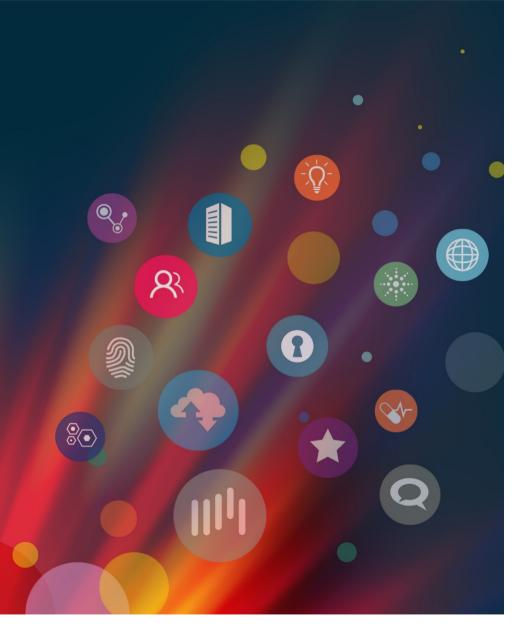
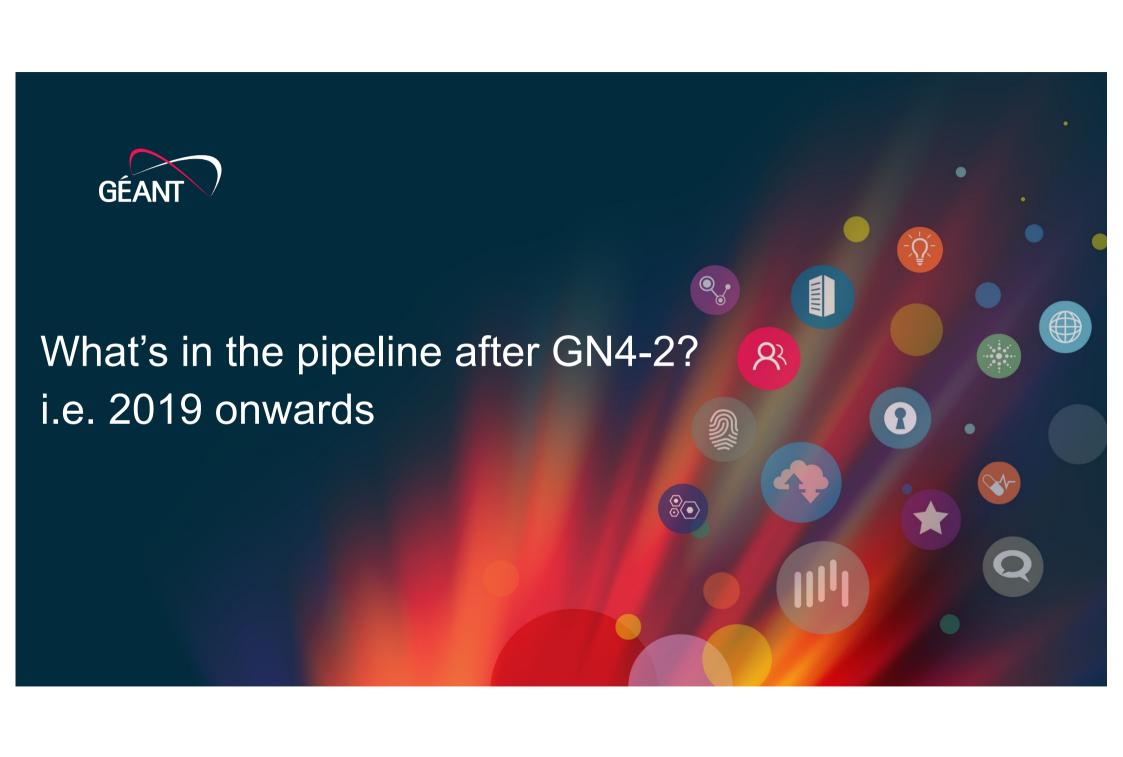


# White Paper process Info-share

Matthew Scott

16 October 2017

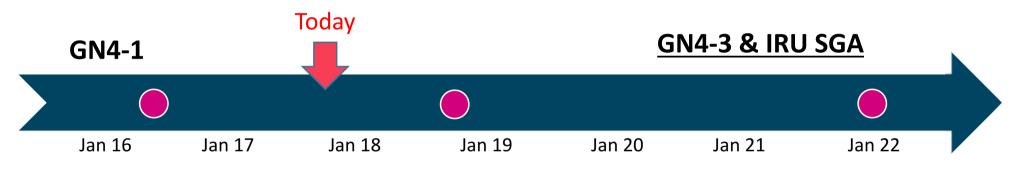




## **GN4-2** is the second phase in the 2020 FPA

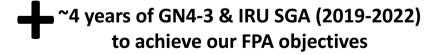


# GÉANT2020 FPA



**GN4-2** 

We have 14 more months of GN4-2



# **Preparing GN4-3 & IRU SGA** *Publication of WP2018-20*



Two (2) GÉANT Framework Partnership Agreement projects, total budget €128M

#### **GN4-3**

- Operational Services (TRL 8 or above)
- Prototyping of new services (TRL6 or above for the **technologies** we use to develop our services)
- International Cooperation, skills and dissemination

Total Budget up to **€112M** 

#### **IRU SGA**

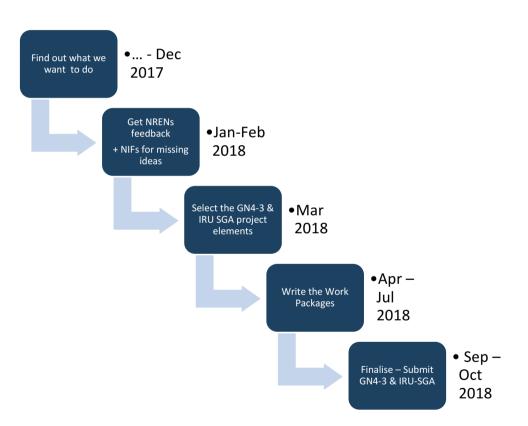
Procurement of long-term backbone capacity

Total Budget at least €16M

# Following phases leading up to GN4-3 & IRU SGA submission



- White Papers phase (Sep 2017 Feb 2018)
  - Write White papers, incorporating input from user requirements gathering using PLM, Quality Control and NRFNs' review
    - NRENs will provide feedback to white papers mid Jan 2018
       Feb 2018 + NIFs if something is missing
    - the body of each White Paper will be max 10 pages & that the assessment process will be based on short templates giving a general roadmap, budget and milestones
- Selection of project elements phase (Mar Apr 2018)
  - Assess the contents of the White papers taking into account the feedback from the NRENs, based on NRENs' levels of interest
- Detailed GN4-3 & IRU SGA Planning, Budgeting & Recruitment phase (May – July 2018)
- GN4-3 & IRU SGA Proposal writing & Submission phase (July – September 2018, to be submitted Q3 2018)



#### Topic areas and main editors for initial White paper phase



#### 1. Network

**Network Architectures** & **Services and Tools** (including global connectivity & multi-domain services/ network monitoring, management and performance verification)

Editors: Shaun Cairns, Ivana Golub, Afrodite Sevasti

#### 2. Security & Privacy

Editors: Sigita Jurkynaite, Alf Moens, Steve Kennett

#### 3. Trust & Identity

Editors: Klaas Wierenga, Ann Harding, Licia Florio, Nicole Harris

#### 4. Application Services and Clouds

Editors: Andres Steijaert, Peter Szegedi

#### 5. General services

Part A: Software development

Editors: Marcin Wolski

Part B: Operations (i.e. general first line support), procurement, PLM, Legal, IPR, Project Management

Editors: Toby Rodwell, Paul Rouse, Marina Adomeit

6. User, Community, Outreach (incl. open calls, other e-infrastructures) and Human Capital Development

Editors: Cathrin Stover, Annabel Grant

### **Network White Paper High Level Overview**



- Network evolution
  - Footprint, Optical layer, Transport Layer, IP Layer and above, Global connectivity, Evaluation and collaboration
  - Outline network planning approach for use of new full cost funding model (IRU SGA)
- Software architecture evolution
  - Management plane, Control plane, Application & Service plane evolution, OSS/BSS, Services and Network Orchestration, Software best practices for an integrated architecture, DevOps
- Operations evolution
  - Automation, Process frameworks, Integrated and consolidated operations, monitoring and performance verification
- Services evolution
  - IP-based services, Connection-oriented services, Big data/science-driven services, Testbed services, Over the top (OTT) services, i.e. GTS, Service interoperation (intra-domain orchestration & inter-provider

Community consultation sessions:

June/July 2017: Network evolution workshops plus November workshop(date tbc) for NREN CTOs to discuss the short, medium and long term vision for the GEANT network.

- review of the short term plans
- discussion on the future scope of the GEANT backbone network, and the significance in terms of cost and capability.

## **Security and Privacy White Paper High Level Overview**



### Main topic areas

- Security Baselining for products, services and organisations
- (Managed) Security products and services
- Legal compliance (including privacy compliance)
- Management of risks
- Training and awareness
- Incident response, business continuity and crisis management

Three virtual community consultation sessions scheduled this month

- 16 October 14:00 15:00 <a href="https://eventr.geant.org/events/276">https://eventr.geant.org/events/276</a>
  <a href="mailto:5">5</a>
- 25 October 10:00 11:00 <a href="https://eventr.geant.org/events/276">https://eventr.geant.org/events/276</a> 6
- 31 October 10:00 11:00 <a href="https://eventr.geant.org/events/276">https://eventr.geant.org/events/276</a>
  <a href="mailto:276">7</a>

## **Trust and Identity White Paper**



### **High-level Areas**

- Ongoing Operations:
  - eduGAIN, eduroam, eduPKI & related services
  - From GN4-2 pilots— enhanced support, SIRFTI (security response)
- Service Enhancements:
  - geteduroam, letsradsec, eduGAIN OIDC profile, federation catalogue, SIRTFI query and response testing,
- Service Enhancements above eduGAIN:
  - Ongoing development of eduTEAMS, InAcademia. in advanced pilot & production
- New areas:
  - Improved metadata management (per-entity and ledger (e.g. blockchain) approaches, reputation portal.

#### **Consultation Plans**

- Carried out so far
  - Post-it exercise at Symposium.
  - RDA workshop
  - eduGAIN & eduroam SG calls for ideas
- Pending
  - Session(s) at Internet2 Technology Exchange.
  - AARC Meeting.
  - DI4R / FIM4R.
  - eduGAIN TownHall / REFEDS meeting. s
- Consolidation at T&I leaders meeting.
- Final editors meeting (December).

## Cloud and online services white paper, high level overview



- Deliver the clouds
  - INTERNAL: national community clouds made available to other NRENs);
  - EXTERNAL: sourcing from commercial suppliers
  - Help the NRENs to deliver services locally in their respective countries.
- Connect the clouds; network peerings and IdM (connecting providers using eduGAIN.
- Control the clouds
  - · Cloud management platforms and marketplaces.
  - Compliance (eg GDPR) and Standardisation (data interoperability and portability )
- Widen the clouds; new service offerings
- Deepen the clouds; including Machine learning and Artificial Intelligence
- Educate about clouds: NREN and GÉANT Cloud competency centres
- **Beyond the clouds;** apply the cloud supply chain model to other IT areas and products, such as: content, hardware and devices
- Collaborate on clouds
  - Ensure the GÉANT cloud activity is well positioned inside and outside Europe (incl EOSC and global collaborations

Join one of the following video conferences to continue the cloud outlook discussions

- Wednesday November 1st, from 14:00 to 15:00 CET
- Friday November 3rd, from 14:00 to 15:00 CET

Dial into cloud vc room: http://lifesizecloud.com/2750418

## General Services High Level description of future continuing activities



- Software development management
  - analyse the requirements of software development
  - suggest tools and provide guidance that supports software quality and operational management
  - Secure code and quality code audits of services in transition and in production
  - Organisation of secure and quality code trainings
- Operations
  - Operations Centre, Operational Support Systems for:
    - GTS, eduroam, eduCONF, EUMETSAT, VM, PERT, Expanded T&I...
- Service Management
  - Bespoke service support, Service Design, Service Transition, Reporting and Continual Service Improvement,
  - Next Generation Architecture support, New Ticket System, New CRM Integration,
  - Operational Support System Improvements,
  - GWS and Peering Unification
- Procurement, Legal, Product Management, Governance and Project Management

# User, Community, Outreach High level description of future continuing activities



- Stakeholder Outreach and Engagement
  - User
  - E-infrastructures
  - NRENs and Community
    - Account Management to European NRENs
    - Support to Community
      - GCC, SIGs/TFs
      - Development of GEANT Community innovation channel, fostering innovation, from idea to service, develop a strategy towards business, SMEs
    - Global Partnerships
  - Human Capital Development
    - · Addressing the digital divide
      - Skills gap analysis and address
      - Learning and development for GEANT all hands
      - Training on GEANT services and products
    - Measures to prevent the brain drain to private sector
  - Marketing Comms and Events
  - EU Relations

# General Assembly involvement in the GN4-3 & IRU SGA planning process



- October 2017: Info-share to explain the white paper process
- November GA 2017: Information about white paper progress and GN4-2 review.
- Jan-Feb review of white papers by NRENS
- March GA2018: Information about white paper assessment by NRENs.
- June GA 2018: Information about the work package (activity) structure. Approve the recruitment process.
- End September 2018 (extra VC/F2F?): Approve GN4-3 & IRU SGA proposal

Note: Additional update/info-share video conferences also likely in 2018.



# Thank you Any Questions?

Matthew.Scott@geant.org





As part of the GÉANT 2020 Framework Partnership Agreement (FPA), the project receives funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 731122 (GN4-2).