DATA GARDEN

Quick deployment e-village solution



SATSOL's Data Garden concept is an innovative Internet access solution for remote and rural communities

It is designed to addresses three related barriers to access that affect many communities in rural Solomon Islands villages, namely:



lack of affordable no electrical connectivity power source





poor access to cash and means of making financial

The Data Garden integrates connectivity, power and financial technology and consists of:

 a carrier grade LTE (4G) base station



 a top up system using iumiCash e-wallet



 a solar trailer with 12m mast



The Data Garden is an ideal rapid-deployment solution for remote areas. Applications include:

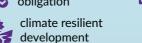


humanitarian relief

disaster response



universal access obligation





The Data Garden is a practical and appropriate solution

Data Gardens may be suitable for many applications, for instance schools and rural hospitals, where the connectivity can be provided securely to those who need it. Data Gardens are also cost effective compared to traditional cell towers.

The Data Garden connects to high throughput satellite providers including Kacific and StarLink. The network can typically be accessed by mobile phone handsets within a 1km range and fixed access modems with directional antennas at longer range.

Customers will use smart phones or modems that accept SATSOL SIM cards and subscribe to innovative data plans using the SATSOL app. Customers will pay with iumiCash, a fully interoperable mobile money (e-wallet) service established in Solomon Islands since 2020.

Tested in a realistic environment

The Data Garden has been extensively tested in a realistic village environment. Since November 2022 it has been deployed at Numbu Village in north north-central Guadalcanal, as part of the ISIF ISIF-Asia funded project in collaboration with the village community.

Key features



Rapidly deployable to remote locations

The Data Garden can be towed to inaccessible locations by road or transported on landing crafts to remote islands, with one week implementation timelines. The solar trailers are high quality, robust and secure and the system status can be monitored remotely.



The Data Garden supports universal access

Ideal for blackspots where other telco services are unavailable. Additionally, despite the emergence of remote access broadband services such as StarLink, many Solomon Islanders will struggle access them because they are designed for direct sale to the customer, requiring credit/debit cards and commitment to monthly subscription plans. The Data Garden acts as an intermediary adding value by aligning such direct services with Solomon Islands contexts.



Digital transformation of the village economy

By combining the Data Garden connectivity with a pioneering e-wallet solution already established in Solomon Islands (iumiCash), wider benefits to the village economy may be enjoyed from the resulting digital transformations.

For instance, stores and small businesses can reduce logistics costs and men and women will have more security and ability to save money.



Does not require significant investments

The target price of a Data Garden system including the solar trailer, telecommunications and networking equipment, assembly and testing and installation, commissioning on site and technical support is expected to be around USD 60,000.



Aligned with Solomon Islands' development policies and priorities

- 1. It extends access to the digital economy supporting economic growth and service delivery.
- The integrated mobile money solution is aligned with the National Financial Inclusion Strategy (amplifies the reach and quality of digital financial services).



Numbu community trying out iumiCash at a training workshop, July 2022



Deploying the Data Garden to Numbu



SATSOL customers can top up their accounts with the iumiCash app



Contact SATSOL for more information

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