**The Government
of The Republic
of Vanuatu**

Vanuatu E-Gov, Education and Language
Office of the Government Chief Information Officer (OGCIO)
Presentation at National ICT Day

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- **Vanuatu's Progress**

- **Classic E-Gov Foci**

- **M-GOV**

- **Language, Culture and ICTs**

Vanuatu's Progress

The World Bank Knowledge Economy Index measures the e-readiness of society...

#1: Sweden; 9.43/10

#6: New Zea.; 8.97/10

#9: Australia; 8.88/10

#12: USA; 8.77/10

#93: Fiji; 3.94/100

#100?: Vanuatu; 3.70/10?

#145: Haiti; 2.22/10

Performance
Average annual GDP growth (%)
Human Development Index

Economic Incentive and Institutional Regime
Tariff and non-tariff barriers
Regulatory Quality
Rule of Law

Education and Human Resources
Adult literacy rate (% age 15 and above)
Secondary enrolment
Tertiary enrolment

Innovation System
Researchers in R&D, per million population
Patent applications granted by the USPTO, per million population
Scientific and technical journal articles, per million population

Information Infrastructure
Telephones per 1,000 persons, (telephone mainlines + mobile phones)
Computers per 1,000 persons
Internet users per 10,000 persons

Source: The Knowledge Assessment Methodology (KAM) website (www.worldbank.org/kam)

Date: 2012

Vanuatu is rated 135th of 190 countries in the world in the UNPAN survey of e-government status

RANK	SCORE	COUNTRY	FLAG
1	98.3/100	S. KOREA	
2	91.3	HOLLAND	
3	89.7	UK	
5	86.9	USA	
6	86.4	FRANCE	
12	83.9	AUSTRALIA	
13	83.8	NZ	
105	46.7	FIJI	
113	43.6	PALAU	
114	43.5	SAMOA	
134	35.4	TUVALU	
135	**35.1**	**VANUATU**	
141	32.4	NAURU	
146	31.3	MARSHALL IS.	
149	29.9	KIRIBATI	
168	24.2	SOLOMONS	
177	21.2	PAPUA N. G.	
190	6.4	SOMALIA	

VANUATU SCORE COMPONENTS

ONLINE SERVICE	INFRA-STRUCTURE	HUMAN CAPACITY
22.2	17.8	65.3

E-PARTICIPATION
5.3

Source: UN Public Administration Network, 2012

Vanuatu is ranked moderately low in the UNPAN e-gov report, but has made major progress in just two years

UNPAN E-gov Score

GOAL

2012
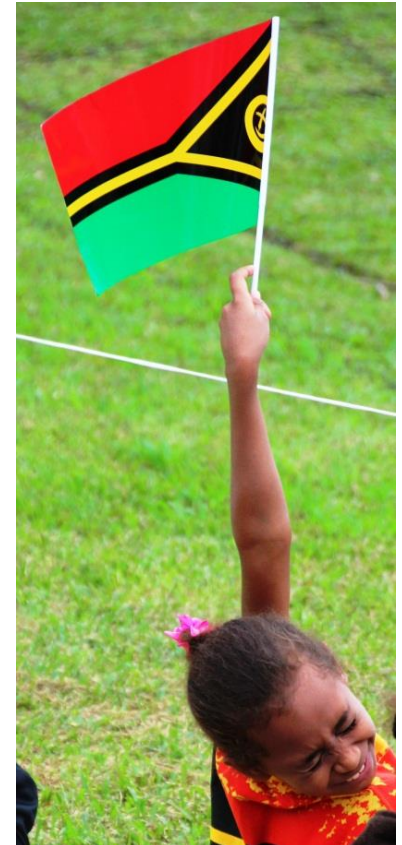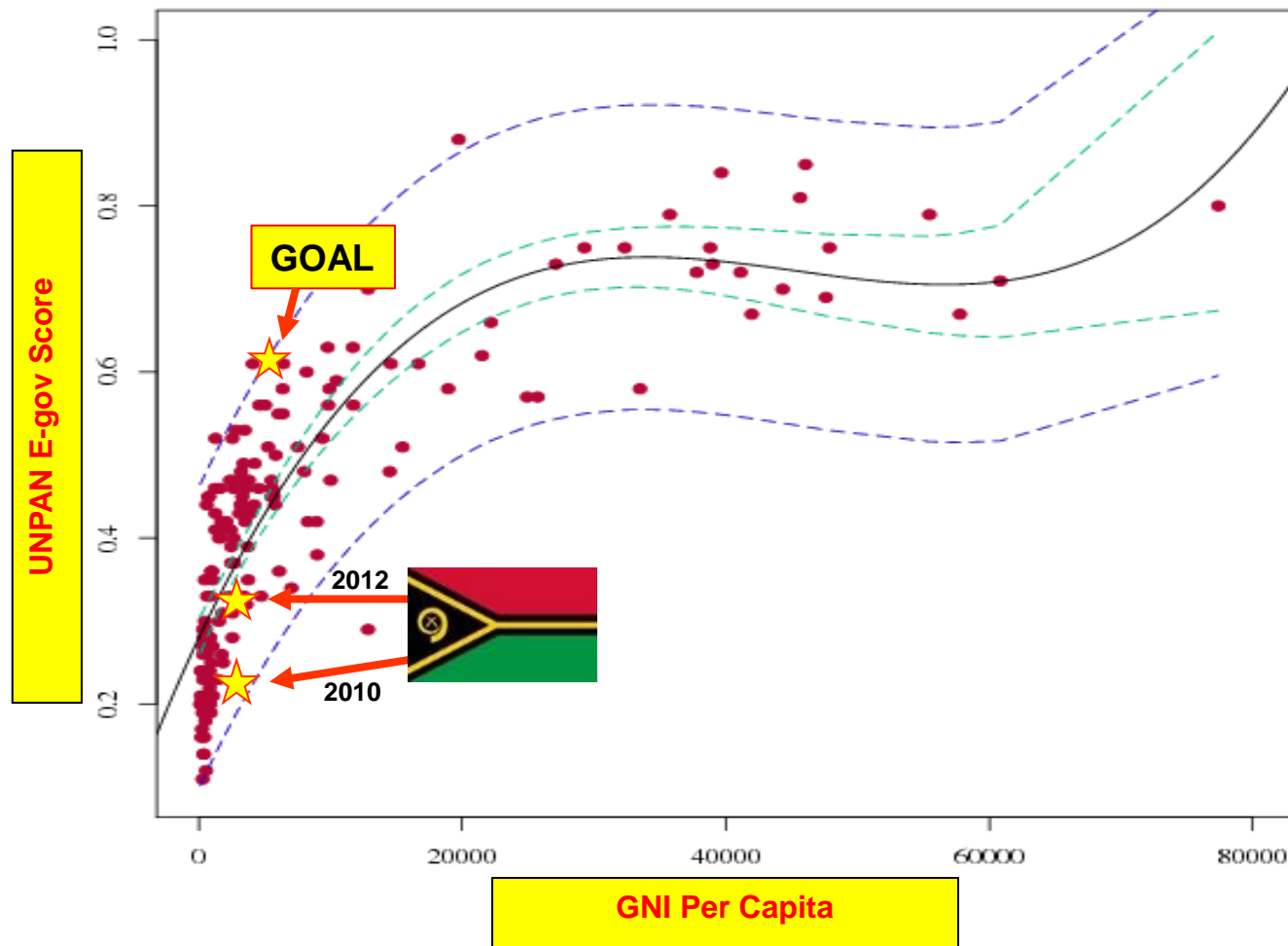
2010

GNI Per Capita

Sources:
UNPAN & TradingEconomics.com

Scores:
2010 e-gov: 0.2521; 2012 e-gov: 0.3512
GNI per cap: $2640

The country is in the early part of Stage 1 (of 4) of e-gov development…

Level of Transformation

Low — High

High

Complex

Technological and organizational Complexity

Horizontal Integration
Systems integrated across different functions; real one-stop shopping for citizens

Vertical Systems
Local systems linked to higher-level systems within similar functionalities

Transactions
Services and Forms
On-line
Working database
Supporting online transactions

Cataloguing
Online presence
Catalogue Presentation
Downloadable Forms

Benefits

Simple

Low

Sparse — Integration — Completion

Source: Adapted from Layne and Lee (2001)

…a lot of work is needed to achieve a world class standard

Vanuatu schools ICT statistics are poor, but there is hope

Chart 2.2: Learner-to-computers ratio (for ISCED levels 1-3), 2008-09*

Note: * Or latest available year. Includes estimates.
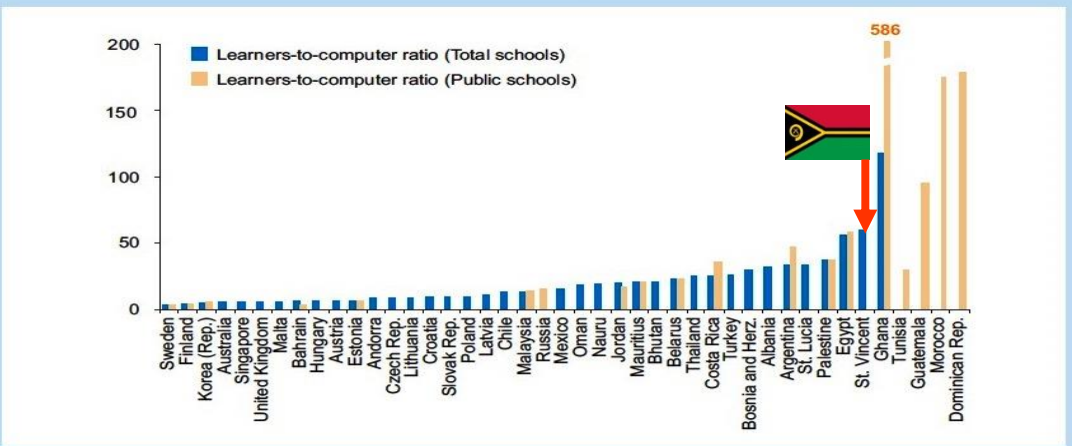Source: UIS Pilot Questionnaire on Statistics of ICT in Education; ITU Survey on the WSIS Targets; national sources.

☹ **Vanuatu students to computer ratio: 205 students per computer**

☹ **4th percentile of countries reporting**

☹ **Thus 96% of countries are doing better**

☹ **Vanuatu broadband in schools: about 1%:   3rd percentile in world**

☹ **Est. of computer literacy in schools: 4%, almost all secondary students**

☺ **Good news: schools w/ computer labs have a 71% computer literacy rate, compared to almost zero w/ no lab**

Source: OGCIO, First Survey of ICTs in the Vanuatu Schools, 2013

Chart 2.5: Proportion of schools with broadband Internet access (for ISCED levels 1-3), 2008-09**
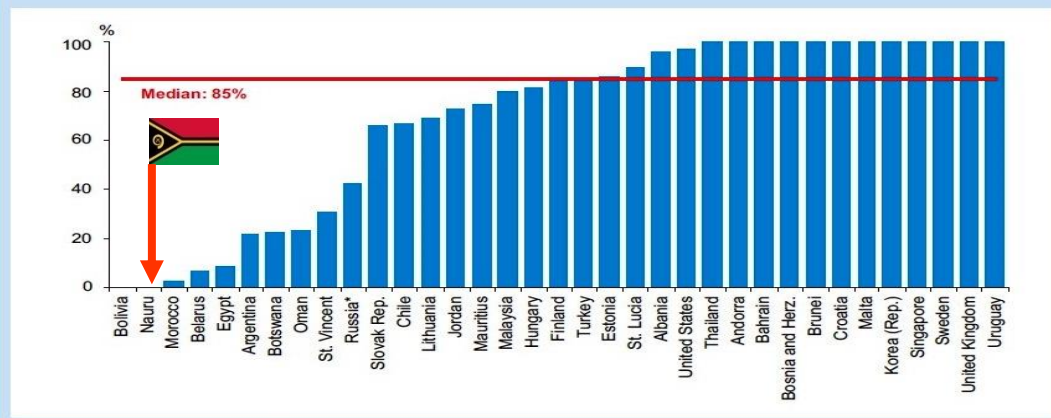
Note: **Or latest available year. Includes national estimates. *Refers to public schools only.
Source: UIS Pilot Questionnaire on Statistics of ICT in Education; ITU Survey on the WSIS Targets (including data for Egypt, which was also part of the UIS Pilot Questionnaire); national sources.

Classic E-Gov Foci

E-Gov efforts often focus on several major systems and applications...

- ✓ FMIS and HR-MIS
- ✓ Business registration
- ✓ Education, health & major productive sectors
- ✓ National ID
- ✓ Parliament, Cabinet and/or PMO

...Parliament is a good example...

About 40% of national parliaments have ICT systems in place

www.parliament.uk

- ❖ Watch live & archived debates
- ❖ Follow parliament on
- ❖ Learn about members and voting
- ❖ Read Hansard from home
- ❖ Plan for upcoming debates & events
- ❖ Track bills thru process

OpenAustralia beta

- ➢ Get e-mails on relevant actions
- ➢ Comment on Parliamentary debates
- ➢ See legislators' interests
- ➢ Read Hansard back through 2006
- ➢ Access site on mobile devices

Bungeni
open source parliamentary and legislative applications

- ✓ Open source African system
- ✓ Supports Hansard and bill work flow
- ✓ Manages bill tracking and calendar
- ✓ Opens up system to citizens

Paperless government IS possible – in 2004 Estonia designed the world's first paperless Cabinet

✓ All Ministers have laptops and share info electronically
✓ Cabinet meetings went from up to 8 hours down to 45 minutes
✓ No paper documents or reports in the Cabinet room

Parliamentary ICTs have improved but there are still issues:

The Parliament of the Republic of Vanuatu

Le Parlement de la République de Vanuatu

- 🙁 Website has no citizen interaction, social media or e-democracy
- 😠 Session packages in paper form, often not delivered until MPs arrive at opening of Parliament
- 😠 Members have no tablets or other ICT means to access info
- 🙁 Hansard produced from hand-written notes and audio recordings, not backed up
- 😒 No new Laws of Vanuatu posted since 2012
- 🙁 Little news about Parliament's activities
- 🙂 But, live broadcasting of sessions has begun!

A modern, ICT-based Parliamentary system could:

- Have extensive citizen input, continuously updated
- Be used as an outreach and education tool by MPs
- Manage session packages and entire bill passage process electronically and efficiently
- Produce an accurate Hansard readable on-line 24/7/365 from anywhere in the world
- Create continuous compilation of the Laws of Vanuatu

M-GOV

The new Vanuatu M-GOV Strategy identified numerous potential mobile app projects…

- Commercial licensing of businesses
- Public school registration
- School exam dates
- Birth registration
- Weather reports via SMS 2x/day
- Collection of health data
- Marine transport schedules

…with a rapid smart-phone rollout

Notional

30% gro rate

20% gro rate

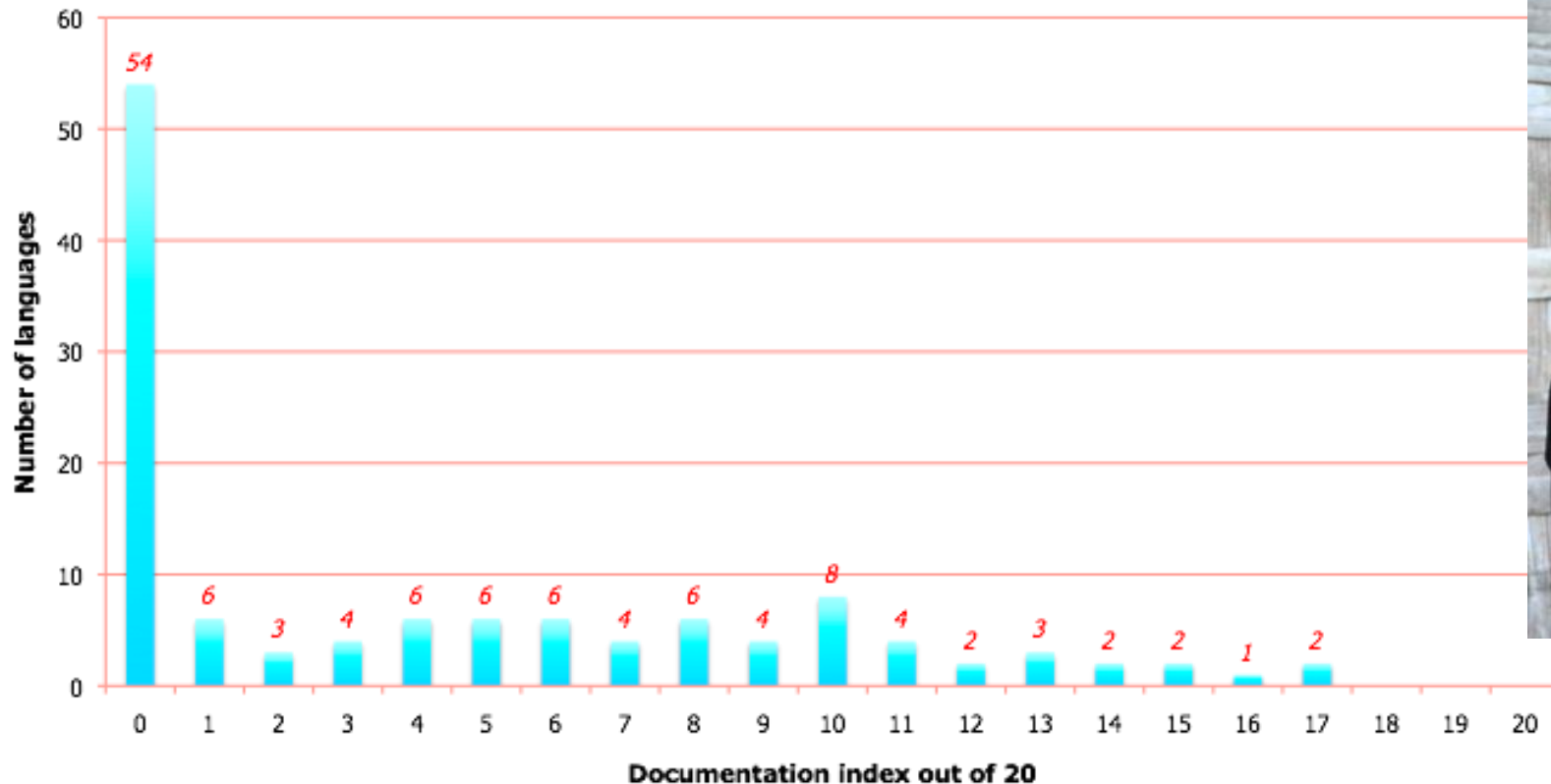2014 2015 2016 2017 2018 2019 2020 2021
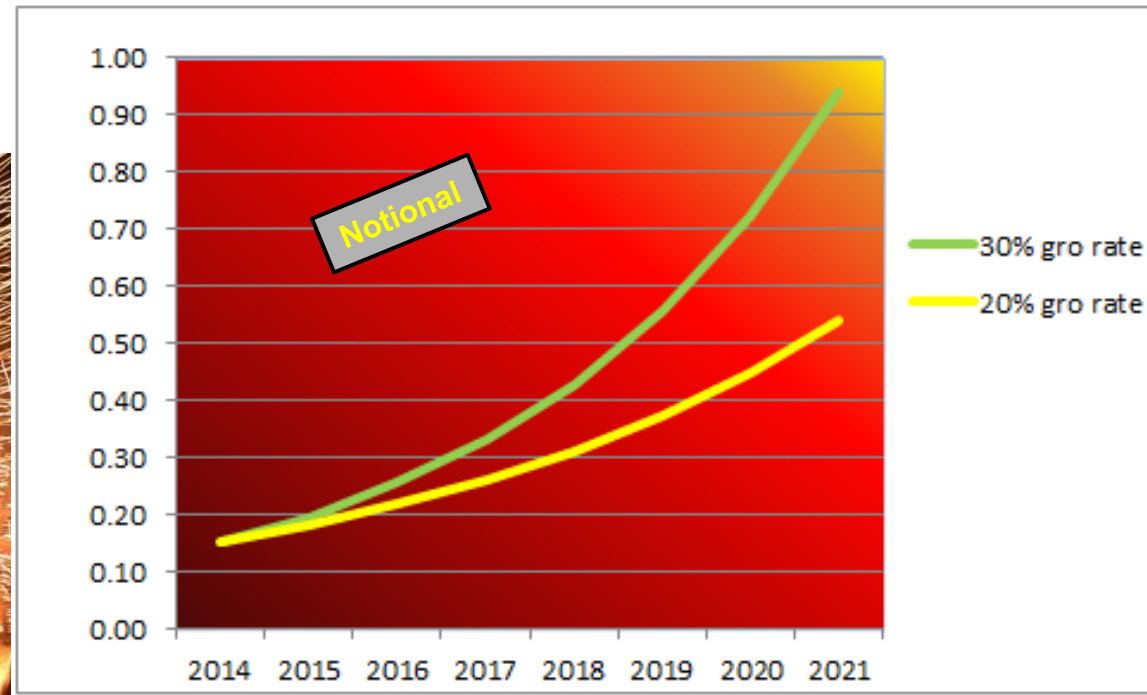
Language, Culture & ICTs

Of the 123 island languages , 54 (44%) are totally undocumented and 53 (43%) are poorly documented....

## Documentation index, Vanuatu languages

Number of languages (y-axis): 0, 10, 20, 30, 40, 50, 60

Bar values: 0→54, 1→6, 2→3, 3→4, 4→6, 5→6, 6→6, 7→4, 8→6, 9→4, 10→8, 11→4, 12→2, 13→3, 14→2, 15→2, 16→1, 17→2

Documentation index out of 20

Source: Nick Thieberger, U. of Melbourne, PARADISEC, 2014

...and only 3 (2.6%) are well documented

In the northern part of the country, only remote Torres and Banks has had moderate work in language documentation and preservation
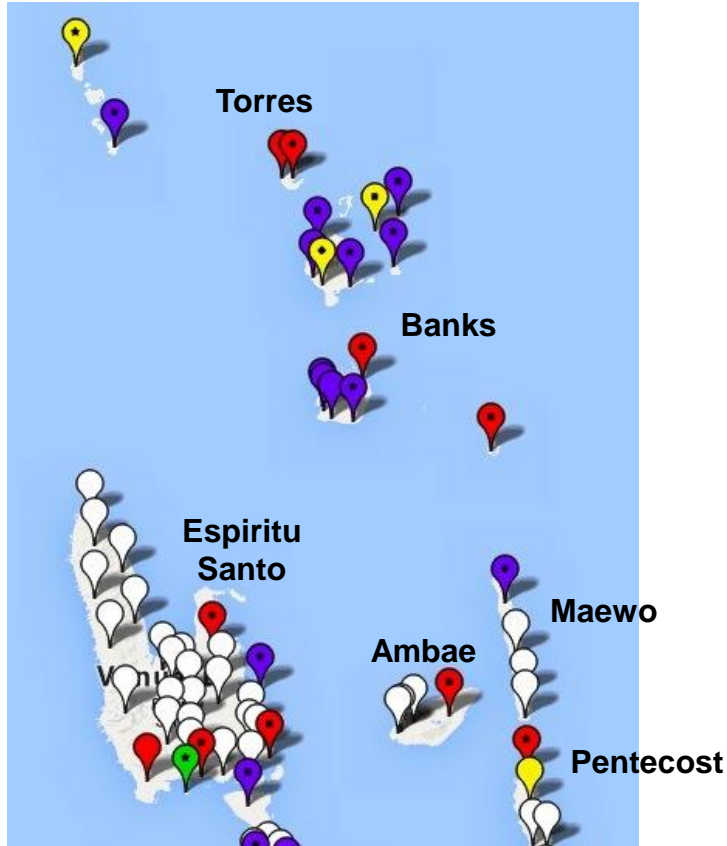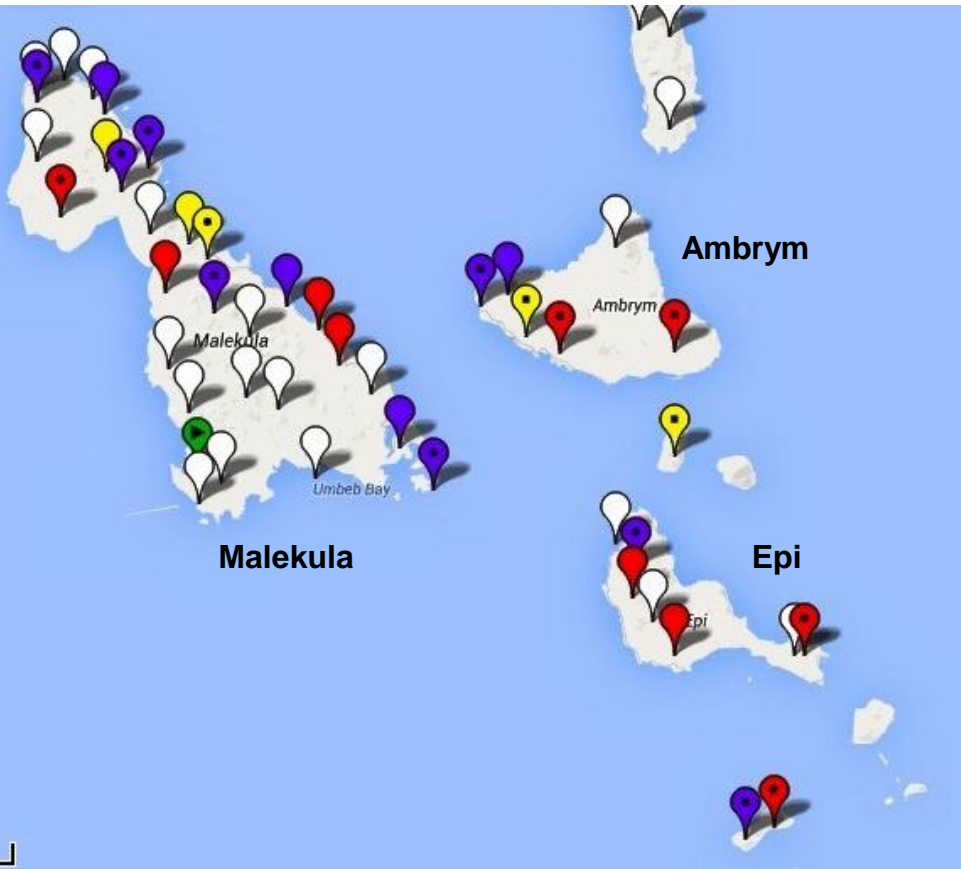

Northern Vanuatu

Marker Legend:

○ **White:** no documentation; score of 0/20

● **Red:** very poor documentation; 1-5/20

● **Blue:** poor documentation; 6-10/20

● **Yellow:** moderately well doc.; 11-15/20

● **Green:** well documented; 16-20/20

Note: only 1 green marker in the region; white, red and blue are all zero to poor

Source: adapted from Nick Thieberger, U. of Melbourne, PARADISEC, 2014

In north central Vanuatu, the Malekula interior is generally un-documented and the coast is poorly documented
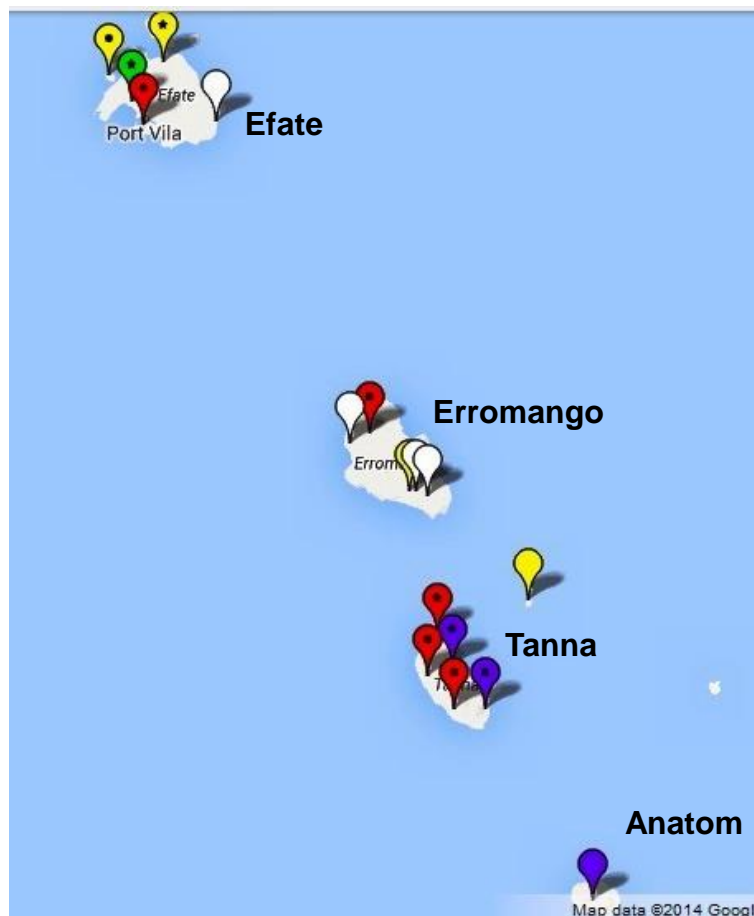

North Central Vanuatu

Marker Legend

White: no documentation; score of 0/20

Red: very poor documentation; 1-5/20

Blue: poor documentation; 6-10/20

Yellow: moderately well doc.; 11-15/20

Green: well documented; 16-20/20

Again note: only 1 well documented language

Source: adapted from Nick Thieberger, U. of Melbourne, PARADISEC, 2014

In central-south Vanuatu, only Efate has a well-documented language, and Tanna has had some limited work done


Central to South Vanuatu

Marker Legend:

White: no documentation; score of 0/20

Red: very poor documentation; 1-5/20

Blue: poor documentation; 6-10/20

Yellow: moderately well doc.; 11-15/20

Green: well documented; 16-20/20

Source: adapted from Nick Thieberger, U. of Melbourne, PARADISEC, 2014

These unique island languages and cultures are threatened by external forces, and no ICT content has been developed to counter these forces

- ☹ **Tsunami of Western culture, almost all in English, w/cable bringing more**
- ☹ **Lack of enforcement of national policy that Grades 1-2 should be taught in island languages; only English or French are used**
- ☹ **Mobile phone household penetration of 94.4%**
- ☹ **Urbanization of the population (especially youth) est. at 4%/year**
- ☹ **Lack of development of good digital content in island languages**
- ☹ **Lack of school projects in island languages**
- ☹ **Lack of funding for island language preservation and celebration**
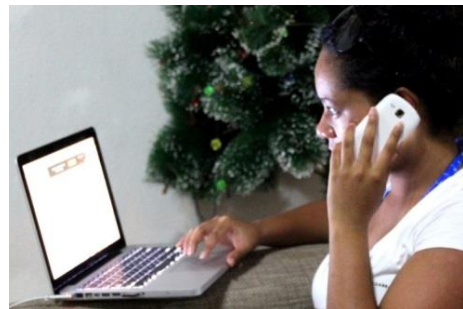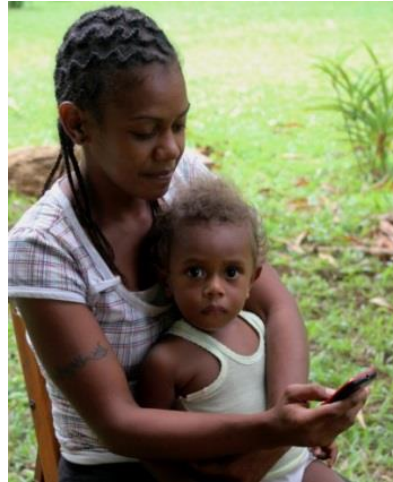
Needed solutions include:

- 😊 **Use of ICTs to digitally document languages, cultures, ceremonies, food ways, native crops, folk medicines, ancestry, legends, etc.**
- 😊 **Digital mapping of cultural and language assets**
- 😊 **Use of island languages in school projects and content for grades K-1-2-3**
- 😊 **Enforcement of new National ICT Policy that "local languages and cultures should be documented and celebrated"**
- 😊 **Development of business opportunities**
- 😊 **Training of youth in this area**

Source: Graham Crumb

COURTESY BLACK GIRLS CODE

Let's remember who we are working for:

Tank yu tumas!!!