



Community Networks & Community Infrastructures

ISOC Q&A 02

Special Interest Group (SIG)
Internet Society

Community Networks and Community Infrastructures

A versatile and sustainable way to bridge the digital divide and create affordable connectivity and quality Internet participation for underconnected communities.





❖ Community Networks & Community Infrastructures (CNCI)

WHO WE ARE

Leadership team

❖ _____

Lead Facilitator Adam Burns United Kingdom Dyne.org Foundation



Advocate for Open Source software
Maintains Raspberry Pi images for the Devuan Linux distribution
Technical manager for Australia's first national ISP,
co-founder of the Australian chapter of the Internet Society &
founder of Europe's first open community wireless network.

Member of Förderverein Freie Netzwerk e.V., the non-profit
umbrella group supporting Freifunk, the German decentralised
community network initiative.

VICE Facilitator Mathew Lubari South Sudan

Director of Community Creativity for Development (CC4D) Ugandan and South Sudanese #ASKnet hub.

ICT and repair by training refugee youth women, and girls in Rhino Camp (Uganda) and Yei (South Sudan) on digital skills, electronics repair, and cybersecurity, strengthening resilience and promoting safe technology use.

Mathew serves on the steering committees of *The Maintainers* and #ASKnet network Part of the Restarters community, a global group advancing repair and maintenance practices.



Secretary

Dr Nancy Mauro-Flude
Lutruwita/Tasmania Australia

Amateur System Administrator
Likes dealing with computers the hard way



Inaugural ISOC Community Networks Fellow 2025:
advocating for Valuing the Handcrafted Web, text-based computing, low-fidelity infrastructural interactions.

Founder of ESPx (Ecofeminist School Permacomputing) ecofeminisms.net
cooperative-artist-held-ordonnances, holistic computing art,.

Assistant Professor (Industrial Design) RMIT University
College of Design and Social Context, coordinates Higher Degree
Supervision,
Develops and delivers transdisciplinary courseware to learners in cross-sector contexts.
Regenerative Futures Institute Fellow

PROPOSED ISOC SIG

❖ Community Networks & Community Infrastructures (CNCI)

Board Members

Mathias Judd ISOC Switzerland

Dr Jan Hendrik Brueggemeier Australia

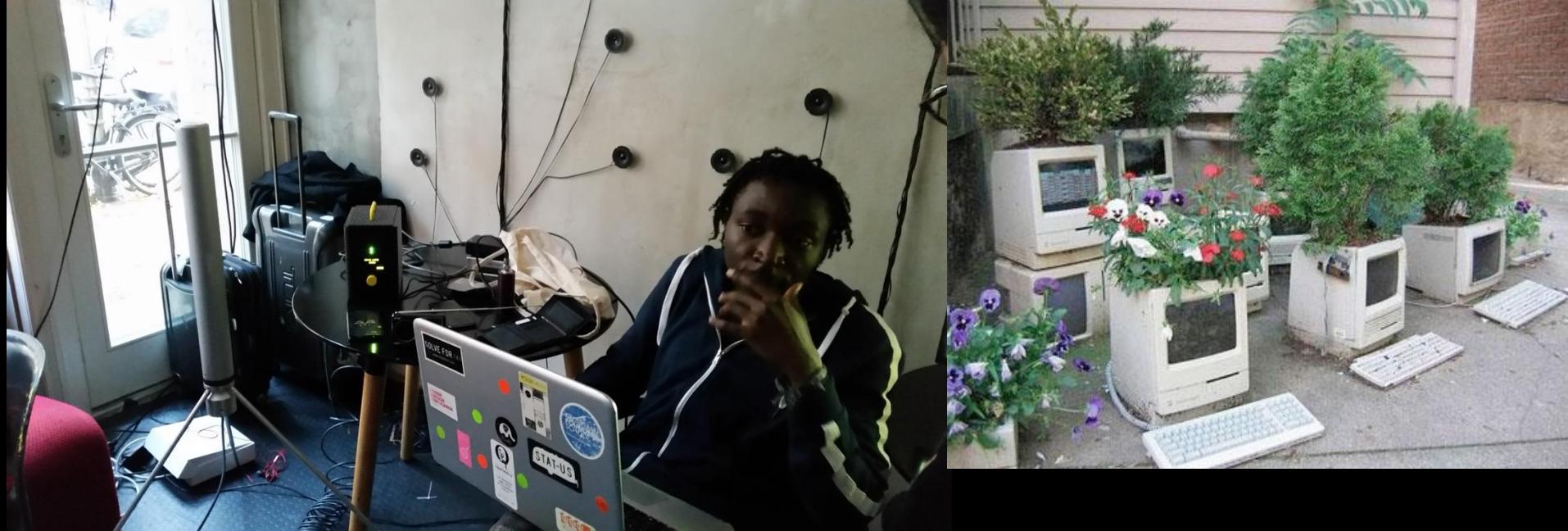
Nils Brock Germany



PROPOSED ISOC SIG
Community Networks & Community Infrastructures (CNCI)

Call to Action

Let's make locally owned and operated infrastructure a global priority!



❖ Community Networks & Community Infrastructures (CNCI)

We aim to lower the bar for the creation and implementation of community networks & community infrastructure through:

- +codesign flexible frameworks meaningful community-centre infrastructures
- +digital inclusion and longitudinal sustainability
- +work alongside local communities and regional stakeholders
- +empower local leadership, focus on methods of dealing with local authorities for CN-friendly policies



implementation of CNCI through:

- + mutual aid networks *movement building and technical domain experts*
- + interconnection with frontiers *key up to date external knowledge sources*
- + iterative documentation experiences *development of living and shared*
- + codesign *network specific situation awareness*
- + translation local infrastructure protocols *methods for CN-friendly policies*
- + fostering development & maintenance *CNCI ready software*



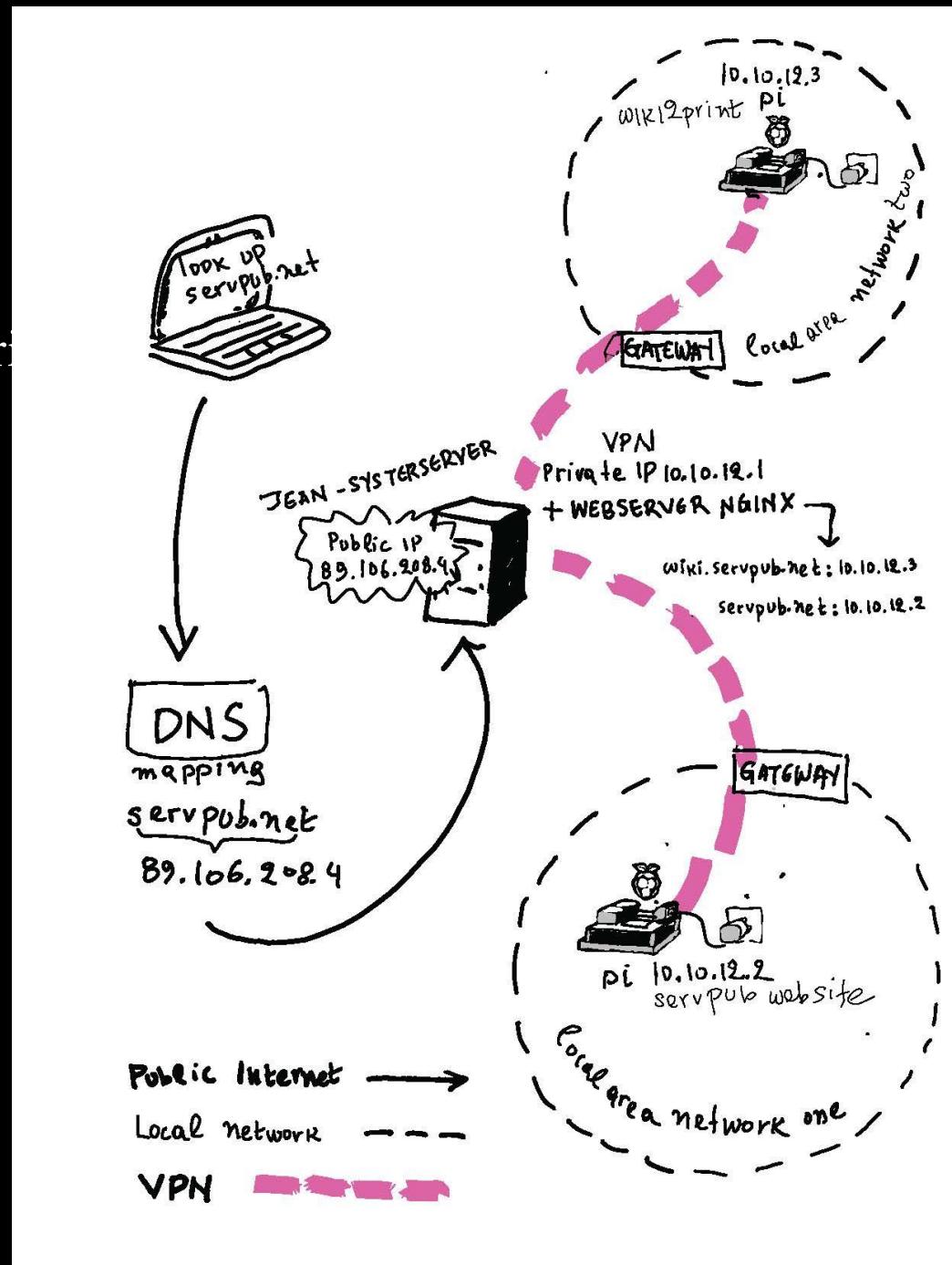
Continued support, R&D
implementation and maintenance
best practises of
self-hosted Community Networks

Tackling the digital divide
Building capacity in marginal and
underserved remote regions =



stewardship of CNCI SIG
leadership group
decentralised engagement approaches
participatory codesign
inclusive to a wide range of contributors

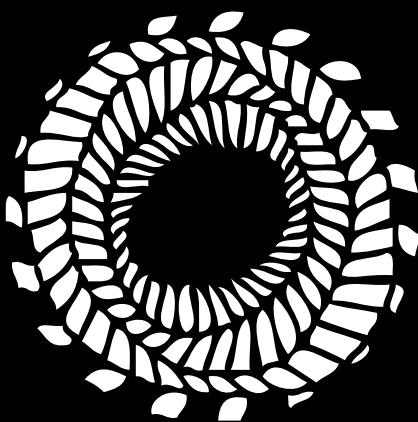
R&D
capacity building
cross network knowledge sharing
comprehensive support
generating dynamic opportunities
multilateral collaboration
infrastructural resource and service provisioning



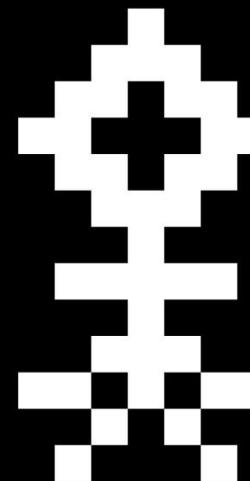
Community Networks and Community Infrastructures



The Local Currency Network



APC
ASSOCIATION FOR
PROGRESSIVE
COMMUNICATIONS





ISOC 2026–2030 Mission
amplifies priorities

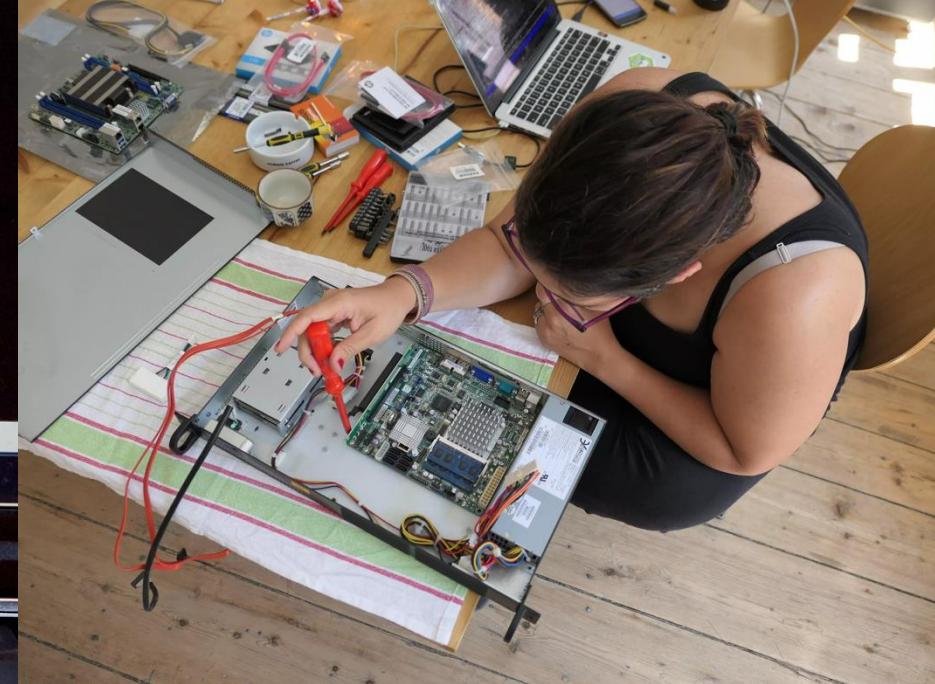
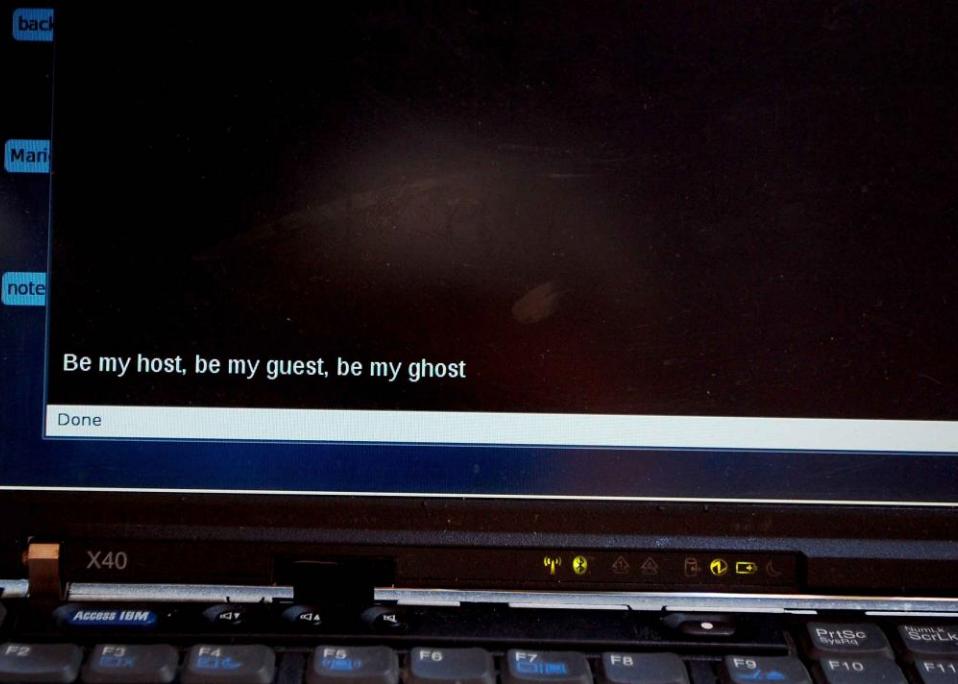
Connecting the Unconnected

Connectivity to vulnerable populations
Indigenous communities,
remote disadvantaged regions,
women-led enterprises, displaced
constituents

Advocate for policies and
regulations that enable
community-based connectivity

Meaningful Internet participation
local Internet governance structures





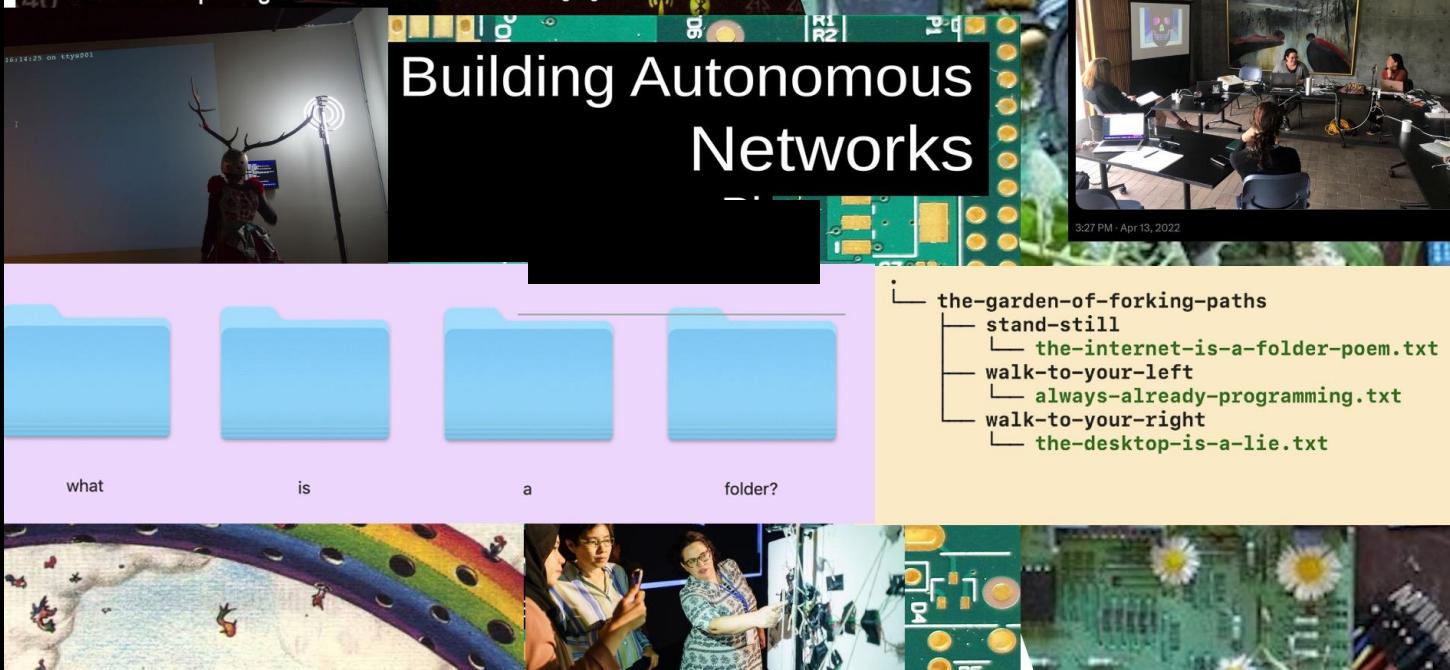
⊕ CN CI ACTIVITIES

Supportive legal and policy environments

Multi-stakeholder bottom-up Internet governance processes

Governance models that reflect shared values

Engagement with regional technical enablers
(community IXPs, local interconnection points, local open source
based service and resource providers)



⊕ CN CI Types of Activities

Research, collate & update best practices

Partner with locally anchored regional IXPs

Internet presence to be consistent with local protocols

Workshops/Webinars

Capacity Roadmap Empower Local Leadership

Co-Design Cost Effective Solutions

Questions? ♀

Thank you ♡



A feminist server stack: co-designing feminist web servers to reimagine Internet futures

Nancy Mauro-Flude  and Yoko Akama 

School of Design, Rmit University, Melbourne, Australia

ABSTRACT

In this article, we reimagine the Internet as a feminist cosmos called a Feminist Server Stack. By scrutinising how webserver infrastructure is normalised based on imperial conventions and distorted knowledge systems, we suggest alternatives. This embrace of 'post-patriarchal futures' (Bardzel 2019, 20) offers counter perspectives on how we may holistically embody the Internet as a situated ecology. When experiencing the Internet materiality, it leads us to imagine beyond the known and possible. We focus on enchanting affirmations and tacit hands-on computational methods from the frontiers of feminist digital literacy and server communities. These acts make visible the seams and fissures of concealed undercurrents and schemata of infrastructures. The findings reveal utterly different relationships between webserver providers and clients. Drawing from extensive fieldwork and observational analysis, we show how the choreography of happenings is seeding the ground for participatively co-designing the transfiguration of planetary computing into one that is scalable, visceral, and restorative. We welcome these nascent pathways to guide us to an enigmatic realm upon which theories of co-design could dance in communion with a realm that is *to-come*.

ARTICLE HISTORY

Received 26 February 2021
Accepted 16 December 2021

KEYWORDS

Agonism; corporeality; feminist codesign; holistic computing; infrastructuring; materialist informatics

1. Internet infrastructure co-designed as a feminist cosmos

The proliferation of Internet engagement whilst living with COVID has brought to the fore an over-reliance on a variety of techno-cultural imbroglios that compels many of us to renew questions of how pervasive infrastructures can be reimagined. Even the readers of

systerserver

Syster Server offers services to feminist, queer and antipatriarchal groups and collectives. The syster server is run by feminists, using free software only. It acts as a place to learn system administration skills, host services and inspire others to do the same.

We try to meet once a week. At the moment we are using a Talk installation on our nextcloud instance: <https://cloud.systerserver.net/>

Other services we host in our servers:

Gitlab

Mastodon

Mailing lists

Technical docs

VPN zines

/etc --- eclectic tech carnival

A peertube instance --- coming soon

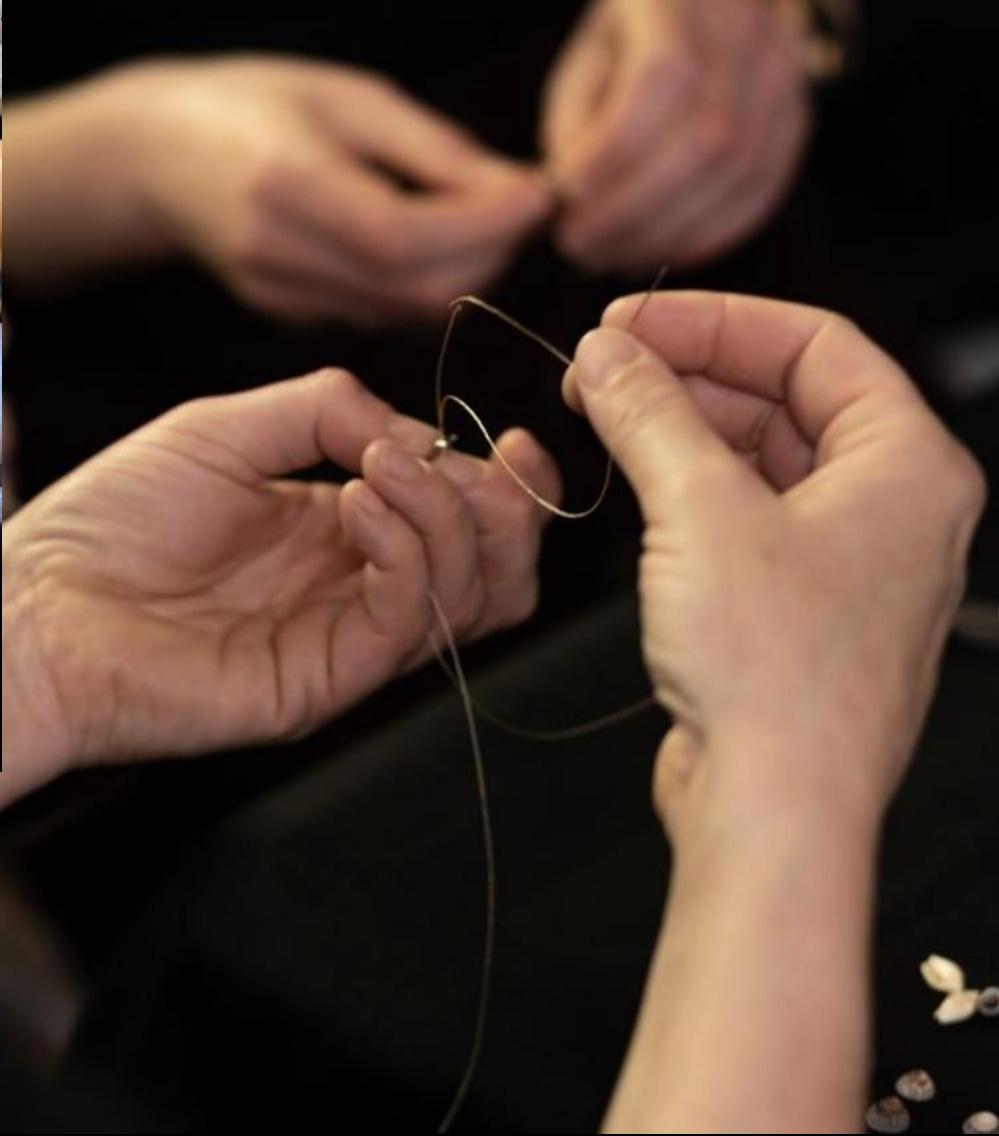
Contact us at: contact@systerserver.net



Assembling the inner parts of server 'Adelle', the feminist webserver hardware that rests in a stack rack in the home of one of the SysterServer.net founders. Image: NM-F



Female Gender Changer (two sides with pin holes -female) talisman gifted to the graduate of the GCA. This socket typically connects to a Male Gender Changer (two sides with pins -male). Image: NM-F



Interventions into Infrastructure through feminist codesign for digital connectivity conservation