

Local Networks Demand, Supply & Financial Planning App

Online Tool Introduction

Telco2 + SKC supported by

APC, ISOC, APNIC Foundation, Hello World, WACC

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Speaker Introduction

- Active in ISP Networks since 1995
- Native of Kansas, based in New Zealand since 2003
- Radio Engineer for 40+ organisations in New Zealand
- Software development & data analysis in Python, R, SQL, and GIS tools
- Research and papers on telecoms in emerging markets for APC, Asia Foundation, Asian Development Bank, UNESCAP
- Training for APNIC, ICTP, NSRC, ITU
- Active in Asia Pacific Internet Governance since 2013

The Application in Brief

- Economic and financial model to evaluate the demand and financial sustainability of community networks in under-serviced communities
- Inputs: community characteristics and network configuration
- Outputs:
 - Supply Model: Network Configuration
 - Demand and Community Benefit Analysis
 - Profit and Loss Statement
 - Investment and Operating Cashflow Statement

Supply Side Calculations

- **Coverage Model**

- basic determination of population with access to the service

- **Peak Hour Utilisation Model**

- determines number of users the designed access network supports

- **Backhaul Model**

- determines requirement for and cost of backhaul as users increase and use grows

- **Power Model**

- determines the requirement and cost for power infrastructure to support the network, considering a choice of solar, mains, or hybrid power systems

Demand Side Calculations

- **Demand Curve**
 - Sets a maximum uptake for service based on cost as a proportion of household income across the community
- **User Groups**
 - Different characteristics for households above and below median income have different adoption profiles
- **Public Access Facilities**
 - Presence of public access (Internet Cafés, computer labs) is accounted including hours and likely congestion, and satisfies use requirements for some users while deterring them from buying subscriptions.

Economic Impact Calculations

- **Community Benefit Analysis**
 - Shows how both access to the service and operation of the service by a local provider can have significant financial benefits
- **Investment and Cashflow Statement**
 - Provides a detailed look at the Capital and Operating cash requirements of the proposed solution based on a three-year use ramp-up.
- **Profit & Loss Statement**
 - Shows the financial sustainability of the solution over a ten-year period.

Basic Configuration

The screenshot shows a web browser window with the title "Community Network Builder" and the URL "locnet.io". The page displays configuration options for Bangladesh, categorized under "Community Characteristics".

Community Characteristics

Variable	Value / Units	Explanation
<i>General Options</i>		
Area in km ²	1 sqkm	The total area in square kilometers targeted for coverage.
★ Total number of Households	100	The total number of households in the target coverage area.
Population Growth Rate	1.2 percent	Default value via World Bank SP.POP.GROW Population growth (annual %)
★ Weekly Household Income (USD)	105.5 USD	An estimate derived from GDP per Capita multiplied by Household Size, divided by 100.
<i>Additional User Types</i>		
Businesses	1	This subscriber type is intended to be used to include the many small community based businesses with (probably only a few) employees, some of who use connectivity solution. Essentially this subscriber type is a less intensive use-case with lower QOS requirements.
Business Users	2 people	The number of connectivity users in the business.
Service Providers	1	This is a subscriber type that is intended to reflect the characteristics of government or private organisations, such as health (rural clinics) or education (schools), NGOs, churches, etc, with potentially many intensive users in the same premises.
Service Provider Users	2 people	The number of connectivity users in the service provider.

▶ Select the technologies you want to use

▶ Physical Characteristics

Technologies, Frequencies, and Environment

The screenshot shows the 'Community Network Builder' web application. The browser address bar shows 'locnet.io'. The interface is organized into several sections:

- Community Characteristics**
 - Select the technologies you want to use:
 - Fixed Wireless to the Home/Premises
 - Fibre to the Home/Premises
 - Mobile, and/or Public WiFi hotspot(s)
 - Public Access Facility
 - Select the frequencies you have access to:
 - 700 MHz
 - 900 MHz
 - 1800 MHz
 - 2100 MHz
 - 2.4 GHz ISM
 - 2600 MHz
 - 3500 MHz
 - 5.8 GHz ISM
 - GPON
 - Physical Characteristics
 - Terrain profile: **Medium Variation** (with a help icon)
 - Vegetation profile: **Very Low Vegetation** (with a help icon)
- Organisation Type
- Expert Options
- Network Elements

At the bottom of the interface is a button labeled **Run the Model**.

Expert Configuration (1/4)

Community Network Builder x +

locnet.io

Work

Expert Options

Variable	Value / Units	Explanation
<i>Business Options</i>		
★ Labour Cost	2 USD	Cost of labour in the local market, per hour.
Customer Service OpEx (Fixed)	1.2 fte	The fixed operating expenditure for customer service (the expenditure that does not vary by the number of system users) specified by the number of full-time employees required. Community provision may have a lower value than corporate provision because of voluntary contribution of labour by community members.
Customer Service Opex (Variable)	0.3 fte	The customer service operating expenditure that varies with the number of users and is expressed as the number of full-time employees per 100 users. Community provision may have a lower value than corporate provision because of voluntary contribution of labour by community members.
Maintenance OpEx	2 percent	An estimate of maintenance topics expressed as a percentage of total network and power equipment capital cost.
★ CapEx subsidy	0 USD	The dollar value of Capex funded by subsidies (assumed to be paid at the end of the first year).
OpEx subsidy as % of OpEx	0 percent	The percentage of Operational Expenditure funded each year for the life of the solution
User Equipment Subsidy	0 percent	Percentage of the total cost of personal equipment for end users subsidised.
Cost of User Equipment	100 USD	The cost of handsets or other individual based equipment such as tablets, per user.
Cost of Finance	5 percent	
★ Proportion of capital funded by debt	0 percent	The proportion of Capital Expenditure that is funded by debt.
Weighted Average Cost of Capital	6 percent	The required return on the project, or target Weighted Average Cost of Capital. The required rate may be lower for community provision than for commercial provision.

Expert Configuration (2/4)

Community Network Builder x +


locnet.io

Expected Inflation	10.47 percent	Annual expected inflation expressed as a percentage price increase.
Corporate Tax Rate	0 percent	It may be that there is no corporate tax or a lower corporate tax rate for community provision.
Initial Spectrum Licence Fee	0 USD	Any spectrum fees associated with the solution for the life of the solution are entered here.
Other Operational Expenses	7.5 percent	Other operational costs, for example office costs and overheads. This is expressed as a percentage of labour costs. Community provision may have a lower value than corporate provision because of voluntary contribution of labour by community members.
Margin on Operating Cost	15 percent	This allows any differences in required margin on operating costs between commercial and community provision to be accommodated in the model. Note that this margin is on opex only.
Cost Discount for Community Operators	0 percent	For a variety of reasons, the cost of capital equipment may be lower for community provision than for commercial provision. The discount of the cost of capital equipment for community provision compared to commercial is expressed here as a percentage discount. If, for example, the type and cost of capital used for community provision was exactly the same as for commercial provision, this discount would be set to zero.
<i>General Options</i>		
System Life	10 years	The expected life of the system in years. This version of the model uses a single lifespan for the tower, access and backhaul equipment, and the power system.
★ Year 1 Traffic	10 gigabytes	Expected traffic consumption per person in the first year of the system's use.
Traffic Growth	25 percent	Expected annual growth in traffic consumption. In underdeveloped markets this is typically 30%.
★ Household Size	4.3 people	Default value sourced from UNDESA PD 2022
Percent of non-users per household	19.7 percent	Household occupants younger than ten years or older than 80 years are not considered to be users of the service.
Users per household	3.91 people	Household occupants between the ages of 10-79 years old are assumed to be users of the service.
Total potential users	391 people	The number of users times the number of households.
Users Above Median		

Expert Configuration (3/4)

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Users Above Median Income with Internet-Capable Phones	50 percent	Proportion of users living in households with income above the national median who already own mobile phones capable of browsing the Internet.
Users Below Median Income with Internet-Capable Phones	30 percent	Proportion of users living in households with income below the national median who already own mobile phones capable of browsing the Internet.
<i>Public Access Facility Options</i>		
Public Access Facilities use by a deterred user	13 hours	A 'deterred user' is one who would have become a subscriber but decides not to because of the availability of Public Access Facilities. The average number of hours per month per deterred user is set here.
Public Access Facilities use by a subscriber	4 hours	An estimate of the number of hours that subscribers to alternative Technical solutions will use the Public Access Facility.
Public Access Facilities use by a non-subscriber	9 hours	A 'non-subscriber' is a community member who would not have subscribed (at current parameter values). The average number of hours per month that 'non-subscribers' use the PAFs is entered here.
Charge for Public Access Facilities use	0.25 percent	Charge for use based on a percentage of weekly household income per hour.
Charge for Public Access Facilities use	0.3 USD	Charge for use based on a percentage of weekly household income per hour.
<i>Power Options</i>		
 Mains Power Installation Cost	1000 USD	Cost of installing mains power to a site.
Mains Power Cost per kWh	0.65 USD	Cost of energy per Kilowatt hour.
Solar Cost per Watt	0.6 USD	Cost of solar systems, per Watt, including installation to a frame or roof. Will be higher in remote and island locations.

Expert Configuration (4/4)

The screenshot shows a web browser window with the title "Community Network Builder" and the URL "locnet.io". The page displays a list of configuration parameters for a solar and battery system, each with a value and a description. At the bottom, there is a button labeled "Run the Model".

Solar Cost per Watt	0.6 USD	Cost of solar systems, per Watt, including installation to a frame or roof. Will be higher in remote and island locations.
Battery Cost per Watt Hour	0.3 USD	Cost of battery power per Watt hour of storage.
Battery Depth of Discharge	80 percent	The degree to which a battery is allowed to discharge. Lead acid systems in particular have longer lifespans when discharge depth is limited.
Charger Inverter Base Cost	50 USD	The base cost for a generic Maximum Power Point Tracking (MPPT) solar charge controller.
Charger Inverter Variable Cost	0.35 USD	Additional cost per watt for MPPT solar charge controllers. Systems above 1kW are assumed to have a built-in inverter.
Solar Efficiency	21 percent	Solar panel efficiency. New modules are typically 18-21% efficient. Changing efficiency changes physical area required for panels, not system price.
Solar Derating	0.5 percent	Percent of solar capacity lost every year due to loss of efficiency as panels age.
Battery Age Derating	0.5 percent	Percent of battery capacity lost every year due to loss of efficiency as batteries age.
Reliable Power Hours	4 hours	Hours of standby power to provision for a system with reliable grid power.
Intermittent Power Hours	24 hours	Hours of standby power to provision for a system with intermittent power. This covers countries where load-shedding is common.
Offgrid Power Hours	48 hours	Hours of standby power to provision for an offgrid system. This figure will be automatically adjusted depending on the location of the system.
Hybrid Power Hours	12 hours	Hours of standby power to provision for a dual solar and grid system. A higher figure may be appropriate where power losses are common in winter or rainy seasons.

› Network Elements

Run the Model

Network Builder: Technologies and Sectors

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locnet.io


Work

Location 1

Name:

Network Types

In this section you pick a technology and a number of instances of the technology provided by this location. Wireless technologies may have between 1-6 sectors, depending on the technology. GPON installations need only one chassis. Public Access Facilities may have between 4-30 seats. Tower locations can support multiple technologies but please choose only one instance of each.



<input type="text" value="ISM Wi-Fi 2.4 GHz 4x4 MIMO"/>	<input type="text" value="3"/>	Sector(s)	<input type="button" value="Remove"/>
<input type="text" value="4G Handset 3500 MHz 2x2 MIMO"/>	<input type="text" value="3"/>	Sector(s)	<input type="button" value="Remove"/>
<input type="text" value="4G Handset 3500 MHz 4x4 MIMO"/>	<input type="text" value="1"/>	Sector(s)	<input type="button" value="Remove"/>

Select Network Type

- ✓ 4G Handset 3500 MHz 2x2 MIMO
- 4G Handset 3500 MHz 4x4 MIMO
- ISM Wi-Fi 2.4 GHz
- ISM Wi-Fi 2.4 GHz 4x4 MIMO
- ISM Wi-Fi 5.8 GHz
- ISM Wi-Fi 5.8 GHz 4x4 MIMO

te? Is there room to install solar panels? In most cases a hybrid mains and solar power system will have the lowest long-term cost.

Select Power System

Tower Type

Towers can be as simple as antennas mounted on a rooftop or as complex as an engineered structure with guy wires. For this model, the important data is cost. Correct the supplied cost if you have better information for your application.

Tower Type

Cost USD

Network Builder: Power System & Tower

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4G Handset 3500 MHz 2x2 MIMO 1 Sector(s) Remove

Add Network Type

Power System

What type of power is available at this site? Is there room to install solar panels? In most cases a hybrid mains and solar power system will have the lowest long-term cost.

Solar Power: A site that doesn't have mains power but is capable of hosting solar panels.

Tower Type

Towers can be as simple as antennas mounted on a rooftop or as complex as an engineered structure with guy wires. For this model, the important data is cost. Correct the supplied cost if you have better information for your application.

Tower Type A fifteen metre tall tower, which could be freestanding or supported by guy wires.

Cost 6000 USD

Tower Connectivity

Every tower location must have at least one network link or one backhaul link. If your tower location has only a network link, you must add another tower location that will have a backhaul link.

Network Links

A network link, or midhaul, connects this location to another location. If you choose to add a network link at this location, you must add the same type of network link at another location.

Add Network Link

Backhaul Links

A backhaul is a connection to the Internet. Every network needs at least one backhaul, but not every tower location needs a backhaul. Correct the suggested costs if you have better information for your application.

Network Builder: Links & Backhaul

The screenshot shows a web browser window with the title "Community Network Builder" and the URL "locnet.io". The interface is a form for configuring network parameters. At the top, there are browser navigation icons and a user profile icon labeled "Work".

The main form area is divided into sections:

- Tower Type:** A dropdown menu with the selected option "A fifteen metre tall tower, which could be freestanding or supported by guy wires." and a downward arrow.
- Cost:** A text input field containing "6000" followed by "USD".
- Tower Connectivity:** A section with a heading and a paragraph: "Every tower location must have at least one network link or one backhaul link. If your tower location has only a network link, you must add another tower location that will have a backhaul link."
- Network Links:** A section with a heading and a paragraph: "A network link, or midhaul, connects this location to another location. If you choose to add a network link at this location, you must add the same type of network link at another location." Below this is a dropdown menu with "ISM FWA 200 - ISM Fixed Wireless 200 Mbps" selected, a close button (X), and an "Add Network Link" button.
- Backhaul Links:** A section with a heading and a paragraph: "A backhaul is a connection to the Internet. Every network needs at least one backhaul, but not every tower location needs a backhaul. Correct the suggested costs if you have better information for your application." Below this is a dropdown menu with "LEO Satellite - Low Earth Orbit Satellite" selected, a close button (X), and two input fields: "Fixed Monthly Charge" with "150" and "USD Cost of traffic" with "5". An "Add Backhaul Link" button is below these fields.

At the bottom of the form, there is an "Add Network Location" button and a large "Run the Model" button.

Summary of Outcomes

Community Network Builder x +

locnet.io

Summary of Outcomes

Outcome	Value
Solution Capex per potential decision maker (ex PAF)	\$55.39
Annualized Solution Capex per decision maker	\$3.19
Power cost (annual per decision maker)	\$0.95
Annual Operating cost per decision maker (ex PAF)	\$30.17
Monthly average cost of service per decision maker	\$2.86
Additional private costs per decision maker	\$2.60
Average Annual operator revenue (US\$)	\$35,700
Average Annual subsidy payment (US\$)	\$0
Average Annual costs (US\$)	\$27,304
Average Annual EBIDTA (US\$)	\$8,396
Average Annual EBIT (US\$)	\$7,242
Financial Return on Investment (IRR of CashFlows)	40.26%
Average annual social benefit (US\$)	\$129,163
Population geographic coverage	787
Users supported by the solution	431
Home users taking up the solution	770
Business users taking up the solution	1
Service provider users taking up the solution	2.0
Predicted Users of Public Access Facilities	0
Proportion of total potential private users supported	54.76%
Adoption level (% of possible subscribers)	95.02%
Average Revenue per Service Provider User	\$11.03
Average Revenue per Business User	\$0.00
Average Revenue per Individual User	\$2.81
Average Revenue per Household	\$10.99

🌟 **EBIT / EBITDA +**

55% of Users Supported

🌟🌟 **95% Adoption**

🌟 **\$2.91 Monthly ARPU**

Demand & Community Benefit Analysis

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Average Revenue per Individual User	\$2.81
Average Revenue per Household	\$10.99

Demand and CBA Assessment, Year 3 (2024 Dollars)

Segment	Number of decision makers	Number of users	GB per month demand (100% takeup)	Monthly capex economic cost (including power and after subsidy) per decision maker	Monthly Opex economic cost (after subsidy) per decision maker	Other monthly spend per decision maker (after subsidy)	Total system economic cost per month per decision maker (after subsidy)	Penetration rate	Number of actual users	GB per month demand (actual)	Annual user payments to network provider	Consumer Surplus ratio	Consumer Surplus	Social to Private Benefit ratio	Total Annual Communi Benefit
Service providers	1.00	2.00	39.06	0.51	21.55	2.22	24.28	1.00	2.00	39.06	264.71	3.60	1,049.38	2.00	3,1
Corporate/business	0.00	1.09	21.35	0.38	16.16	0.00	16.54	0.95	1.04	20.28	0.00	2.40	0.00	2.00	
Households (above median income)	103.64	405.25	7,914.95	0.26	10.72	2.25	13.24	0.95	384.98	7,519.21	12,979.75	2.40	31,231.56	1.00	62,4
Households (below median income)	103.64	405.25	7,914.95	0.26	10.72	3.15	14.13	0.95	384.98	7,519.21	12,979.75	1.12	14,633.83	1.00	29,2
Sub total	208.29	813.58	15,890.32	0.26	2.51	2.60	5.37	0.95	773.00	15,099.61	26,224.21	9.53	46,914.78		94,8
Public access facilities				0.00	0.00	-0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.50	
Overall	208.29	813.58		0.26	10.77				773.00	15,099.61	26,224.21	1.74	46,914.78		94,8

Profit and Loss Statement (US \$m)

Line Item	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
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Profit and Loss Statement

Community Network Builder x +

locnet.io

Work

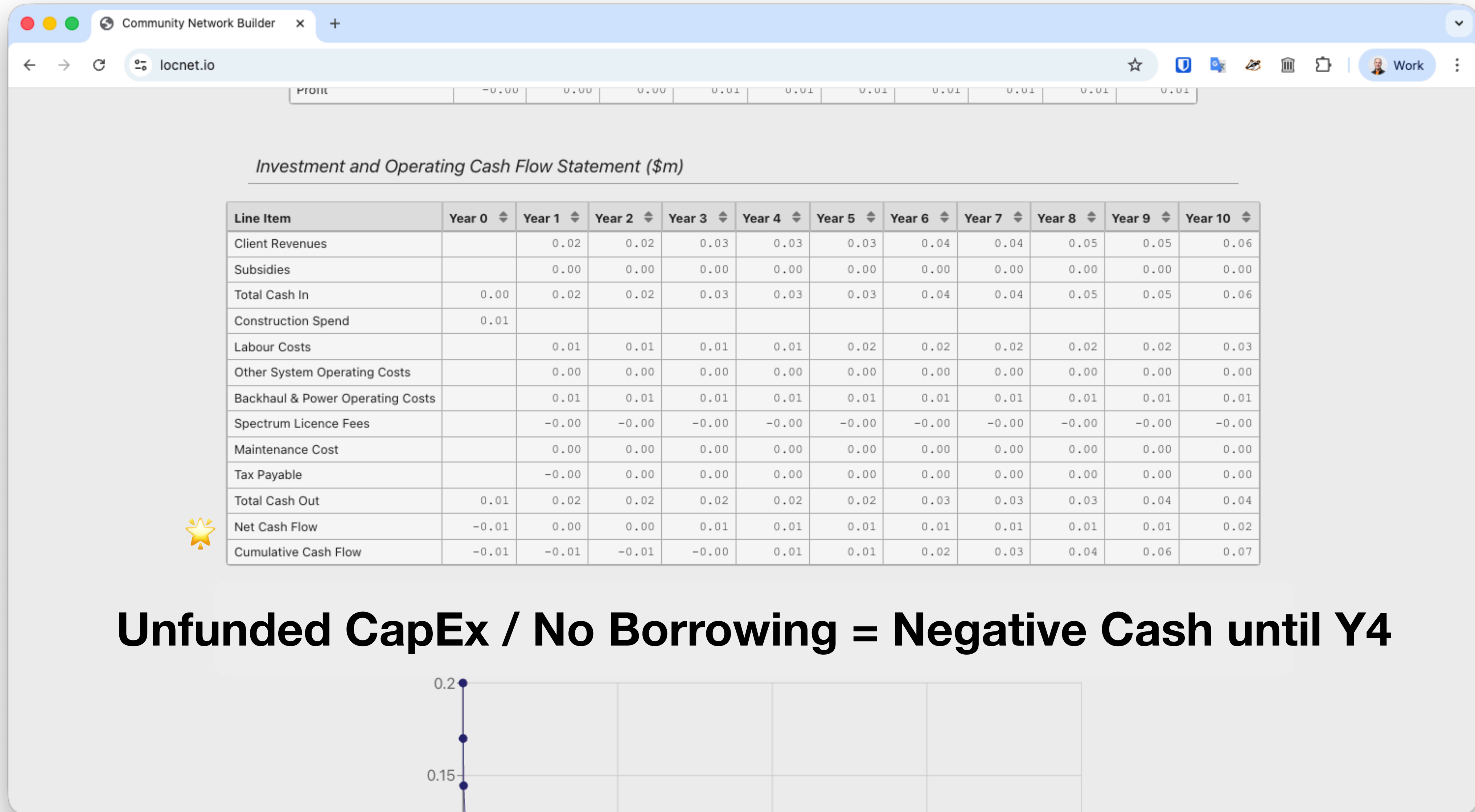
Profit and Loss Statement (US \$m)

Line Item	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Client Revenues	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.06
Subsidies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Revenues	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.06
Labour Costs	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03
Other System OpEx	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Backhaul & Power OpEx	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Spectrum Fees	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Maintenance Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Operating Costs	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04
Operating Profit	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
Depreciation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EBIT	-0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Interest Payments	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Earnings Before Tax (EBT)	-0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Tax	-0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Profit	-0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Investment and Operating Cash Flow Statement (\$m)

Line Item	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Client Revenues		0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.06
Subsidies		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cash In	0.00	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.06

Investment and Cashflow Statement



Network Elements

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locnet.io

Work

Network Elements

	Location	Network Type	Contention Ratio	Users supported	Cost per Passing
▶	Location 1	ISM Wi-Fi 2.4 GHz 4x4 MIMO	ISM Wi-Fi 2.4 GHz 4x4 MIMO	237.00	5.00
▶	Location 1	ISM Wi-Fi 5.8 GHz 4x4 MIMO	ISM Wi-Fi 5.8 GHz 4x4 MIMO	12.00	99.00
▼	Location 1	4G Handset 3500 MHz 2x2 MIMO	4G Handset 3500 MHz 2x2 MIMO	182.00	30.00

Location Name	Location 1
Network Type	4G Handset 3500 MHz 2x2 MIMO
Sectors	1
Vegetation Loss	1.9905
Terrain Reduction	0.7
Spectrum Mhz	20
Ue Per Sector	128
Users Per Ue	1
Cell Radius	4.17
Coverage Area	1
Population Density	783
Population Covered	787
Efficiency Bits Hz	3
Downlink Mbps	60
User Mir	6.6
User Cir	0.33
User Contention	20
User Final Year Peak Mbps	0.33

Coverage, Capacity, CIR, MIR: per site/tech

Primary Levers

What Influences the Model Most?

- Household Income
- Appropriate technology selection and configuration
- Traffic consumption & growth
- Cost of backhaul
- Cost of electricity
- CapEx subsidy or Cost of Borrowing

Planned App Enhancements

- Authentication & login
- Saving & loading projects
- Charts for financial outcomes, cashflows, network users
- Granular control over equipment cost & performance
- Map selector to pre-populate terrain, vegetation, and population data
- Location-specific radio coverage models
- Additional user interface languages

Application Links and Credits

- Working Model Current Version: <https://locnet.io/>
- Testing Model: <https://test.locnet.io/>
- Quick Start Guide: <https://locnet.io/qsg>
- Full Model Documentation: <https://locnet.io/documentation>
- APC: <https://apc.org/>
- SKC: <https://skc.net.au/>
- Telco2: <https://telco2.co.nz/>

Appendix: Code Repository

The screenshot shows a Bitbucket repository page for 'telco2/locnet'. The left sidebar contains navigation options like 'For you', 'Recent', 'Pull requests', 'Repositories', and 'Commits'. The main content area displays a commit history table with columns for Author, Commit ID, Message, and Date. A commit graph is visible on the left side of the table. The table lists 15 commits, with the most recent one from 5 days ago.

Author	Commit	Message	Date
Matthew Holloway	898c946	MERGED Merged in fix-pdf (pull request #44) fix: pdf generation	5 days ago
Matthew Holloway	3aa3663	fix: pdf generation	5 days ago
Matthew Holloway	3cb2971	MERGED Merged in fix-not-focusable (pull request #43) fix: not focus	6 days ago
Matthew Holloway	039357b	fix: not focusable	6 days ago
Jonathan Brewer	ee8b523	MERGED Merged in spajb (pull request #42) Switched the default	6 days ago
kiwibrew	fc6147b	Switched the default application route to /spa	6 days ago
Jonathan Brewer	76dfc2a	MERGED Merged in spajb (pull request #41) Back-end work: MIR/	6 days ago
kiwibrew	a11eac9	Full integration of power system choice on a per-location basis, v	6 days ago
Jonathan Brewer	598c8a3	MERGED Merged locdev into spajb	6 days ago
kiwibrew	375be89	Change calculations for Peak and Maximal Information Rates (M)	6 days ago
Matthew Holloway	b05daf8	MERGED Merged in confirm-values-and-fix-api-characteristics-c	7 days ago
Matthew Holloway	4390b5c	fix: default values confirmation. api char data change reset	7 days ago
Matthew Holloway	0887706	MERGED Merged in public-access-facilities-reorder (pull request	2026-03-09
Matthew Holloway	ecb5c28	chore: public access facilities reorder	2026-03-09
Matthew Holloway	cf76939	MERGED Merged in confirm-defaults (pull request #38) fix: confir	2026-03-09
Matthew Holloway	0a99bae	fix: confirm defaults	2026-03-09
Matthew Holloway	354d0c5	MERGED Merged in network-type-unit (pull request #37) fix: netw	2026-03-09