PMC21



Project Management Convention for GN4-3 & GN4-3N

Service Delivery and Uptake

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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. 856726 (GN4-3).









Agenda



Service Delivery Analysis
What do we know from NRENs?

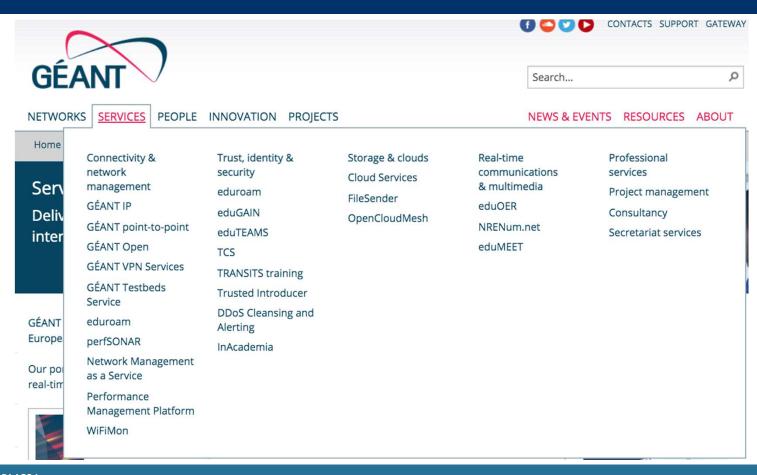
Introduction to the break out sessions

Break out session



GÉANT Services





For each service...



Do we know?

- 1. What is the service?
- 2. Who are the users?
- 3. What is the value of the service?

Or: Why would a user use the service?

Or: Why would someone pay for the service?

Is it clearly defined and transparently presented?



Answers to previous questions:

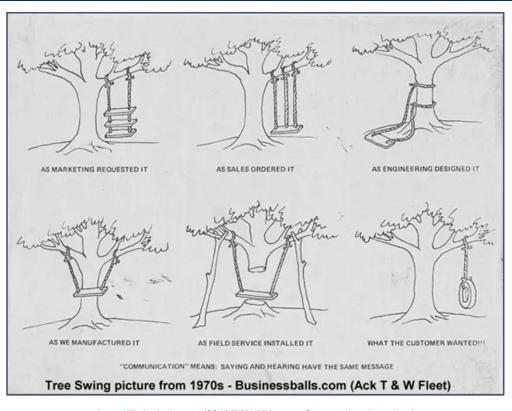


Determine

- Are we delivering what we are offering?
- Are we targeting the right audience?
- Are we promoting the services correctly?

And **impact**:

- Promotion
- Uptake
- Users' satisfaction
- ...



https://boingboing.net/2013/03/14/history-of-tree-swing-draw.html

https://www.businessballs.com/amusement-stress-relief/tree-swing-cartoons-new-versions/

We present services per technology



Connectivity & network

management

GÉANT IP

GÉANT point-to-point

GÉANT Open

GÉANT VPN Services

GÉANT Testbeds

Service

eduroam

perfSONAR

Network Management

as a Service

Performance

Management Platform

WiFiMon

Trust, identity & security

eduroam

eduGAIN

eduTEAMS

TCS

TRANSITS training

Trusted Introducer

DDoS Cleansing and

Alerting

InAcademia

Storage & clouds

Cloud Services

FileSender

OpenCloudMesh

Real-time

communications & multimedia

eduOER

NRENum.net

eduMEET

Professional

services

Project management

Consultancy

Secretariat services

Can we easily say whom each service is for?

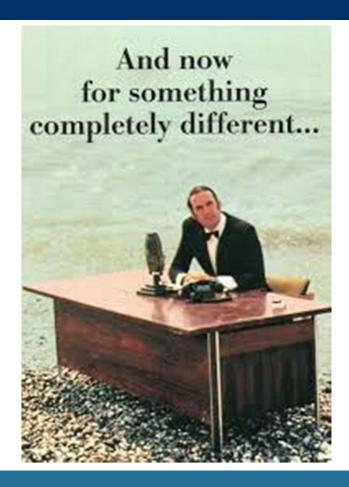
Can our users?

Service Analysis Perspective



A set of current production services analysed from the following perspectives:

- User groups
- Production delivery and operations
- Delivery chain
- Uptake measurement
- Governance model



Service Delivery Analysis



Production services

- 14 (Not all) services took part in this analysis
- All WP5 (4) and WP6 (5) production services
- 2 WP4 services and 3 WP7 services (Thanks Maria, Toby, Akil, Mian)
- Participation on a voluntary basis

Some development work

- 4 WP6 candidates for new services
- Not all aspects defined or fixed yet (work in progress)







ReduGAIN







GTS











Service delivery questions



- What is the service?
- Who are the users?
- What is the delivery model?
- How is the production delivery organised?
- How is the uptake measured?
- What is the governance/steering model?



What is service offering?



Provide software

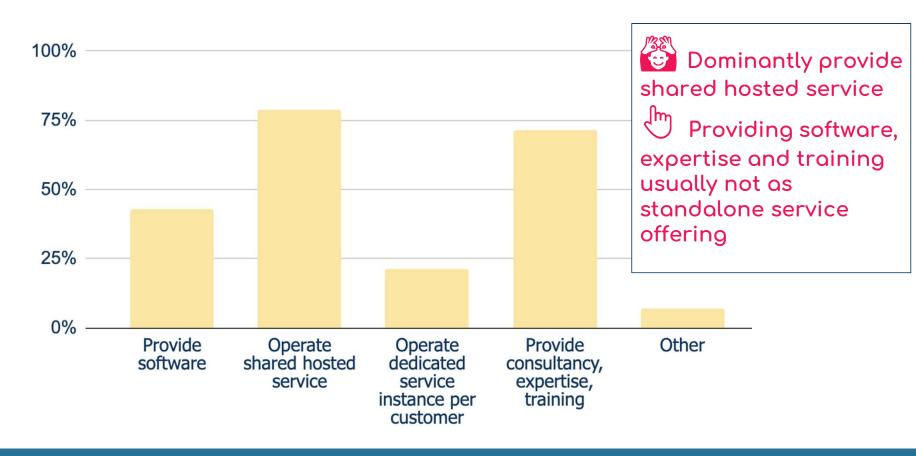
Operate shared hosted service

Operate dedicated service instance per customer Provide consultancy, expertise, training

Other

What is service offering?





Who are service users?



Individual end user researcher, student... R&E institution - school, university, institute...

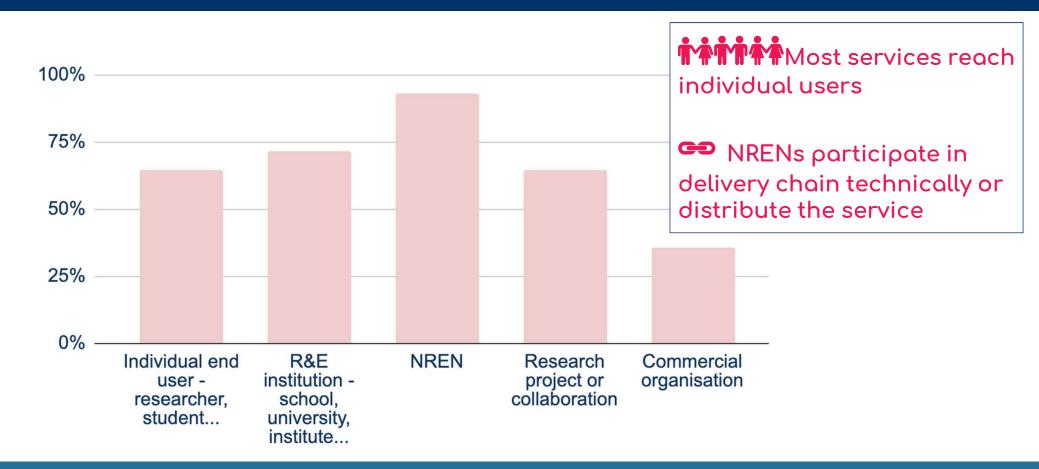
NREN

Research project or collaboration

Commercial organisation

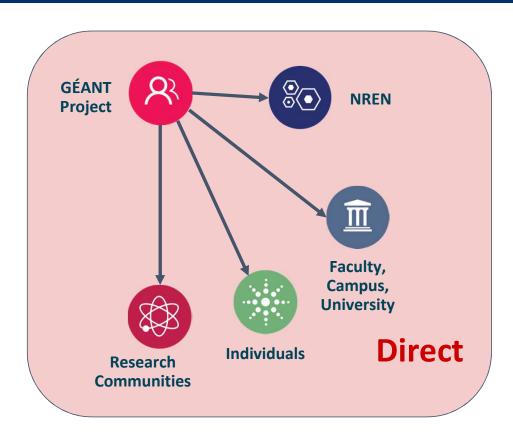
Who are service users?

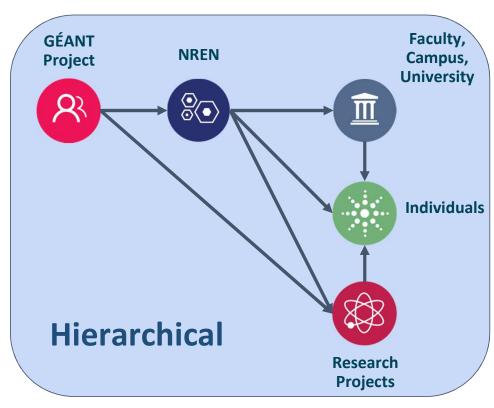




What is service delivery chain

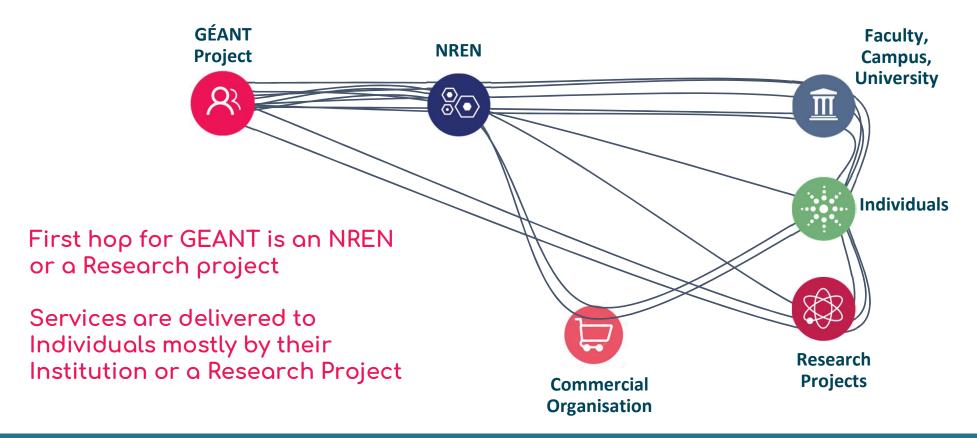






What is service delivery chain





Production service delivery - Operations team

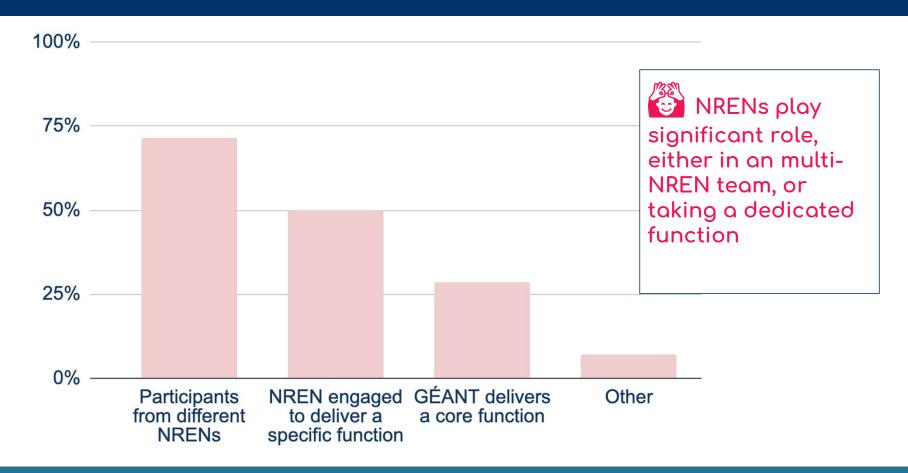


Participants from different NRENs NREN engaged GÉANT delivers to deliver a a core function specific function

Other

Production service delivery - Operations team





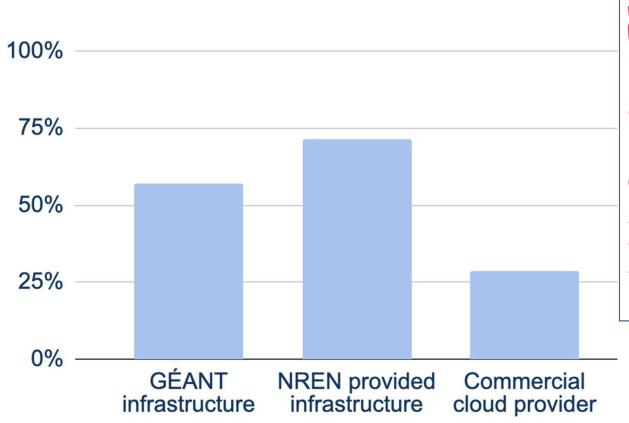
Production service delivery - Infrastructure



GÉANT NREN provided Commercial infrastructure infrastructure cloud provider

Production service delivery - Infrastructure





These stats show usage of infrastructure providers and not absolute numbers of VMs provided

NRENs play significant role, usually combined with providing service team

Production service delivery - Support



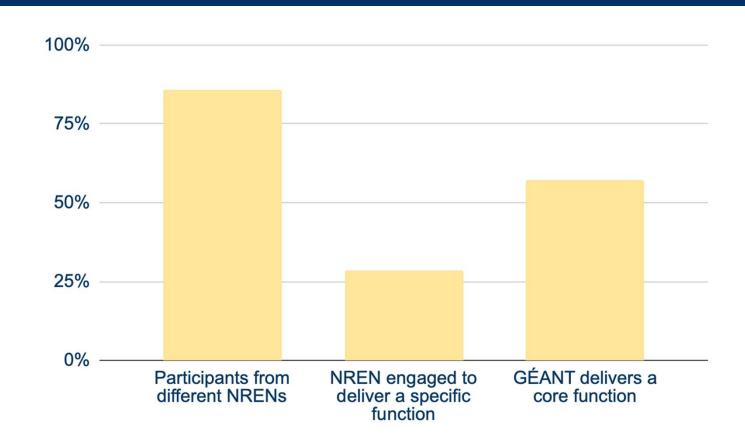
Participants from different NRENs

NREN engaged to deliver a specific function

GÉANT delivers a core function

Production service delivery - Support





Uptake measurement - HOW



Automatically processed as part of the service

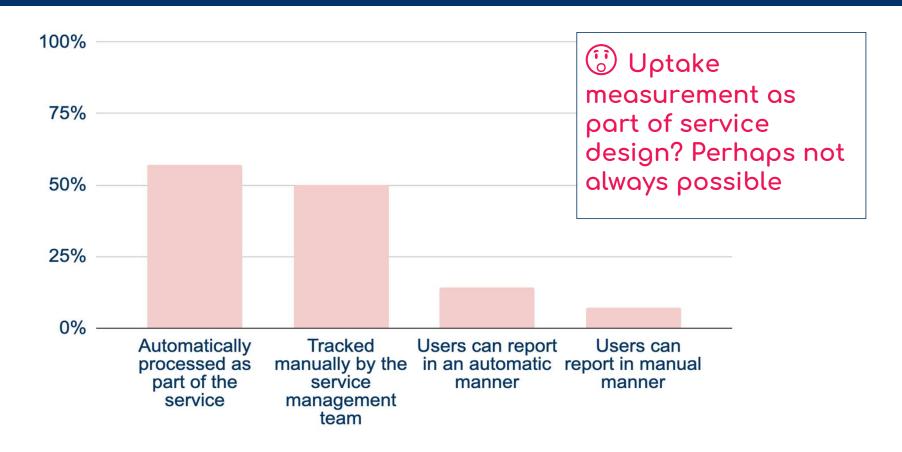
service management team

Tracked Users can report Users can manually by the in an automatic report in manual manner

manner

Uptake measurement - HOW





Uptake measurement - WHAT



Individual user uptake

Institution uptake

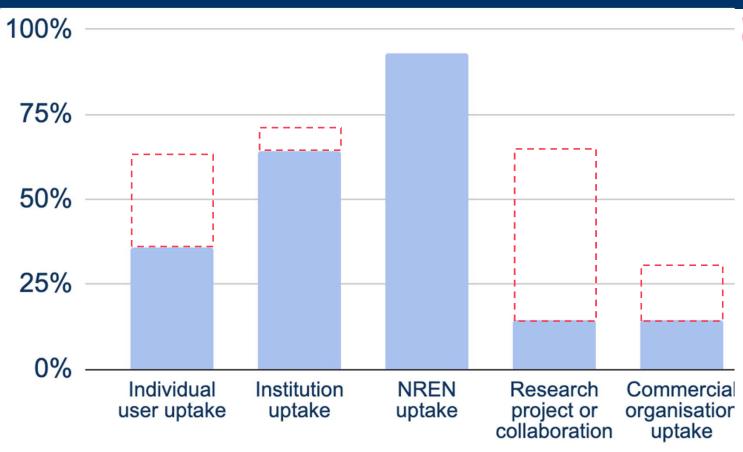
NREN uptake

Research project or collaboration

Commercial organisation uptake

Uptake measurement - WHAT





NREN and Institution uptake is well tracked

End users and research collaborations uptake is difficult to measure - price of running privacy preserving services, something else?

Service Governance/Steering

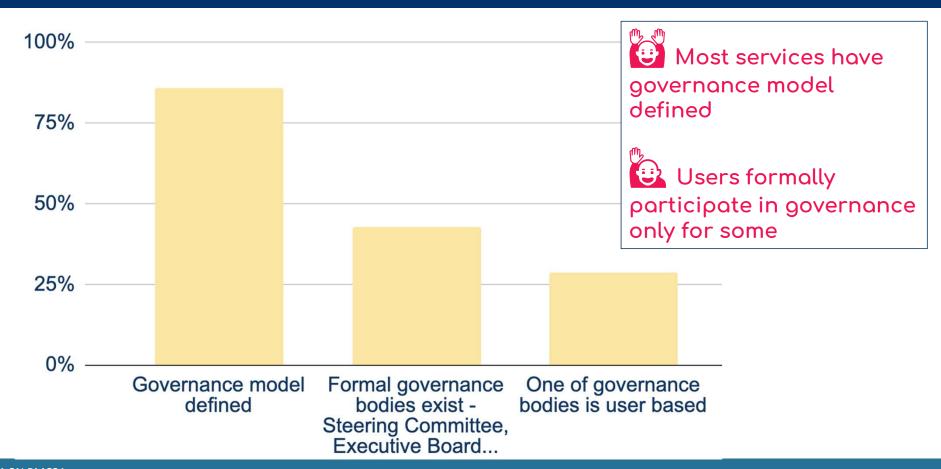


Governance model defined

Formal governance bodies exist - One of governance bodies is user based Steering Committee, Executive Board...

Service Governance/Steering





Development Work Snapshot



- RARE, LoLa, DPP and OAV training WP6 work in scope
- They all **follow the similar pattern as production services**:
 - Most of them include <u>software development and consultancy</u>
 - All are targeting the same user groups:
 NRENs, institutions, individuals, projects
 - They all have direct and hierarchical delivery chain model
 - The hierarchical delivery chain model is the same:
 GÉANT project -> NREN -> end institution -> end user
 - Operations team come from NRENs
 - Infrastructure: GÉANT and NRENs
 - Uptake depends on NRENs, institutions, individuals

NRENs' Have Key Roles in Service Delivery



- Service development and operation
 - Create and develop services
 - Provide infrastructure, support
- Service delivery chain
 - Direct users
 - **First point of contact**Towards institutions, users, projects

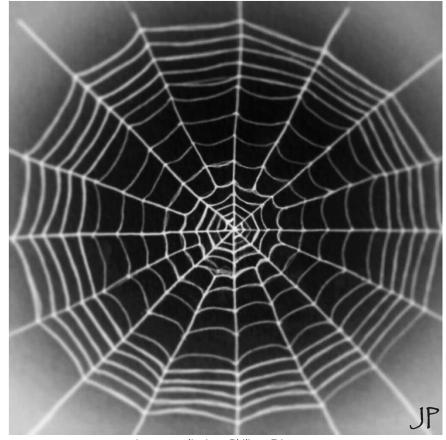


Image credit: Jean-Philippe Frimat

The analysis raises even more questions



Services address several user groups:

- Have we adjusted the approach per user group?
- Have we adjusted the value proposition per user group?
- How are we addressing the individual links in the hierarchical delivery chain?

Importance of NRENs:

- Are NRENs aware of all their roles
- Do we work with NRENs around each of their roles:
- development, operations, delivery and sustainability
- How are we ensuring service sustainability wrt NREN participation
- How are we making sure that bigger changes in NRENs do not impact service sustainability?

Summary



- Per-user and service delivery segmentation emphasises different actors
- Services are targeting a broad audience profiling is needed
- NRENs play key roles in service development, operations, delivery and sustainability
 - Ensuring NREN commitment for all 4 aspects is crucial
- 8 out of 14 services have hierarchical delivery chain with NRENs as 1st PoC
 - Without NREN engagement service might not reach the user
- Service uptake measurement should be considered in the design phase
- Service governance structure defined with less than 50% of them with hierarchical structure
- The results call for further analysis...



Thank you Any questions?



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GÉΔN

The NREN view - What is the NREN perspective on service uptake?

- How do our services fit into NRENs' portfolio?
- How do NRENs promote GÉANT services?
- What are influencing Factors and resulting challenges on GEANT Service Uptake from NREN perspective?
- What do we do so far?

How do our services fit into NRENs' portfolio?



- Complementary
- Value for money
- Provide non-commercial, GDPR/Privacy compliant solutions
- Allow NRENs to offer richer service portfolio with small/no development resources
- Cater for niche use cases
- Offer R&E tailored features/services that
 - would not be possible to develop nationally
 - are not available on commercial market

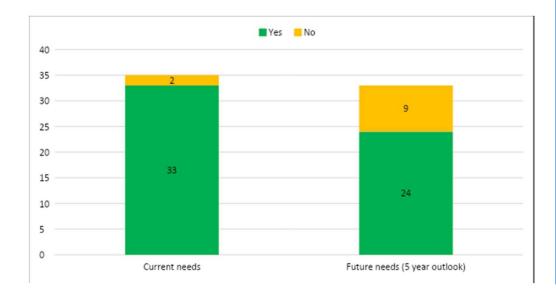


Reminder: NREN Satisfaction Survey Feedback



- No survey in 2020 due to COVID
- Next satisfaction survey due Feb 2021

Does GÉANT's service portfolio meet your NREN's needs ...



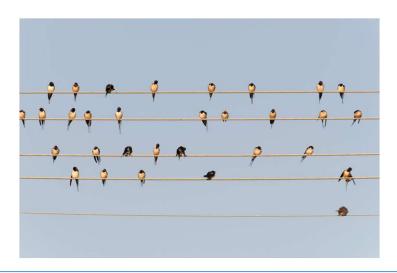
- At start of the project, large majority of NRENs agrees that Service Portfolio meets their needs
- NRENs comments demanded more activity in
 - new network technologies,
 - 5G, ICT Infra & Media support
 - Cybersecurity
 - and commercial cloud offerings

()which would largely be in line with planned project activities)

How do NRENs promote GÉANT services?



- Services are usually not promoted as "GEANT" services
- Absorbed into own outreach and marketing activities
- Differs by: NREN set up, relationship with constituencies, remit, resources, service type



Observe shift since GN4-2:

more involvement of GN4-3 to promote services on behalf of or in collaboration with the NRENs

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Influencing Factors and resulting Challenges on GEANT Service Uptake from NREN perspective



General Influencing Factors

- "internal"
 - Available funding and staff resources
 - Access to additional funding sources
 - NREN service scope
 - Active service promotion and engagement
- "mix"
 - NREN user base
 - National delivery chain
 - Formal and informal relationship between national stakeholders
- "external"
 - Large science user groups or facilities in country
 - Maturity of R&E sector (level of digitisation)





Service related challenges

- Business related
 - Lack of resources/ business urgency
 - Lack of known national use cases
 - Lack of skills in NRENs to deploy/ adopt services
 - Lack of outreach staff in NRENs to promote service

Service related

- Unclarity about use cases, adoption and operational costs
- Commercial solutions preferred by constituencies
- Service development not fast enough
- Concern about longevity and reliability
- Different technical approach to same service

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What do we do so far?



- WP2 and WP3 Activities, dedicated Service WP Outreach Tasks, GLAD
- Annual Project Plan, GN4-3 Stakeholder Engagement Plan, Marketing Plan and Training Plan



- Develop NREN by NREN/ Service by Service understanding
- multi-channel/ multi-tier engagement
- Engagement on technical and management level
- work together across WPs
- Tailored adoption support solutions

NREN consultations, Insights Studies, User surveys

Infoshares open to general public

Community Engagement with Specialists via TF/SIGs and STF Action!

Bilateral

Tailored trainings,

e,.g, T&I training

for SEE NRENs

engagement with NRENs, large science users,

Subject Matter Experts (e.g. Cloud Forum, STF)

and much more...

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Thank you Any questions?







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Introduction to the Breakout sessions











Introduction to the break out session



- What we discussed at the PMC 19 value proposition
- What was recommended by EC Reviewers
- Questions for the break out session

Service Value - PMC19 Discussion



As a reminder... the discussion from the PMC19

- Value definition depends on the stakeholder
- Value for Money Why would someone pay for the service (EC, NREN...)
- Established service; uptake defines the value
- Ensure 'it' delivers what stakeholders want/need
- Ensure 'it' delivers VFM, user satisfaction, ROI (not always easy to measure)
- This definition should be re-assessed periodically
- Also these values need to be promoted and communicated
- Sometimes NRENs and users are not aware of all the services.

5. EC Recommendations



- Run a business model analysis prior to new service development
- Make a benchmark analysis for the main services provided by GÉANT
- Indicate the total cost of running the main services
- Promote use of own services and use internal services whenever possible
- Find and develop new services that enhance and put in value the GÉANT network.

Breakout sessions



5 questions for 45 minutes:

- 1. How can we determine and measure the **value** of our services?
- 2. How to increase the uptake?
- 3. What should be **improved** in the delivery chain and how?
- 4. How to ensure **sustainability** of service operations?
- 5. How to better incorporate EC Recommendations?



Thank you Any questions?







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Breakout sessions





Breakout sessions



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- 5. How to better incorporate EC Recommendations?

1. How to Determine and Measure Service Value



- When is the value proposition aligned with the stakeholders:
 - Which PLM process phase?
 - Which project preparation phase?
 - How often is the alignment process repeated?
- How does the process from the value proposition to the service uptake measurement look like?
 - How should it look like?
- How is the value proposition expressed
 - In the project preparation phase
 - In the service development phase
 - In the production phase

2. Service Uptake and Usage Accuracy



How to get the exact numbers about the uptake and get it fast?

- What do we measure, and what does it say about the service uptake?
- What can we measure vs. what we need to measure to get the exact result?
- How can we improve the process of gathering the information about the service usage
- How to know if a service is used?

Uptake <> usage

Site visit <> software download <> software installed <> software used

2. Service Uptake / Usage Improvement



How to increase service uptake / usage

- Increase the number of users from the current user groups?
- New user groups from the current community?
- New communities / countries / regions?
- What do we need...
 - What do we need more of?
 - What do we need but currently do not have?

3. Service Delivery Chain (SDC)

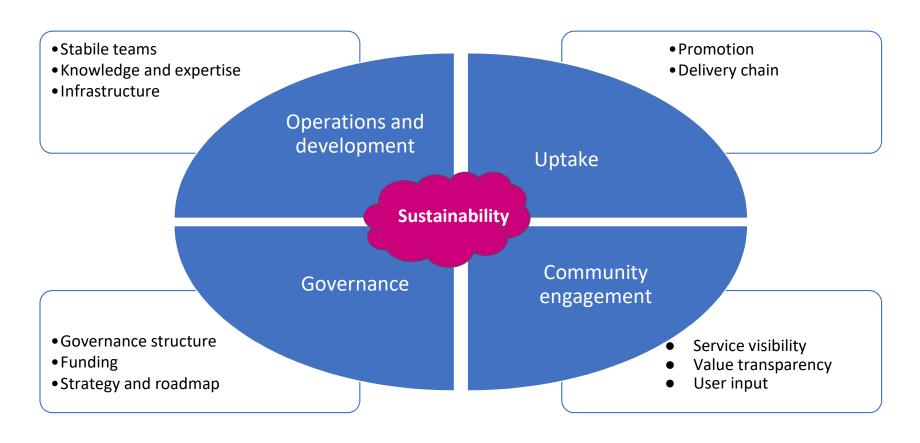


What should be **improved** and how?

- Are all elements of the SDC in place?
- Do we have a direct delivery from our service team to the user?
- Does it work?
- Do we have a hierarchical delivery chain?
- Does the hierarchical delivery chain work?
- Do all the links and all the nodes: know their role, do their role well, collaborate together?

4. How to Ensure Service Sustainability?







Thank you Any questions?





