GÉANT Community Programme – Optimising Engagement

Dawn Ng

GÉANT Community Programme Manager

SIG-NOC meeting, CSC Helsinki
7 May 2024

Public

Agenda

- GÉANT Community Programme update
- SIG-NOC role
  - Innovation Programme
  - TNC 2024 Community Hub

GÉANT Community Programme

VISION: A connected, collaborative and harmonised research and education networking community.

MISSION: Provide optimal conditions for the R&E networking community to collaborate both face-to-face and virtually.

Current portfolio:

- Task Forces
- Special Interest Groups
- Workshops and Trainings
- Collaborative Projects
- Innovation Programme
- Community Award

GÉANT Community Programme Update

Strategy and GCC Terms of Reference

- Current strategy version from April 2020- to be reviewed every 4 yrs
- Current ToR from 2016!
- Participatory process for revision-input from GCC, SIG/TF Coordinators and SC representatives
- Launch of new versions by end 2024

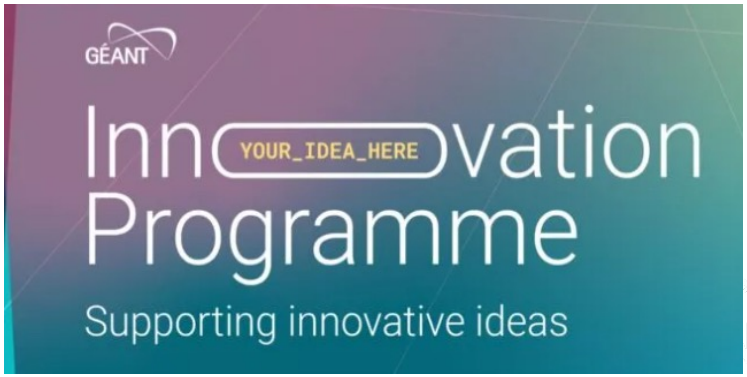
GCC

- Chair election at GA November meeting
- New members to be appointed post-election

Innovation Programme

The GÉANT Innovation Programme is a unique opportunity to enable initial development, establish a proof of concept or testing of new ideas, with lightweight administrative constraints.

- Launched in 2021, 36 projects awarded to date.
- Annual research project funding of 300K Eur, funded by GEANT members
- Thematic areas aligned with GEANT priorities: networking, cloud, security, trust & identity and education.
- Demonstrate significant scientific or societal and economic impact and create benefit for the GÉANT European Research and Education community. Examples of previous innovation developed within the GÉANT Community include widely adopted services, such as eduroam, eduVPN and eduMEET.
- Criteria: quality, innovation, potential impact and value for money.



Innovation Programme 2024

Innovation Programme 2024:

- 66 Submissions from 20 countries
- 20 focused on Network
- 2 out of 6 awards to Network-related projects

SIG-NOC:

- Are IP network projects relevant for your work?
- How to promote in your channels?
- What role can you take to better align?

Innovation Programme-Network Projects (past)

2022

Federated Learning-Driven Network and Service Management

Adrián Pekár (Budapest University of Technology and Economics)

TCPLS Low-Lat

Maxime Piraux (UCLouvain)

Research and Education Network as a Service for Developing Nations

Frank Slyne (Trinity College Dublin)

2023

Fair-RL-CC: Towards Fair Congestion Control with Reinforcement Learning

George Parisis (University of Sussex)

Innovation Programme-Network Projects 2024

Effective Multi-Laser-Beam Transmission for Satellite-Airborne Backhaul Networks

University of Bradford - UK

To satisfy the requirements of B5G/6G, achieving high-speed/long-distance wireless communications is crucial for efficiently transmitting extensive data traffic in satellite airborne backhaul links. However, current radio frequency and microwave backhaul links face challenges such as limited transmission range and interference with existing terrestrial services. Laser communications could provide a compelling alternative. Lasercom operates in the near infrared band enables Gbps data transmission over long distances. Lasercom also allows for the generation of pencil beams, effectively minimising interference, and crosstalk issues with terrestrial services. In this project, they will explore a novel satellite-airborne backhauling based on multiple laser beams to enhance the flexibility and capacity of future communication networks.

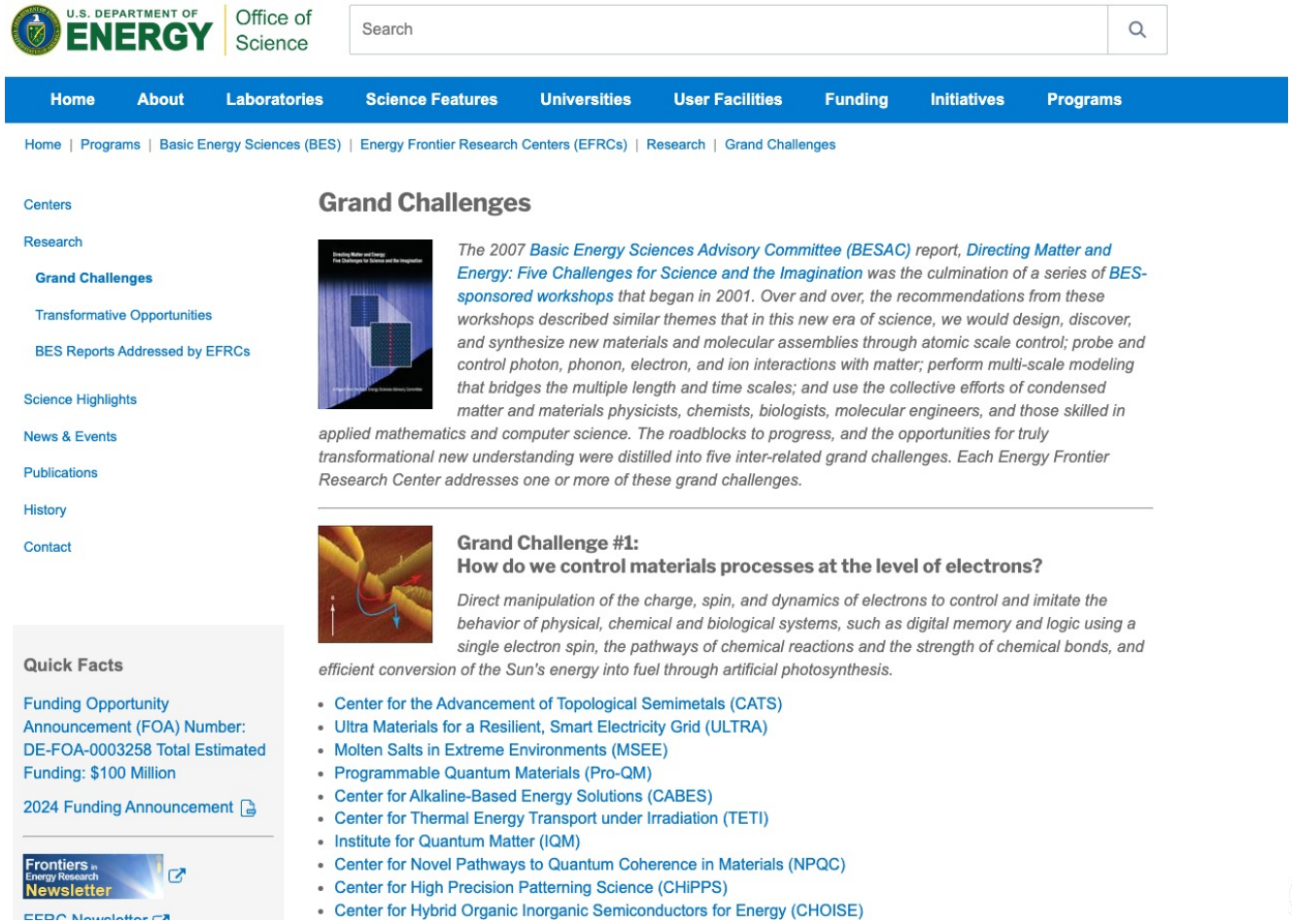
Mobile App Network trAffic Nutrition fActs (MANANA)

Università degli Studi di Napoli Federico II - Dipartimento di Ingegneria Elettrica e delle Tecnologie dell'Informazione - Italy

End-users of mobile applications hardly know which enterprises and countries are involved in their online activities, and the implied rights and risks. Researchers and regulators need actual usage data to verify data sovereignty compliance. MANANA aims at providing the former with understandable characterisations of infrastructure usage, and the latter with a monitoring system of actual mobile apps usage. The user will be enabled to choose among similar apps and report her data exposure (providing visibility to authorities). The app and the collection server will be released as open-source.

Innovation Programme-Future

Challenge concept - Your ideas!



https://science.osti.gov/bes/efrc/Research/Grand-Challenges

TNC 2024

Programme: https://tnc24.geant.org/programme/
Community Hub: https://tnc24.geant.org/communityhub/
Still space for spontaneous demo or session

SIG Marketplace: Tuesday, 11 June- **Volunteers needed!!!**

THE COMMUNITY HUB

SIG Marketplace (12:45 - 13:45)

Come find out how you can join the GÉANT Community and meet representatives from our Special Interest Groups: Network Operations Centres (NOC), Next Generation Networks (NGN), Cloud Interoperable Software Stacks (CISS), Time and Frequency Networks (TFN). The Network Performing Arts Production Workshop (NPAPW) will also be represented.

DEMONSTRATIONS

ROUND TABLES

OPPORTUNITY CORNER

Thank You

Any questions?

Dawn.ng@geant.org

www.geant.org

Co-funded by
the European Union