2024 Research - Research Program	**ID:** R-202405-17040
Project Title: Focus on Climate Justice & Diversity in Technical Internet Governance	$84,000
	Maiko Nakagaki
	Upasana Hembram

Draft	Submitted	Action Needed	Grant Agreement	Active Grant

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Are you applying as an independent applicant or on behalf of an organization? *

Independent Applicant

▼ Applicant Information

Applicant Name	Vesna Manojlovic
Applicant Country:	Netherlands
Applicant Region:	Europe

▼ Application Details

Project Title*	Focus on Climate Justice & Diversity in Technical Internet Governance
Project Budget in USD*	$84,000.00
Project Start Date*	12/22/2024
Project End Date*	12/31/2025
What is the geographical reach of your project?*	Global

Which theme does your application fall   Greening the Internet
under?*

Project Summary:*

Technical Internet Governance (IG) organisations are lagging behind the global efforts, stipulated by UN's SDGs, towards 2030 goals [1].

Goal of my research is: Empowering Intersectional Greening of Internet Infrastructure Standards, Towards Climate Justice.

My approach is to cross-connect technical governance communities (mainly IETF) with the adjacent movements: Climate Justice & Digital Rights activists, students, DeGrowth community (practitioners, researchers, academics), artists, hackers, STS academics, Free/Libre Open Source Software (FLOSS) practitioners, national & regional Network Operators Groups (NOGs), South-Eastern Europe diaspora, and youth movements.

As "cross-connecting", this is what I do:

- share knowledge within adjacent communities about how technical IG functions
- invite & empower these groups to take part in IG, towards reducing environmental impact
- share knowledge within IG communities about possibilities for shared work with adjacent communities
- make the IG documents more accessible, by co-creating alternative ways of presenting Open Standards [2]

References:

[1]: https://sdgs.un.org/2030agenda

[2] https://wiki.techinc.nl/Sustainability

Notice: as an employee by RIPE NCC, I might have a conflict of interest while receiving funding from ISOC Foundation.

My plan is to take one year sabbatical (unpaid) leave, in order to focus on this project, if I get the funding.

What is the main research question you hope to test in this project?*

My research question is:

"How can we Decrease Detrimental Environmental Impact of Internet Infrastructure, by Integrating Adjacent Movements with Internet Governance"   .

My contributions to the field of internet studies, after the completed project, are:

- * Increased DEI in technical communities
- * Enhanced documentation (IETF drafts & RFCs; curating the collection of material; production of other learning materials) [2][3]
- * Alternative publishing: wikis, zines, stickers, workshops, art…
- * Direct "Community Building" via, for example, UnCiv community [4]

References:

[3] https://conf.researchr.org/track/ict4s-2024/ict4s-2024-ict4s-24-zine

[4] UnCiv.NL & *https://wiki.unciv.nl/index.php?title=Speaker_For_Squirrels*

What is your research project's methodology?*

My methodologies are:

- "desk research" : I study academic publications, conferences talks, articles, books, mailing-list posts…
- "conversations" : I attend many events, where I create connections with & between practitioners of various disciplines, which I then cross-connect among adjacent communities.
- "organising events": hackathon, local hubs, workshops, meet-ups.

Examples of my previous work:

- Organised events: hackathon, local hubs, workshops, meet-ups.

(These are all low-cost, low-environmental-impact, high-diversity events)

* 2023: https://wiki.techinc.nl/Queering_Wikipedia_17_May_2023_17PM_CEST

* 2022: https://wiki.techinc.nl/Internet_Footprint_Dilemmas

* 2022: https://wiki.techinc.nl/Rhizomatica_Community_Telecommunications_Infrastructure

* 2016: https://wiki.techinc.nl/LikaCamp2016

* https://wiki.techinc.nl/File:How_to_organise_a_hackathon-January2018.pdf

I perform **analysis** in a descriptive & casual ways.

I share my results by writing up conclusions in RIPE Labs articles, mailing lists posts, by giving presentations & workshops at adjacent community events; by publishing conference reports, keeping collections of links [2] & sharing them with my communities, and introducing people to one-another.

Examples of my previous work:
"research findings disseminated" (Videos)

- talk to bring IG to DR&CJ academics : Bits und Bäume: Greening RIPE Through Activism & Empathy https://media.ccc.de/v/bitsundbaeume-19907-greening-ripe-though-activism-and-empathy-en-
- Degrowth -> talk to RIPE about DeGrowth; attending DeGrowth conference to learn more about it & to contribute from IETF/hackers perspective https://ripe86.ripe.net/archives/video/1001/
- Computing Within Limits -> organise Local Hub ; report back to hackers community & to RIPE https://media.ccc.de/v/mch2022-442-computing-within-limits

"research products" : papers, talks, conferences, workshops

- Lectures to students on the subjects of Internet Governance & Environmental Sustainability:

• 2024: https://wiki.techinc.nl/File:Xs-all-vesna-IG-traces-of-power.pdf

• 2023: https://wiki.techinc.nl/File:Smaller-LOCOS-seminar-march-2023-vesna.pdf

• 2022: https://wiki.techinc.nl/images/c/cf/Vesna-green-internet-ripe_ncc-SIGCAS-compressed.pdf

"collaborations/ co-creation" :

 contributing to IAB workshop on e-impact & contributing to RFCs

- RFC9547: (2022-2024) https://www.rfc-editor.org/rfc/rfc9547

& Manojlovic, V., "Internet Infrastructure and Climate Justice", Position paper in the IAB Workshop on Environmental Impacts of Internet Applications and Systems, October 2022." https://github.com/intarchboard/e-impact-workshop-public/blob/main/papers/Manojlovic_Internet-Infrastrucutre-and-Climate-Justice-v2.pdf

- RFC7962 (2015-2016) https://datatracker.ietf.org/doc/html/rfc7962
- co-author of many RIPE Labs articles: https://labs.ripe.net/author/becha/#contributions

Publications / Labs Articles

* 2023: Urgency, DeGrowth, Rebellion https://labs.ripe.net/author/becha/environmental-impact-of-internet-urgency-de-growth-rebellion/

* 2022: "A Plea For Climate Justice" https://labs.ripe.net/author/becha/a-plea-for-climate-justice-report-from-the-iab-workshop-on-e-impact/

* 2021: https://labs.ripe.net/author/becha/the-internet-is-for-the-empowerment-of-end-users/

& more: https://labs.ripe.net/author/becha/#articles

mailing list posts :

e.g. [ripe-list] Internet: Rewilding vs Climate Change / Environmental Impact

& https://wiki.techinc.nl/Sustainability#Mailing_Lists

Presentations:

* [AMRO] 2024 https://art-meets.radical-openness.org/2024/program/internet-of-squirrels/

* [ETC] Berlin, June 2024 https://www.eclectictechcarnival.org

* February 2024: ICANN's Euralo panel: https://community.icann.org/pages/ viewpage.action?
pageId=303202361

& https://wiki.techinc.nl/File:Vesna-euralo-SDG-2024.pdf

Articles & Zines:

* 2023: AI is Ecocide https://www.project-syndicate.org/magazine/ai-climate-change-what-role-paris-targets-
2023-09

* 2021, NETNOD Blog: https://www.netnod.se/blog/technical-communities-resilience-during-covid-19-
pandemic

* [MTH] online, September 2024 https://morethanhumanfreedom.wordpress.com

Conference Reports :

* November 2023, IETF 118, Prague https://wiki.techinc.nl/File:Smaller_IETF_118,_Prague_2023_-
_Report_with_Pictures_.pdf

* August 2023:
https://wiki.techinc.nl/File:9th_DeGrowth_Conference_Zagreb_August_2023_February_2024.pdf

* June 2023, Computing Within Limits https://labs.ripe.net/author/becha/computing-within-limits-2023/

In addition to this, I will be following two training courses soon, where I will learn more about Climate Science
research methodologies &

- https://whatworksclimate.solutions/training/ (June 2024, Berlin)

- https://academy.ikem.de/ (IKEM Academy, July 2024, Berlin)

**How do you plan on making your intended research be applicable for decision-making either by
industry or government?***

My focus is on industry, academia & civil society, not governments.

I plan to continue my activities, as described above, as well as in the deliverables, indicators, and
"bibliography""

- giving presentations

- making publications

- collecting & sharing knowledge

(see Workplan)

Possible narrower research topics that I might focus on, depending on the progress of the research:

- Data Centers and Water Consumption

- Comparative Corporate Footprint of RIR Members

- Ratio of Network Infrastructure Emissions to the Whole ICT Emissions

Please describe the expected deliverables for this project.*

Deliverables:

* contributions to IETF drafts

* published papers at academic conferences

* talks & workshops given at conferences

* videos & slides of talks & workshops archived & available for sharing knowledge

* production of stickers, comics, stories, videos, zines

* published articles on blogging platforms

* additions to the wiki documentation [2]

* production of addition content on Community Platforms

If accepted, my project will start only in December 2024 - however, I have already planned several innovative activities:

* I am giving talks & workshops at [AMRO24] & [ETC]

* my zines were accepted for [ICT4S] & [MTH]

* I will be participating in IETF meetings online: IETF120 (Vancouver) & IETF121 (Dublin)

Whether or not I get this grant, I will continue working on all of those, and innovate further.

Indicators and Measurements Section

What specific indicators will you track and measure along the way?

Please select at least 1 indicator (maximum of 3) and provide your target number and data collection method for each.

Select Indicator 1:*	Number of research findings disseminated to academics, policymakers, technologists, or other stakeholders
Indicator 1 - Target:*	26

Indicator 1 - Data Collection Method:*

For "research findings dissemination" I am planning to make 6 larger publications (blog/lecture) & 20 smaller.

 * Publish 3 articles on various blog platforms (RIPE Labs, IETF blog, APNIC blog, CircleID…)

* Give 3 lectures to students (invited by universities)

* Post 20 posts to various mailing lists (e-impact, degrowth-world, permaculture, uncivilisation, ripe-list, nog lists,) and forums (OFFDEM, ActivityPub, RIPE)

Frequency:

* one larger publication every second month

* two smaller contributions each month

Measurements

- *Collect number of visitors to the blog web sites, monthly*
- *Count number of replies to the mailing list posts*
- *Collect lists of participants to the student lectures, and send a survey to collect feedback*

Select Indicator 2: (Optional)   Number of research products [papers, talks, conferences, workshops] developed in the duration of this grant

Indicator 2 - Target: 10

Indicator 2 - Data Collection Method:

For "research products" (papers, talks, conferences, workshops) : I am planning to do 12 presentation proposals & 6 paper proposals ; I expect to have 60% of talks accepted & 30% of papers.

Some of the places where I plan to propose talks / workshops to various conferences:

* CCC (Hamburg, December 2024)

* OFFDEM (Brussels, February 2025)

* 2D.H5 festival in Holland (February 2025)

* at two NOG event (e.g. NLNOG in April 2025, HRNOG October 2025)

* WirelessBattlemesh, June 2025

* IETF in Madrid, July 2025

* TBD, small hackers festival in Amsterdam, July 2025

* DeGrowth conference, Summer 2025

* CCC, December 2025

* (and 2 more, TBD)

Submitted papers/zines to academic conferences:

* submit paper for Computing Within Limits conference 2025

* submit paper for DeGrowth conference 2025

* submit zine for DIY methods Conference 2025

* 3 more papers : TBD

Measurements:

Count the numbers of:

- submitted talks / papers

 - accepted talks / papers

- participants per talk

- follow-up questions, invitations & connections after each talk / paper

- quotations of papers

Select Indicator 3: (Optional)

Number of collaborations with academics, industry partners and / or other researchers evidenced by co-creation, resource pooling, interdisciplinary approach

Indicator 3 - Target:

10

Indicator 3 - Data Collection Method:

For the "collaborations/ co-creation" I am planning to have 10 contributions:

- contribute to multiple IETF drafts, RFCs & hackathon projects
- have the videos published by the conferences organisers
- contribute to multiple wikis by various communities
- invite 10 guest authors, posters & speakers, from Adjacent Movements, into technical Internet Governance communities

 IETF drafts, RFCs & hackathon projects:

* https://datatracker.ietf.org/doc/draft-irtf-nmrg-green-ps/

* https://datatracker.ietf.org/doc/draft-almprs-sustainability-insights/

* https://github.com/mallory/draft-beyond-carbon

* contribution (online) to IETF hackathon (March 2025) & in person in Madrid (July 2025)

* videos & slides of talks & workshops archived on various platforms (YouTube, Vimeo, media.ccc.de, wiki.techinc.nl, wiki.unciv.nl, wiki.ietf.org …)

Measurements:

* count, monthly, number of co-created publications / content items

* count, monthly, invited guest authors

▼ Funding Information

Do you have other funds secured or requested for this project?*

No

Are you currently receiving or have you   No
in the past received any other funding
from the Internet Society or Internet
Society Foundation?*

▼ Documents

Documents required to upload to your Application:
- Please upload a full project budget and workplan; the required template is found here.

Please **do not** upload any banking information into Fluxx

Project Budget, Workplan, and Equipment Request

Please note that if the documents you are submitting are not in English, ISOC may use a third-party service to translate them. Accuracy cannot be guaranteed. By submitting this application, you are consenting to this practice.

APPLICATION DOCUMENTS

Need Help? email us: fluxx_help@isocfoundation.org