

Engaging with urban planning for climate resilient WASH – Melanesian informal settlements

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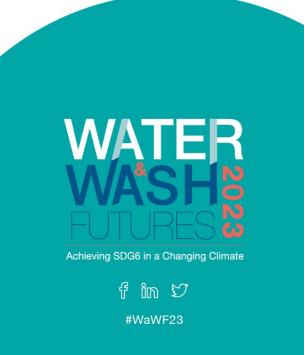












Informal settlements in Melanesia





WASH is often forgotten in urban planning

Informal settlements, by nature, are excluded from formal urban planning (but not informal planning)

Progress is being made:

- Fiji upgrading 46 settlements
- Solomon Water
 connected >2,800 hh
- Moresby has ongoing settlement upgrade process
- Port Vila urban
 wastewater taskforce



How does it all intersect?

Urban land use and infrastructure is essential to implementing effective WASH, and is also important for responding to climate change.

Planning can provide a way to choose and improve land uses by bringing together knowledge and values.

Hence, planning provides one useful means of integrating WASH and climate change resilience.





Research overview, objectives and approach

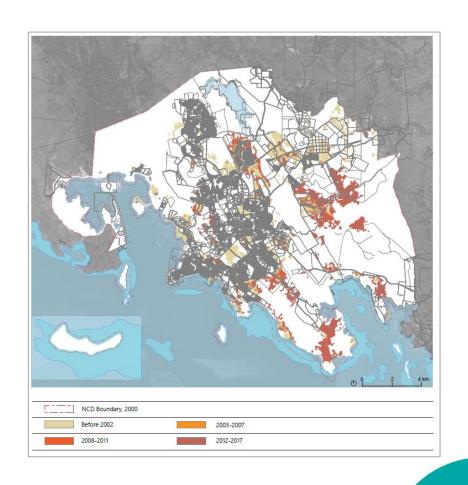
RESEARCH QUESTION: How could urban planning processes in Melanesia be strengthened through participation and integration to improve the resilience of WASH service delivery in informal settlements within the urban footprint



METHODS: Document analysis, stakeholder interviews, household surveys and interviews, photovoice techniques, GIS analysis, PEA

Urban planning, climate change & WASH in Melanesian IS

- Urban planning processes are not keeping up with the pace of change
- Ownership, integration and responsibility for urban WASH, especially in informal settlements, is often unclear
- Hazard data transitioning from a general lack of data (through hard work of gov'ts and regional bodies like SPC to provide data), to a paucity of locationspecific data and translation of data to decision-making





Engaging with decision-makers and leaders

We conducted 39 conversations with diverse decision-makers and stakeholders (Port Vila and Suva)

- Government (national & local)
- NGOs, CSOs, FBOs
- Private sector
- Residents and community leaders

Stakeholders say:

- 1. Tenure insecurity can be a barrier for upgrading services in urban informal settlements
- Responsibility for improving services between departments & providers can be unclear
- 3. More information and data sharing is needed
- Proactive and up-to-date urban planning and instruments (town plans, by-laws, policies) are required to address WASH issues



Research component – engaging with residents

- Traditional household surveys
- Photographic observations
- Qualitative interviews (semistructured)
- Photovoice











Cyclone has affected ~10% of HH WASH in Suva settlements and 25% of HH toilets in

settlements



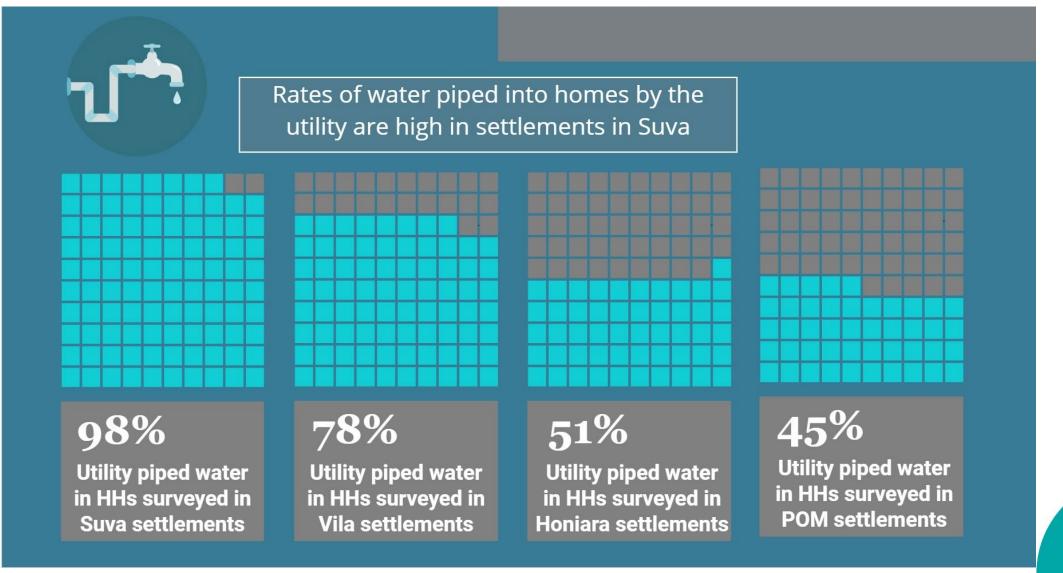
Only one household in Suva reported sea level rise impacts to WASH Worried about future climate events impacting WASH?

16% in Suva
68% in Port Vila

Based on our HH survey responses (n= 161)



Research components – place-based analysis





Photovoice activities with Nanuku community













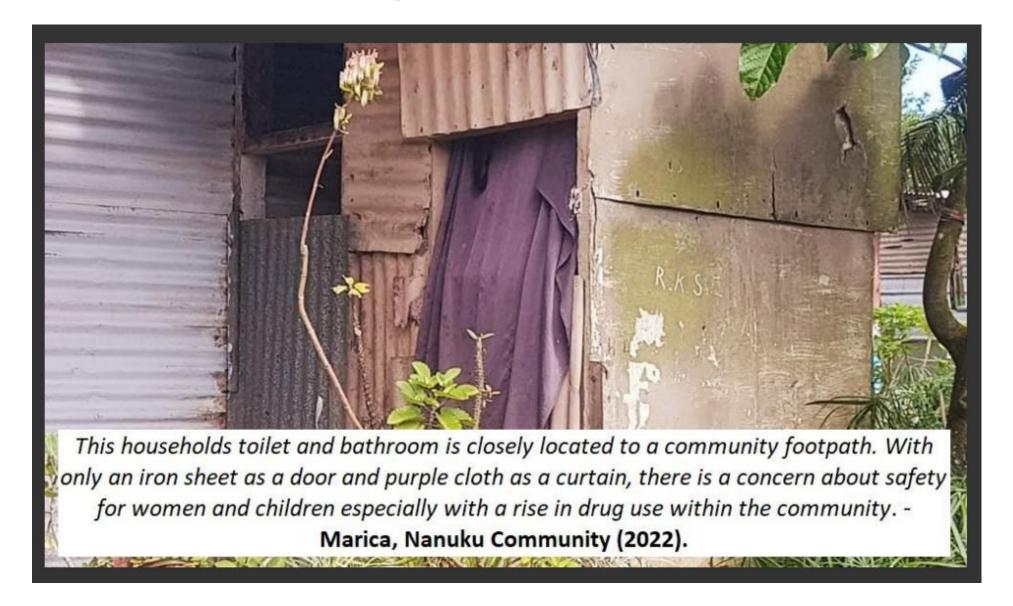
Photovoice examples







Photovoice examples





So what is needed to better support integrated urban planning, WASH & CC for informal settlements?

- Political will
- Integration across key ministries and service providers
- Localised data (climate hazard and user preference) to guide ID of CR-WASH options
- Community voice and ownership
- Diversity in solutions

Advocacy & champions Local exposure histories ice and sanitation pen source, spatially-laring of data, tools and (e.g. spatial analyses) Create space for co-design



Ways forward



Next steps:

- develop and share tools and activities for settlement residents' climate exposure histories;
- Explore + trial planning support systems;
- Identify champions and plan effective advocacy methods



Thank you for joining us and to the project team:

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