



Government of Papua New Guinea

National Information and
Communications Technology Authority

NATIONAL INFORMATION AND COMMUNICATIONS TECHNOLOGY AUTHORITY

Universal Access & Services (UAS)

Project Consultation Paper - 2027

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1. Executive Summary

The National Information and Communications Technology Authority (NICTA) invites comments from industry, government agencies, development partners, provincial administrations, and other interested stakeholders on the proposed Universal Access and Service (UAS) Programme for 2027.

This Consultation Paper presents NICTA's proposed investment priorities to address persistent ICT access gaps in underserved and unserved communities across Papua New Guinea. Based on the 2025 national ICT coverage assessment, the proposed programme prioritises the expansion of mobile broadband infrastructure as the most effective means of improving access to digital services, supporting inclusive socio-economic development, and advancing the Government's digital transformation agenda.

To address these access gaps, NICTA proposes the implementation of **322 new mobile broadband infrastructure sites** with an estimated investment of **PGK 344 million**. The proposed programme is expected to extend mobile broadband services to approximately **866,827 people**, significantly improving access to communications, digital government, education, health, financial services, and economic opportunities in rural and remote communities. Detailed information on the proposed project sites is provided in **Annex A**.

The proposed programme aligns with the **National Information and Communications Technology Act 2009**, the **National ICT Policy**, the **Medium-Term Development Plan IV (2023–2027)**, the **PNG RESET@50 Agenda**, and the **UAS Five-Year Strategic Plan (2023–2027)**. It also promotes infrastructure sharing, competition, and efficient use of public resources to maximise the long-term benefits of UAS investments.

This Consultation Paper seeks stakeholder views on the proposed project priorities, implementation approach, funding arrangements, procurement options, and the proposed UAS Levy for 2027. Feedback received during the consultation process will assist NICTA in refining the proposed programme before seeking the necessary statutory approvals for implementation.

2. Introduction

2.1 Background

The Universal Access and Service (UAS) Programme is a key mechanism through which the National Information and Communications Technology Authority (NICTA) promotes equitable access to information and communications technology (ICT) services across Papua New Guinea. The programme supports the extension of telecommunications and broadcasting services to underserved and unserved communities where commercial investment alone is insufficient to achieve universal connectivity.

To support the Government's digital transformation agenda and reduce the digital divide, NICTA periodically identifies priority ICT access gaps and develops targeted UAS projects for public consultation before implementation. This consultation forms part of NICTA's commitment to transparent, evidence-based, and inclusive decision-making in determining UAS investment priorities.

2.2 Purpose of the Consultation

The purpose of this Consultation Paper is to seek comments and submissions from licensed ICT operators, government agencies, provincial administrations, development partners, industry stakeholders, and the public on the proposed Universal Access and Service (UAS) Programme for 2027.

Stakeholder feedback will assist NICTA in validating the identified ICT access gaps, assessing the proposed project priorities, refining implementation and procurement approaches, and informing the final determination of the 2027 UAS Programme and the associated UAS Levy.

2.3 Regulatory and Legal Framework



The Universal Access and Service (UAS) Programme is administered by NICTA under the National Information and Communications Technology Act 2009, which establishes the legislative framework for promoting access to ICT services in underserved and unserved areas of Papua New Guinea.

Under the Act, NICTA is responsible for identifying ICT access gaps, consulting with stakeholders, determining UAS projects, collecting the UAS Levy from licensed ICT operators, and applying those funds to projects that promote equitable access to telecommunications and broadcasting services where market forces alone are insufficient.

2.4 Scope of the Consultation

This Consultation Paper focuses on the proposed UAS Programme for the 2027 implementation cycle, with particular emphasis on Mobile Broadband Infrastructure Projects identified through the 2025 ICT access gap assessment.

Stakeholders are invited to provide comments on:

- the identified ICT access gaps;
- the proposed project priorities and locations;
- the implementation and procurement approach;
- estimated project costs and funding assumptions;
- the proposed UAS Levy for 2027; and
- any other matters relevant to improving the effectiveness, sustainability, and impact of the UAS Programme.

Feedback received will be carefully considered before the programme is finalised and submitted for the necessary statutory approvals. This consultation does not constitute a procurement process or a commitment by NICTA to implement specific projects in the form presented; rather, it provides an opportunity for stakeholders to contribute to the development of the final programme.

3. Policy Context and Strategic Alignment

The proposed Universal Access and Service (UAS) Programme for 2027 has been developed within the framework of Papua New Guinea's national development priorities and the Government's vision for an inclusive digital economy. The programme seeks to address persistent ICT access gaps by expanding digital connectivity to underserved and unserved communities, thereby improving access to essential services and creating opportunities for inclusive socio-economic development.

The proposed investments recognise that affordable and reliable digital connectivity is an essential enabler of education, healthcare, government service delivery, commerce, agriculture, financial inclusion, and disaster resilience. Accordingly, the proposed UAS projects have been designed to support national policy objectives while ensuring that public investments are directed towards areas where commercial investment alone is unlikely to achieve universal access.

3.1 National Policy Alignment

The proposed UAS Programme is aligned with Papua New Guinea's key national development strategies and policy frameworks, including:

- **National Information and Communications Technology Policy**
- **Medium-Term Development Plan IV (2023–2027)**
- **PNG RESET@50 Agenda**
- **National Digital Government objectives**

These policies recognise digital connectivity as critical infrastructure that supports economic growth, improves public service delivery, enhances productivity, and promotes social inclusion. By extending broadband infrastructure into underserved communities, the proposed programme contributes directly to the Government's broader objectives of improving access to education, healthcare, agriculture, business opportunities, and digital government services.

3.2 UAS Strategic Plan Alignment

The proposed projects are fully aligned with the **Universal Access and Service Five-Year Strategic Plan (2023–2027)** and reflect the strategic priorities established for the UAS Programme.

In particular, the proposed investments support the following strategic priorities:

- Expansion of mobile broadband coverage to underserved and unserved areas.
- Improved access to affordable ICT services for rural and remote communities.
- Promotion of infrastructure sharing to improve investment efficiency and reduce duplication.
- Strengthening partnerships with government, industry, provincial administrations, and development partners.
- Supporting sustainable digital infrastructure that enables long-term service delivery.

By prioritising mobile broadband infrastructure, the proposed programme establishes the digital foundation required to support future investments in broadcasting, fixed broadband, digital public services, and other meaningful connectivity initiatives across Papua New Guinea.

3.3 Strategic Outcomes

The proposed UAS Programme is expected to contribute to the following long-term outcomes:

- Increased digital inclusion through expanded broadband coverage.
- Improved access to digital government services.
- Enhanced educational and health service delivery.
- Greater opportunities for economic participation and financial inclusion.
- Reduced regional disparities in access to ICT services.
- Stronger public-private partnerships in digital infrastructure development.

These outcomes support NICTA's mandate to promote universal access to ICT services and contribute to Papua New Guinea's long-term digital transformation agenda.

4. Overview of ICT Access Gaps in Papua New Guinea

Reliable and affordable access to information and communications technology (ICT) is fundamental to Papua New Guinea's social and economic development. While substantial progress has been made in expanding telecommunications services over the past decade, significant disparities in digital connectivity remain, particularly in rural, remote, island, and mountainous communities.

These disparities are largely driven by challenging geography, dispersed populations, high infrastructure deployment costs, limited transport access, and insufficient commercial incentives for operators to extend services into low-density areas. As a result, many communities continue to experience limited or no access to mobile broadband and broadcasting services, restricting their ability to participate fully in the digital economy and access essential public services.

To inform the proposed 2027 UAS Programme, NICTA undertook an updated assessment of national ICT coverage using the latest available network data. The assessment identifies the remaining access gaps where targeted public investment is required to complement commercial network expansion and achieve the objectives of universal access.

4.1 Current State of Connectivity

Papua New Guinea has continued to expand mobile network coverage in recent years, supported by ongoing investment from licensed operators. However, coverage levels differ significantly across technologies, and high-speed broadband services remain concentrated around major urban centres and transport corridors.

The latest national coverage assessment indicates:

Technology	Population Coverage	Key Observation
2G	89%	Provides near-universal access to voice and SMS services.
3G	77%	Supports basic mobile broadband but leaves many communities without internet access.
4G/LTE	70%	High-speed broadband remains limited in many rural and remote areas.
Mobile Penetration	~28%	Actual usage remains significantly lower than network availability due to affordability and device constraints.

These figures demonstrate that although basic mobile coverage is relatively widespread, access to reliable broadband services remains uneven, limiting opportunities for digital inclusion and economic participation.

4.1.2 Broadcasting Services

Broadcasting continues to play an important role in delivering news, education, emergency information, and public awareness messages, particularly in communities where internet connectivity remains limited.

Current national broadcasting coverage is estimated at:

Service	Population Coverage	Key Observation
AM Radio	85%	Primary source of information for many rural communities.
FM Radio	34%	Coverage remains concentrated in urban and provincial centres.
Analogue Television	27%	Limited national reach pending transition to digital broadcasting.

These figures highlight the continuing importance of public investment in broadcasting infrastructure to improve access to information and support national development objectives.

4.2 Identified ICT Access Gaps

The updated national assessment confirms that significant ICT access gaps remain across Papua New Guinea despite improvements in overall network coverage.

These gaps are primarily attributable to:

- difficult terrain and dispersed populations;
- high infrastructure deployment and maintenance costs;
- limited commercial returns in low-density markets;
- inadequate transport and energy infrastructure; and
- affordability barriers affecting device ownership and service uptake.

Without targeted public intervention, these communities are unlikely to receive adequate telecommunications and broadcasting services through commercial investment alone. The Universal Access and Service (UAS) Programme therefore remains an essential mechanism for addressing these market failures and promoting equitable access to ICT services.

4.2.1 Mobile Coverage Gaps

Although 2G services now reach approximately 89% of the population, an estimated 11% of Papua New Guineans remain without access to even basic mobile communications.

More significantly:

- approximately 23% of the population remains outside 3G coverage;

- approximately 30% remains outside 4G coverage; and
- mobile penetration remains well below network availability, indicating affordability and access constraints.

These gaps reduce opportunities for communities to access digital government services, online education, digital financial services, healthcare information, and broader economic opportunities. They also reinforce the need for targeted UAS investment in rural broadband infrastructure.

4.2.2 Broadcasting Coverage Gaps

Despite relatively strong AM radio coverage, substantial broadcasting gaps remain across the country.

FM radio and television services continue to be concentrated in urban areas, leaving many rural communities without access to quality broadcasting services, educational programming, emergency communications, and locally relevant information.

These gaps continue to justify targeted public investment in broadcasting infrastructure where commercial deployment is not economically viable.

5. Proposed UAS Programme for 2027

The updated ICT access gap assessment demonstrates that significant disparities in broadband connectivity remain across Papua New Guinea, particularly in rural, remote, and geographically challenging areas. To address these gaps, NICTA proposes that the 2027 Universal Access and Service (UAS) Programme prioritise investment in Mobile Broadband Infrastructure Projects as the first phase of a longer-term national connectivity strategy.

Mobile broadband has been identified as the preferred priority because it provides the broadest social and economic benefits, supports a wide range of digital services, and offers the most scalable and cost-effective platform for expanding connectivity to underserved communities. Improved mobile broadband coverage will enable greater access to digital government services, education, healthcare, financial services, agriculture, emergency communications, and broader participation in the digital economy.

Stakeholders are invited to comment on the proposed programme priorities, implementation approach, and the extent to which the proposed investments appropriately address the identified ICT access gaps.

5.1 Proposed Mobile Broadband Infrastructure Projects

Based on the 2025 ICT access gap assessment, NICTA proposes the construction of 322 new mobile broadband sites across Papua New Guinea. These locations have been identified as priority areas where commercial investment alone is unlikely to deliver adequate telecommunications services.

The proposed programme is expected to extend broadband connectivity to an estimated 800,000 to one million people, significantly improving access to reliable voice and broadband services in underserved communities. The estimated investment required to deliver the programme is PGK 344 million.

The proposed project locations are listed in **Annex A**, together with supporting information on their indicative population coverage and geographic distribution.

5.2 Proposed Open-Access and Infrastructure Sharing Framework

To maximise the long-term value of public investment and promote competition within the telecommunications sector, NICTA proposes that all infrastructure funded under the 2027 UAS Programme operate under an open-access and infrastructure sharing framework.

Under the proposed framework:

- Infrastructure will be available to all licensed ICT operators on a fair, transparent, and non-discriminatory basis.
- Towers will be designed to support multiple operators and future technology upgrades, subject to technical capacity.
- Commercial access arrangements, including co-location, power sharing, operations and maintenance, and service level agreements, will be established to support sustainable infrastructure management.
- NICTA will oversee compliance with infrastructure sharing obligations in accordance with the National Information and Communications Technology Act 2009 and applicable licence conditions.

This approach is intended to reduce unnecessary duplication of infrastructure, encourage greater competition, improve investment efficiency, and maximise the long-term benefits of UAS-funded assets. Stakeholders are invited to provide views on the proposed open-access model and any alternative arrangements that may better support sustainable service delivery.

6. Project Selection and Prioritisation Criteria

The proposed Universal Access and Service (UAS) projects have been identified through a structured and evidence-based prioritisation process designed to maximise public benefit and ensure the effective use of UAS funding. The project selection process recognises that available funding is limited and that investments should be directed towards communities where the need for ICT services is greatest and where public intervention will deliver the highest socio-economic impact.

Project prioritisation has been informed by the 2025 national ICT access gap assessment, national development priorities, stakeholder engagement, and NICTA's statutory responsibilities under the National Information and Communications Technology Act 2009. The assessment also considered the commercial viability of proposed locations, recognising that many rural and remote communities remain underserved because they are not economically attractive for private sector investment alone.

6.1 Project Selection Framework

Projects were assessed using a balanced set of technical, economic, social, and strategic criteria to ensure that investments are directed to areas where they will achieve the greatest public value.

The principal assessment criteria included:

ICT Access Need

- Severity of existing ICT access gaps.
- Absence or limited availability of mobile broadband services.
- Communities currently without reliable telecommunications services.

Population and Community Impact

- Estimated population to be served.
- Number of surrounding communities benefiting from the proposed infrastructure.
- Expected improvements in digital inclusion and access to essential services.

National and Provincial Development Priorities

- Alignment with national and provincial development plans.
- Contribution to education, healthcare, agriculture, business development, and government service delivery.
- Support for broader digital transformation objectives.



Strategic Public Infrastructure

Priority was given to locations serving key public institutions, including:

- Schools
- Health facilities
- District headquarters
- Government service centres
- Community resource centres

Technical and Operational Feasibility

Consideration was given to:

- Terrain and accessibility.
- Availability of suitable tower sites.
- Power supply options.
- Backhaul connectivity.
- Environmental and logistical constraints.

Infrastructure Sharing Potential

Preference was given to projects that:

- support multiple operators;
- reduce duplication of infrastructure;
- improve long-term sustainability; and
- maximise the return on public investment.

These criteria are consistent with the considerations outlined in the NICT Act and the objectives of the UAS Programme.

6.2 Prioritisation Principles

In determining the proposed programme, NICTA applied the following guiding principles:

- Equity – prioritising underserved and unserved communities.
- Public Value – maximising socio-economic benefits from UAS investments.
- Efficiency – promoting infrastructure sharing and cost-effective delivery.
- Transparency – applying consistent and evidence-based assessment criteria.
- Sustainability – supporting long-term operation and maintenance of infrastructure.

These principles provide a transparent framework for decision-making and help ensure that UAS investments deliver lasting benefits to communities across Papua New Guinea.

6.3 Stakeholder Input

NICTA recognises that local knowledge is critical to effective project planning. Stakeholders are therefore invited to comment on:

- the proposed project locations;
- communities that may require further consideration;
- opportunities to improve project prioritisation;
- potential partnership arrangements;
- implementation risks; and
- any additional information that may support the finalisation of the 2027 UAS Programme.

Feedback received through this consultation process will be considered alongside the technical assessment before the programme is finalised.

7. Technical Framework

The proposed Universal Access and Service (UAS) Programme has been designed to deliver reliable, resilient, and sustainable broadband infrastructure that responds to Papua New Guinea's unique geographical, environmental, and operational challenges. The technical framework adopts a technology-neutral approach, enabling the deployment of the most appropriate mobile broadband solution for each location while supporting future network evolution and infrastructure sharing.

The proposed framework seeks to maximise the long-term value of UAS investments by promoting resilient infrastructure, operational sustainability, and efficient use of public resources. Stakeholders are invited to provide comments on the proposed technical approach and identify opportunities to further strengthen network performance and long-term sustainability.

7.1 Technology Approach

The proposed programme will utilise industry-proven mobile broadband technologies that are suitable for the operating environment and service requirements of each project location.

The technology solution will:

- support reliable voice and broadband services;
- accommodate future technology upgrades where practical;
- comply with applicable national technical standards; and
- provide flexibility to respond to evolving user demand and technological advancements.

A technology-neutral approach ensures that service providers can deploy the most appropriate technical solution while maintaining compliance with NICTA's regulatory and service quality requirements.

7.2 Infrastructure Sharing

To improve investment efficiency and reduce unnecessary duplication of telecommunications infrastructure, all UAS-funded infrastructure is proposed to operate under an open-access and infrastructure-sharing model.

This approach is intended to:

- encourage participation by multiple licensed operators;
- reduce capital investment requirements;
- improve utilisation of shared infrastructure;
- enhance competition; and
- maximise the long-term public value of UAS investments.

Infrastructure sharing will be implemented in accordance with applicable regulatory requirements and licence conditions.

7.3 Network Resilience and Sustainability

Given Papua New Guinea's challenging operating environment, the proposed infrastructure will be designed to maximise long-term operational reliability.

Where appropriate, project design will consider:

- renewable and hybrid power systems;
- reliable backhaul connectivity;
- resilient tower and equipment design;



- ease of maintenance; and
- operational sustainability in remote locations.

These considerations are intended to improve service continuity and reduce long-term operational costs.

7.4 Technical Standards

All projects funded under the UAS Programme will be required to comply with:

- applicable NICTA technical standards;
- relevant national regulatory requirements;
- approved service quality standards;
- environmental and safety requirements; and
- project-specific technical specifications.

Compliance with these requirements will help ensure that infrastructure is safe, reliable, and capable of supporting long-term service delivery.

7.5 Future Readiness

The proposed technical framework has been developed to support future growth in broadband demand and emerging digital services.

Accordingly, the proposed infrastructure should, where technically and commercially feasible:

- support future network upgrades;
- facilitate infrastructure expansion;
- enable multi-operator access; and
- accommodate evolving digital applications and services.

This approach provides flexibility for future investment while protecting the long-term value of public infrastructure.

7.6 Stakeholder Feedback

NICTA welcomes stakeholder views on:

- the proposed technical framework;
- the suitability of the proposed technology approach;
- infrastructure sharing arrangements;
- network resilience measures;
- sustainability considerations; and
- opportunities to improve technical design and implementation.

Stakeholder feedback will assist NICTA in refining the technical framework before finalising the 2027 UAS Programme.

8. Financial Overview and Budget Estimates

The proposed Universal Access and Service (UAS) Programme for 2027 represents a strategic investment in expanding digital connectivity to underserved and unserved communities throughout Papua New Guinea. The estimated programme cost has been developed using current market information, engineering estimates, and operational assumptions that reflect the unique logistical and geographical challenges associated with delivering telecommunications infrastructure in remote areas.



The proposed budget is indicative and is presented for consultation purposes. Stakeholder feedback on the estimated costs, funding approach, and costing assumptions will assist NICTA in refining the programme before final approval.

8.1 Summary of Estimated Costs

The proposed 2027 UAS Programme focuses on the deployment of 322 new mobile broadband infrastructure sites across Papua New Guinea.

The total indicative investment is estimated at PGK 344 million, as summarised below.

Project Category	Estimated Cost (PGK)
Mobile Broadband Infrastructure	344,000,000
Total Proposed Investment	344,000,000

The detailed list of proposed project locations is provided in Annex A.

8.2 Proposed Funding Sources

NICTA proposes that the programme be financed primarily through the Universal Access and Service (UAS) Levy collected from licensed ICT operators in accordance with the National Information and Communications Technology Act 2009.

To maximise programme delivery and reduce the financial burden on industry, NICTA will also continue to explore complementary funding opportunities through:

- National Government support;
- Provincial Government contributions;
- Development partners;
- Public-private partnerships; and
- Other approved funding mechanisms where appropriate.

This blended funding approach is intended to improve programme sustainability, leverage additional investment, and maximise the impact of UAS-funded infrastructure.

8.3 Costing Assumptions

The estimated programme cost has been developed using a comprehensive bottom-up costing methodology.

The estimates include allowances for:

- tower construction and associated civil works;
- broadband backhaul infrastructure;
- satellite and microwave transmission where required;
- renewable and hybrid power systems;
- transportation and mobilisation to remote locations;
- commissioning and network integration; and
- initial operations and maintenance support.

These assumptions reflect the high cost of constructing and operating telecommunications infrastructure in Papua New Guinea's remote and geographically challenging environments. Actual project costs may vary depending on site-specific conditions, procurement outcomes, market pricing, and implementation arrangements.

8.4 Value for Money

NICTA is committed to ensuring that UAS funds are invested efficiently and deliver measurable public benefits.

To maximise value for money, the proposed programme incorporates:

- open-access infrastructure sharing;
- competitive procurement processes;
- standardised technical specifications;
- evidence-based project prioritisation; and
- ongoing project monitoring and evaluation.

These measures are intended to optimise the use of public funds while delivering sustainable digital infrastructure that supports long-term socio-economic development.

8.5 Stakeholder Feedback

NICTA invites stakeholders to provide comments on:

- the proposed programme budget;
- the estimated project costs;
- the proposed funding arrangements;
- the costing assumptions;
- opportunities to improve value for money; and
- alternative financing or partnership models that could support programme delivery.

Stakeholder feedback will assist NICTA in refining the financial framework prior to finalisation of the 2027 UAS Programme.

9. UAS Levy Implications for 2027

The implementation of the proposed 2027 Universal Access and Service (UAS) Programme will require funding through the Universal Access and Service (UAS) Fund, established under the National Information and Communications Technology Act 2009. The UAS Fund is financed primarily through the UAS Levy collected from licensed ICT operators and is intended to support projects that extend ICT services to underserved and unserved areas where commercial investment alone is insufficient.

As this Consultation Paper presents a proposed programme for stakeholder consideration, no decision has yet been made regarding the 2027 UAS Levy. The final levy will be determined only after completion of the consultation process, taking into account stakeholder submissions, the final approved project portfolio, available funding sources, and the statutory requirements of the Act.

9.1 Proposed Levy Determination

Following the conclusion of this consultation, NICTA will review all submissions received and refine the proposed 2027 UAS Programme where appropriate.

The final UAS Levy determination will be based on:

- the final approved UAS project portfolio;
- the total funding requirement for programme implementation;
- projected levy revenues;
- available government or development partner contributions; and
- the requirements of the National Information and Communications Technology Act 2009.

This approach is intended to ensure that any levy determined for 2027 is transparent, equitable, and proportionate to the approved funding requirements.

9.2 Principles for Levy Determination

In determining any UAS Levy, NICTA will be guided by the following principles:

- Transparency – ensuring the basis for the levy is clearly communicated.
- Equity – applying the levy fairly across the industry in accordance with the legislative framework.
- Affordability – balancing programme funding requirements with the financial capacity of the sector.
- Accountability – ensuring that levy proceeds are applied solely to approved UAS projects.
- Value for Money – maximising the public benefits achieved through UAS investments.

These principles are intended to promote confidence in the UAS funding framework and ensure that public resources are managed responsibly.

9.3 Stakeholder Feedback

NICTA welcomes stakeholder comments on:

- the proposed funding approach;
- the principles for determining the UAS Levy;
- alternative funding or co-investment models;
- opportunities to improve the sustainability of the UAS Fund; and
- any other matters relevant to the financing of the proposed 2027 UAS Programme.

Stakeholder submissions will assist NICTA in developing a balanced and sustainable funding approach before any levy determination is made.

10. Implementation and Procurement Approach

Successful implementation of the proposed Universal Access and Service (UAS) Programme will depend on procurement arrangements that are transparent, efficient, competitive, and capable of supporting the timely delivery of infrastructure in Papua New Guinea's diverse operating environments.

Previous implementation cycles have demonstrated that delivering telecommunications infrastructure in remote and underserved areas presents significant commercial and logistical challenges. These include limited market participation, high deployment costs, complex procurement processes, and extended project delivery timeframes. The proposed implementation approach therefore seeks to balance compliance with legislative requirements while providing sufficient flexibility to improve programme delivery and maximise value for money.

10.1 Procurement Approach

The procurement approach for the proposed 2027 UAS Programme will be undertaken in accordance with the National Procurement Act 2019, the National Information and Communications Technology Act 2009, and NICTA's internal procurement and governance requirements.

NICTA proposes to adopt procurement arrangements that:

- promote fair and open competition;
- achieve value for money;
- encourage participation by qualified service providers;
- support timely project implementation; and
- ensure transparency, accountability, and compliance with applicable legislation.

Stakeholders are invited to provide views on procurement approaches that could improve delivery outcomes while maintaining compliance with the legislative framework.

10.2 Procurement Options for Consultation

Recognising the diversity of project locations and market conditions, NICTA is seeking stakeholder feedback on a range of potential procurement approaches that may be appropriate for different project clusters.

These may include:

- Open competitive tendering.
- Pre-qualified supplier panels.
- Framework agreements.
- Negotiated procurement where permitted by legislation.
- Public-private partnerships.
- Partnerships with Provincial Governments and District Development Authorities.
- Other innovative delivery models that improve efficiency while maintaining transparency and competition.

Stakeholders are encouraged to identify procurement models that would improve implementation efficiency, encourage greater industry participation, and reduce delivery risks.

10.3 Indicative Implementation Timeline

Subject to the outcome of this consultation and the completion of the necessary statutory approval processes, the proposed programme is expected to be implemented broadly in accordance with the indicative timeline below.

Stage	Indicative Period
Public Consultation	August 2026
Programme Review and Finalisation	September–October 2026
Project Approval	October 2026
UAS Levy Determination and Collection	November 2026 – January 2027
Procurement	January–May 2027
Project Implementation	June–December 2027

The implementation timeline is indicative only and may be adjusted to reflect consultation outcomes, funding availability, procurement requirements, and operational considerations.

10.4 Risk Management

NICTA recognises that the successful delivery of the proposed programme will depend on proactive management of implementation risks.

Key risks include:

- limited market participation in remote areas;
- procurement delays;
- challenging terrain and logistics;
- land access and stakeholder engagement;
- supply chain constraints; and
- funding and implementation scheduling.

Appropriate mitigation measures will be incorporated into project planning, procurement, contract management, and programme monitoring to minimise these risks and improve delivery outcomes.

10.5 Stakeholder Feedback

NICTA welcomes comments on:

- the proposed procurement approach;
- alternative procurement or partnership models;
- implementation risks;
- opportunities to improve delivery efficiency; and
- the proposed implementation timeline.

Stakeholder feedback will assist NICTA in refining the implementation strategy before finalising the 2027 UAS Programme.

11. Consultation Questions

NICTA invites comments from licensed ICT operators, government agencies, provincial administrations, development partners, industry stakeholders, and the public on the proposed 2027 Universal Access and Service (UAS) Programme.

Stakeholders are encouraged to provide evidence-based submissions and practical recommendations that will assist NICTA in refining the proposed programme before it is finalised. Comments are welcome on all aspects of this Consultation Paper, including the matters outlined below.

11.1 ICT Access Gaps

- a. Do you agree that the ICT access gap assessment accurately identifies the priority underserved and unserved areas requiring public intervention?
- b. Are there additional communities or locations that should be considered for inclusion in the proposed UAS Programme? Please provide supporting information where available.
- c. Are there any inaccuracies or omissions in the access gap analysis that should be addressed?

11.2 Proposed UAS Programme

- a. Do you agree that mobile broadband infrastructure should be the priority investment under the proposed 2027 UAS Programme?
- b. Are the proposed project locations appropriate to achieve the objectives of improving digital connectivity and reducing ICT access gaps?
- c. Are there alternative project priorities or implementation approaches that NICTA should consider?

11.3 Technical Framework

- a. Is the proposed technology-neutral approach appropriate for delivering sustainable broadband infrastructure across Papua New Guinea?
- b. Are the proposed infrastructure sharing arrangements suitable for promoting competition, improving investment efficiency, and reducing infrastructure duplication?
- c. What additional technical considerations should be incorporated into the programme design?

11.4 Financial and Funding Framework

- a. Are the proposed programme cost estimates and funding assumptions reasonable?
- b. Are there alternative funding or co-investment models that could improve programme sustainability?
- c. How can NICTA maximise value for money while maintaining quality and long-term sustainability?

11.5 Procurement and Implementation

- a. Which procurement approach would best support efficient, transparent, and competitive project delivery?
- b. What implementation risks should NICTA consider, and what mitigation measures would you recommend?
- c. How can partnerships with industry, provincial governments, development partners, and local communities be strengthened to improve programme outcomes?

11.6 General Comments

- a. Are there any other matters that NICTA should consider before finalising the 2027 UAS Programme?



Stakeholders are encouraged to provide supporting information, data, case studies, or practical examples where appropriate.

12. Submission Process

NICTA encourages all interested stakeholders to participate in this consultation by providing written comments and recommendations on the proposed Universal Access and Service (UAS) Programme for 2027. Stakeholder feedback is an important part of the programme development process and will assist NICTA in ensuring that the final programme reflects industry expertise, community needs, and national development priorities.

Submissions may address any aspect of this Consultation Paper and should, where possible, be supported by relevant evidence, technical information, or practical experience.

12.1 Submission Requirements

Submissions should include:

- the name of the individual or organisation making the submission;
- contact details for the nominated representative;
- the specific section or issue being addressed;
- comments and recommendations; and
- supporting information where appropriate.

Stakeholders are encouraged to present their views clearly and provide practical recommendations that will assist NICTA in refining the proposed UAS Programme.

12.2 Submission Period

The consultation period will commence on the date of publication of this Consultation Paper and will remain open until the closing date specified below.

Consultation Activity	Date
Consultation Paper Published	07/08/2026
Closing Date for Submissions	31/08/2026
Review of Submissions	04/09/2026
Finalisation of UAS Programme	30/09/2026

Late submissions may be considered at NICTA's discretion where circumstances justify their inclusion.

12.3 Submission Methods

Submissions may be lodged using any of the following methods:

Email

All written comments must be submitted via email only to uas@nicta.gov.pg

Postal Address

The Chief Executive Officer
National Information and Communications Technology Authority (NICTA)
P.O. Box 8444
Boroko, National Capital District
Papua New Guinea

Hand Delivery

National Information and Communications Technology Authority (NICTA)
Ground Level, Punaha Haus
Port Moresby

Where appropriate, NICTA may also accept submissions through its official website or other electronic consultation platforms.

12.4 Confidentiality of Submissions

Unless specifically identified as confidential, submissions received may be used by NICTA in preparing the final UAS Programme and may be summarised or referenced in consultation reports.

Stakeholders wishing to claim confidentiality over all or part of their submission should clearly identify the information concerned and provide the reasons for the confidentiality request. NICTA will consider such requests in accordance with applicable legislation and its obligations relating to transparency and the public interest.

12.5 Next Steps

Following the close of the consultation period, NICTA will:

- review all submissions received;
- assess stakeholder recommendations;
- refine the proposed UAS Programme where appropriate;
- finalise the proposed project portfolio and funding requirements; and
- seek the necessary statutory approvals prior to programme implementation.

NICTA appreciates the time and expertise contributed by all stakeholders participating in this consultation. Constructive feedback will play an important role in shaping the final Universal Access and Service (UAS) Programme for 2027 and ensuring that future investments deliver sustainable, inclusive, and meaningful digital connectivity outcomes for the people of Papua New Guinea.

ANNEX A: Access Gap site list

Site ID	PROV	District	LLG	Latitude	Longitude	Solution	Est. Project Cost	New Pop_Cov
ARB01	ARB	Central Bougainville	Wakunai	-5.80816	154.9955	Rural Star	502,816.17	5,164
ARB02	ARB	North Bougainville	Kunua	-5.66032	154.7239	Macro	1,502,397.52	1,546
ARB03	ARB	North Bougainville	Kunua	-5.79437	154.7571	Macro	1,502,397.52	14,953
ARB04	ARB	North Bougainville	Kunua	-5.87353	154.8219	Macro	1,502,397.52	11,963
ARB05	ARB	North Bougainville	Kunua	-6.05531	154.8908	Macro	1,502,397.52	5,809
ARB06	ARB	Central Bougainville	Arawa	-6.21534	155.2366	Macro	1,502,397.52	2,579
ARB07	ARB	Central Bougainville	Arawa	-6.25309	155.2707	Rural Star	502,816.17	3,923
ARB08	ARB	Central Bougainville	Arawa	-6.27213	155.3082	Rural Star	502,816.17	4,829
ARB09	ARB	Central Bougainville	Arawa	-6.36256	155.5864	Macro	1,502,397.52	13,418
ARB10	ARB	Central Bougainville	Arawa	-6.42428	155.6629	Rural Star	502,816.17	9,867
ARB11	ARB	Central Bougainville	Arawa	-6.46449	155.8345	Macro	1,502,397.52	6,904
ARB12	ARB	South Bougainville	Buin	-6.59204	155.8454	Rural Star	502,816.17	5,183
ARB13	ARB	South Bougainville	Buin	-6.54325	155.7367	Macro	1,502,397.52	9,587
ARB14	ARB	North Bougainville	Attols	-4.77933	155.4641	Rural Star	502,816.17	1,072
ARB15	ARB	North Bougainville	Attols	-3.4558	154.7329	Rural Star	502,816.17	563
ARB16	ARB	North Bougainville	Attols	-4.75788	157.0343	Rural Star	502,816.17	525
ARB17	ARB	North Bougainville	Attols	-4.60462	159.4428	Rural Star	502,816.17	-
CEN01	CEN	Golilala	Guari Rural	-8.19465	146.6846	Macro	1,502,397.52	130
CEN02	CEN	Golilala	Guari Rural	-8.08303	146.7737	Macro	1,502,397.52	631
CEN03	CEN	Golilala	Guari Rural	-8.06073	146.8703	Macro	1,502,397.52	2,649
CEN04	CEN	Golilala	Guari Rural	-8.1252	146.8687	Macro	1,502,397.52	3,245
CEN05	CEN	Golilala	Guari Rural	-8.16055	146.7992	Macro	1,502,397.52	2,128
CEN06	CEN	Golilala	Guari Rural	-8.24475	146.815	Macro	1,502,397.52	732
CEN07	CEN	Golilala	Guari Rural	-8.30706	146.8155	Macro	1,502,397.52	1,388
CEN08	CEN	Golilala	Tapini Rural	-8.40206	146.8882	Macro	1,502,397.52	2,035
CEN09	CEN	Golilala	Tapini Rural	-8.35547	147.0962	Macro	1,502,397.52	5,604
CEN10	CEN	Golilala	Tapini Rural	-8.22884	146.9995	Macro	1,502,397.52	736
CEN11	CEN	Golilala	Tapini Rural	-8.20332	147.0989	Macro	1,502,397.52	4,382
CEN12	CEN	Golilala	Woitape Rural	-8.52719	147.4579	Macro	1,502,397.52	5,566
CEN13	CEN	Golilala	Woitape Rural	-8.72759	147.2648	Macro	1,502,397.52	6,432
CEN14	CEN	Golilala	Woitape Rural	-8.65863	147.0832	Macro	1,502,397.52	2,420
CEN15	CEN	Hiri-Koiari	Koiari Rural	-9.12157	147.6394	Macro	1,502,397.52	3,943
CEN16	CEN	Hiri-Koiari	Koiari Rural	-9.4447	147.6038	Macro	1,502,397.52	1,240
CEN17	CEN	Rigo	Rigo Inland Rural	-9.4758	147.9236	Macro	1,502,397.52	2,302
CEN18	CEN	Rigo	Rigo Inland Rural	-9.65645	148.0488	Macro	1,502,397.52	2,056
CEN19	CEN	Rigo	Rigo Inland Rural	-9.77448	148.079	Macro	1,502,397.52	2,368
CEN20	CEN	Rigo	Rigo Inland Rural	-9.70126	147.8652	Macro	1,502,397.52	3,578
CEN21	CEN	Abau	Cloudy Bay Rural	-10.1229	148.8282	Macro	1,502,397.52	407

CHM01	CHM	Karimui-Nomane	Karimui Rural	-6.71483	144.9857	Macro	1,502,397.52	3,068
CHM02	CHM	Gumine	Bomai/Gumai Rural	-6.20131	144.7957	Macro	1,502,397.52	2,976
CHM03	CHM	Chuave	Siane Rural	-6.18125	145.2196	Macro	1,502,397.52	2,046
EHP01	EHP	Okapa	West Okapa Rural	-6.55773	145.4148	Macro	1,502,397.52	8,724
EHP02	EHP	Obura-Wonenara	Yelia Rural	-7.06074	145.6884	Macro	1,502,397.52	668
EHP03	EHP	Okapa	East Okapa Rural	-6.53031	145.7476	Macro	1,502,397.52	2,290
EHP04	EHP	Henganofi	Dunantina Rural	-6.13753	145.7257	Macro	1,502,397.52	8,260
EHP05	EHP	Unggai-Bena	Upper Bena Rural	-5.99717	145.5961	Macro	1,502,397.52	294
EHP06	EHP	Lufa	Unavi Rural	-6.64845	145.1888	Rural star	502,816.17	421
EHP07	EHP	Obura-Wonenara	Lamari Rural	-6.6093	145.9794	Rural Star	502,816.17	1,939
ENB01	ENB	Pomio	Melkoi Rural	-5.81423	150.8906	Macro	1,502,397.52	358
ENB02	ENB	Pomio	West Pomio/Mamusi Rural	-5.8457	150.9937	Macro	1,502,397.52	440
ENB03	ENB	Pomio	West Pomio/Mamusi Rural	-5.75508	151.0659	Macro	1,502,397.52	2,130
ENB04	ENB	Pomio	Central/Inland Pomio	-5.34436	151.3777	Macro	1,502,397.52	3,229
ENB05	ENB	Pomio	Central/Inland Pomio	-5.18417	151.4308	Macro	1,502,397.52	2,076
ENB06	ENB	Pomio	Central/Inland Pomio	-5.30985	151.6639	Macro	1,502,397.52	5,066
ENB07	ENB	Pomio	Central/Inland Pomio	-5.55504	151.7733	Macro	1,502,397.52	3,229
ENB08	ENB	Pomio	East Pomio Rural	-5.3783	152.1126	Rural Star	502,816.17	1,568
ENB09	ENB	Pomio	Sinivit Rural	-4.96227	152.2206	Macro	1,502,397.52	682
ENB10	ENB	Pomio	Sinivit Rural	-4.78595	152.3349	Macro	1,502,397.52	2,668
ENB11	ENB	Pomio	Sinivit Rural	-4.65915	152.3743	Macro	1,502,397.52	1,960
ENB12	ENB	Gazelle	Inland Baining Rural	-4.49617	151.8086	Macro	1,502,397.52	5,454
ENB13	ENB	Gazelle	Lassul Baining Rural	-4.4176	151.7217	Macro	1,502,397.52	7,900
ENB14	ENB	Gazelle	Lassul Baining Rural	-4.32857	151.5727	Macro	1,502,397.52	2,049
ENB15	ENB	Gazelle	Lassul Baining Rural	-4.75545	151.8164	Macro	1,502,397.52	632
ENG01	ENG	Kompam	Wapi-Yengis Rural	-5.01352	143.9649	Macro	1,502,397.52	3,152
ENG02	ENG	Kompam	Kompam Rural	-5.28492	143.7087	Macro	1,502,397.52	1,828
ENG03	ENG	Kompam	Kompam Rural	-5.32722	143.7958	Macro	1,502,397.52	2,211
ENG04	ENG	Kompam	Kompam Rural	-5.28093	143.8596	Macro	1,502,397.52	3,021
ENG05	ENG	Wabag	Maramuni Rural	-5.14338	143.4358	Rural Star	502,816.17	1,874
ENG06	ENG	Kandep	Kandep Rural	-5.86235	143.6928	Macro	1,502,397.52	4,050
ENG07	ENG	Kandep	Wage Rural	-5.62366	143.311	Macro	1,502,397.52	2,974
ENG08	ENG	Porgera-Paiela	Paiela/Hewa Rural	-5.46525	142.9822	Macro	1,502,397.52	4,506
ENG09	ENG	Porgera-Paiela	Paiela/Hewa Rural	-5.38217	142.9806	Macro	1,502,397.52	7,236
ENG10	ENG	Porgera-Paiela	Paiela/Hewa Rural	-5.33811	142.8467	Macro	1,502,397.52	6,759
ENG11	ENG	Porgera-Paiela	Paiela/Hewa Rural	-5.21605	142.7682	Macro	1,502,397.52	852
GLF01	GLF	Kikori	West Kikori Rural	-7.27044	143.5972	Macro	1,502,397.52	1,030
GLF02	GLF	Kikori	West Kikori Rural	-6.9396	143.0622	Rural Star	502,816.17	385
GLF03	GLF	Kikori	West Kikori Rural	-7.12572	143.2754	Rural Star	502,816.17	1,016
GLF04	GLF	Kikori	West Kikori Rural	-7.69391	143.8847	Rural Star)	502,816.17	491
GLF05	GLF	Kikori	West Kikori Rural	-7.43912	143.9498	Macro	1,502,397.52	1,739

GLF06	GLF	Kikori	East Kikori Rural	-6.85231	144.4093	Macro	1,502,397.52	1,249
GLF07	GLF	Kikori	East Kikori Rural	-7.06258	144.3847	Macro	1,502,397.52	368
GLF08	GLF	Kerema	Kotidanga Rural	-7.39481	145.8065	Macro	1,502,397.52	1,296
GLF09	GLF	Kerema	Kotidanga Rural	-7.61298	145.9315	Macro	1,502,397.52	7,429
GLF10	GLF	Kerema	Kotidanga Rural	-7.71196	145.9204	Macro	1,502,397.52	2,642
GLF11	GLF	Kerema	Kotidanga Rural	-7.64455	145.8179	Macro	1,502,397.52	2,250
GLF12	GLF	Kerema	Kotidanga Rural	-7.62622	145.885	Macro	1,502,397.52	4,462
GLF13	GLF	Kerema	Lakekamu-Tauri Rural	-7.57331	146.1876	Macro	1,502,397.52	3,420
GLF14	GLF	Kerema	Lakekamu-Tauri Rural	-7.80275	146.1192	Macro	1,502,397.52	1,767
GLF15	GLF	Kerema	Lakekamu-Tauri Rural	-7.88075	146.3896	Macro	1,502,397.52	2,870
GLF16	GLF	Kerema	Lakekamu-Tauri Rural	-7.80784	146.5296	Macro	1,502,397.52	2,368
HEL01	HEL	Koroba-Kopiago	South Koroba Rural	-5.82979	142.7734	Rural Star	502,816.17	7,799
HEL02	HEL	Koroba-Kopiago	North Koroba Rural	-5.73289	142.5714	Rural Star	502,816.17	2,160
HEL03	HEL	Koroba-Kopiago	North Koroba Rural	-5.62767	142.4073	Rural Star	502,816.17	2,407
HEL04	HEL	Koroba-Kopiago	North Koroba Rural	-5.41489	142.7454	Rural Star	502,816.17	1,186
JWK01	JWK	Jimi	Jimi Rural	-5.48002	144.6027	Rural Star	502,816.17	2,101
JWK02	JWK	Anglimp-South Waghi	South Waghi Rural	-6.21605	144.6431	Macro	1,502,397.52	3,446
JWK03	JWK	Anglimp-South Waghi	South Waghi Rural	-6.18325	144.4933	Macro	1,502,397.52	1,228
MAD01	MAD	Raicoast	Nayudo Rural	-5.91074	146.6289	Macro	1,502,397.52	3,580
MAD02	MAD	Raicoast	Rai Coast Rural	-5.80354	146.374	Rural Star	502,816.17	1,006
MAD03	MAD	Raicoast	Rai Coast Rural	-5.77413	146.3121	Rural Star	502,816.17	754
MAD04	MAD	Raicoast	Rai Coast Rural	-5.73059	146.1582	Macro	1,502,397.52	2,630
MAD05	MAD	Rai Coast	Naho Rawa Rural	-5.8619	146.1354	Macro	1,502,397.52	1,047
MAD06	MAD	Rai Coast	Astrolabe Bay Rural	-5.60462	145.6915	Macro	1,502,397.52	3,269
MAD07	MAD	Rai Coast	Astrolabe Bay Rural	-5.58878	145.803	Macro	1,502,397.52	1,695
MAD08	MAD	Rai Coast	Astrolabe Bay Rural	-5.70406	145.6739	Rural Star	502,816.17	950
MAD09	MAD	Rai Coast	Astrolabe Bay Rural	-5.52764	145.1823	Rural Star	502,816.17	996
MAD10	MAD	Usino Bundi	Gama Rural	-5.07811	145.0204	Macro	1,502,397.52	1,270
MAD11	MAD	Middle Ramu	Josephstaal Rural	-4.89792	144.93	Macro	1,502,397.52	5,072
MAD12	MAD	Middle Ramu	Kovon	-5.06894	144.3922	Macro	1,502,397.52	1,239
MAD13	MAD	Middle Ramu	Arabaka Rural	-4.78403	144.5613	Macro	1,502,397.52	5,938
MAD14	MAD	Middle Ramu	Josephstaal Rural	-5.04765	145.2583	Macro	1,502,397.52	2,374
MAD15	MAD	Madang	Transgogol Rural	-5.06754	145.4348	Macro	1,502,397.52	3,095
MAS01	MAS	Manus	Balopa	-2.55503	147.2875	Macro	1,502,397.52	1,974
MAS02	MAS	Manus	Nigoherm	-1.51244	145.081	Rural Star	502,816.17	752
MAS03	MAS	Manus	Nigoherm	-1.40404	144.5084	Rural Star	502,816.17	324
MAS04	MAS	Manus	Nigoherm	-1.24339	144.3563	Rural Star	502,816.17	2,313
MAS05	MAS	Manus	Nigoherm	-1.29114	144.3474	Rural Star	502,816.17	2,313
MAS06	MAS	Manus	Nigoherm	-1.38852	144.1726	Rural Star	502,816.17	1,661
MAS07	MAS	Manus	Nigoherm	-1.39422	144.0841	Rural Star	502,816.17	1,661
MAS08	MAS	Manus	Nigoherm	-1.6545	144.0268	Rural Star	502,816.17	243
MAS09	MAS	Manus	Aua Wuvulu	-1.74084	142.8276	Rural Star	502,816.17	813

MAS10	MAS	Manus	Aua Wuvulu	-1.47238	143.0509	Rural Star	502,816.17	414
MBP01	MBP	Alotau	Daga Rural	-9.92338	149.3988	Rural Star	502,816.17	2,813
MBP02	MBP	Alotau	Weraura Rural	-10.1239	149.8429	Macro	1,502,397.52	1,842
MBP03	MBP	Alotau	Weraura Rural	-10.1515	149.9676	Macro	1,502,397.52	2,673
MBP04	MBP	Samarai-Murua	Bwanabwana Rural	-10.6257	150.7563	Macro	1,502,397.52	2,060
MBP05	MBP	Samarai-Murua	Bwanabwana Rural	-10.6689	150.8943	Macro	1,502,397.52	1,684
MBP06	MBP	Samarai-Murua	Bwanabwana Rural	-10.6613	151.0803	Macro	1,502,397.52	2,871
MBP07	MBP	Samarai-Murua	Bwanabwana Rural	-10.5874	151.1972	Macro	1,502,397.52	3,883
MBP08	MBP	Samarai-Murua	Bwanabwana Rural	-10.3921	151.4176	Macro	1,502,397.52	434
MBP09	MBP	Samarai-Murua	Louisiade Rural	-11.0832	152.5596	Macro	1,502,397.52	9,756
MBP10	MBP	Samarai-Murua	Yalemba Rural	-11.187	152.9948	Macro	1,502,397.52	15,770
MBP11	MBP	Samarai-Murua	Yalemba Rural	-11.4958	153.2824	Macro	1,502,397.52	6,486
MBP12	MBP	Samarai-Murua	Yalemba Rural	-11.6303	153.5663	Macro	1,502,397.52	6,248
MBP13	MBP	Samarai-Murua	Yalemba Rural	-11.374	154.0077	Macro	1,502,397.52	16,747
MBP14	MBP	Samarai-Murua	Louisiade Rural	-10.6515	152.6648	Rural Star	502,816.17	8,566
MBP15	MBP	Samarai-Murua	Louisiade Rural	-10.6895	152.6729	Rural Star	502,816.17	2,793
MBP16	MBP	Samarai-Murua	Louisiade Rural	-10.7002	152.7002	Rural Star	502,816.17	12,015
MBP17	MBP	Samarai-Murua	Louisiade Rural	-10.7144	152.7371	Rural Star	502,816.17	9,926
MBP18	MBP	Samarai-Murua	Murua Rural	-9.55175	152.4374	Rural Star	502,816.17	634
MBP19	MBP	Samarai-Murua	Murua Rural	-9.27051	151.8967	Rural Star	502,816.17	2,058
MBP20	MBP	Samarai-Murua	Murua Rural	-8.96655	151.98	Rural Star	502,816.17	8,348
MBP21	MBP	Samarai-Murua	Murua Rural	-8.91285	151.9118	Rural Star	502,816.17	8,348
MBP22	MBP	Samarai-Murua	Murua Rural	-8.70432	151.6746	Rural Star	502,816.17	5,220
MBP23	MBP	Samarai-Murua	Murua Rural	-8.98957	152.4067	Rural Star	502,816.17	5,179
MBP24	MBP	Kiriwina-Goodenough	Kiriwina Rural	-8.63178	151.3244	Rural Star	502,816.17	4,650
MBP25	MBP	Kiriwina-Goodenough	Kiriwina Rural	-8.52199	150.2993	Rural Star	502,816.17	523
MOR01	MOR	Huon	Morobe Rural	-7.98405	147.6247	Macro	1,502,397.52	3,847
MOR02	MOR	Huon	Morobe Rural	-7.81898	147.5471	Rural Star	502,816.17	837
MOR03	MOR	Huon	Morobe Rural	-7.68368	147.4247	Rural Star	502,816.17	765
MOR04	MOR	Wau-Waria	Waria Rural	-7.89656	146.8175	Rural Star	502,816.17	677
MOR05	MOR	Wau-Waria	Waria Rural	-7.76439	146.8602	Macro	1,502,397.52	3,844
MOR06	MOR	Wau-Waria	Wau Rural	-7.69666	146.8029	Macro	1,502,397.52	4,714
MOR07	MOR	Wau-Waria	Wau Rural	-7.66773	146.5581	Rural Star	502,816.17	807
MOR08	MOR	Wau-Waria	Wau Rural	-7.55576	146.6431	Rural Star	502,816.17	365
MOR09	MOR	Huon	Salamaua Rural	-7.25238	146.9806	Rural Star	502,816.17	732
MOR10	MOR	Huon	Salamaua Rural	-7.13235	147.0586	Macro	1,502,397.52	1,738
MOR11	MOR	Huon	Salamaua Rural	-7.10084	146.8342	Macro	1,502,397.52	1,465
MOR12	MOR	Bulolo	Watut Rural	-7.15909	146.7623	Rural Star	502,816.17	1,960
MOR13	MOR	Menyamya	Kapao Rural	-7.51938	146.4323	Macro	1,502,397.52	2,587
MOR14	MOR	Menyamya	Kapao Rural	-7.22977	146.2191	Rural Star	502,816.17	2,786
MOR15	MOR	Menyamya	Wapi Rural	-7.13434	146.141	Rural Star	502,816.17	2,832
MOR16	MOR	Menyamya	Kome Rural	-6.92226	146.0889	Rural Star	502,816.17	1,417

MOR17	MOR	Markham	Onga/Waffa Rural	-6.74948	146.1086	Rural Star	502,816.17	1,146
MOR18	MOR	Markham	Onga/Waffa Rural	-6.76468	146.1994	Rural Star	502,816.17	1,524
MOR19	MOR	Markham	Onga/Waffa Rural	-6.65899	146.112	Rural Star	502,816.17	2,632
MOR20	MOR	Markham	Onga/Waffa Rural	-6.46344	146.2005	Rural Star	502,816.17	600
MOR21	MOR	Markham	Wantoot/Leron Rural	-6.13006	146.3975	Macro	1,502,397.52	2,726
MOR22	MOR	Markham	Wantoot/Leron Rural	-6.15723	146.5476	Rural Star	502,816.17	486
MOR23	MOR	Markham	Wantoot/Leron Rural	-6.27483	146.5692	Rural Star	502,816.17	1,226
MOR24	MOR	Nawae	Wain-Erap Rural	-6.326519244	146.6470605	Rural Star	502,816.17	5,443
MOR25	MOR	Nawae	Wain-Erap Rural	-6.306508866	146.6996587	Rural Star	502,816.17	5,150
MOR26	MOR	Nawae	Nabak Rural	-6.41781	146.9305	Macro	1,502,397.52	10,870
MOR27	MOR	Nawae	Nabak Rural	-6.32222	146.9461	Macro	1,502,397.52	7,952
MOR28	MOR	Nawae	Nabak Rural	-6.45267	147.0224	Rural Star	502,816.17	1,828
MOR29	MOR	Nawae	Nabak Rural	-6.45492	147.0615	Rural Star	502,816.17	2,242
MOR30	MOR	Nawae	Labuta Rural	-6.5386	147.1416	Rural Star	502,816.17	730
MOR31	MOR	Finschafen	Burum Kwat	-6.42101	147.3235	Rural Star	502,816.17	3,786
MOR32	MOR	Finschafen	Burum Kwat	-6.5138	147.3581	Rural Star	502,816.17	5,392
MOR33	MOR	Finschafen	Yabim Mape Rural	-6.49888	147.6019	Rural Star	502,816.17	1,289
MOR34	MOR	Tewae-Siassi	Sialum Rural	-6.31393	147.7166	Rural Star	502,816.17	1,292
MOR35	MOR	Tewae-Siassi	Sialum Rural	-6.17655	147.6002	Rural Star	502,816.17	1,301
MOR36	MOR	Tewae-Siassi	Wasu Rural	-6.07467	147.2225	Rural Star	502,816.17	2,043
MOR37	MOR	Tewae-Siassi	Wasu Rural	-5.96283	147.0846	Rural Star	502,816.17	1,368
MOR38	MOR	Tewae-Siassi	Wasu Rural	-5.88625	146.9128	Rural Star	502,816.17	3,522
MOR39	MOR	Tewae-Siassi	Wasu Rural	-5.90709	146.8566	Rural Star	502,816.17	2,552
MOR40	MOR	Tewae-Siassi	Wasu Rural	-5.85649	146.7871	Rural Star	502,816.17	2,219
MOR41	MOR	Kabwum	Deyamos Rural	-6.02516	146.9519	Rural Star	502,816.17	610
MOR42	MOR	Tewae-Siassi	Siassi Rural	-5.75887	147.9027	Macro	1,502,397.52	1,194
NIP01	NIP	Kavieng	Murat rural	-1.33967	149.566	Macro	1,502,397.52	663
NIP02	NIP	Kavieng	Murat rural	-1.38775	149.6468	Macro	1,502,397.52	797
NIP03	NIP	Kavieng	Murat rural	-1.50046	149.7259	Macro	1,502,397.52	1,021
NIP04	NIP	Kavieng	Murat rural	-1.50357	149.6445	Macro	1,502,397.52	474
NIP05	NIP	Kavieng	Murat Rural	-1.67141	149.9695	Rural Star	502,816.17	609
NIP06	NIP	Kavieng	Lovongai Rural	-2.46826	150.1951	Macro	1,502,397.52	1,730
NIP07	NIP	Kavieng	Lovongai Rural	-2.63925	150.2791	Macro	1,502,397.52	3,325
NIP08	NIP	Namatanai	Namatanai Rural	-3.84198	152.4816	Macro	1,502,397.52	2,813
NIP09	NIP	Namatanai	Konoagil Rural	-4.51583	152.6836	Macro	1,502,397.52	2,564
NIP10	NIP	Namatanai	Konoagil Rural	-4.67496	153.008	Macro	1,502,397.52	1,809
NIP11	NIP	Namatanai	Konoagil Rural	-4.44064	153.0418	Macro	1,502,397.52	2,921
NIP12	NIP	Namatanai	Konoagil Rural	-4.30979	153.1019	Macro	1,502,397.52	1,141
NIP13	NIP	Namatanai	Tanir Rural	-4.095	153.5712	Rural Star	502,816.17	329
NIP14	NIP	Namatanai	Tanir Rural	-4.1342	153.6216	Rural Star	502,816.17	683
NIP15	NIP	Namatanai	Tanir Rural	-4.11825	153.6426	Rural Star	502,816.17	623

NIP16	NIP	Namatanai	Sentral Niu Ailan Rural	-3.46215	152.2151	Macro	1,502,397.52	2,305
ORO01	ORO	Ijivitari	Tufi Rural	-9.09498	148.993	Macro	1,502,397.52	3,320
ORO02	ORO	Popondetta	Oro Bay Rural	-9.15832	148.6198	Macro	1,502,397.52	3,393
ORO03	ORO	Ijivitari	Safia Rural	-9.45135	148.7593	Rural Star	502,816.17	626
ORO04	ORO	Ijivitari	Safia Rural	-9.55621	148.6692	Macro	1,502,397.52	2,629
ORO05	ORO	Ijivitari	Safia Rural	-9.50157	148.4249	Macro	1,502,397.52	1,900
ORO06	ORO	Ijivitari	Afore Rural	-9.27661	148.1449	Rural Star	502,816.17	278
ORO07	ORO	Sohe	Kokoda Rural	-9.16346	148.0696	Macro	1,502,397.52	3,174
ORO08	ORO	Sohe	Kira Rural	-8.06571	147.2997	Macro	1,502,397.52	1,706
ORO09	ORO	Sohe	Kira Rural	-8.03789	147.473	Macro	1,502,397.52	1,313
ORO10	ORO	Sohe	Tamata Rural	-8.1005	147.74	Macro	1,502,397.52	2,666
SHP01	SHP	Nipa-Kutubu	Mt Bosavi Rural	-6.26986	142.7842	Macro	1,502,397.52	1,787
SHP02	SHP	Nipa-Kutubu	Mt Bosavi Rural	-6.45087	142.8265	Macro	1,502,397.52	1,957
SHP03	SHP	Nipa-Kutubu	Mt Bosavi Rural	-6.81595	142.9003	Rural Star	502,816.17	403
SHP04	SHP	Kagua-Erave	Erave Rural	-6.74351	143.9456	Macro	1,502,397.52	9,380
SHP05	SHP	Kagua-Erave	Erave Rural	-6.69029	144.0027	Macro	1,502,397.52	9,680
SHP06	SHP	Kagua-Erave	Erave Rural	-6.67947	144.1783	Macro	1,502,397.52	3,928
SHP07	SHP	Kagua-Erave	Erave Rural	-6.70276	144.2236	Rural Star	502,816.17	1,864
SHP08	SHP	Kagua-Erave	Erave Rural	-6.72386	144.2935	Rural Star	502,816.17	1,520
SHP09	SHP	Kagua-Erave	Erave Rural	-6.66063	144.2915	Rural Star	502,816.17	1,265
SHP10	SHP	Kagua-Erave	Erave Rural	-6.78671	144.1554	Rural Star	502,816.17	523
WES01	WES	North Fly	Star Mountain Rural LLG	-5.16139	141.011	Rural Star	502,816.17	545
WES02	WES	North Fly	Star Mountain Rural LLG	-5.12089	141.114	Rural Star	502,816.17	228
WES03	WES	North Fly	Star Mountain Rural LLG	-5.20616	141.0302	Rural Star	502,816.17	719
WES04	WES	North Fly	Olsobip Rural LLG	-5.75418	141.9951	Rural Star	502,816.17	152
WES05	WES	North Fly	Kiunga Rural LLG	-6.10297	141.7352	Rural Star	502,816.17	464
WES06	WES	North Fly	Kiunga Rural LLG	-5.94674	141.9007	Macro	1,502,397.52	288
WES07	WES	North Fly	Kiunga Rural LLG	-5.81404	141.525	Macro	1,502,397.52	876
WES08	WES	Middle Fly	Nomad Rural LLG	-6.56397	142.2168	Macro	1,502,397.52	577
WES09	WES	Delta Fly	Bamu Rural LLG	-6.94866	142.65	Rural Star	502,816.17	2,441
WES10	WES	Delta Fly	Bamu Rural LLG	-7.90553	143.7885	Macro	1,502,397.52	1,192
WES11	WES	Delta Fly	Ariama Gogodala Rural LLG	-8.14186	142.2569	Macro	1,502,397.52	272
WES12	WES	South Fly	Morehead Rural LLG	-9.1358	141.3241	Rural Star	502,816.17	291
WES13	WES	Delta Fly	Bamu Rural LLG	-6.87123	142.7521	Rural Star	502,816.17	804
WHP01	WHP	Dei	Kotna Rural	-5.59344	144.4442	Macro	1,502,397.52	706
WHP02	WHP	Dei	Kotna Rural	-5.59568	144.3532	Macro	1,502,397.52	2,131
WNB01	WNB	Talasea	Talasea Rural	-5.07534	150.0265	Rural Star	502,816.17	580
WNB02	WNB	Talasea	Talasea Rural	-5.01721	150.1452	Rural Star	502,816.17	555
WNB03	WNB	Talasea	Talasea Rural	-5.31586	149.9159	Rural Star	502,816.17	428
WNB04	WNB	Kandrian-Gloucester	Kove/Kaliai Rural	-5.77746	149.299	Macro	1,502,397.52	3,259
WNB05	WNB	Kandrian-Gloucester	Kove/Kaliai Rural	-5.7296	149.217	Macro	1,502,397.52	5,262

WNB06	WNB	Kandrian-Gloucester	Kove/Kaliai Rural	-5.66141	149.0631	Rural Star	502,816.17	3,689
WNB07	WNB	Kandrian-Gloucester	Kove/Kaliai Rural	-5.71844	149.134	Macro	1,502,397.52	3,198
WNB08	WNB	Kandrian-Gloucester	Gloucester Rural	-5.52619	148.5155	Macro	1,502,397.52	2,265
WNB09	WNB	Kandrian-Gloucester	Gloucester Rural	-5.58824	148.3897	Rural Star	502,816.17	3,055
WNB10	WNB	Kandrian-Gloucester	Gloucester Rural	-5.58226	148.3455	Rural Star	502,816.17	3,406
WNB11	WNB	Kandrian-Gloucester	Kandrian Coastal Rural	-5.84157	148.8795	Macro	1,502,397.52	1,185
WNB12	WNB	Kandrian-Gloucester	Kandrian Coastal Rural	-5.84049	148.7683	Macro	1,502,397.52	1,236
WNB13	WNB	Kandrian-Gloucester	Kandrian Inland Rural	-5.96802	149.2823	Macro	1,502,397.52	5,698
WNB14	WNB	Kandrian-Gloucester	Kandrian Inland Rural	-5.94539	149.4452	Rural Star	502,816.17	1,889
WNB15	WNB	Kandrian-Gloucester	Kandrian Inland Rural	-6.03691	149.7861	Macro	1,502,397.52	1,732
WNB16	WNB	Kandrian-Gloucester	Kandrian Coastal Rural	-6.2792	149.6031	Macro	1,502,397.52	1,149
WNB17	WNB	Kandrian-Gloucester	Kandrian Coastal Rural	-6.27568	149.8487	Macro	1,502,397.52	2,921
WNB18	WNB	Kandrian-Gloucester	Gasmata Rural	-6.24611	150.2031	Macro	1,502,397.52	1,567
WNB19	WNB	Kandrian-Gloucester	Gasmata Rural	-6.00378	150.3628	Rural Star	502,816.17	248
WSP01	WSP	Aitape-Lumi	East Aitape Rural	-3.4797	142.9684	Macro	1,502,397.52	1,710
WSP02	WSP	Aitape-Lumi	East Aitape Rural	-3.46123	142.8537	Macro	1,502,397.52	835
WSP03	WSP	Nuku	Maimai Wanwan	-3.67515	142.3684	Macro	1,502,397.52	3,308
WSP04	WSP	Nuku	Mwase Rural	-3.8521	142.4973	Macro	1,502,397.52	6,648
WSP05	WSP	Telefomin	Namea Rural	-4.05256	141.9887	Rural Star	502,816.17	3,439
WSP06	WSP	Aitape-Lumi	West Aitape Rural	-3.22037	141.9694	Rural Star	502,816.17	531
WSP07	WSP	Aitape-Lumi	West Wapei Rural	-3.36135	142.0145	Macro	1,502,397.52	3,901
WSP08	WSP	Aitape-Lumi	West Wapei Rural	-3.43596	141.8823	Macro	1,502,397.52	4,166
WSP09	WSP	Aitape-Lumi	West Wapei Rural	-3.3205	141.8225	Rural Star	502,816.17	921
WSP10	WSP	Vanimo-Green	Walsa Rural	-3.21216	141.492	Macro	1,502,397.52	1,726
WSP11	WSP	Vanimo-Green	Amanab Rural	-3.38456	141.6052	Rural Star	502,816.17	1,107
WSP12	WSP	Vanimo-Green	Amanab Rural	-3.57354	141.5912	Rural Star	502,816.17	1,665
WSP13	WSP	Vanimo-Green	Amanab Rural	-3.60782	141.0739	Macro	1,502,397.52	5,892
WSP14	WSP	Vanimo-Green River	Green River Rural	-3.76626	141.0778	Macro	1,502,397.52	4,086
WSP15	WSP	Vanimo-Green River	Green River Rural	-4.13712	141.3302	Macro	1,502,397.52	2,717
WSP16	WSP	Telefomin	Yapsie Rural	-4.63844	141.0843	Macro	1,502,397.52	1,837
WSP17	WSP	Telefomin	Yapsie Rural	-4.92163	141.1413	Rural Star	502,816.17	673
WSP18	WSP	Telefomin	Yapsie Rural	-4.79224	141.1018	Macro	1,502,397.52	1,605
WSP19	WSP	Telefomin	Telefomin Rural	-4.90082	141.6144	Rural Star	502,816.17	1,150
WSP20	WSP	Telefomin	Telefomin Rural	-4.968126202	141.9047229	Rural Star	502,816.17	620
WSP21	WSP	Telefomin	Telefomin Rural	-4.76271	141.6099	Macro	1,502,397.52	986
WSP22	WSP	Telefomin	Oksapmin Rural	-4.7557	142.2719	Rural Star	502,816.17	1,037
WSP23	WSP	Telefomin	Oksapmin Rural	-5.12923	142.2848	Rural Star	502,816.17	4,726
WSP24	WSP	Telefomin	Oksapmin Rural	-5.2912	142.2415	Rural Star	502,816.17	543
WSP25	WSP	Telefomin	Oksapmin Rural	-5.31313	142.1477	Rural Star	502,816.17	461
ESP01	ESP	Angoram	Marienberg Rural	-3.85788	144.0603	Macro	1,502,397.52	7,225
ESP02	ESP	Angoram	Marienberg Rural	-3.94893	144.2339	Macro	1,502,397.52	5,845

ESP03	ESP	Angoram	Marienberg Rural	-4.4631	144.4367	Macro	1,502,397.52	4,784
ESP04	ESP	Angoram	Keram Rural	-4.55226	144.0995	Macro	1,502,397.52	2,580
ESP05	ESP	Angoram	Keram Rural	-4.73223	144.2867	Macro	1,502,397.52	6,134
ESP06	ESP	Angoram	Yuat Rural	-4.47828	143.797	Macro	1,502,397.52	4,987
ESP07	ESP	Angoram	Yuat Rural	-5.01308	143.8734	Macro	1,502,397.52	2,899
ESP08	ESP	Angoram	Karawari Rural	-4.91869	143.5573	Macro	1,502,397.52	803
ESP09	ESP	Angoram	Karawari Rural	-4.93056	143.1599	Macro	1,502,397.52	583
ESP10	ESP	Angoram	Karawari Rural	-4.90346	143.2872	Macro	1,502,397.52	357
ESP11	ESP	Angoram	Karawari Rural	-4.72479	143.3241	Macro	1,502,397.52	1,365
ESP12	ESP	Angoram	Karawari Rural	-4.71324	142.9763	Rural Star	502,816.17	553
ESP13	ESP	Angoram	Karawari Rural	-5.03572	143.148	Rural Star	502,816.17	515
ESP14	ESP	Angoram	Karawari Rural	-4.62209	142.8912	Rural Star	502,816.17	308
ESP15	ESP	Wosera Gawi	Gawi Rural	-4.33008	143.0782	Macro	1,502,397.52	847
ESP16	ESP	Ambunti-Drekikier	Tunap/Hustein	-4.69064	142.5464	Rural Star	502,816.17	938
ESP17	ESP	Ambunti-Drekikier	Tunap/Hustein	-4.61632	142.7474	Rural Star	502,816.17	284
ESP18	ESP	Ambunti-Drekikier	Tunap/Hustein	-4.75728	142.725	Rural Star	502,816.17	100
ESP19	ESP	Ambunti-Drekikier	Tunap/Hustein	-4.53614	142.3736	Macro	1,502,397.52	1,939
ESP20	ESP	Ambunti-Drekikier	Tunap/Hustein	-4.59394	142.105	Rural Star	502,816.17	694
ESP21	ESP	Ambunti-Drekikier	Tunap/Hustein	-4.58881	141.5738	Rural Star	502,816.17	630
ESP22	ESP	Ambunti-Drekikier	Tunap/Hustein	-4.33862	141.7489	Macro	1,502,397.52	5,194
ESP23	ESP	Ambunti-Drekikier	Tunap/Hustein	-4.12963	141.6452	Macro	1,502,397.52	2,686
ESP24	ESP	Ambunti-Drekikier	Tunap/Hustein	-4.31411	141.5729	Macro	1,502,397.52	2,559
ESP25	ESP	Wewak	Wewak Islands Rural	-3.34948	143.5958	Rural Star	502,816.17	1,595
ESP26	ESP	Wewak	Wewak Islands Rural	-3.32414	143.5639	Rural Star	502,816.17	1,815
ESP27	ESP	Wewak	Wewak Islands Rural	-3.31513	143.5418	Rural Star	502,816.17	1,815
ESP28	ESP	Wewak	Wewak Islands Rural	-3.23775	144.0764	Rural Star	502,816.17	573
ESP29	ESP	Wewak	Wewak Islands Rural	-3.24862	144.1051	Rural Star	502,816.17	1,474
ESP30	ESP	Wewak	Wewak Islands Rural	-3.19757	144.1003	Rural Star	502,816.17	576
ESP31	ESP	Wewak	Wewak Islands Rural	-3.19916	144.0775	Rural Star	502,816.17	605
ESP32	ESP	Wewak	Wewak Islands Rural	-3.36187	144.2088	Rural Star	502,816.17	1,568
ESP33	ESP	Wewak	Wewak Islands Rural	-3.3956	144.3898	Rural Star	502,816.17	409
ESP34	ESP	Wewak	Wewak Islands Rural	-3.51067	144.596	Rural Star	502,816.17	1,360
ESP35	ESP	Wewak	Wewak Islands Rural	-3.51381	144.614	Rural Star	502,816.17	1,170
ESP36	ESP	Wewak	Wewak Islands Rural	-3.50756	144.6179	Rural Star	502,816.17	479
ESP37	ESP	Wewak	Wewak Islands Rural	-3.60627	144.5861	Rural Star	502,816.17	1,360
ESP38	ESP	Wewak	Wewak Islands Rural	-3.59979	144.8214	Rural Star	502,816.17	1,837
TOTAL							343,830,612.01	866,827

ANNEX B: Map Plot of proposed 322 sites in Annex A.

