



NETDEV Incubator

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NETDEV GN5-1 Project WP (WP6)

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Public (PU)

Agenda

- Motivation
- The NETDEV Incubator Process
- Q&A

Motivation

Once upon a time in GÉANT...
...not that long ago...

- Little space for new work topics
 - Budget
 - People
 - Time
- New work proposed without a clear goal or community interest
- New work depended on project underspend
- Sometimes lack of transparency why some work is (not) accepted



Motivation

- Need a framework for new work
 - Community benefit...
 - ...and community interest
 - No more orphaned projects!

The Solution: **NETDEV Incubator**

- 6 months maximum
- Well-defined timelines & outputs
- Interest from several NRENs



Innovation environment

- We're not the only incubator!
 - Trust & Identity
 - Above the net
 - NETDEV
- Larger frameworks for innovation
 - GÉANT Innovation Programme
 - Deadline - 14th February 2024
 - Up to €50k for up to 6 months
 - NRENs *and connected Institutions*
 - GÉANT Development Fund

NETDEV Incubator

Why

A mechanism to include:

- New work during the project
- Topics emerging after the project preparation phase

How

- Unallocated budget set aside in WP6 T4
- By following predefined simple rules

What

- WP6 related topics on Network Development
- Projects whose results NRENs want to use

Network Development WP Scope and Objectives

Scope

Development of *network technologies and services* in single- and multi-domain NREN environments

Objectives

Evaluation, testing, prototyping, development and provisioning of technologies and services in:

- network infrastructure
- network services innovation
- network monitoring and management



NETDEV Incubator

Provides a mechanism to **include new areas of work throughout the project** duration in an **agile way**

- **Easy and transparent 3-step**
- Proposals can be sent at any time during the project
- Additional budget available
- Evidenced community **interest to use the results**
- Must be **in WP6 scope**



NETDEV Incubator Simple Rules

1. A proposal must be **relevant and well-defined**
Specific, **M**easurable, **A**chievable, **R**esource- and **T**ime-bound
2. A proposal must be **seen as useful by NRENs**
NRENs should express willingness to *use* the results
3. Description of work, time and budget must **align with WP6**

Network Development Topics

Task 1: Technologies

TL: Susanne Naegele-Jackson FAU/DFN

- Router for Academia, Research and Education (RARE)
- Quantum Technologies (QT)
- Optical Time and Frequency Networking (OTFN)

Task 2: Platform

TL: Roman Lapacz, PSNC

- Network Management as a Service (NMaaS)
- Service Provider Architecture Platform (SPA)
- GÉANT P4 Lab (GP4L)

Task 3: Monitoring

TL: Lætitia Antoine Delvaux, PSNC

- perfSONAR
- Performance Measurement Platform (PMP)
- WiFiMon
- TimeMap
- Argus

Task 4: Academy

TL: Maria Isabel Gandia Carriedo, CSUC/RedIRIS

- Network eAcademy
- NETDEV Incubator

What can be an Incubator Project?

A **specific** and **well-defined work** chunk
that can be **done**
in a **limited period** of time with **limited resources**

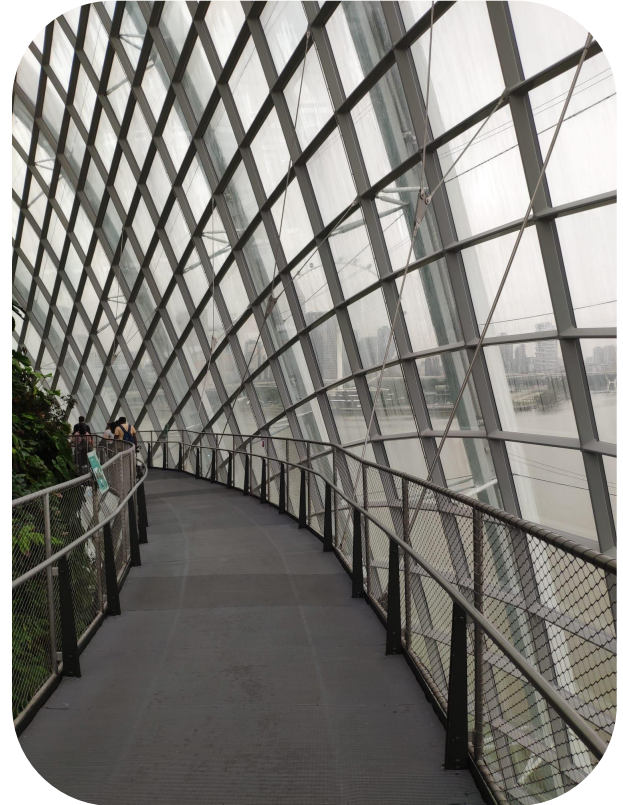
- Design of an improvement for an existing service or work topic
- Development of an improvement for an existing service or work topic
- A proof of concept
- A learning unit for the eAcademy
- A study
- A new design / development
- ...

NETDEV Incubator - 3-phased approach

Proposal Submissions

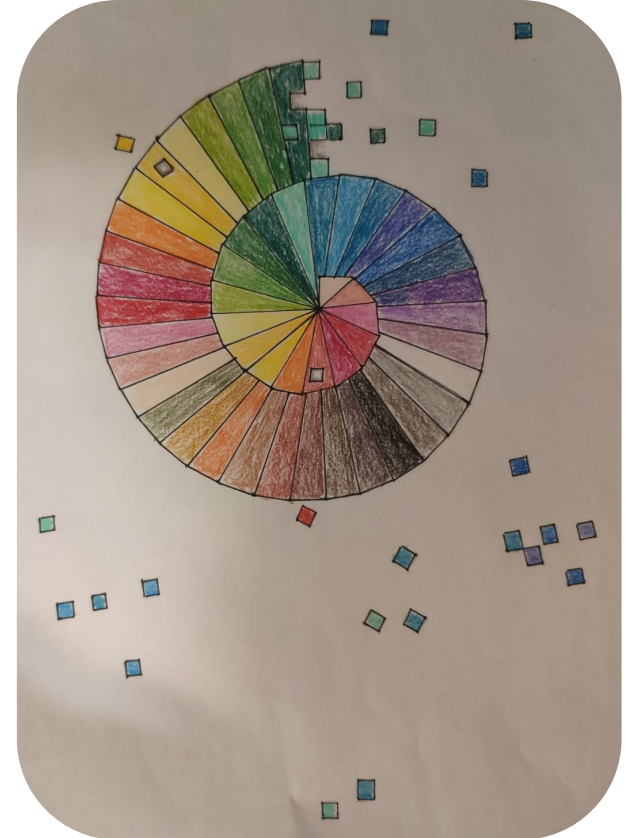
Focus Groups

Incubator Projects



Phase 1: Proposals Submission

- **Always open call for proposals**
Anyone can make a proposal any time
- Proposal submission using **predefined template**
- **Community support is a prerequisite!**
Support = willingness to use the Project results
Support from at least **3** project partner organisations is a **prerequisite** for a proposal to be considered for the next phase



Incubator Project Proposal Template

Template 1: NETDEV Incubator Project Proposal

1. **Name and Organisation** of the person that is submitting the proposal
2. **Title** - Name of the proposal that describes what is being proposed.
3. **Rationale** - Describe why this work is important, which problem it solves.
4. **Output** - Tangible and intangible outputs that will be produced as a result of this proposal. The output should be Specific, Measurable, Achievable, Resource- and Time-bound.
5. **Users** - Who are the users that would use the results of this work.
6. **Value** - Describe the value that the proposal will provide to the users.
7. **Team** - Organisations and names of people that will work on the proposal.
8. **Time** - Expected duration of this project.
9. **Resources** - Which resources and budget are needed for this project:
 - a. Manpower (per each individual that would participate in the team).
 - b. Equipment (needed/existing equipment, which equipment should be bought).
 - c. Travel budget.
 - d. Other (please specify).
10. **Intellectual Property Rights (IPR)** -
As a proposer I declare that my submission is not infringing any IP rights of others.
 - a. Does any code or previous work exist that is the subject of an existing IPR? Yes / No
10. **Information about gathering and processing any personal data**
 1. Will you be processing any personal data for this project? Yes / No
 2. If Yes:
 - i. Which data are you processing, how, and for what purposes?
 - ii. Do you have a privacy notice for it?
12. **Contribution to an existing GÉANT project service** -
Will it create or contribute to an existing GÉANT project service? If yes, please specify which one.
13. **Organisations supporting the proposal** - To be filled for each organisation:
 - a. Your Name:
 - b. Your Organisation:
 - c. Will you implement the work results in your own organisation? Yes/No
 - d. How much of an FTE will your organisation dedicate to work on this project?
 - e. Would you work on this proposal even if not being paid from the GNS-1 project? Yes/No



Incubator Project Proposal Template 1

General info

- 1. Name and Organisation** of the person that is submitting the proposal
- 2. Title** - Name of the proposal that describes what is being proposed

What

- 4. Output** - Tangible and intangible outputs that the proposal will produce
Should be Specific, Measurable, Achievable, Resource- and Time-bound.
- 5. Users** - Who are the users that would use the results of this work.
- 6. Value** - Describe the value that the proposal will provide to the users
- 12. Contribution to an existing GÉANT project service?**

Why

- 3. Rationale** - Describe why this work is important, which problem it solves
- 13. Organisations supporting the proposal**

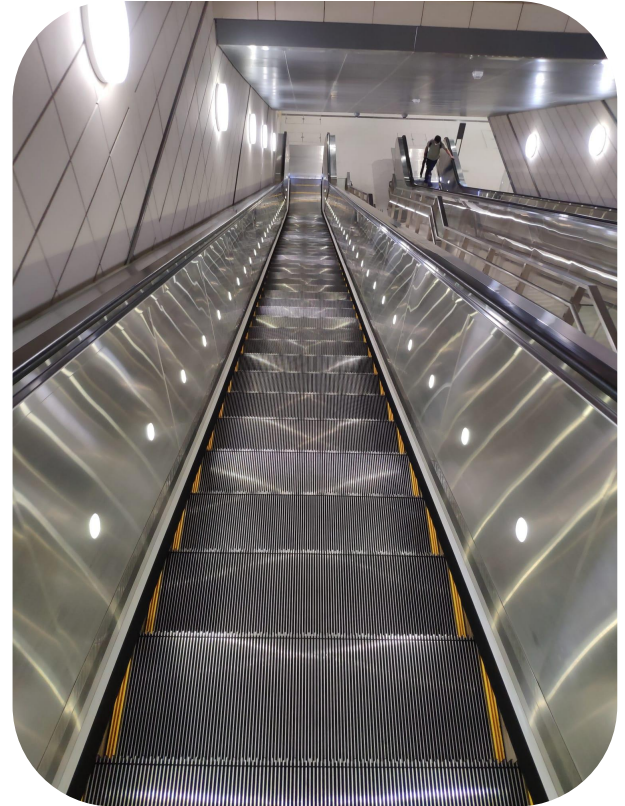
How

- 7. Team** - Organisations and names of people that will work on the proposal.
- 8. Time** - Expected duration of this project.
- 9. Resources**
 - People (per each individual that would participate in the team).
 - Equipment (needed/existing equipment, which equipment should be bought).
 - Travel budget / Other (please specify).
- 10. IPR** - Declaration that the proposal is not infringing any IP rights of others.
- 11. GDPR** - Information about gathering and processing any personal data

Incubator Project Proposal Template

Template 1: NETDEV Incubator Project Proposal

General info	<ol style="list-style-type: none"> Name and Organisation of the person that is submitting the proposal Title - Name of the proposal that describes what is being proposed.
Why	<ol style="list-style-type: none"> Rationale - Describe why this work is important, which problem it solves. Output - Tangible and intangible outputs that will be produced as a result of this proposal. The output should be Specific, Measurable, Achievable, Resource- and Time-bound.
What	<ol style="list-style-type: none"> Users - Who are the users that would use the results of this work. Value - Describe the value that the proposal will provide to the users. Team - Organisations and names of people that will work on the proposal.
How	<ol style="list-style-type: none"> Time - Expected duration of this project. Resources - Which resources and budget are needed for this project: <ol style="list-style-type: none"> Manpower (per each individual that would participate in the team). Equipment (needed/existing equipment, which equipment should be bought). Travel budget. Other (please specify). Intellectual Property Rights (IPR) - As a proposer I declare that my submission is not infringing any IP rights of others. <ol style="list-style-type: none"> Does any code or previous work exist that is the subject of an existing IPR? Yes / No Information about gathering and processing any personal data <ol style="list-style-type: none"> Will you be processing any personal data for this project? Yes / No If Yes: <ol style="list-style-type: none"> Which data are you processing, how, and for what purposes? Do you have a privacy notice for it? Contribution to an existing GÉANT project service - Will it create or contribute to an existing GÉANT project service? If yes, please specify which one.
What	<ol style="list-style-type: none"> Organisations supporting the proposal - To be filled for each organisation: <ol style="list-style-type: none"> Your Name: Your Organisation: Will you implement the work results in your own organisation? Yes/No How much of an FTE will your organisation dedicate to work on this project? Would you work on this proposal even if not being paid from the GNS-1 project? Yes/No
Why	



Template 1 - Even more reasons Why

Why

The WHYs:

3. Rationale: Describe why this work is important, which problem it solves

- Clear goal and objectives needed for successful project execution within the given time period and within the given budget

13. Organisations supporting the proposal - To be filled in for each Organisation:

- Name (*Personal information provided will be used for proposal processing*)
- Organisation
- Will you **implement the work results** in your own Organisation? **Yes/No**
- How much of an FTE will you dedicate to work on this project?
- Would you work on this proposal even if **not** being paid by GN5-1? **Yes/No**

This helps to prevent “pet” & orphaned projects

Template 1 - Even more reasons for the HOWs

How

7. Team - Organisations and names of people that will work on the proposal.

- Needed to allocate the budget (for the project Change request process)

8. Time - Expected duration of this project

- Must be completed and information about the results disseminated **before** the end of the current project.

9. Resources - Which resources and budget are needed for this project:

- a. People (per each individual that would participate in the team).
- b. Equipment (needed/existing equipment, which equipment should be bought).
- c. Travel budget.
- d. Other (please specify).

10. Intellectual Property Rights (IPR)

As a proposer I declare that my submission is not infringing any IP rights of others.

- e. Does any code or previous work exist that is the subject of an existing IPR? Yes / No

11. Information about gathering and processing any personal data

1. Will you be processing any personal data for this project? Yes / No
2. If Yes:
 - i. Which data are you processing, how, and for what purposes?
 - ii. Do you have a privacy notice for it?

Template 1 - The “Whats”

What

4. Output - Tangible and intangible outputs to be produced via this proposal

- The output should be Specific, Measurable, Achievable, Resource- and Time-bound.

5. Users - Who will use the results of this work?

- End users? Universities? NRENs? Professors? Students? Researchers? NOC engineers/managers???

6. Value - Describe the value that the proposal will provide to the users

- Why would the user use the results?
- Which problem does it solve for them?
- How does it differ from other solutions?

12. Contribution to an existing GÉANT project/service?

- If Yes - please specify.

After submitting a proposal

The proposal is evaluated by the WP6 NETDEV Incubator team:

- ✓ Alignment with the WP6 objectives
- ✓ SMART Objectives = executable project
- ✓ Existing intent from the community to use the project results

- ✓ Existing budget
 - (If not - the project still might be able to continue with WP6 support although without additional funds)



Successful projects progress to the next phase: **Focus Groups**

Phase 2: Focus Groups

Purpose

Align views of the project proposer and supporting organisations

Perform market analysis (If not done already)

Agree on the exact work that will be in scope of an incubator project

Output

(SMART) Incubator project proposal **OR**

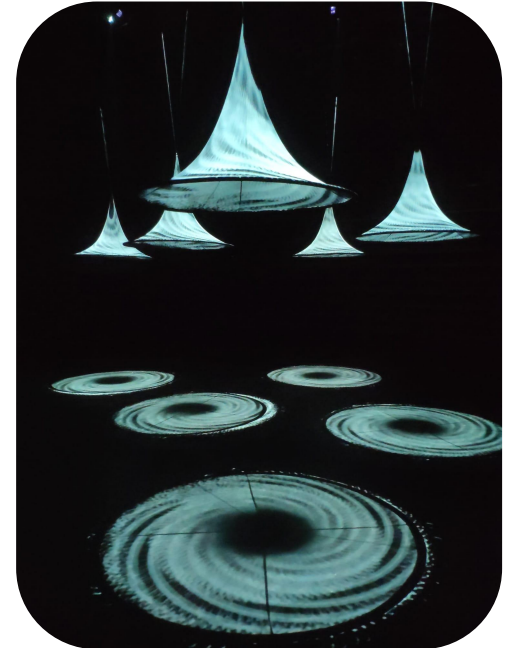
Closure report without a proposal

Simple rules

Limited duration - **maximum of 3 months** for the FG

Limited budget - up to 0.5 FTE per FG

Focus group participation is funded by WP6

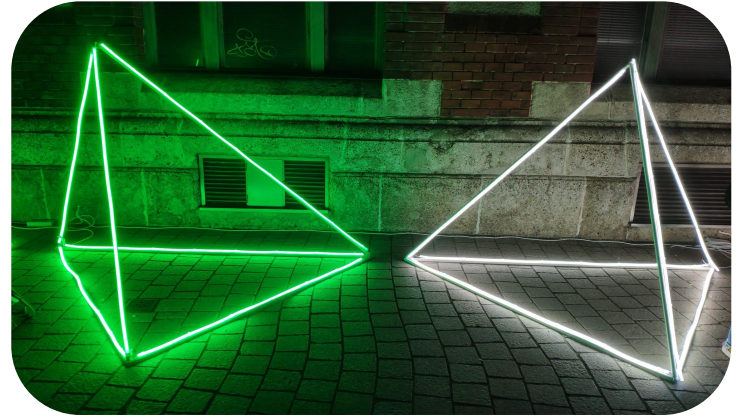


Focus Groups Output - Closure Report

In case no proposal will be submitted to continue as an Incubator project

This might happen for various reasons, e.g.:

- No consensus about the work
- **SMART** outcomes cannot be defined
- Insufficient interest to proceed
- A project team cannot be formed
- Changed circumstances
- Insufficient resources
- ...



Template 2: Closure Report

1. Title of the project proposal
2. Name and the organisation of the proposer
3. Date of the proposal submission to netdev-incubator@lists.geant.org
4. Link to the original proposal
5. Activities performed by WP6 related to the proposal
6. List of organisations that supported the proposal
7. Reason for retiring the proposal

Focus Groups Output - Incubator Project Proposal

Review and - if needed, **update** - the initial project proposal

Amend the initial project proposal with the information needed for project execution

- **Team** - For each individual nominated to participate in this project provide the following information:
 - Name
 - Organisation
 - E-mail address
 - Manpower available to work on the project
 - Manpower to be funded by the GN5-1 WP6
 - Support from their organisation Yes/No
 - Role and job in the team

Focus Groups Output - Incubator Project Proposal - Template 3

Template 3: NETDEV Focus Group Proposal for the Incubator Project

1. **Name, NREN** - Name and Organisation of the person that is submitting the proposal.
2. **Title** - Name of the proposal that describes what is being proposed.
3. **Rationale** - Describing why this work is important, which problem it solves.
4. **Output and Outcome** - Tangible and intangible outputs that will be produced as a result of this proposal. The output should be Specific, Measurable, Achievable, Resource- and Time-bound (SMART).
5. **Users** - Who are the users that would use the results of this work.
6. **Value** - Describe the value that the proposal will provide to the users, and how it differs from other solutions that might exist in the community or in the market.
7. **Team** - For each individual nominated to participate in this project provide the following information:
 - a. Name
 - b. Organisation
 - c. E-mail address
 - d. Manpower available to work on the project
 - e. Manpower to be funded by the GN5-1 WP6
 - f. Support from their organisation Yes/No
 - g. Role and job in the team
8. **Time** - Expected duration of this project
9. **Resources** - Total resources and budget needed for this project:
 - a. Manpower
 - b. Equipment (needed/existing equipment, which equipment should be bought)
 - c. Travel budget
 - d. Other (please specify).
10. **Intellectual Property Rights (IPR)** - As a proposer I declare that my submission is not infringing any IP rights of others.
 - a. Does any code or previous work exist that is a subject of an existing IPR? Yes / No
11. **Information about gathering and processing any personal data**
 - a. Will you be processing any personal data for this project? Yes / No
 - b. If Yes:
 - i. Which data are you processing, how, and for what purposes?
 - ii. Do you have a privacy notice for it? If yes - please provide it.
12. **Contribution to an existing GÉANT project service** - Will it create or contribute to an existing GÉANT project service? If yes, please specify which.
13. **Organisations supporting the proposal** - List organisations and contact persons that would like to use the project outputs.

Phase 3: Incubator Project

Purpose

Produce project results as per Focus Groups resulting project proposal

Output

As defined in the Incubator project proposal, within given resources and time

Can be a document, improvement for an existing work, a new service proposal, PoC, pilot..

Project results implemented by organisations that supported the proposal

Proposals for the next steps - service / product / closure / further development and

Dissemination, dissemination, dissemination...

Simple rules

Limited duration - **maximum of 6 months**, limited budget

Incubator project participation is funded by WP6

Network Development help and support

**We will provide help and support
in all phases of the process!**

- Filling in any of the Templates
- Searching for support
- Promoting the proposal in all its steps
 - Matching the user groups and communication channels
- Coordinating and facilitating the work of the Focus Groups and project teams



NETDEV Incubator projects

Core TF Network

Project Lead:
Guy Roberts,
GÉANT

[Project
proposal](#)

Fibre Sensing

Project Lead:
Bartosz
Belter, PSNC

[Project
proposal](#)

Your
project
here!

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Thank You!

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