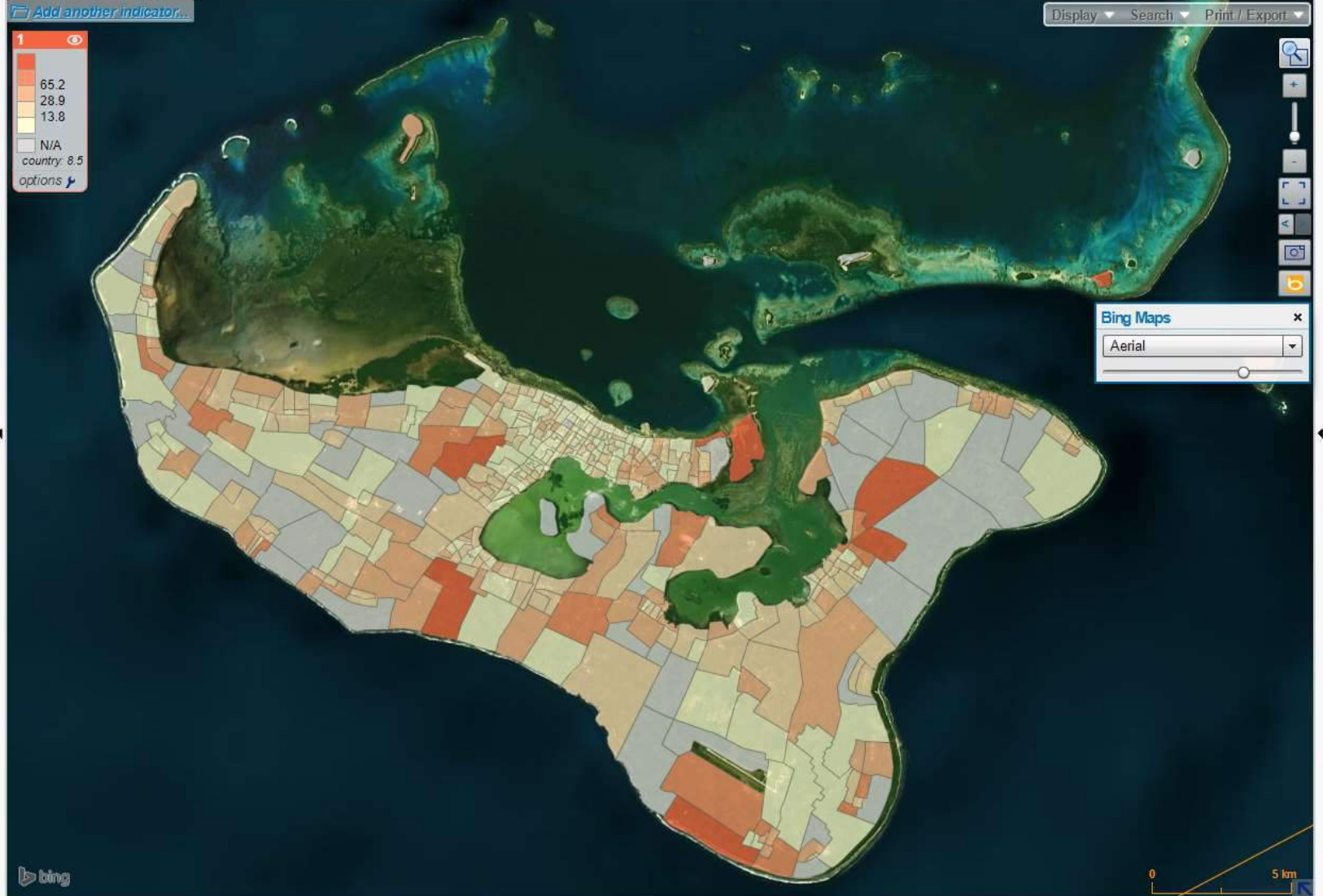
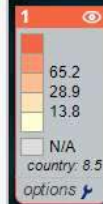
[District and village Level Split Map for Tonga.](#)

Specific map to display and compare data at low administrative level, on countries with several small and scattered islands.

[Click here to check the split map configuration.](#)

1 - G9. Toilet facility - Proportion of manual toilet - 2016 Census

Add another indicator...



Bing Maps

Aerial

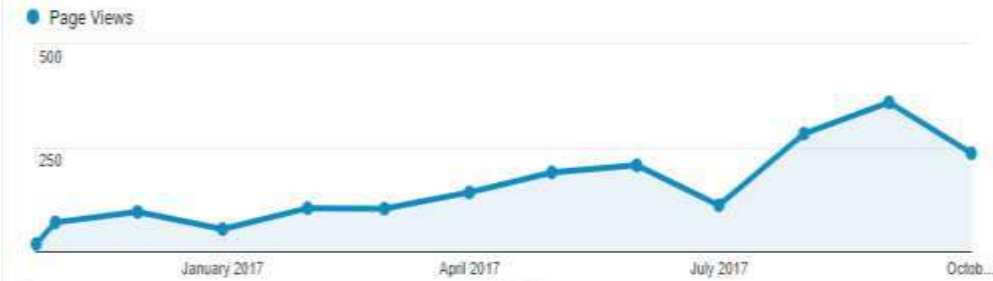
PopGIS Usage Statistics

FIJI



Country	Page Views	Page Views
	2,391 % of Total: 0.11% (2,271,203)	2,391 % of Total: 0.11% (2,271,203)

VANUATU

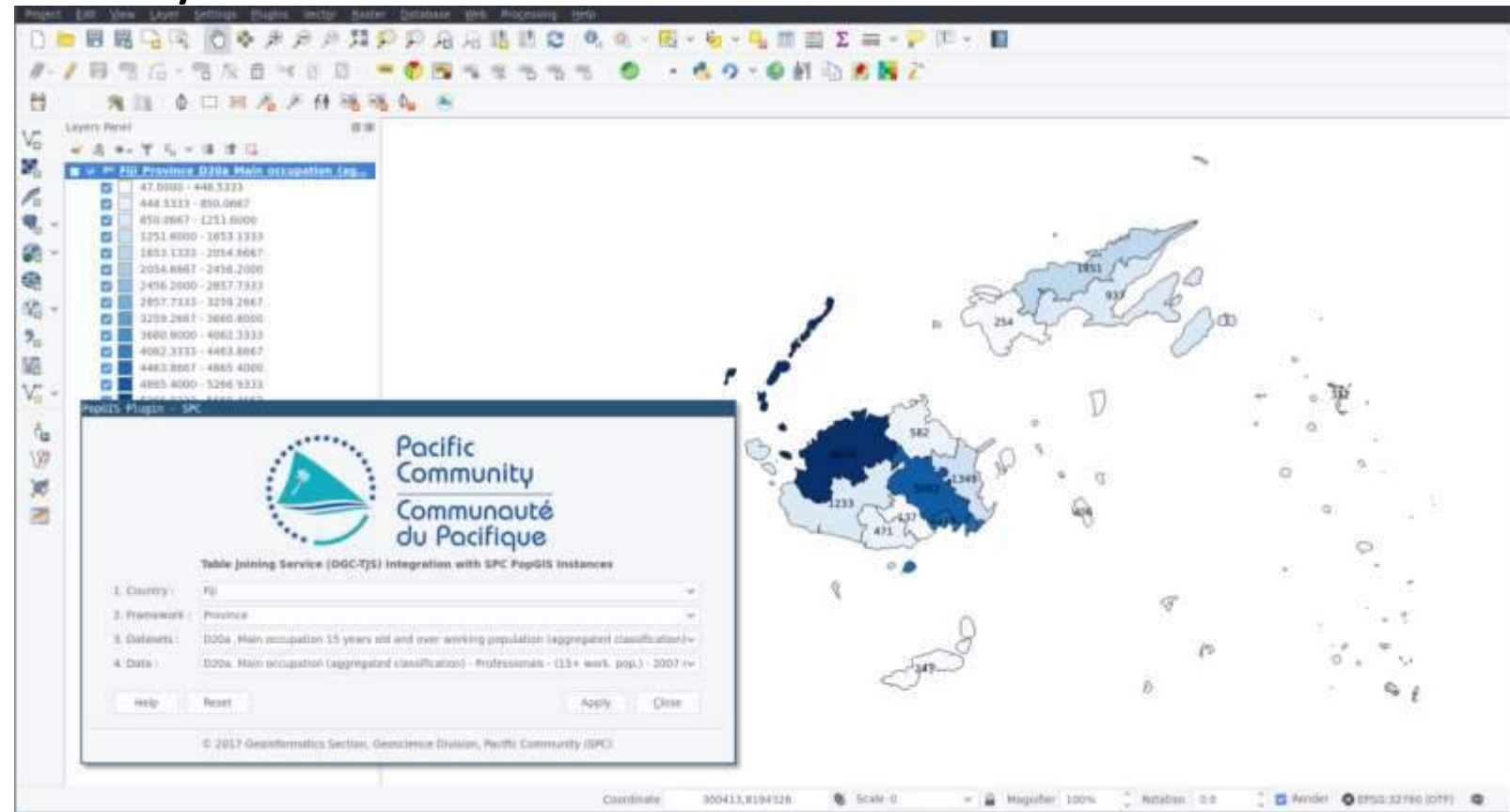


Country	Page Views	Page Views
	1,628 % of Total: 0.07% (2,271,203)	1,628 % of Total: 0.07% (2,271,203)

Country	MOST VIEWED INDICATORS 01/01/17 TO 03/11/17					Total Counts	
	1st	2nd	3rd	4th	5th	Map views	Data downloads
Cooks	School Level - EMIS 2016 34 0	School Status - EMIS 2016 14 0	Total Population 19 5	Number of females 79+ 6 0	Total Female Population 5 0	181	12
Fiji	Total Population - 2007 217 41	Total Pop 2015 projections 91 22	Localities 52 10	Ethnicity - Total Fijian 41 25	Total Evacuation Centre 38 5	2573	268
FSM	School Type - VEMIS 2015 38 1	Sex - Total Population - 2010 54 19	Sex - Female - 2010 19 0	Number of HH - 2010 23 6	School - Enrolment - VEMIS 2015 13 0	361	36
Kiribati	School Type - KEMIS 2015 50 1	Total Population - 2010 36 10	Proportion of HH using kerosene - 2010 7 0	Total Enrolment by island - KEMIS 2014 7 0	Total Number of HH - 2010 13 2	244	30
RMI	Total Resident pop - 2011 36 3	School Authority - MIEMIS 2016 11 0	Total Population - 2011 21 2	Proportion of total never married (12+) - 2011 8 0	%using pub piped water inside dwelling - 2011 4 0	324	10
Nauru	Total Population - 2011 66 22	Female Population - 2011 7 0	Proportion of female born in Nauru - 2011 6 0	Total Pop mainly speaking other - 2011 6 0	School Type - EMIS 2016 6 0	340	24
New Caledonia	Number of exploitation - 2012 4 0	Part des exploitations sur foncier coutumier 4 0	Population agricole familiale 2 0	Part des exploitations sur foncier privé 1 0	Marchande et professionnelle 1 0	20	0
Palau	Total Population - 2015 89 10	Number of HH - 2015 31 3	School Type - EMIS 2016 12 0	Ethnicity - Proportion of total Other - 2015 8 0	Total Population more than 5 years - 2015 7 0	789	17
Solomon Islands	Total Population - 2009 144 35	Level complete - Total some college or above (25+) - 2009 96 4	Total Population - (25+) - 2009 93 138	School Type - SIEMIS 27 0	Ethnicity - Total Polynesian - 2009 13 0	1037	266
Tonga	Total Population - 2011 52 7	School Level - TEMIS 2016 37 1	Number of total students - TEMIS 2012 22 0	Total 10 - 14 years old - 2011 6 0	Male 5 - 9 years old - 2011 6 0	430	18
Tuvalu	Total resident Pop - 2012 70 14	Ethnicity - Total Tuvaluan - 2012 30 1	Total Population - 2012 19 1	School Type - TEMIS 2014 14 0	Number of HH 18 1	429	26
Vanuatu	Total Population - 2009 498 168	Ethnicity - Total Euro/Aust/NZ - 2009 28 8	Religion - Total Catholic - 2009 23 0	% HH using protected well for drinking water - 2009 23 0	Religion - Total Anglican - 2009 22 14	2087	533
Wallis et Futuna	Total Population - 2013 16 10	Access to internet 10 0	School Level - 2016 9 0	Number of students by school 6 0	School Type 6 0	188	13

QGIS Plugin Geoscience Division / SDD

- <https://github.com/sopac/popgis-plugin>
- Allows QGIS users to access all data in PopGIS2 systems directly through plugin



PopGIS 3



**Indicators:
maps, charts and
datatables**

I pick and compare indicators on various themes.



**Reports:
get a dashboard on a
custom area**

I define an area of interest and display detailed reports on it.



**Zoning overlays:
display and compare**

I map a wide range of zoning layers,
I study their delineation.



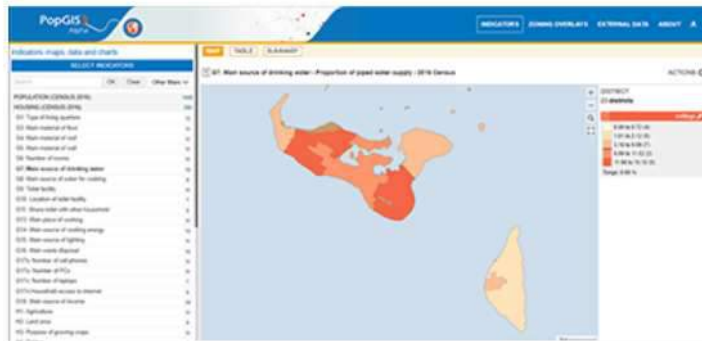
**External data:
upload and map**

I import personal data for mapping
and cross-checking with other
indicators.

Welcome to SDD Innovations

SDD Innovations provides an opportunity for you to participate in shaping the future direction of SDD. As we develop and test new ideas we will post them on this site and ask for you to give us your feedback.

Note : this is a test site so the data may not be the most recent or may be inaccurate.



PopGIS3

Nov 13, 2017 | Mapping, PopGIS, QGIS | 0 Comments

A new version of PopGIS is coming soon! PopGIS2 has been a very popular application for users to access and visualize sub-national datasets through interactive maps and tables.



SDG Portal

Nov 9, 2017 | .stat, SDG | 0 Comments

The Statistics for Development Division is currently working on a Sustainable

Coming Soon ...

Open Data Portal

Pilot .stat data portal using
SDMX compliant v8 of
OECD.stat data platform

Story Maps

SDG 6

ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

Clean, accessible water for all is an essential part of the world we want to live in. There is sufficient fresh water on the planet to achieve this, but due to bad economics or poor infrastructure, every year millions of people, most of them children, die from diseases associated with inadequate water supply, sanitation and hygiene.

Water scarcity, poor water quality and inadequate sanitation negatively impact food security, livelihood choices and educational opportunities for poor families across the world. Drought affects some of the world's poorest countries, worsening hunger and malnutrition.

By 2030, at least one in four people is likely to live in a country affected by chronic or recurring shortages of fresh water.

6 CLEAN WATER AND SANITATION



TARGET 6.1

By 2030, achieve universal and equitable access to safe and affordable drinking water for all

INDICATORS

6.1.1 Proportion of population using safely managed drinking water services

Dark blue indicates countries with high rates of population accessing to safe drinking water.

TOKELAU 2016 CENSUS

Tokelau Atlas 2016 Census

I - Demography

Atafu	2016	2011	2006
Age			
<25	265 51.2%	271 52.0%	222 53.2%
25-64	220 42.5%	209 40.7%	155 37.2%
65+	33 6.4%	33 6.4%	40 9.6%
Total	518	513	417



Nukunono

Age	2016	2011	2006
<25			
25-64			
65+			
Total			



SDG 6

INDICATORS

By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations.

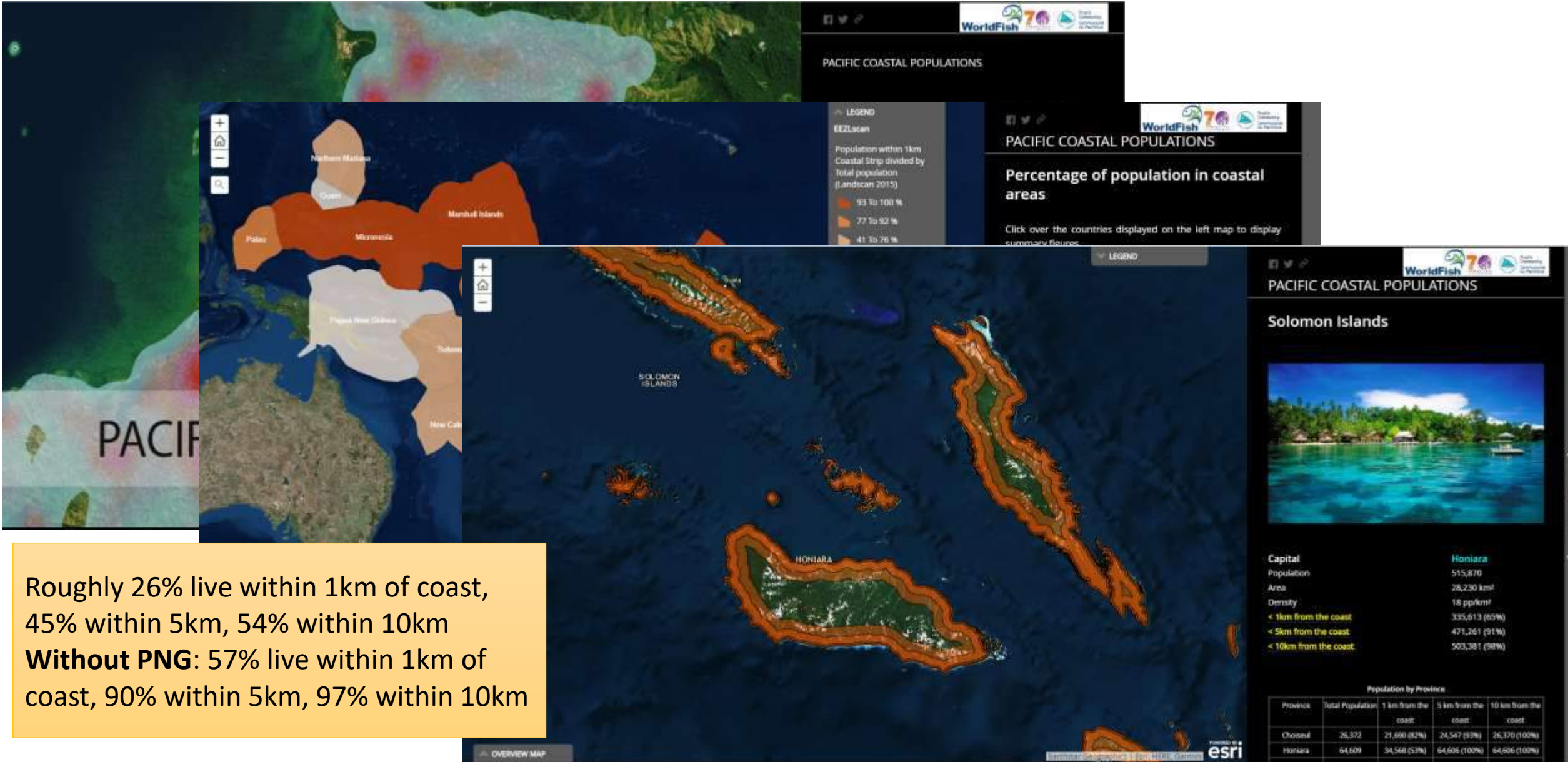
6.2.1 Proportion of population using safely managed sanitation services including a hand washing facility with soap and water.

Dark blue indicates countries with high rates of population using managed sanitation services.





Coastal Population Mapping

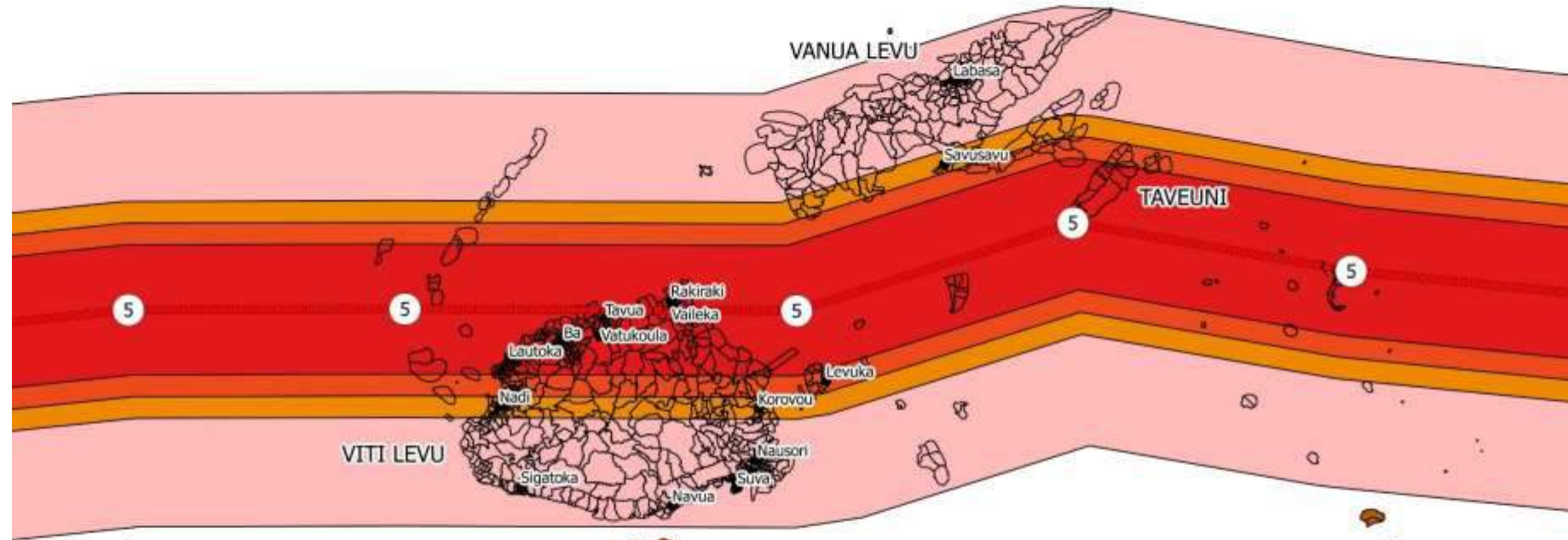


Roughly 26% live within 1km of coast, 45% within 5km, 54% within 10km
Without PNG: 57% live within 1km of coast, 90% within 5km, 97% within 10km








Ad-hoc map production

CYCLONE WINSTON POTENTIAL IMPACTED POPULATION - 23/02/16

**NOTE : Population figures projected to 2015 using age distribution from 2007
Population and Housing Census then prorated to match total projected population**



Legend

-  Intensity
-  Cyclone track
-  0-30km: Likely to be severely to extremely affected
-  30-40km: Likely to be seriously to severely affected
-  40-50km: Likely to be moderately to seriously affected
-  50-100km: Likely to be somewhat to moderately affected
-  Fiji EAs

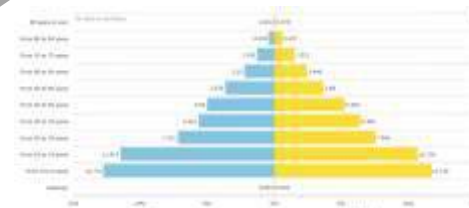
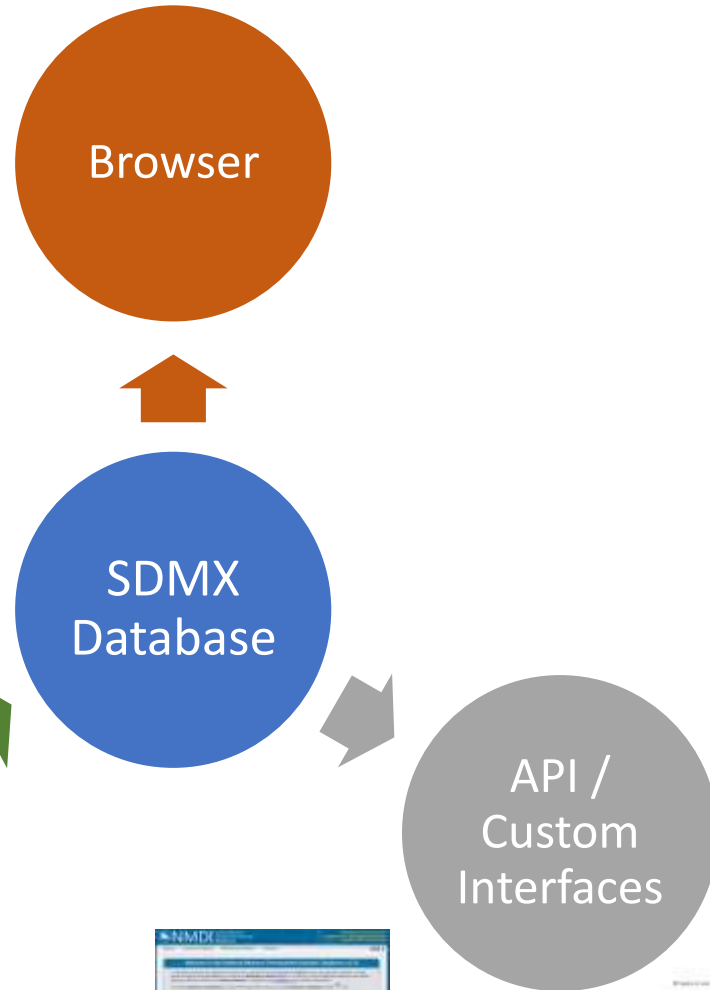
	0-30km	30-40km	40-50km	50-100km
Total	208070	50662	88996	496281
Male	106875	26530	45481	250770
Female	101195	24132	43515	245511
Children under 18	70218	18691	31244	169737
Children under 5	20887	5642	9685	51174
Children under 1	2103	565	975	5153
Pregnant and lactating mothers	4550	1108	1946	10854

NOTE: EAs which were split by a buffer zone have their populations apportioned to each buffer

0 50 100 km



Open Data Portal



- Provide well structured and documented datasets which are:
 - Searchable
 - Downloadable in multiple formats
 - Accessible via API (machine-to-machine) – interoperability with international reporting databases eg WB, UN
- Custom interfaces, interactive dashboards – e.g. SDG Portal
- Software plugins – Excel, SPSS, R, STATA

*“Without data you’re just
another person with an
opinion.”*

- W. Edwards Deming