

# **NETDEV Incubator**

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NETDEV GN5-1 Project WP (WP6)

19th SIG-NOC Meeting

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Public (PU)



# Agenda

- Motivation
- The NETDEV Incubator Process
- Q&A

### **Motivation**

Once upon a time, Not that long time ago...

- Little space during previous project generations for new work topics
  - budget-, manpower-, time-, ...- wise
- 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



#### This lead to:

- New topics needed to wait for the next project generation (sometimes too long)
- "Pet projects", lack of uptake -> orphaned projects
- Eternal dilemma: endlessly continuing vs. stopping the work

Solution: **NETDEV Incubator** 

#### **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

#### **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**

A proposal must be relevant and well defined Specific, Measurable, Achievable, Resource- and Time-bound

A proposal must be seen useful by NRENs NRENs should express willingness to use the results

Description of work, time and budget must align with WP6

## **Network Development WP Scope and Objectives**

## Scope

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

## **Objectives**

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

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



## **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 3: Monitoring**

TL: Lætitia Antoine Delvaux, PSNC

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

#### Task 2: Platform

TL: Roman Lapacz, PSNC

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

#### 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 is **doable** 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
- A study
- A new design / development

## **NETDEV Incubator - 3-phased approach**

**Proposals Submission** 

**Focus Groups** 

**Incubator Projects** 



## **Phase 1: Proposals Submission**

Always open call for proposals

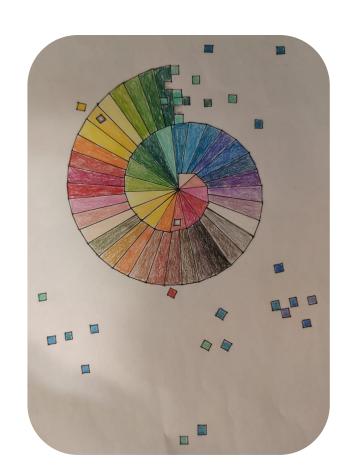
Anyone can make a proposal any time

Proposal submission using predefined template

Community support is a prerequisite!

<u>Support = willingness to use the Project results</u>

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.
- 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 GN5-1 project? Yes/No



## **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

## 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

Manpower (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

#### 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?

## **Incubator Project Proposal Template**

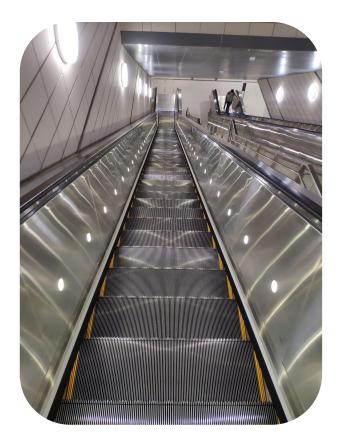
#### Template 1: NETDEV Incubator Project Proposal

	1.	Name and Organisation of the person that is submitting the proposal
General info	2.	Title - Name of the proposal that describes what is being proposed.
Why	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.
What	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.
How	9.	Resources - Which resources and budget are needed for this project:
HOW		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?
What	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.
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Whv

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 GN5-1 project? Yes/No



## 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 your organisation dedicate to work on this project?
- Would you work on this proposal even if **not** being paid from the GN5-1 project? Yes/No
- 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. 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.

- 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 are the users that would 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 GEANT 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,

Limited budget - up to 0,5 FTE per FG

Focus group participation is funded by WP6

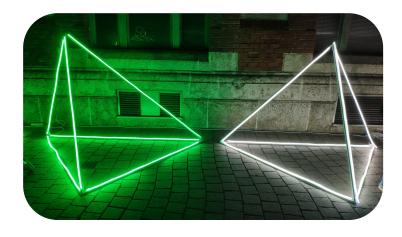


## **Focus Groups Output - Closure Report**

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
- A SMART project cannot be defined
- Decreased insufficient interest to proceed
- A project team cannot be formed
- Changed circumstances
- No sufficient 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
  - F-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.
- Title Name of the proposal that describes what is being proposed.
- 3. Rationale Describing why this work is important, which problem it solves.
- 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
  - 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
  - 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
  - o. If Yes:
    - Which data are you processing, how, and for what purposes?
    - 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.

## **Incubator Project Proposal Template**

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## Focus Groups Output - Incubator Project Proposal - Template 3

#### Template 3: NETDEV Focus Group Proposal for the Incubator Project

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- 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
    - Role and job in the team
- **8.** Time Expected duration of this project
- **9. Resources** Total resources and budget needed for this project:
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- 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.

#### **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...

## Simple rules

Limited duration - maximum of 6 months, limited budget - up to 1 FTE per project

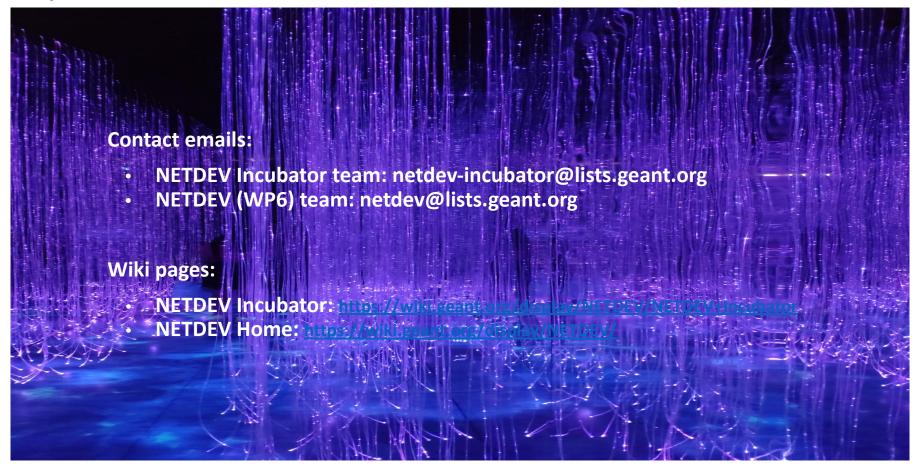
Incubator project participation is funded by WP6

# WP6 plans to provide help and support in all incubator process phases:

- When filling in any of the Templates
- When searching for support
- In promoting the proposal in all its steps
  - Matching the user groups and communication channels
- In tasks during the project execution
- In coordinating and facilitating the work of the focus groups and project teams



## **Important links**





# **Thank You!**

netdev@lists.geant.org netdev-incubator@lists.geant.org

www.geant.org

