

Infoshare: Global Platform for Labs (GP4L)

GÉANT GN5-2, WP6T2

GP4L infoshare, virtual 10 February 2025

Public (PU)

GN5-2



What is GP4L?

The Global Platform for Labs

Sonja Filiposka, UKIM WP6T2

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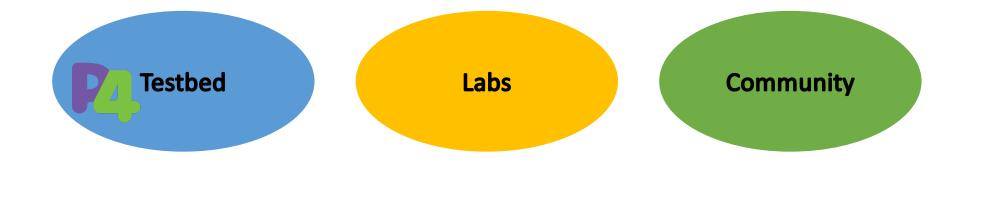


Agenda

- Short introduction to GP4L
- Components
- Users
- Objectives
- Opportunities

GÉANT Global Platform for Labs

Dedicated to advancing network transformation by providing a comprehensive ecosystem for experimentation, innovation, and collaboration in network programmability and new networking practices.





https://geant-netdev.gitlab-pages.pcss.pl/gp4ldocs/

GP4L Objectives and Users

	Access to Experimental Facilities	advanced data plane programming facilities to test innovative and geographically distributed network experiments	Network Engineers and Managers, NetDevOps Teams
			From NRENs or affiliated R&E organizations, interested in conducting advanced network
0	Enable testing and validation	empower users to explore and validate various approaches to network transformation	experiments or exploring specific use cases in network transformation
\star	Co-Creation of Network Solutions	improve network operational efficiency	Research Organizations and Teams Individuals or groups looking to test and collaborate on innovative network research projects and solutions



GP4L components

5P<mark>4</mark>L



GP4L Experimental Testbed

A P4 distributed infrastructure for researchers to run network experiments

GP4L Playground

Spin up network management containers on top of the testbed





Community

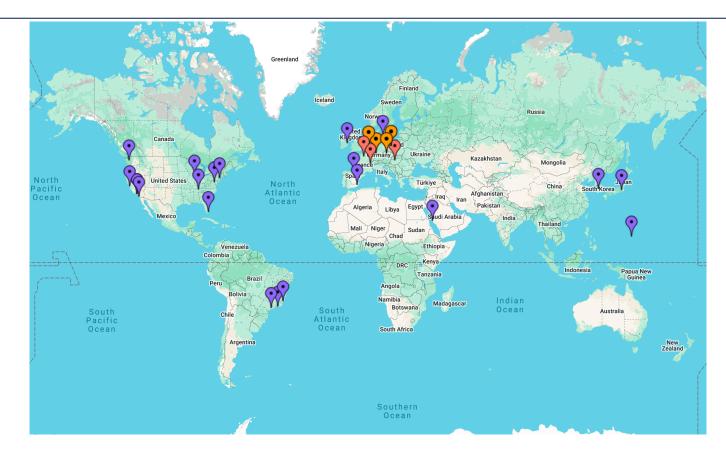
Open discussion, support and collaboration on pilots

• Service Provisioning Pilot for PIONIER

https://geant-netdev.gitlab-pages.pcss.pl/gp4ldocs/

GP4L Experimental Testbed

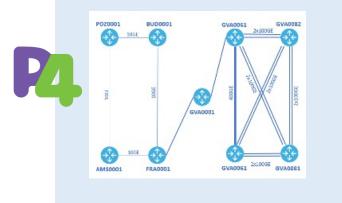
Part of a large-scale programmable network infrastructure that can be used to run cutting-edge network experiments.



GP4L

GÉANT testbed

Physical experimental infrastructure core



Labs

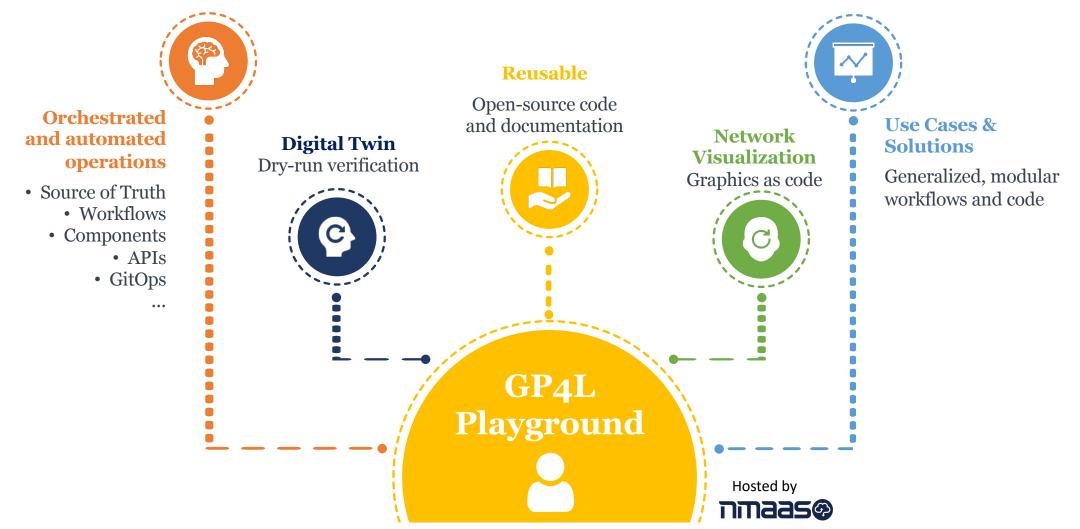
- Investigate technologies
- Innovate solutions
- Test network protocols
- Implement NetDevOps principles
- Virtual sandbox playground powered by DMaaS

European footprint

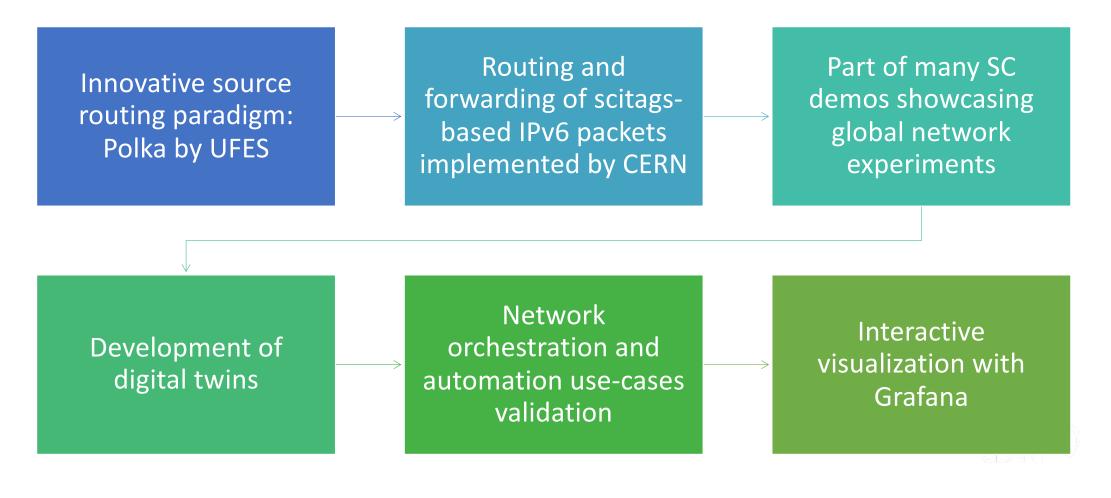




Labs = The GP4L Playground



Experiments, Use-cases, Examples



All GP4L components

Are free for use

Open to anyone interested

Can be used independently

Supported and maintained by WP6T2 in GN5-2



Interested?



Have an experiment in mind?

Want to test out an idea?



Looking for an infrastructure that offers high data rate transfer?



We invite you to contact us and start to use GP4L



Thank You

https://geant-netdev.gitlab-pages.pcss.pl/gp4ldocs/

gp4l-admin@lists.geant.org

www.geant.org



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