



**Establishing an eduroam Confederation to Empower the Pacific:
*Connecting the Unconnected in Research and Education***

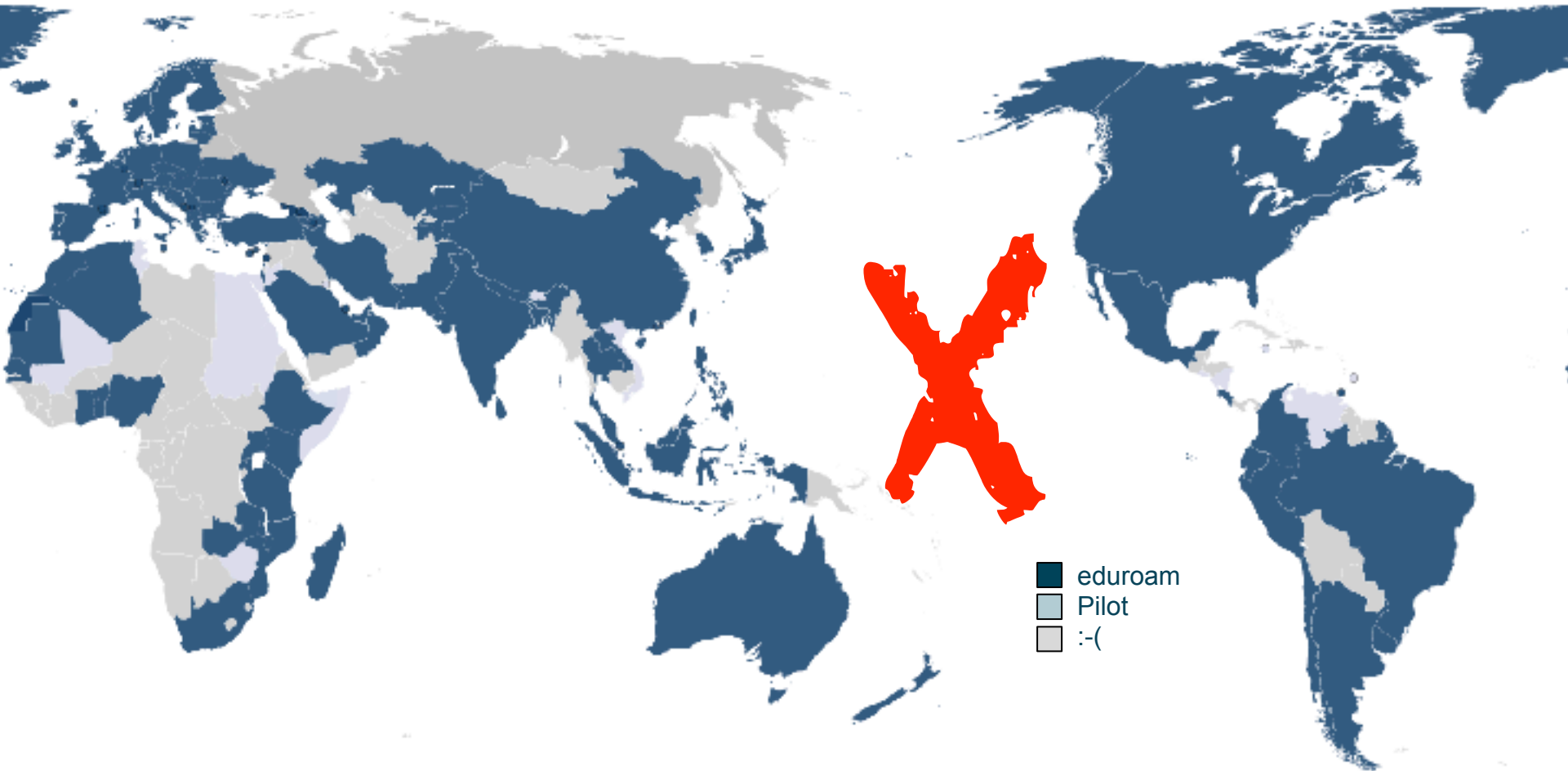
AP* Retreat – Monday 8th September 2025

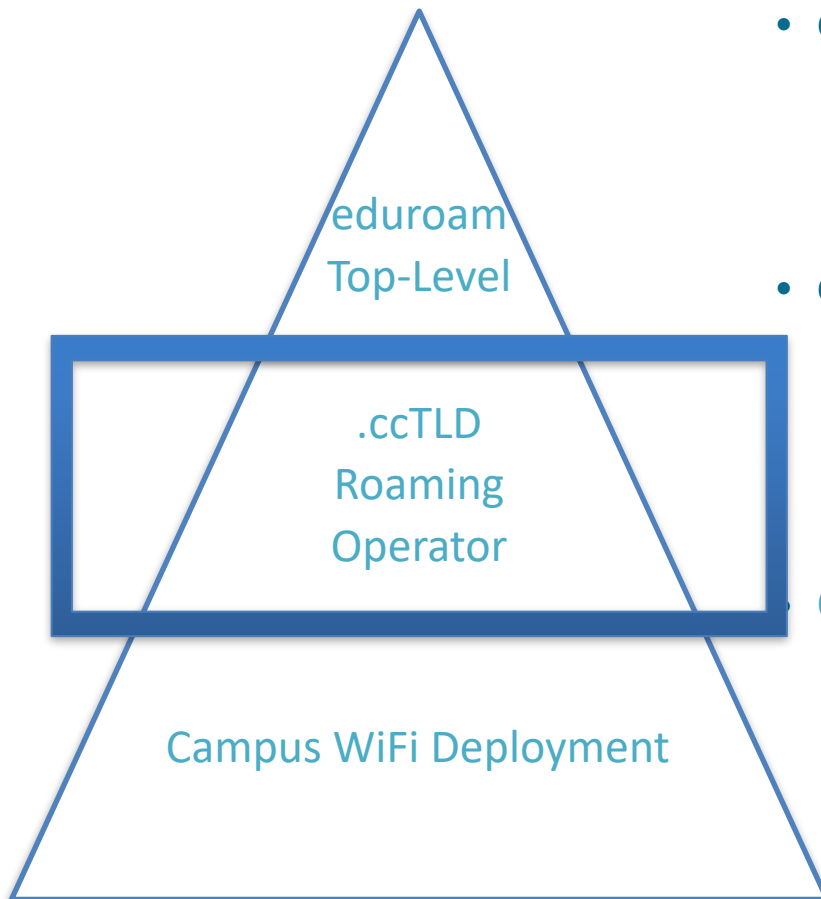
Brook Schofield

brook.schofield@gmail.com

Update

What did I ask for last time?





- **eduroam Top-Level**

- Connects 100's of Countries
- Monitoring for Country Roaming Operators
- Increased Shared Services

- **ccTLD Roaming Operator (*usually an NREN*)**

- Connects to the 2 top-level servers (or regional)
- ...and all the universities, schools, libraries.
- Helpdesk, WebSite, Management Agreements,™ & ®

- **Campus WiFi Deployment**

- Connects to ccTLD Roaming Operator
- Manages Local WiFi
- Manages User Accounts
- Local User Helpdesk (and maybe visitors)

What has changed since last time?

- **eduroam in the World**

- zero new eduroam deployments
- 1,000s of new Global eduroam APs
- New wifi mapping for DjNRO

- **Host/home organisation**

- AARNET said No
- PIREN said No
- SOI-Asia said No



- **Funding?**

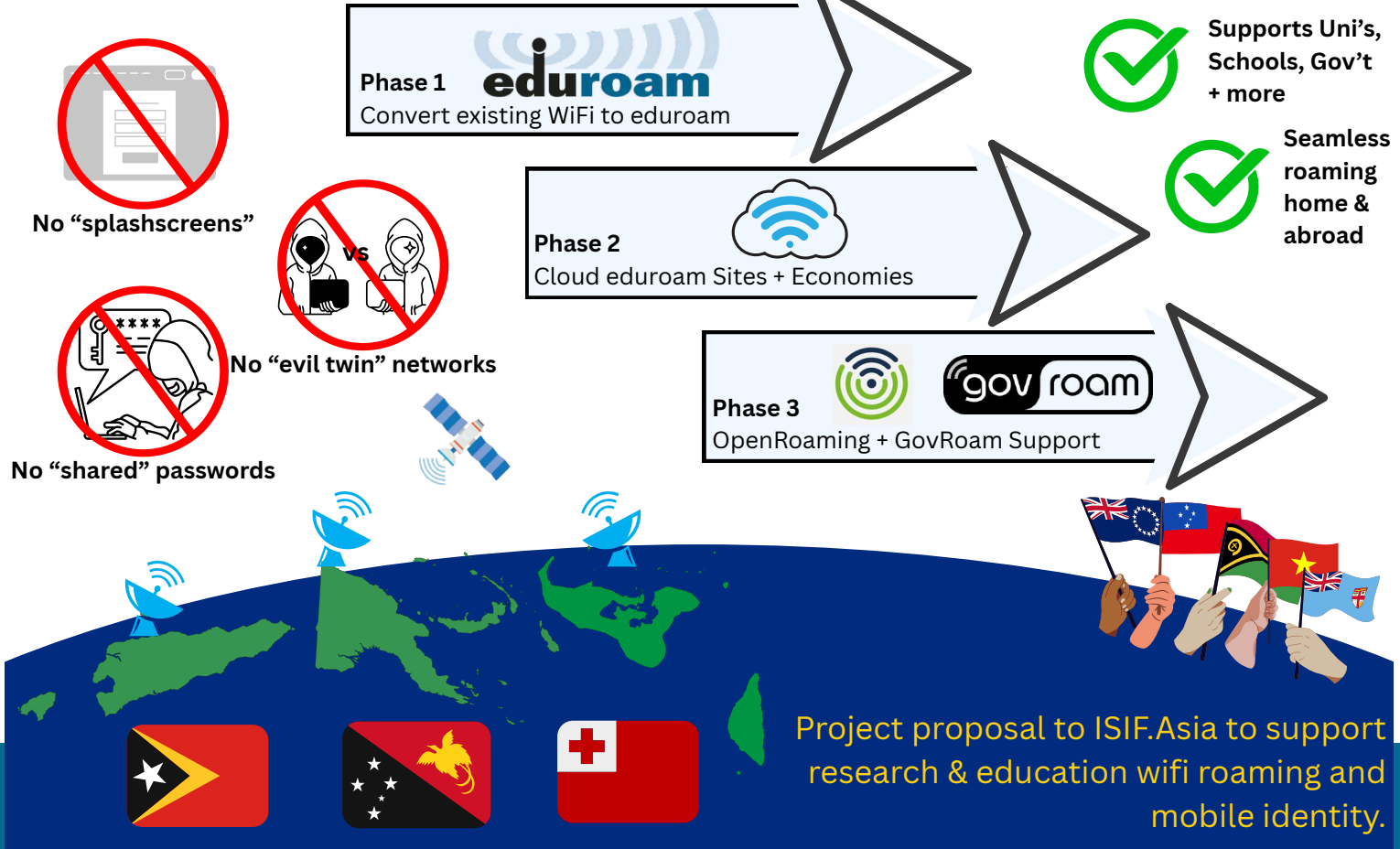
- APNIC.Foundation said No

What's I discovered along the way?



WiFi Roaming Confederation

for Asia/Pacific collaboration

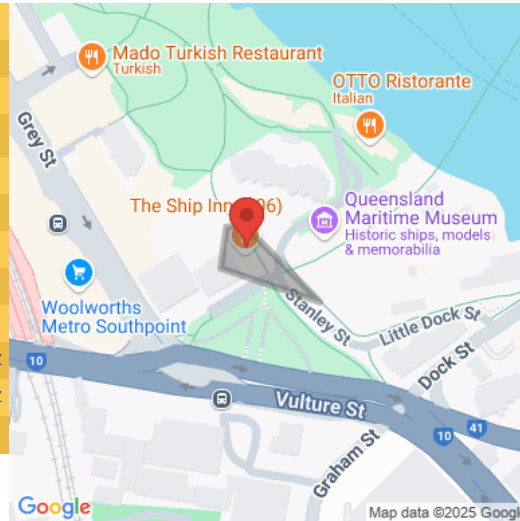


Old infrastructure can be repurposed!



Computed Network Properties

Network ID	A0:CF:5B:69:91:CE
Network Name	
Type	infra
Encryption	
Channel	64
Beacon Interval	
SSID	eduroam
Est. Latitude	-27.481884
Est. Longitude	153.02502441
First Seen	2012-11-10T00:19:14.000Z
Most Recently Seen	2024-10-28T00:31:26.000Z
comment	



Observations:

netid	name	ssid	month	signal	snr	noise	latitude	longitude	alt	crypto	accuracy
176812452319694			2019-02	-77	0	0	-27.48177719	153.02500916	60		12
176812452319694			2018-11	-77	0	0	-27.48178482	153.02496338	43		6
176812452319694			2018-11	-77	0	0	-27.48185158	153.02493286	51		28.675
176812452319694		eduroam	2024-07	-80	0	0	-27.48202896	153.02481079	51		52.4
176812452319694			2018-11	-82	0	0	-27.48191643	153.02510071	53		21.847
176812452319694			2018-07	-83	0	0	-27.48173523	153.02485657	58		12.136
176812452319694		eduroam	2023-12	-87	0	0	-27.48175621	153.02503967	56		4.98976
176812452319694			2019-02	-87	0	0	-27.48226738	153.02560425	56		11
176812452319694		eduroam	2024-10	-90	0	0	-27.48172379	153.02493286	50		13
176812452319694		Wireless@Griffith	2012-11	-91	0	0	-27.48203278	153.02508545	65		9

eduroam in PNG? AARNET → DWU



Network ID	00:23:68:4D:AB:D4
Network Name	
Type	infra
Encryption	
Channel	11
Beacon Interval	
SSID	eduroam
Est. Latitude	-3.72889519
Est. Longitude	146.28643799
First Seen	2013-04-12T15:49:58.000Z
Most Recently Seen	2014-09-23T07:59:20.000Z
comment	



Observations:

netid	name	ssid	month	signal	snr	noise	latitude	longitude
152073776084		eduroam	2014-09	-80	0	0	-37.92131042	145.1230011
152073776084		eduroam	2014-09	-83	0	0	-3.72889519	146.28643799

Map the WiFi in Papua New Guinea



Install WiGLE WiFi

Use the QR code to install WiGLE on your Android device or visit the Google Play store to download.



Over 6,000 WiFi locations mapped

Configure Settings

Via settings either authorise uploads with this QR code, upload anonymously or visit <https://wagle.net> and create an account.

Turn Off "Enable Bluetooth Scanning" →



WiGLE & Upload

Turn on WiGLE as you walk around the campus, your town or when you travel. Don't forget to upload!

REMEMBER
UPLOAD TO
WIGLE.NET

MORE INFO?





- **eduroam in the World**
 - >95% of roaming is local
 - Not pre-shared key wifi
 - Improve **security** choices
 - Stepping stone for **CampusID**
- **An anti-pattern for deployment**
 - Focus on **roaming** doesn't resonate with many groups
 - Mobile phones? A solution?
- **Roaming is a bonus**
 - **OpenRoaming** compatible
 - GovRoam + CityRoam

What's needed for a 2026 funding bid?

- **A pan-Pacific host organisation**
 - **ISIF.Asia** reviewers said **MUST** have - *but the path is unclear...*
- **Roaming Operators**
 - Schools, Colleges, Uni + Gov't
 - Champions in each territory
 - Pilots Training Policy Advocacy
- **Funding**
 - **APNIC.Foundation** - maybe
 - Any other funders available?

