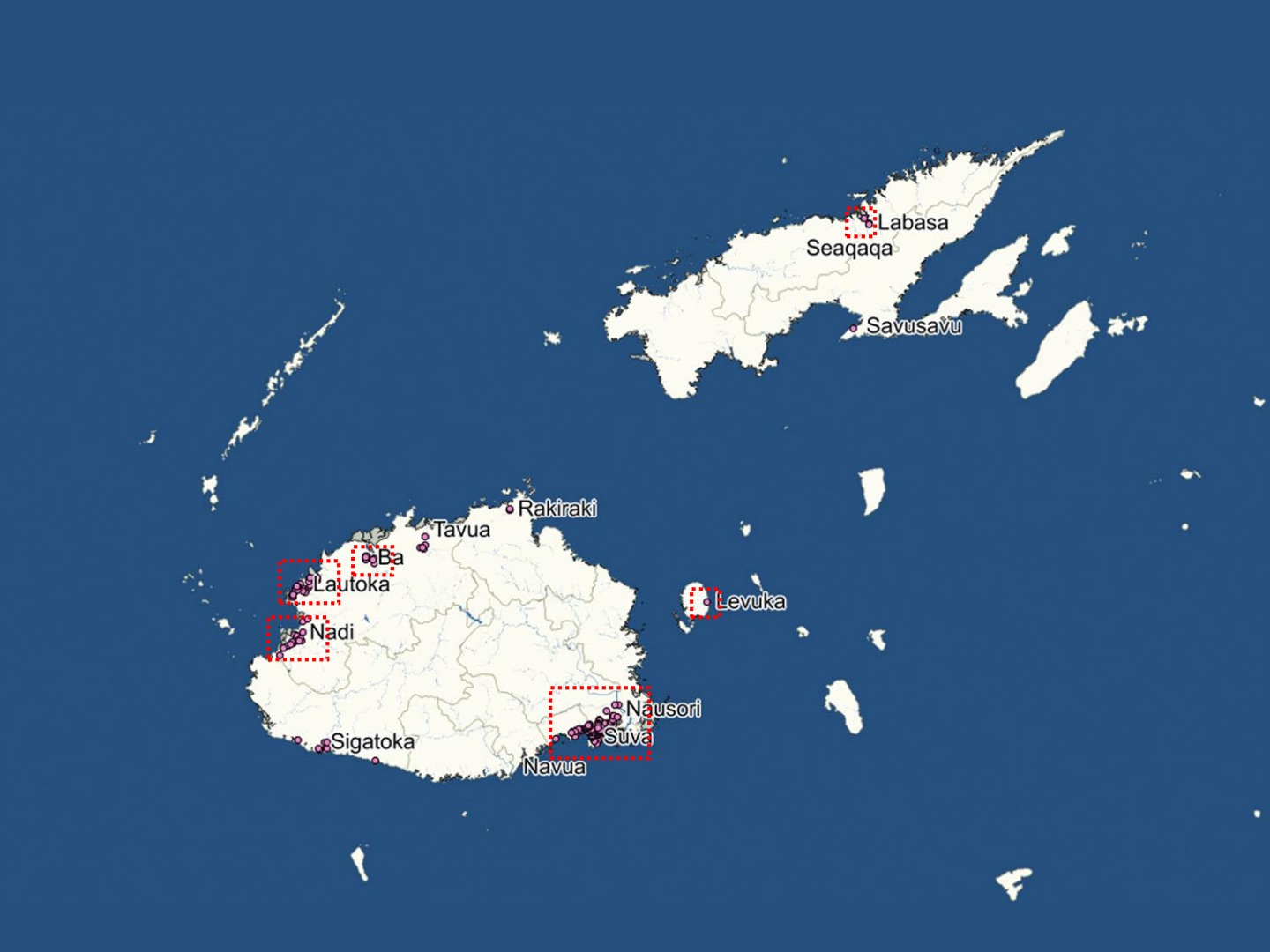
FIJI INFORMAL SETTLEMENT SITUATION ANALYSIS

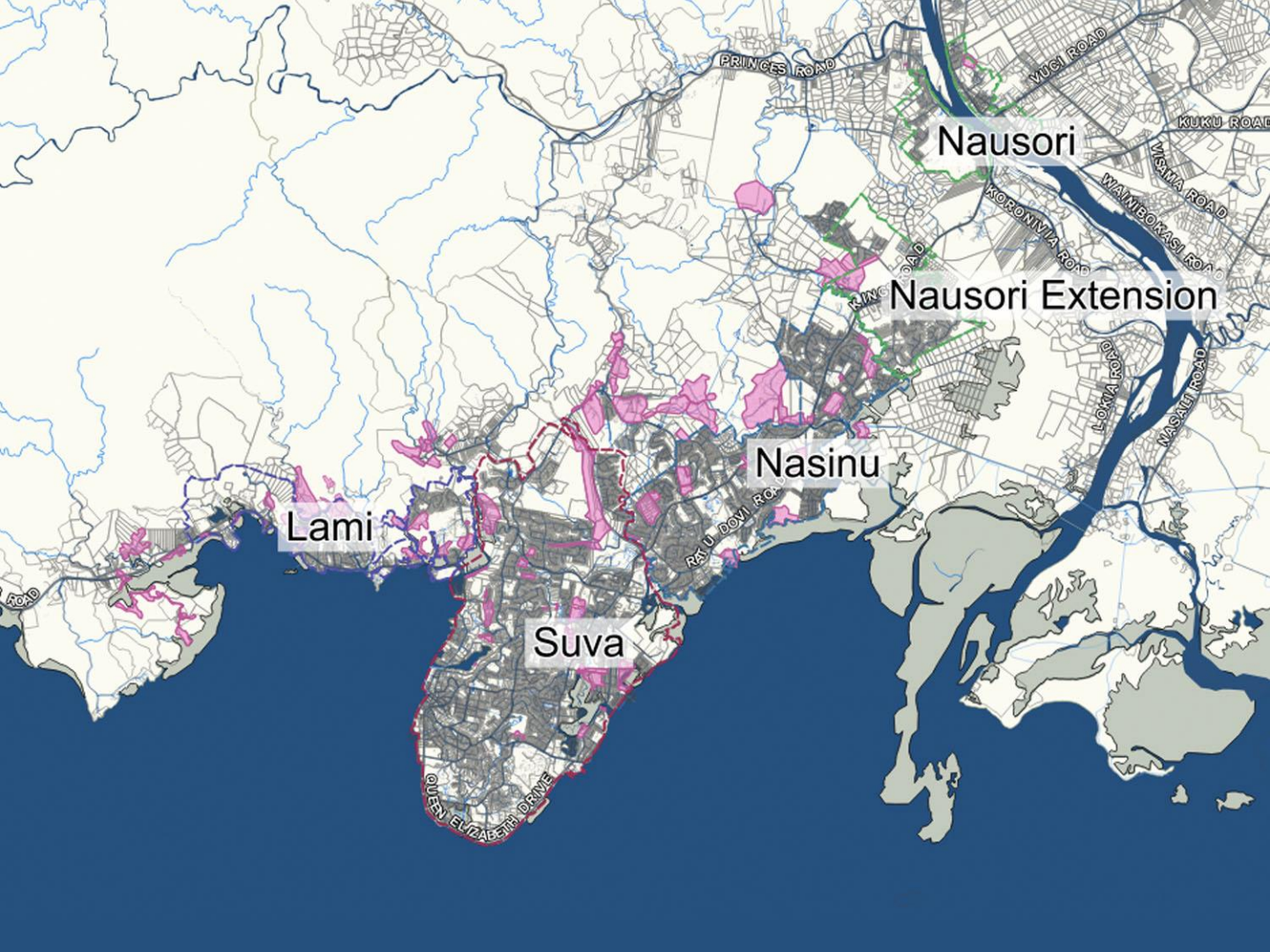
GREATER SUVA, NADI, LAUTOKA, BA, LEVUKA AND LABASA

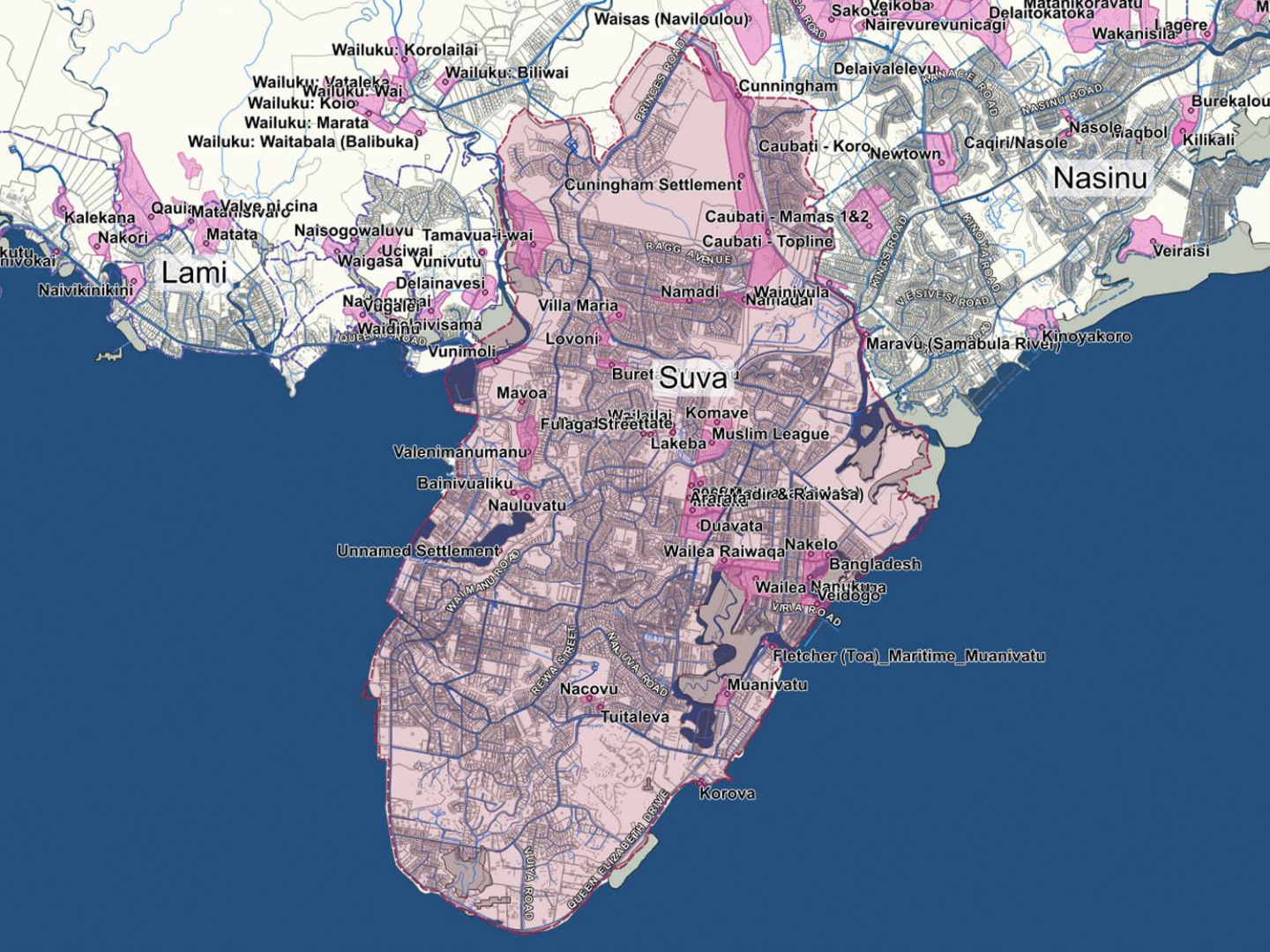
UN HABITAT
FOR A BETTER URBAN FUTURE

CITY/TOWN-WIDE URBAN ANALYSIS

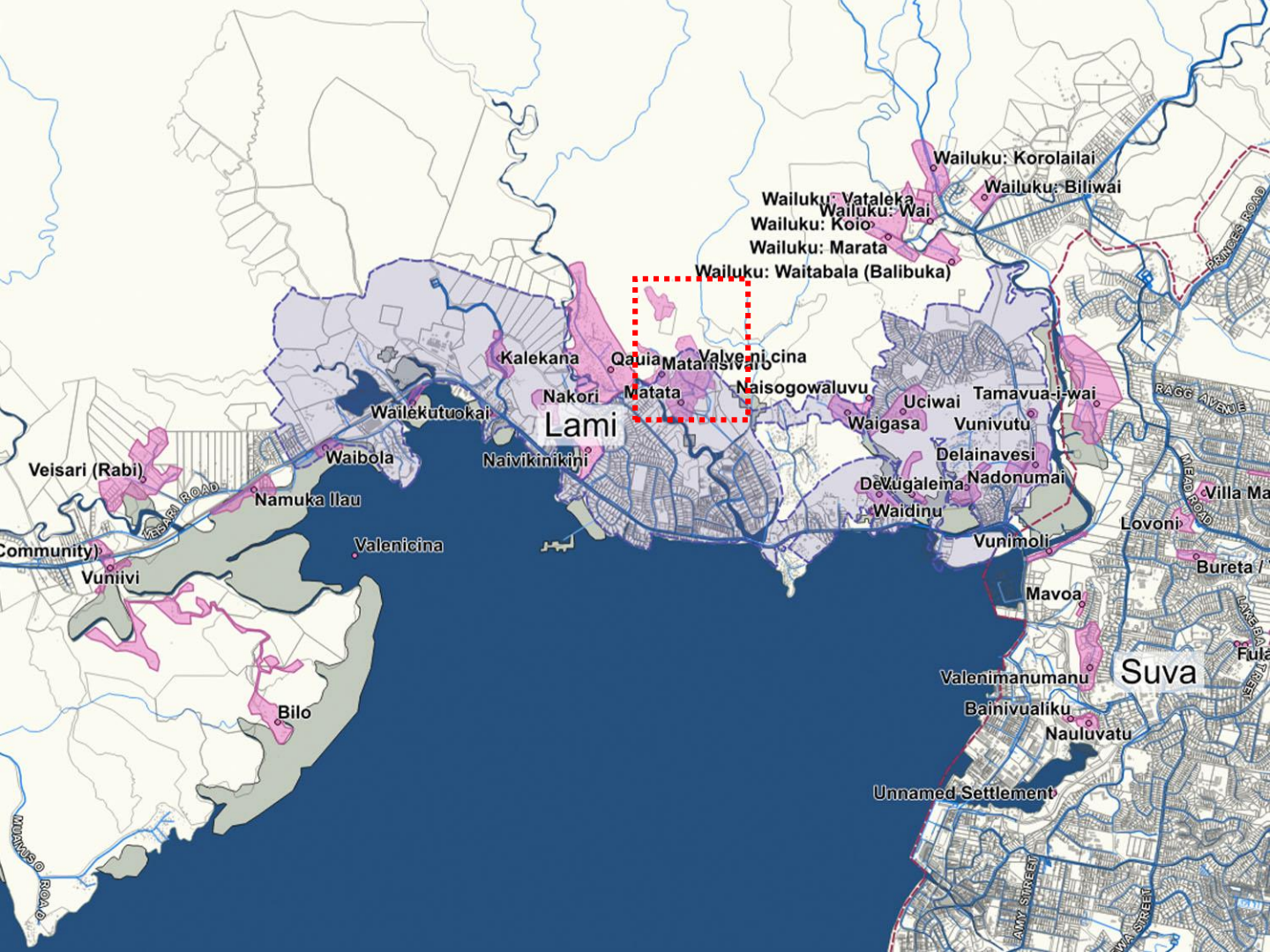
GREATER SUVA, NADI, LAUTOKA, BA, LEVUKA AND LABASA

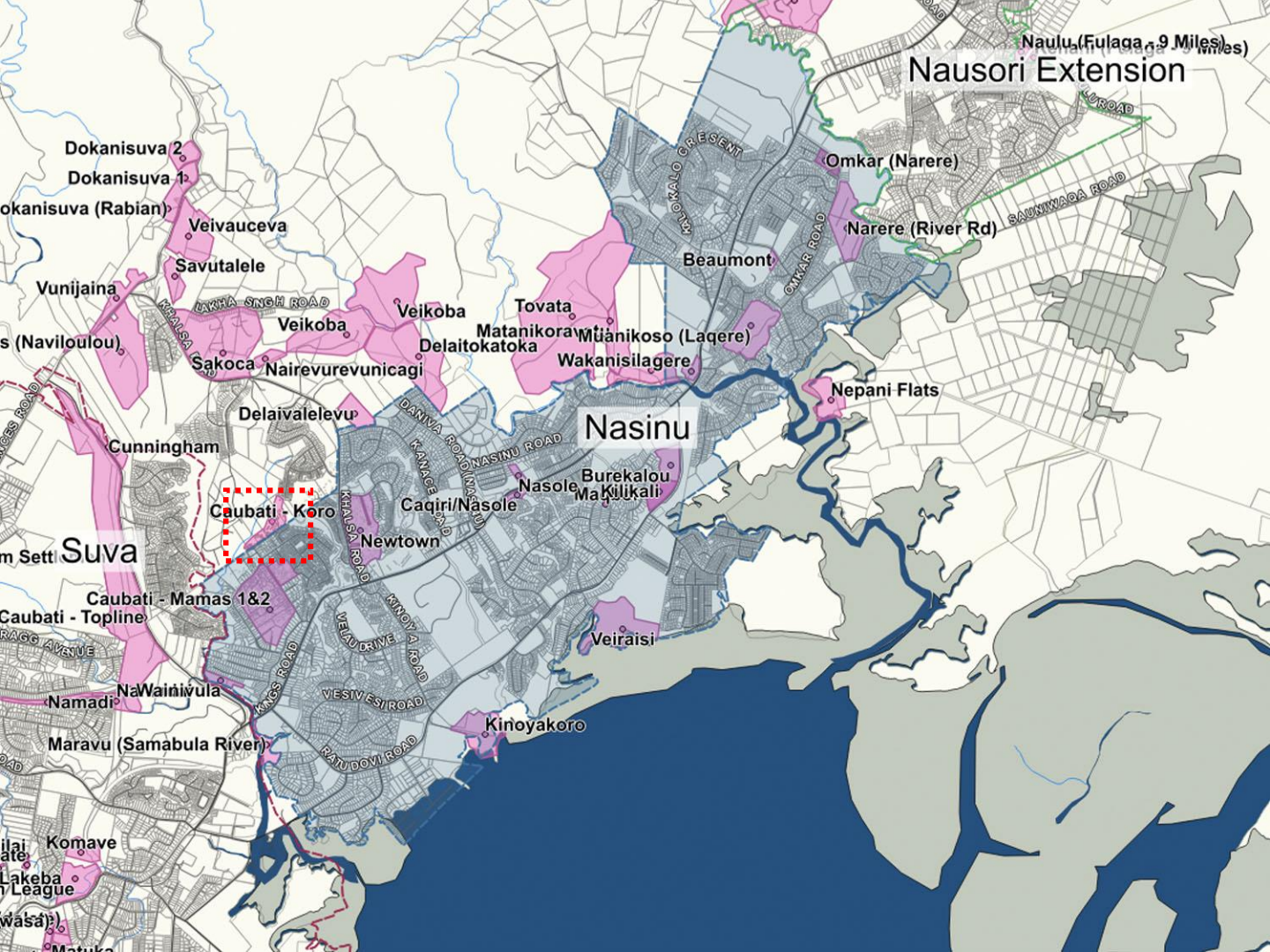

Labasa
Seaqaqa
Savusavu
Rakiraki
Tavua
Ba
Lautoka
Nadi
Levuka
Nausori
Suva
Sigatoka
Navua


Nausori
Nausori Extension
Nasinu
Lami
Suva
PRINCES ROAD
YUGI ROAD
KUKU ROAD
VISAMA ROAD
WAINIBOKASI ROAD
KOROINVIA ROAD
KING ROAD
LOKIA ROAD
NASAULI ROAD
RAKU DOVI ROAD
QUEEN ELIZABETH DRIVE

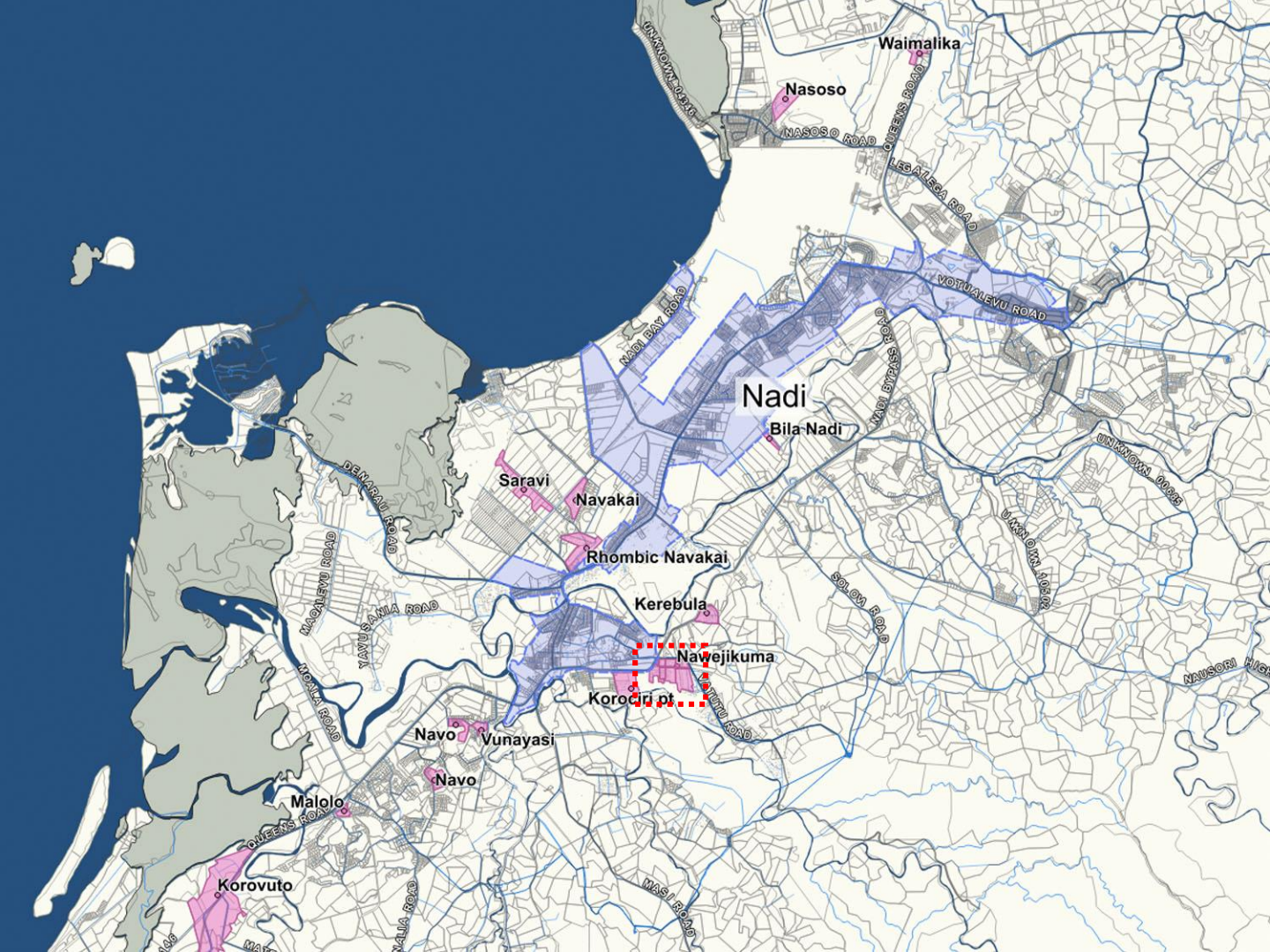


Waisas (Naviloulou)
Sakoca
Veikoba
Nairevurevunicagi
Matanikoravatu
Delaitokatoka
Lagere
Wakanisila
Wailuku: Korolailai
Wailuku: Biliwai
Wailuku: Vataleka
Wailuku: Wai
Wailuku: Koio
Wailuku: Marata
Wailuku: Waitabala (Balibuka)
Delaivalelevu
Cunningham
PRINCES ROAD
KANACE ROAD
NASINU ROAD
Burekalou
Nasole
Maqbol
Kilikali
Caqiri/Nasole
Caubati - Koro
Newtown
Nasinu
Cuningham Settlement
Kalekana
Qauia
Matanisivaro
Valve ni cina
Nakori
Matata
Naisogowaluvu
Tamavua-i-wai
Caubati - Mamas 1&2
Caubati - Topline
RAGG AVENUE
KINGS ROAD
KINOYA ROAD
Veiraisi
Uciwai
Waigasa
Vunivutu
Lami
Naivikinikini
Delainavesi
Namadi
Wainivula
Namadai
VESIVESI ROAD
Villa Maria
Lovoni
Maravu (Samabula River)
Kinoyakoro
Vunimoli
Suva
Mavoa
Komave
Fulaga Streettate
Muslim League
Lakeba
Valenimanumanu
Bainivualiku
Nauluvatu
Duavata
Unnamed Settlement
Wailea Raiwaqa
Nakelo
Bangladesh
Veidogo
WAI MANU ROAD
VIRIA ROAD
Fletcher (Toa)_Maritime_Muanivatu
REWA STREET
NALUVA ROAD
Nacovu
Muanivatu
Tuitaleva
Korova
QUEEN ELIZABETH DRIVE
VIUYA ROAD

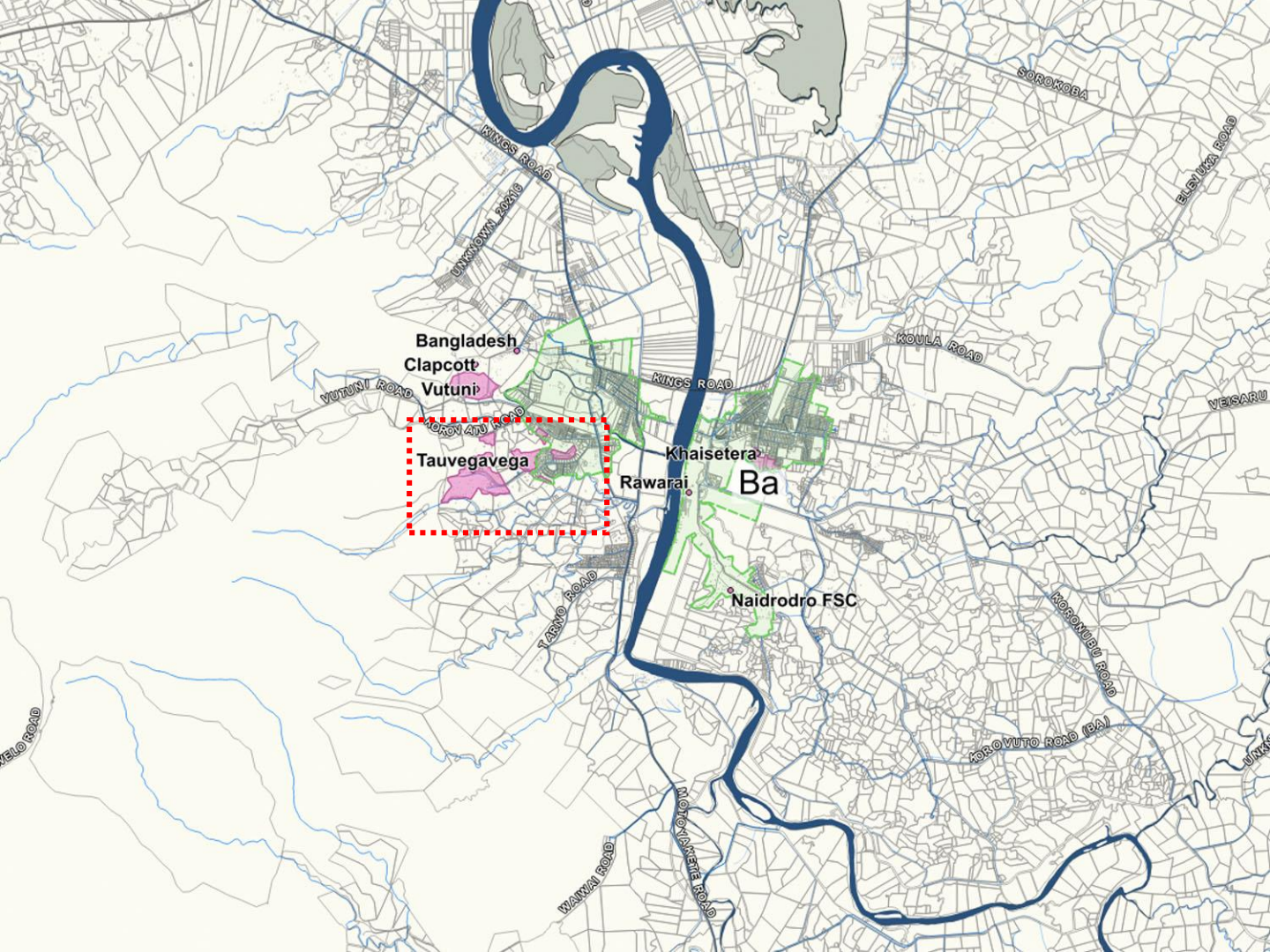

Wailuku: Korolailai
Wailuku: Biliwai
Wailuku: Vataleka
Wailuku: Wai
Wailuku: Koio
Wailuku: Marata
Wailuku: Waitabala (Balibuka)
Kalekana
Qauia
Matanisivaro
Valvenicina
Nakori
Matata
Naisogowaluvu
Uciwai
Tamavua-i-wai
Waigasa
Vunivutu
Wailekutuokai
Lami
Waibola
Naivikinikini
Delainavesi
Nadonumai
Veisari (Rabi)
Namuka Ilau
Devugaleima
Waidinu
Lovoni
Valenicina
Vunimoli
Vuniivi
Bureta
Mavoa
Suva
Valenimanumanu
Bainivualiku
Bilo
Nauluvatu
Unnamed Settlement
VEISARI ROAD
QUEEN ELIZABETH DRIVE
PRINCES ROAD
RAGG AVENUE
MEAD ROAD
LAMY STREET



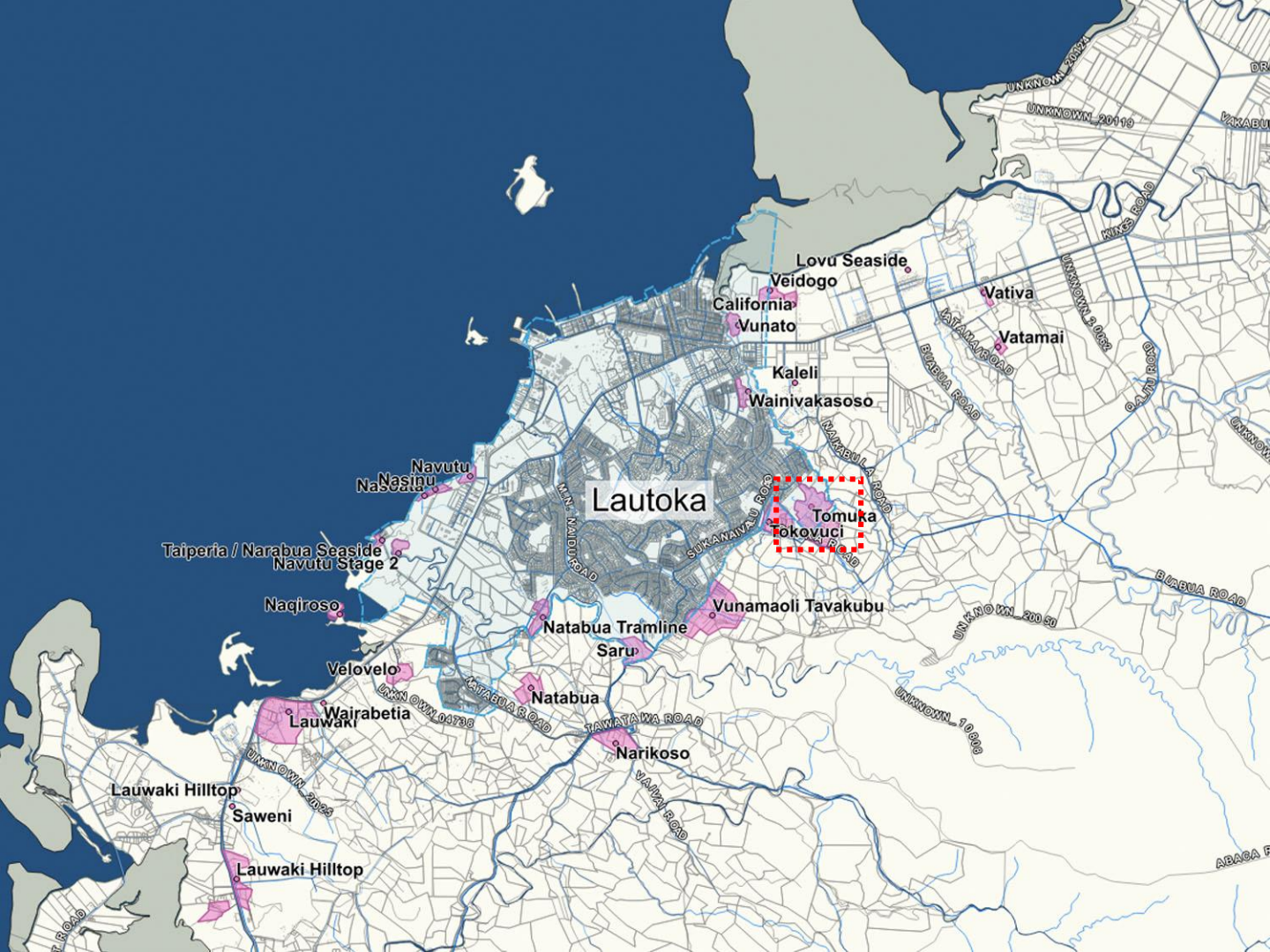
Naulu (Fulaga - 9 Miles)
Nausori Extension
Dokanisuva 2
Dokanisuva 1
okanisuva (Rabian)
Veivauceva
Savutalele
Vunijaina
s (Naviloulou)
LAKHA SINGH ROAD
KHALSA ROAD
Veikoba
Veikoba
Sakoca
Nairevurevunicagi
Delaitokatoka
Tovata
Matanikorawatu
Muanikoso (Laqere)
Wakanisilagere
Beaumont
KALOKALO CRESENT
OMKAR ROAD
Omkar (Narere)
Narere (River Rd)
SAUNIWAQA ROAD
Nepani Flats
Nasinu
Delaivalelevu
Cunningham
DANIVA ROAD (NASINU)
NASINU ROAD
KANACE ROAD
Nasole
Burekalou
Kilikali
Caqiri/Nasole
Caubati - Koro
Newtown
KHALSA ROAD
Suva
Caubati - Mamas 1&2
Caubati - Topline
RAGG AVENUE
VELAU DRIVE
KINOYA ROAD
Veiraisi
KINGS ROAD
VESIVESI ROAD
Namadi
Wainivula
Kinoyakoro
Maravu (Samabula River)
RATUDOVI ROAD
Komave
Lakeba
League



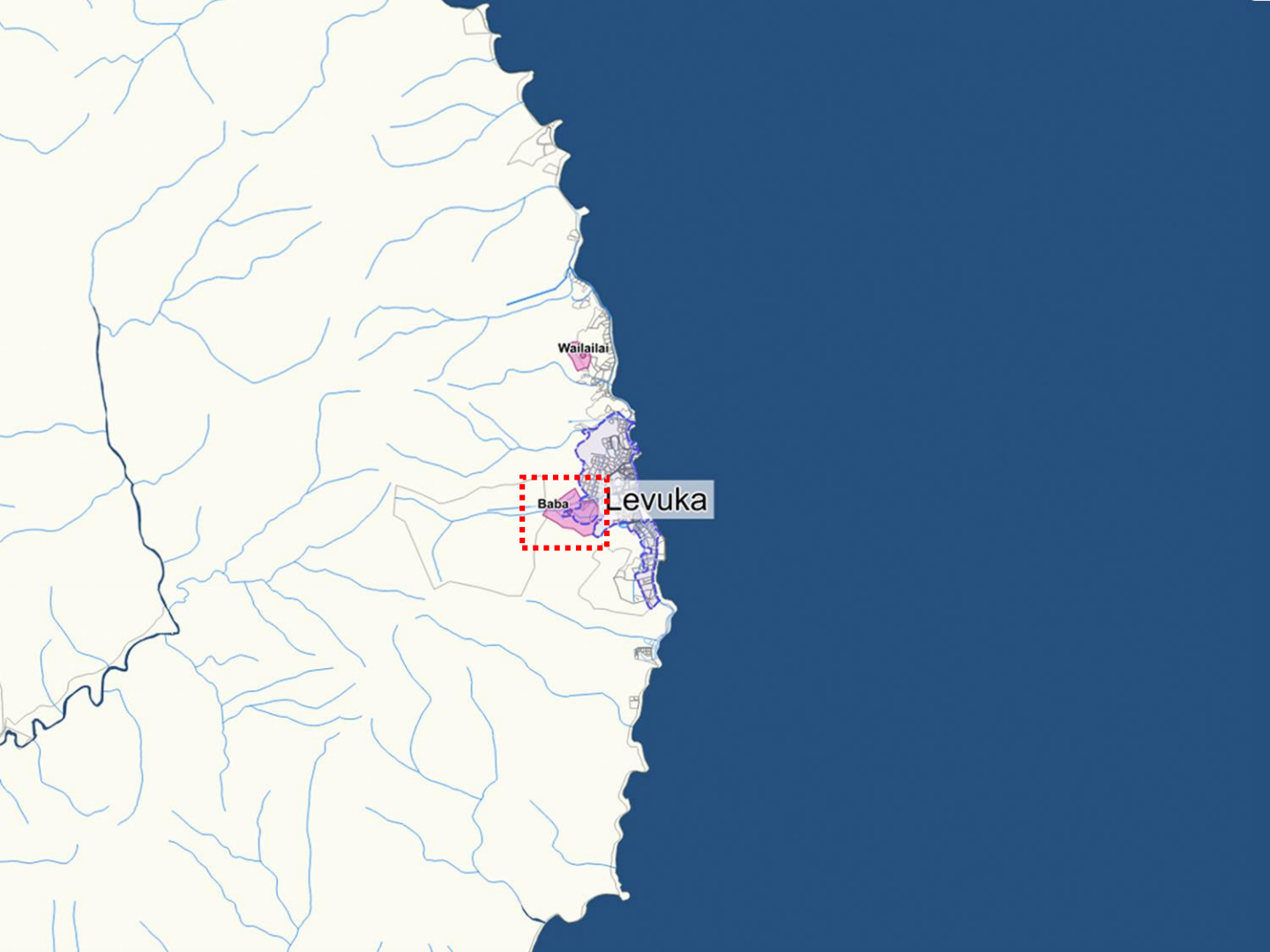
Waimalika
Nasoso
UNKNOWN_04946
NASOSO ROAD
QUEENS ROAD
LEGA LEGA ROAD
VOTUALEVU ROAD
NADI BAY ROAD
NADI BYPASS ROAD
Nadi
Bila Nadi
UNKNOWN_00685
UNKNOWN_10502
Saravi
Navakai
DENARAU ROAD
Rhombic Navakai
MAOALEVU ROAD
YAVUSANIA ROAD
SOLOVI ROAD
Kerebula
Nawejikuma
Korociri pt
VATUTU ROAD
NAUSORI HIGH
MOALA ROAD
Navo
Vunayasi
Navo
Malolo
QUEENS ROAD
Korovuto
MASI ROAD



SOROKOBA
ELEYUKA ROAD
KINGS ROAD
UNKNOWN 20216
KOULA ROAD
Bangladesh
Clapcott
Vutuni
VUTUNI ROAD
KORONATU ROAD
KINGS ROAD
VEISARU
Tauvegavega
Khaisetera
Rawarai
Ba
Naidrodro FSC
TARNO ROAD
KORONUBU ROAD
KORO VUTO ROAD (BA)
MOTOYAKETE ROAD
WAIWAI ROAD

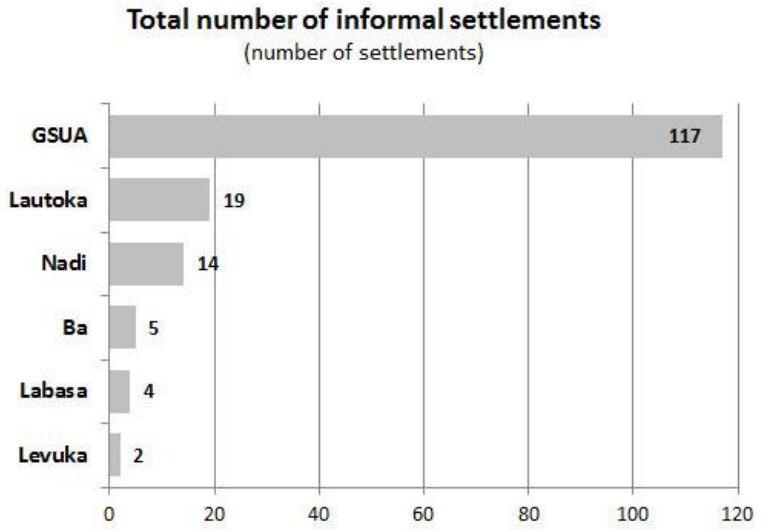


Lautoka
Lovu Seaside
Veidogo
California
Vunato
Vativa
Vatamai
Kaleli
Wainivakasoso
Navutu
Nasinu
Taiperia / Narabua Seaside
Navutu Stage 2
Naqiroso
Tomuka
Tokovuci
Vunamaoli Tavakubu
Natabua Tramline
Saru
Velovelo
Natabua
Wairabetia
Lauwaki
Narikoso
Lauwaki Hilltop
Saweni
Lauwaki Hilltop
UNKNOWN_20174
UNKNOWN_20119
KUKES ROAD
UNKNOWN_20062
VATAMAI ROAD
BUABUA ROAD
QALITU ROAD
NAIKABULA ROAD
SUKAWAIVAU ROAD
M.N. NAIDU ROAD
BUABUA ROAD
UNKNOWN_20050
UNKNOWN_10808
UNKNOWN_04736
NATABUA ROAD
TAWATAWA ROAD
VAIVAI ROAD
UNKNOWN_20024
ABACA R


Wailailai
Baba
Levuka

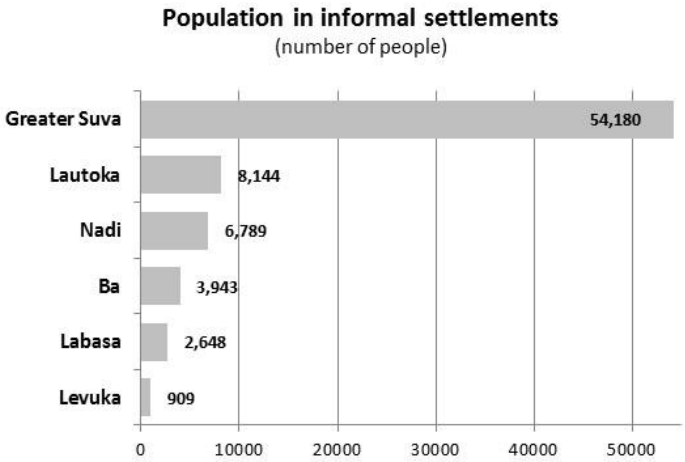
Estimating Informal Settlement Numbers

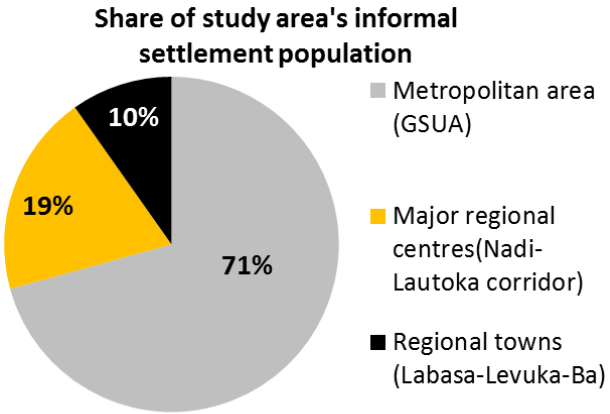
Total No. of Informal Settlements: 172
(159 in study area)

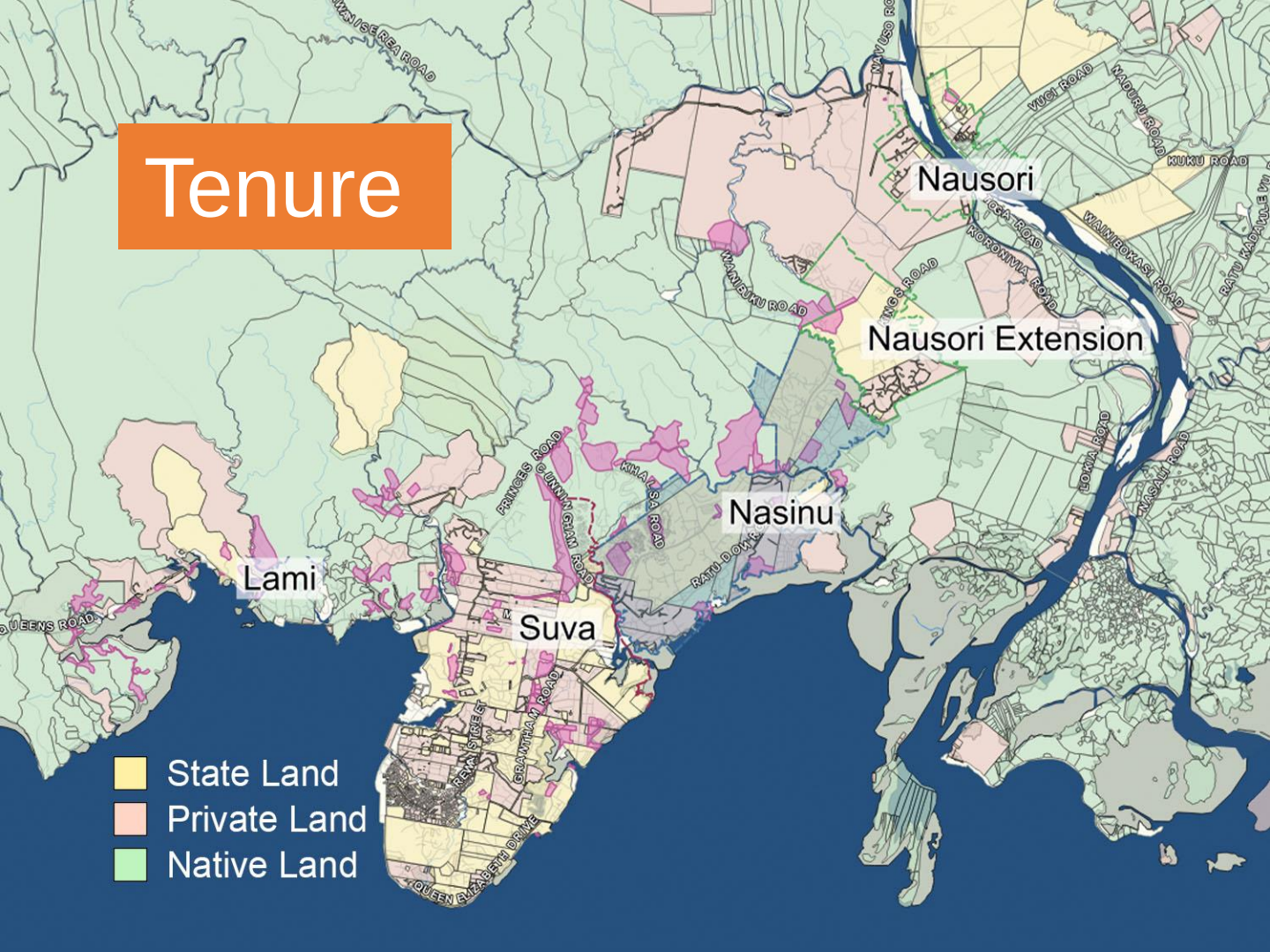


Estimating Informal Settlement Numbers

Total Population: 76,613






Tenure
Nausori
Nausori Extension
Nasinu
Suva
Lami
State Land
Private Land
Native Land

SETTLEMENT LEVEL SITUATION ANALYSIS

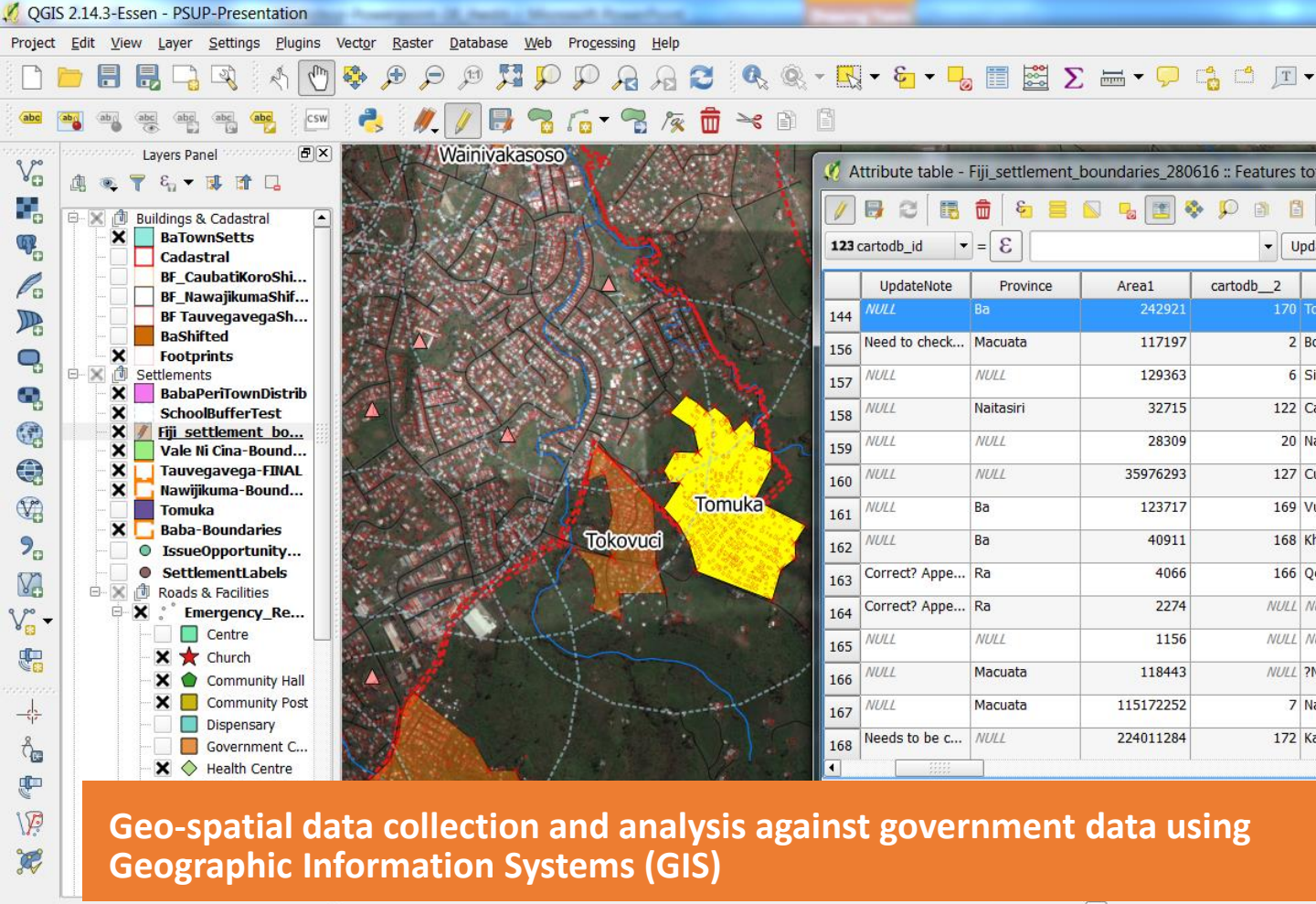
VALENICINA (LAMI), CAUBATI KORO (NASINU), NAWIJIKUMA (NADI), TOMUKA (LAUTOKA), TAUVEGAVEGA (BA) AND BABA (LEVUKA)

Methodology

- Primary data collection:
- Six focus settlements in six cities/towns
- Socio-economic household surveys
- Community mapping sessions
- In-depth interviews
- Site observation surveys
- Discussions with field workers
- Identification of settlement boundaries using GPS

- Secondary data analysis:
- FBoS census analysis
- Geo-spatial analysis using GIS
- Literature & document review
- City/town settlement boundaries making use of satellite photos, local knowledge and a proportion of ground truthing

- Analysis and assessment:
- Desktop analysis of findings using key planning frameworks



Geo-spatial data collection and analysis against government data using Geographic Information Systems (GIS)

Local / international partnership projects

Inclusive Urban Development In the Greater Suva Area

National indicators

Fiji Land Information System
Tukutuku ni Vanua

Fiji Bureau of Statistics

2007 Census of Population and Housing

FBoS Release No: 98, 2015 — 31st December, 2015

2013-14 HOUSEHOLD INCOME AND EXPENDITURE SURVEY

The 2010-11 Employment and Unemployment Survey
Preliminary Findings

Regional data

Pacific Community / Communauté du Pacifique — Statistics for Development Division

PCRAFI
Pacific Catastrophe Risk Assessment & Financing Initiative

International data and frameworks

PSUP Participatory Slum Upgrading Programme

International Labour Organization

Climate Change Vulnerability Assessment
UN-HABITAT
For a Better Urban Future

Secondary data benchmarking and analysis

PCN Socio-economic survey carried out in Baba

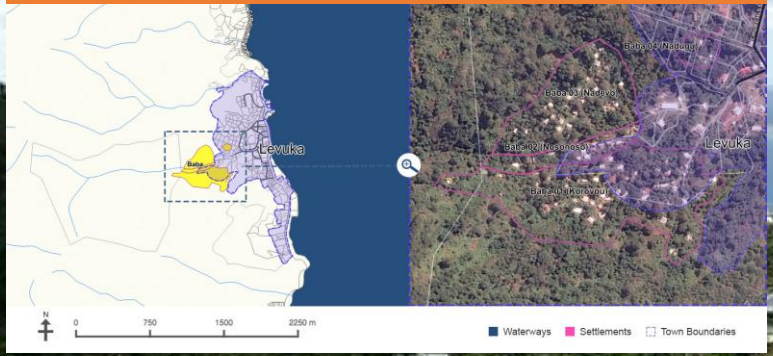
Community Mapping session Tauvegavega stage 3

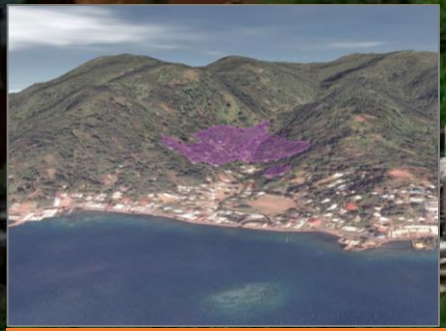
KEY
ROADS
CHURCHES
Community Map Nawijikuma & Nalagi

Settlement Selection

- Settlement typologies appeared consistent with the city's settlement examples
- Willingness of partners to potentially work in these settlements
- Sites weren't extreme relocation cases
  - Not hazardous, dangerous or environmentally challenged areas
- Possibility for water & sanitation to be addressed
- Proportion of security of tenure for residents

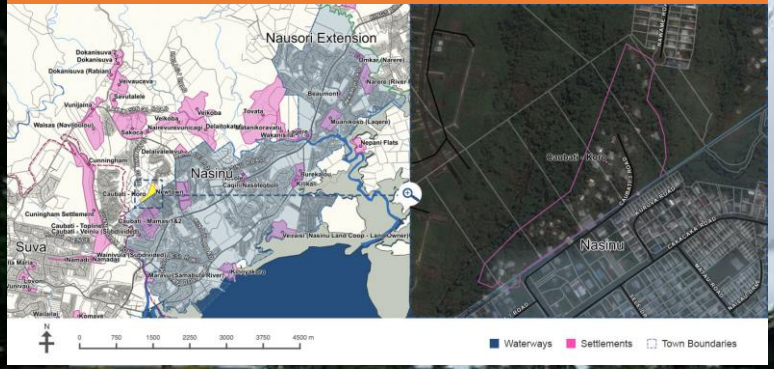
Baba Settlement





Location: Levuka, town and peri-urban. State and native land.	**Land area: 13.6 hectares**	**Population: 579, 42.7 persons/hectare**	**Dwellings: 115**

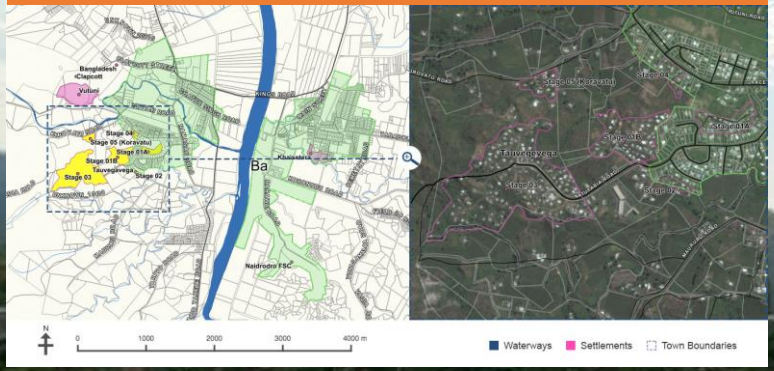
Caubati Koro Settlement

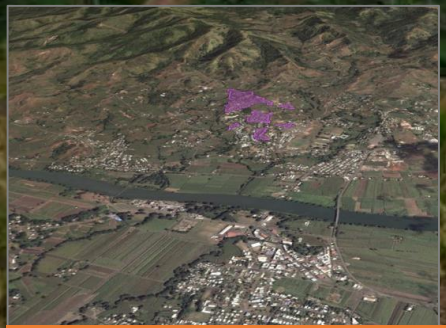


Location: Nasinu peri-urban, Suva. native land.	**Land area: 4.0 hectares**	**Population: 317 78.4 persons/ hectare**	**Dwellings: 54**

NOTICE

Tauvegavega Settlement

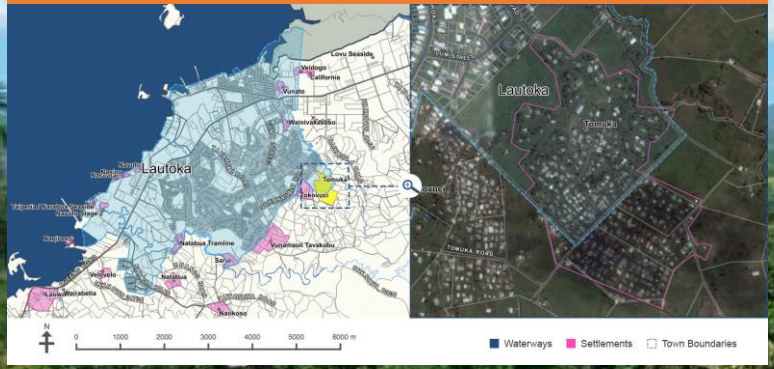


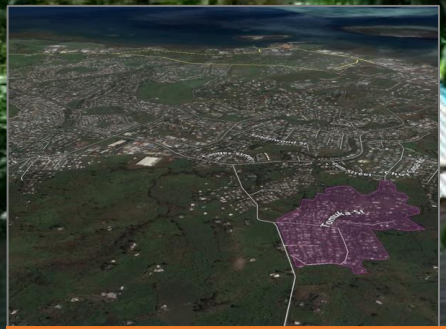


Location: Ba peri-urban area. Native land transferred to MLGHEIT	Land area: 34.3 hectares	Population: 1,140 (33.2 persons per hectare)	Dwellings: 307

10

Tomuka Settlement

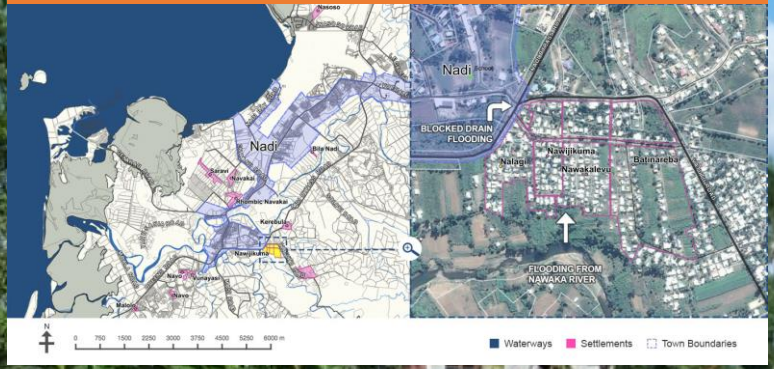


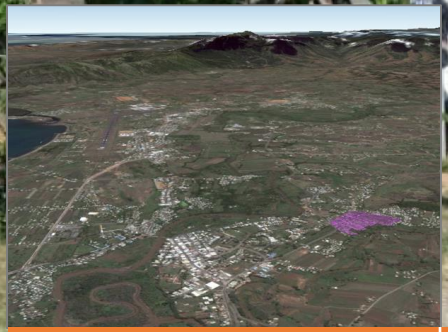


Location: Lautoka town and peri-urban area. Native land.	**Land area: 24.4 hectares**	**Population: 2300 (93.3 persons per hectare)**	**Dwellings: 476**

TOMUKA METHODIST CIRCUIT

Nawijikuma Settlement

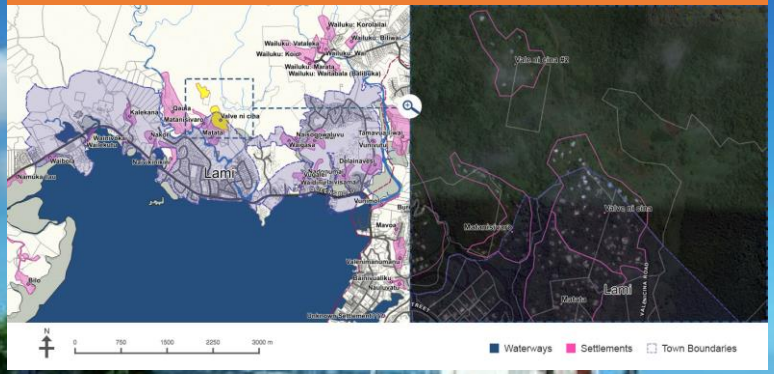


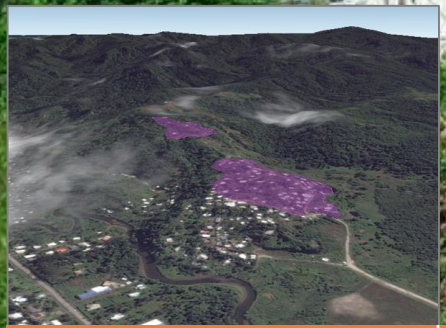


Location: Nadi, peri-urban. Native land.	Land area: 14.5 hectares	Population: 700 22 persons/hectare	Dwellings: 153

NAWAKA RUGBY CLUB

Valenicina Settlement





Location: Lami, peri-urban. Native land.	Land area: 10.6 hectares	Population: 721 68.1 persons/hectare	Dwellings: 106

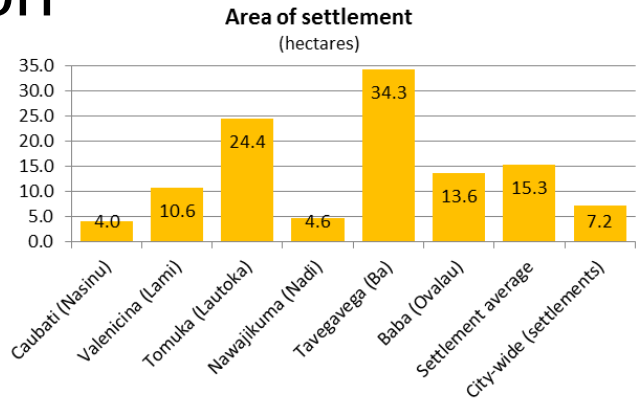
Land and Population

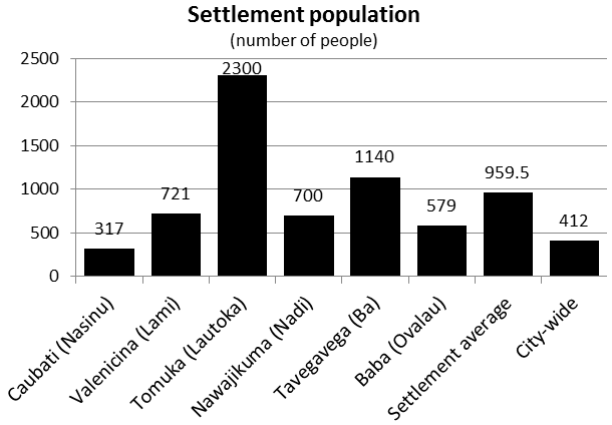
Settlement Size

- 6 Sett. Area average = 15 hectares
- Citywide average = 7.2 hectares

Settlement Population

- 6 Sett. population average = 960
- Citywide average = 412
- Tomuka & Tauvegavega we're the largest settlements in size & population (however, population density was lower in Tauvegavega)

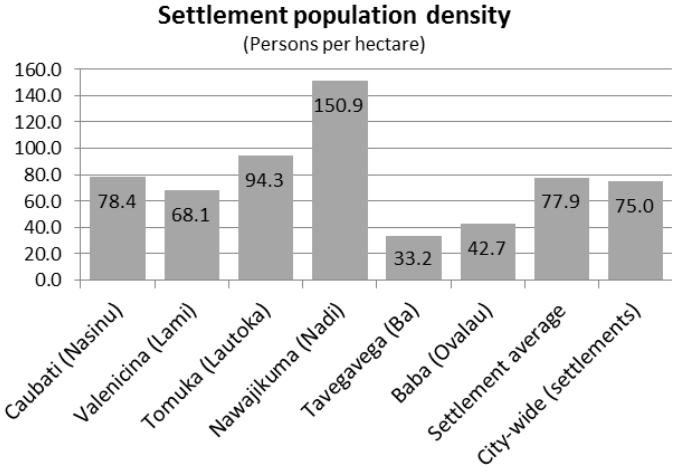




Land and Population

Population Density

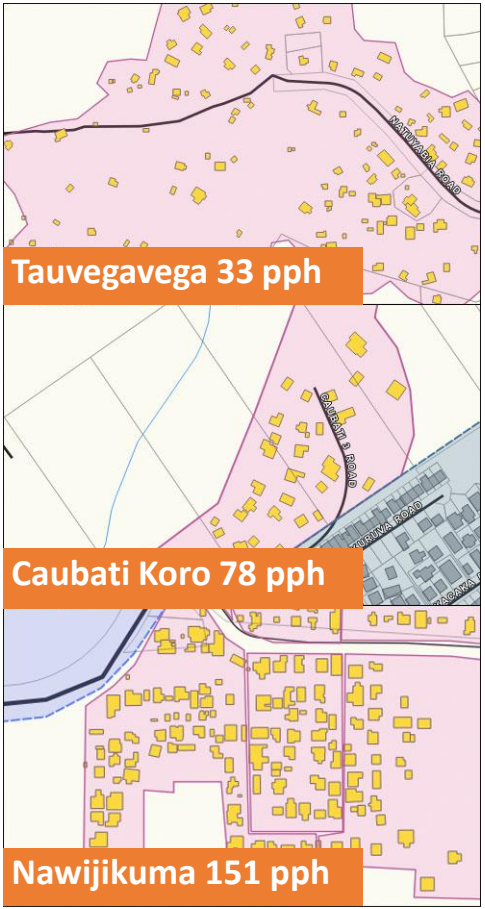
- 6 Sett. Area average = 78 pph
- Citywide average = 75 pph
- Nawakijuma highest at 151 pph (double citywide and focus settlement average)
- Caubati Koro, similar to the citywide settlement average for total population & population density (317 population & 78 pph)



Land and Population

Population Density

- 6 Sett. Area average = 78 pph
- Citywide average = 75 pph
- Nawakijuma highest at 151 pph (double citywide and focus settlement average)
- Caubati Koro, similar to the citywide settlement average for total population & population density (317 population & 78 pph)



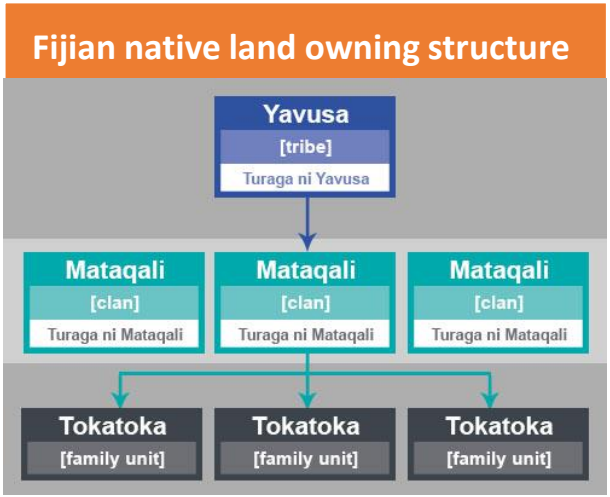
Land, Tenure and Community Governance

Settlements and land ownership

- Four of the six settlements had complex ownership, tenure and location characteristics
- Caubati Koro & Valenicina we're in a single location and had a single land owner

Tenure

- All settlements were on native land
- Most had started to take some steps toward securing tenure
- Ministry of Local Government had taken out a head lease in Tauvegavega

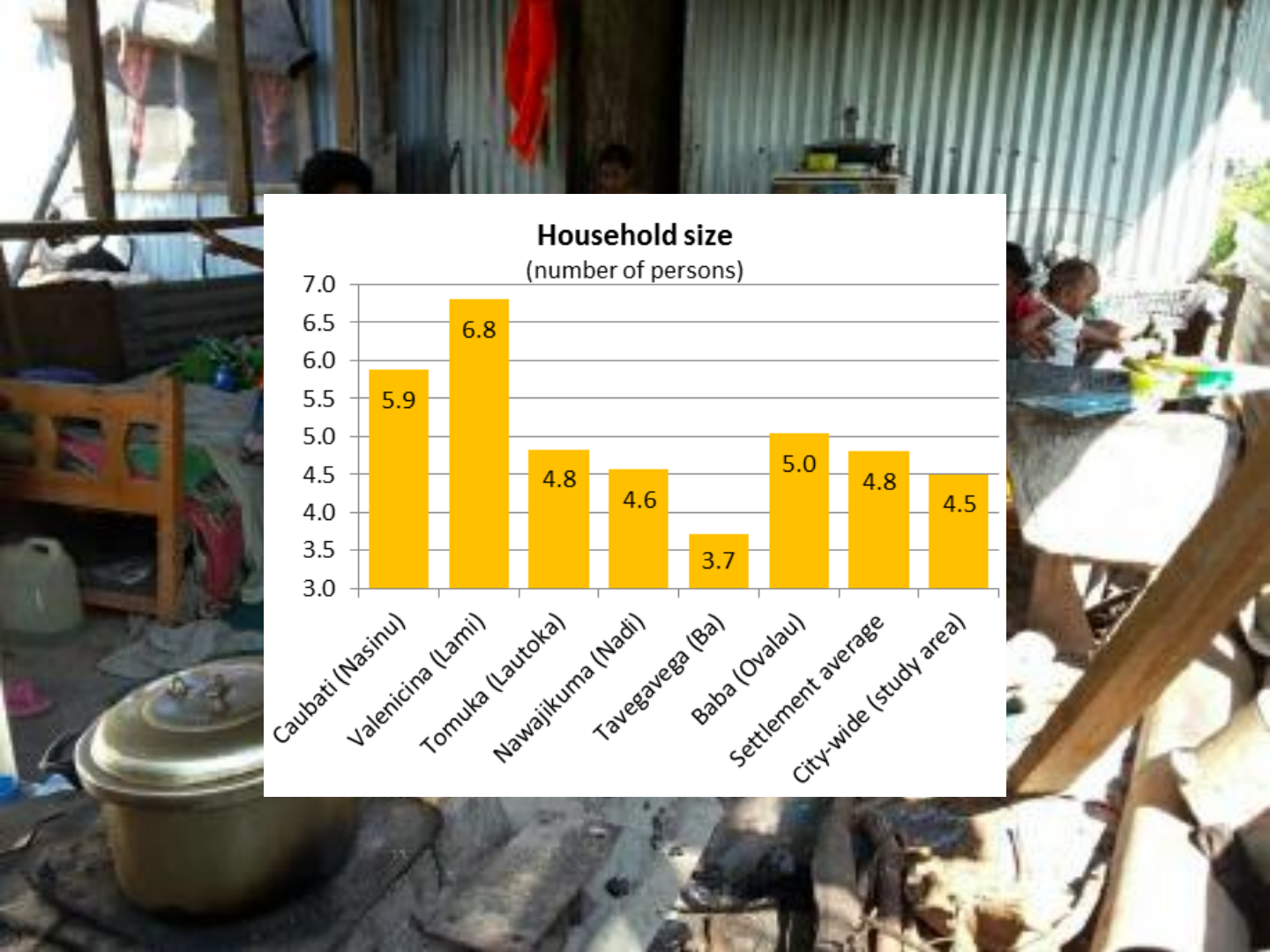


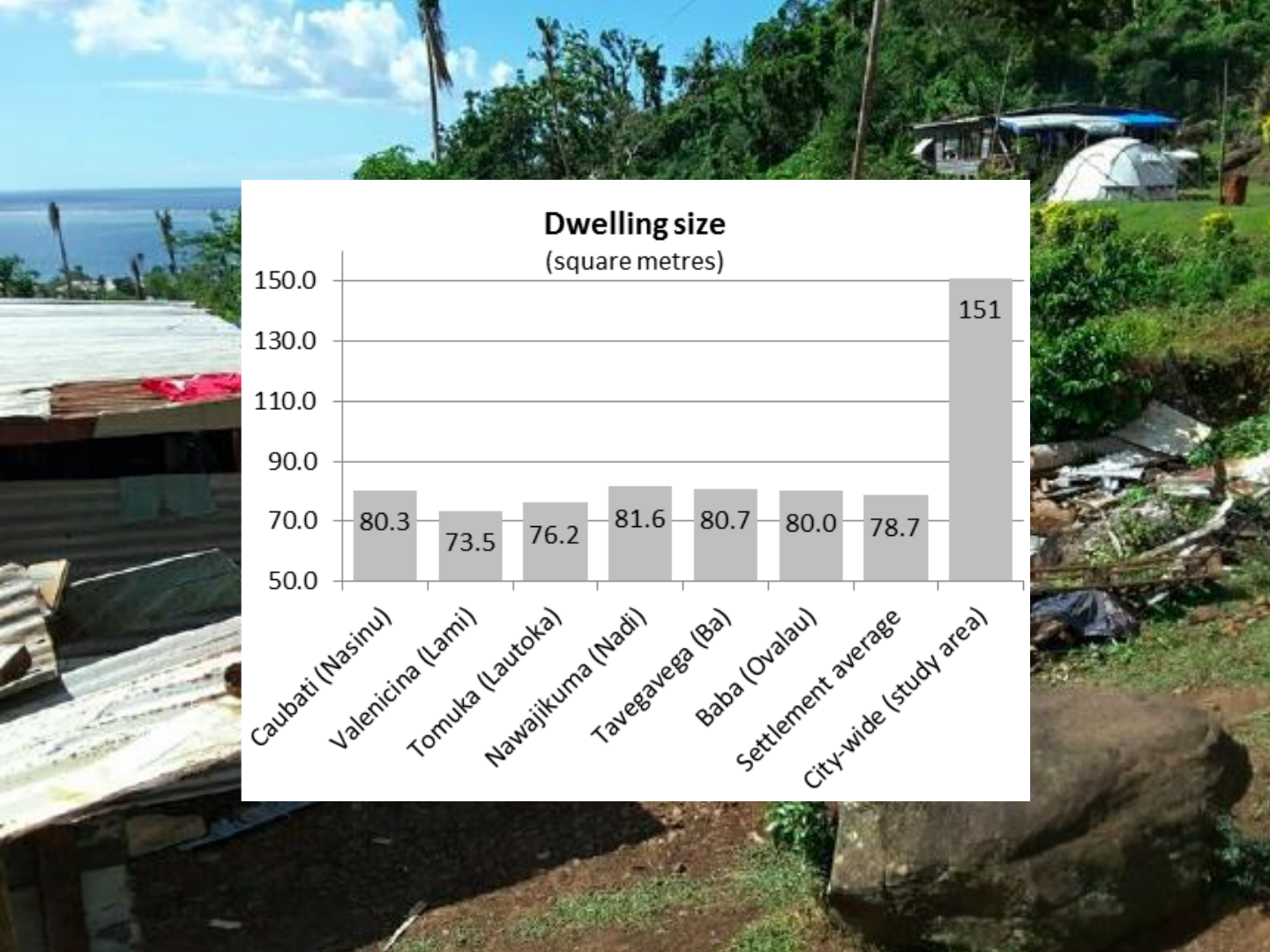
Land, Tenure and Community Governance

Community organisation

- Most settlements had some form of committee either operation or in dormancy.
- Most had a community leader/coordinator
- Many also had an advisory councilor
- (for a breakdown refer to Appendix B.2 in report)

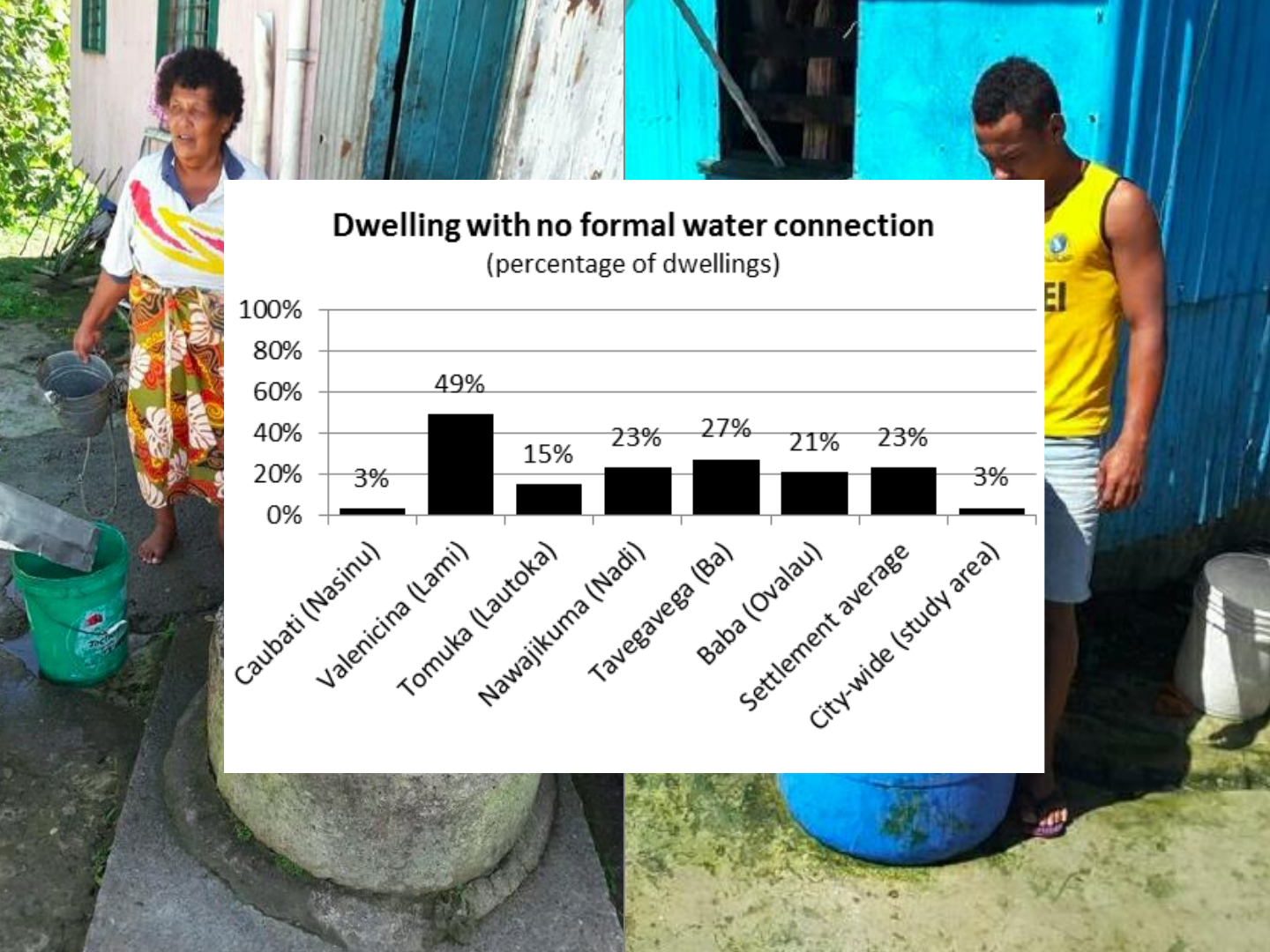
Other structures. There we're a range of other groups and affiliations that structure community governance for example through church, clan affiliation.

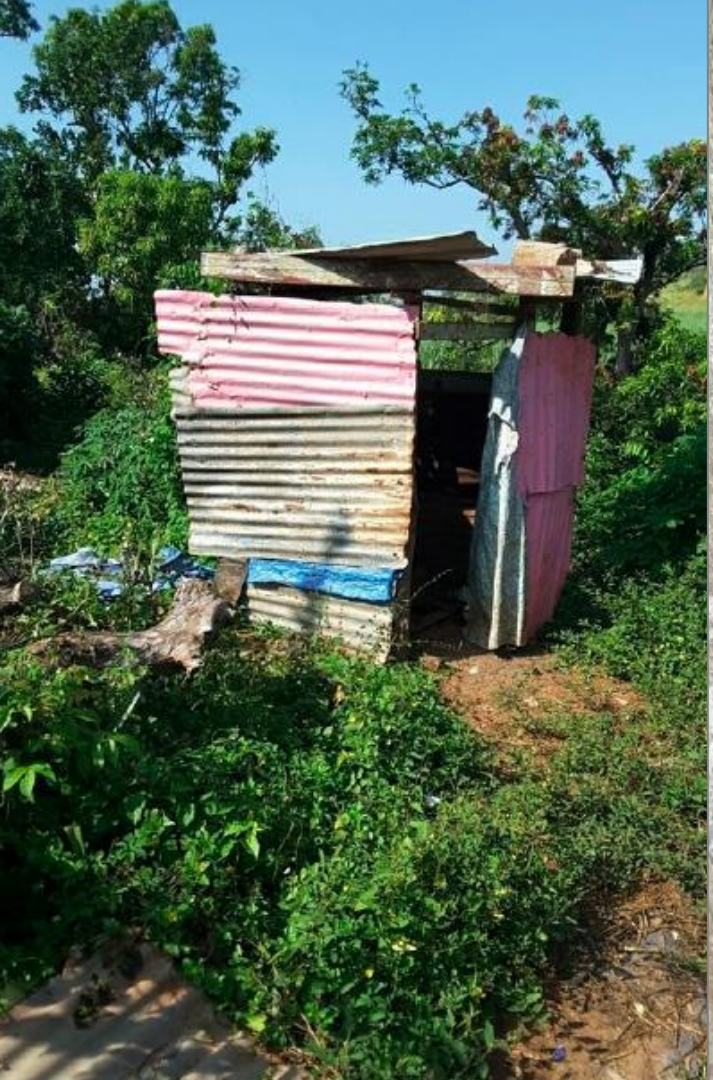

Household size
(number of persons)
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
5.9
6.8
4.8
4.6
3.7
5.0
4.8
4.5
Caubati (Nasinu)
Valenicina (Lami)
Tomuka (Lautoka)
Nawajikuma (Nadi)
Tavegavega (Ba)
Baba (Ovalau)
Settlement average
City-wide (study area)

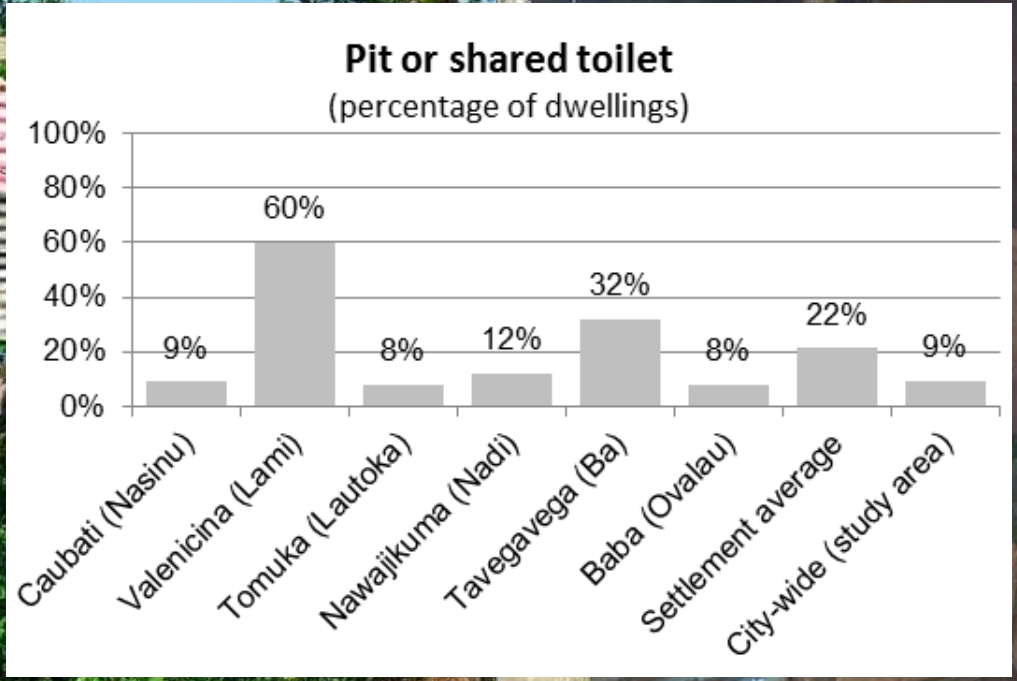

Dwelling size
(square metres)
150.0
130.0
110.0
90.0
70.0
50.0
80.3
73.5
76.2
81.6
80.7
80.0
78.7
151
Caubati (Nasinu)
Valenicina (Lami)
Tomuka (Lautoka)
Nawajikuma (Nadi)
Tavegavega (Ba)
Baba (Ovalau)
Settlement average
City-wide (study area)

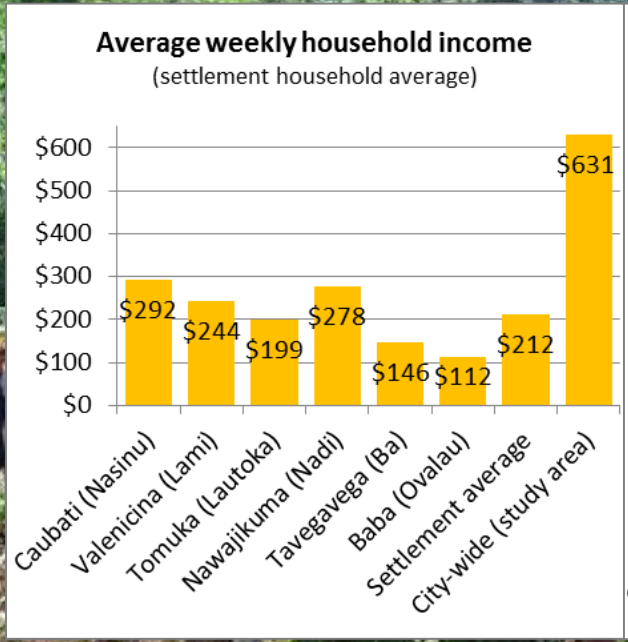
Cost of dwelling
(average cost ($FJD))
$100,000
$80,000
$60,000
$40,000
$20,000
$0
$10,036
$9,592
$8,525
$6,406
$8,640
$106,000
Tomuka (Lautoka)
Nawajikuma (Nadi)
Tavegavega (Ba)
Baba (Ovalau)
Settlement average
City-wide (study area)

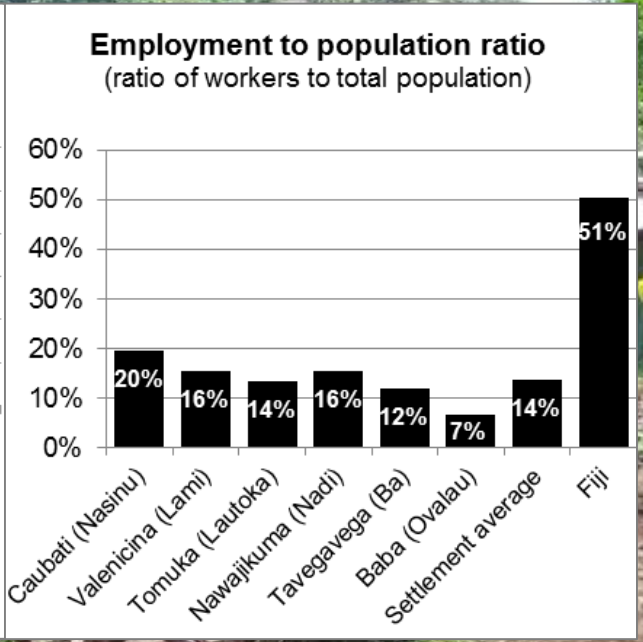
DEGEI


Dwelling with no formal water connection
(percentage of dwellings)
100%
80%
60%
40%
20%
0%
3%
49%
15%
23%
27%
21%
23%
3%
Caubati (Nasinu)
Valenicina (Lami)
Tomuka (Lautoka)
Nawajikuma (Nadi)
Tavegavega (Ba)
Baba (Ovalau)
Settlement average
City-wide (study area)



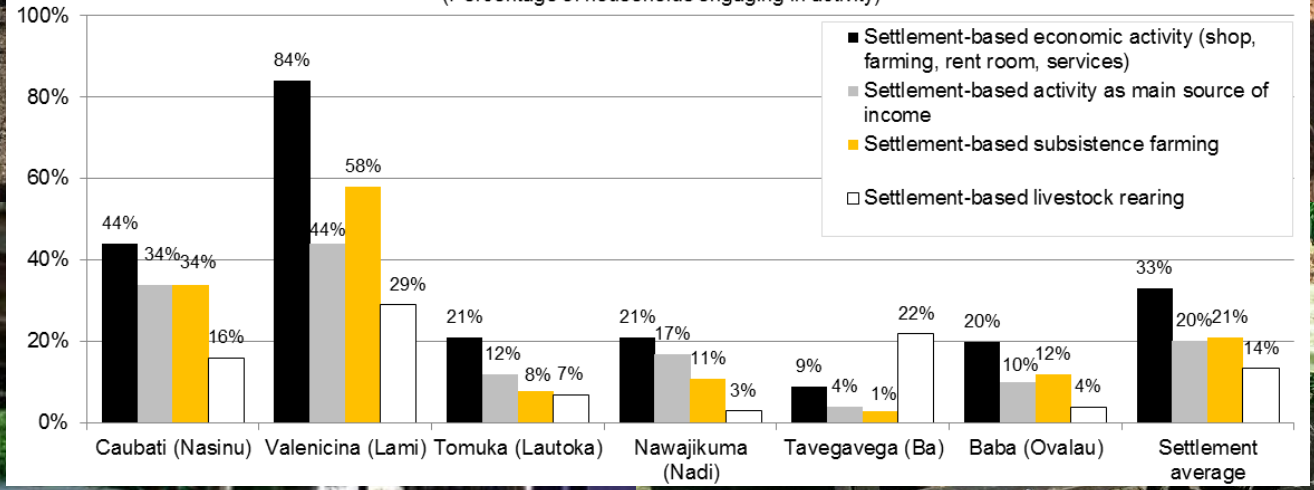

Pit or shared toilet
(percentage of dwellings)
100%
80%
60%
40%
20%
0%
9%
60%
8%
12%
32%
8%
22%
9%
Caubati (Nasinu)
Valenicina (Lami)
Tomuka (Lautoka)
Nawajikuma (Nadi)
Tavegavega (Ba)
Baba (Ovalau)
Settlement average
City-wide (study area)

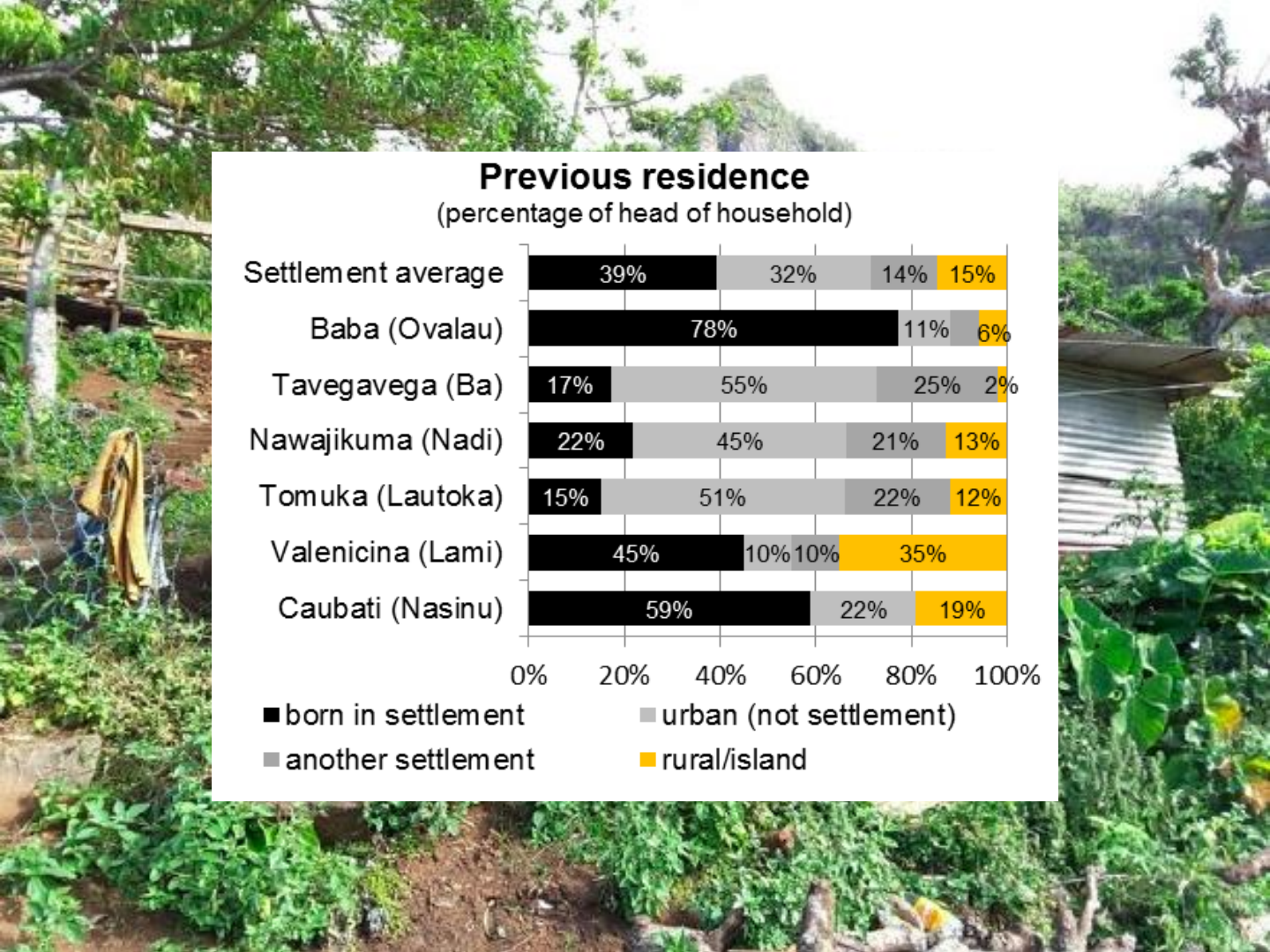

Average weekly household income
(settlement household average)
$600
$500
$400
$300
$200
$100
$0
$292
$244
$199
$278
$146
$112
$212
$631
Caubati (Nasinu)
Valenicina (Lami)
Tomuka (Lautoka)
Nawajikuma (Nadi)
Tavegavega (Ba)
Baba (Ovalau)
Settlement average
City-wide (study area)


Employment to population ratio
(ratio of workers to total population)
60%
50%
40%
30%
20%
10%
0%
20%
16%
14%
16%
12%
7%
14%
51%
Caubati (Nasinu)
Valenicina (Lami)
Tomuka (Lautoka)
Nawajikuma (Nadi)
Tavegavega (Ba)
Baba (Ovalau)
Settlement average
Fiji

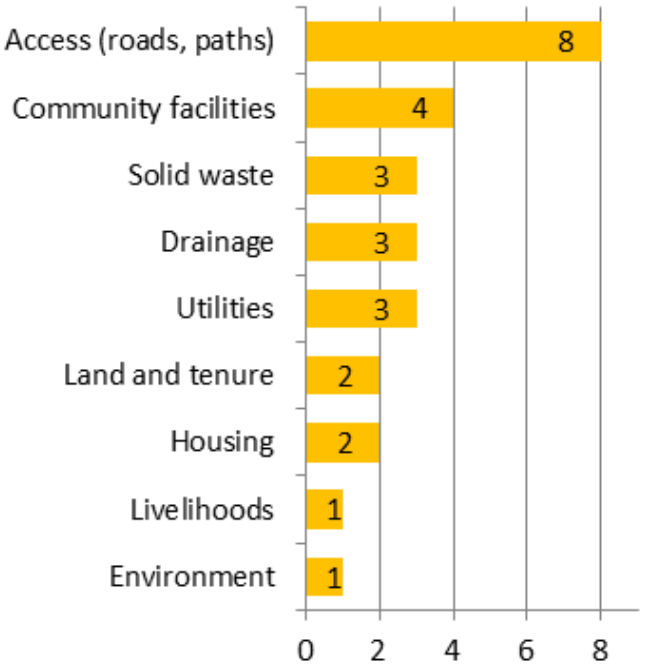
Settlement based economic activity

(Percentage of households engaging in activity)




Previous residence
(percentage of head of household)
Settlement average
Baba (Ovalau)
Tavegavega (Ba)
Nawajikuma (Nadi)
Tomuka (Lautoka)
Valenicina (Lami)
Caubati (Nasinu)
39%
32%
14%
15%
78%
11%
6%
17%
55%
25%
2%
22%
45%
21%
13%
15%
51%
22%
12%
45%
10%
10%
35%
59%
22%
19%
0%
20%
40%
60%
80%
100%
born in settlement
urban (not settlement)
another settlement
rural/island

Community priority projects
(no. projects by theme)



Access

Community Facilities

Solid Waste

Drainage & Flooding

Utilities

Baba sanitation project: Surviving TC Winston.