

# FeduMEET



Scaling eduMEET: a federated videoconferencing service for research and education

## TNC26 Community Hub

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## eduMEET in a nutshell

- An independent open source software for secure and private VC
- WebRTC web-conferencing open-source platform
- Originally designed and developed within the GÉANT project

### Built with these top priorities in mind:

- privacy
- security
- ease of usage
- cost effectiveness
- flexible development directions

**eduMEET 4.2 (01.2026)**



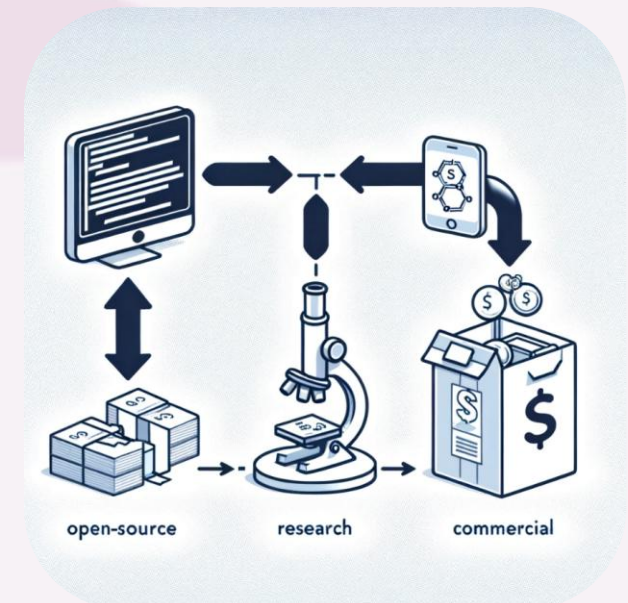
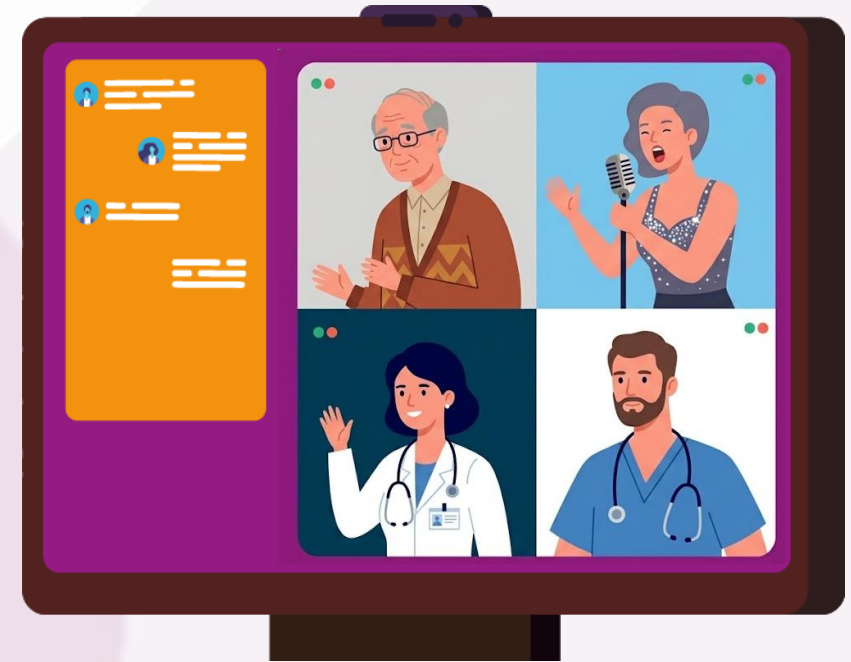
# eduMEET – beyond our community

## Research projects examples

- Elderly-care
- AI-based network security test case
- 5G edge deployment
- Computer vision AI-based user emotion tracking
- Military telemedicine

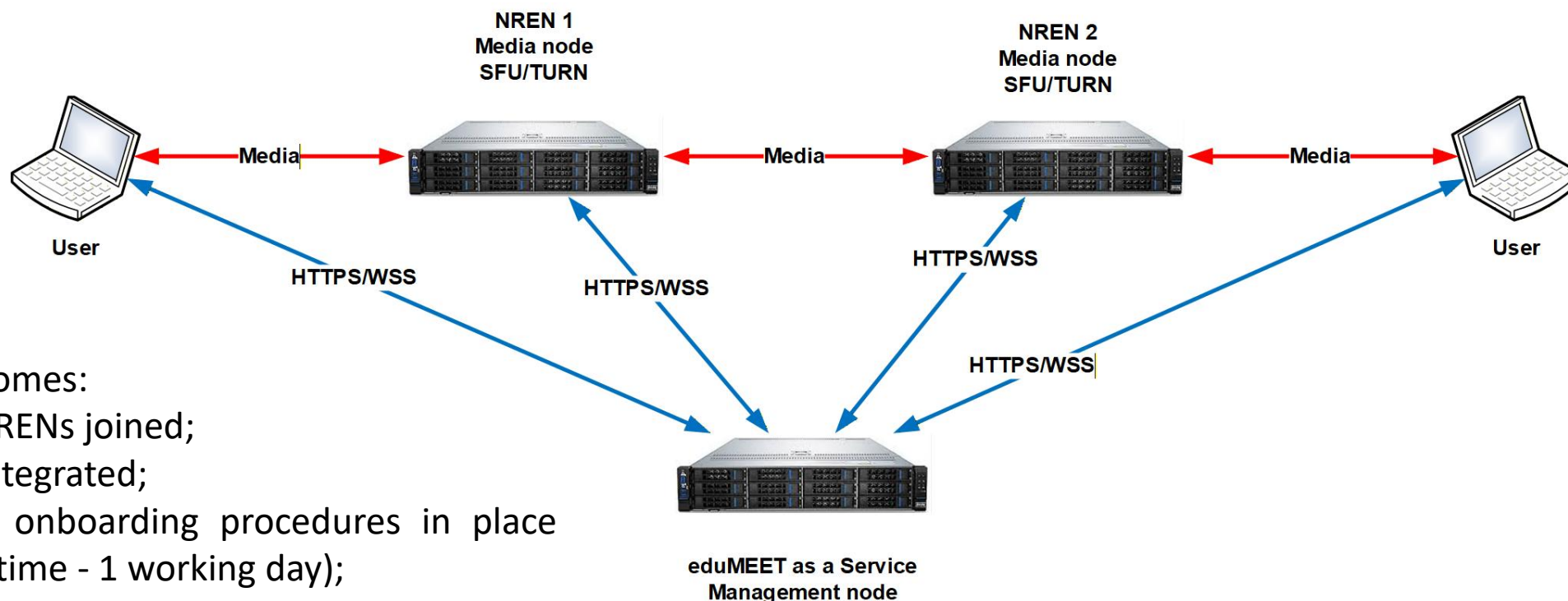
## Commercial usage examples

- Secure platform for therapists
- Platform for singing teachers
- Higher education online teaching platform
- Telemedicine and remote education solution for operating rooms
- Remote proctoring tool for cardiac surgery



## FeduMEET project: eduMEET as a GÉANT Service

**Goal:** Design, deploy and test a federated, multi-operator eduMEET-as-a-Service with a single point of access and support for both local and federated single sign-on (SSO) systems, such as eduGAIN.



Expected outcomes:

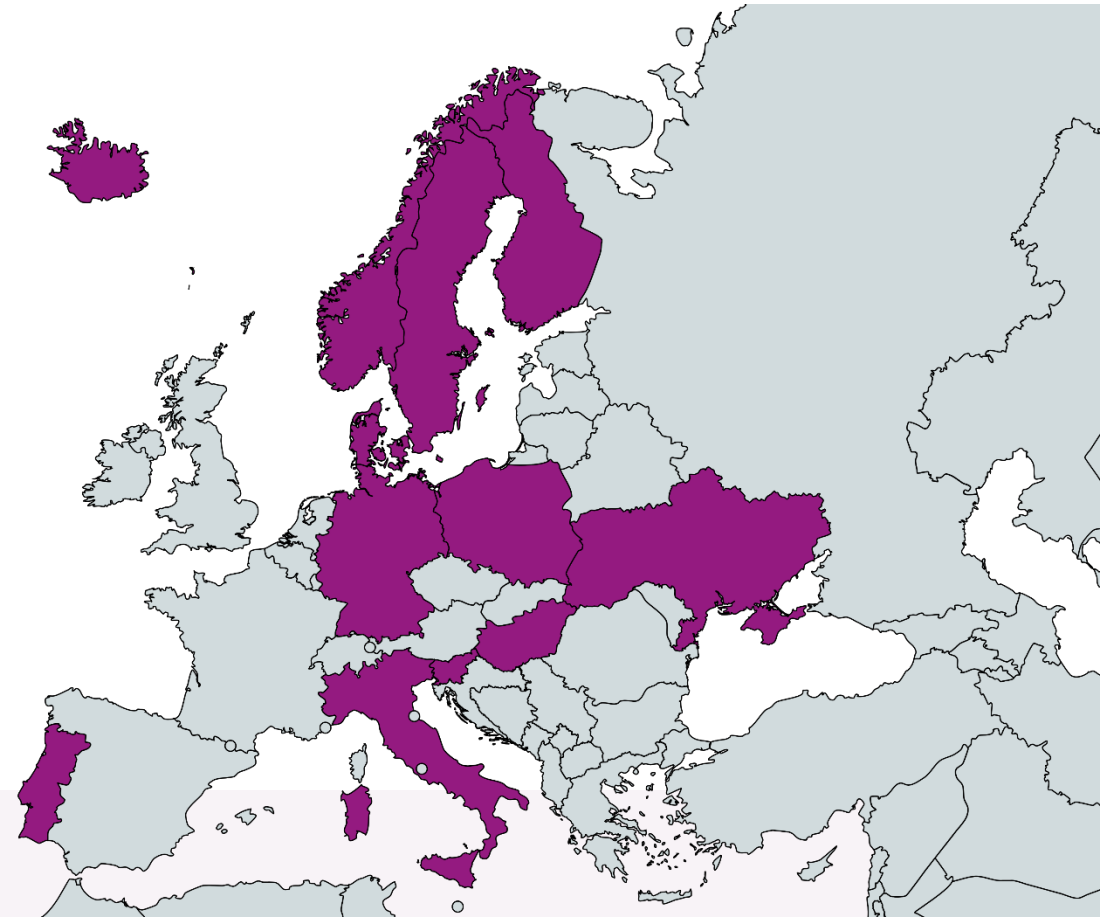
- at least 3 NRENs joined;
- SSO login integrated;
- new NREN onboarding procedures in place (estimated time - 1 working day);
- monitoring in place;
- and a production-ready service blueprint.

## eduMEET as a GÉANT Service

- Federated infrastructure for Media nodes
  - Centrally operated, locally hosted: Ops handled by the eduMEET team, NRENs provide hardware infrastructure for media nodes
  - Centrally orchestrated: Automatic geographic and load-based distribution between media nodes
  - Seamless failover – service available even if own media nodes are unreachable
- Two participation paths:
  - Contributing model – NRENs/affiliates add infrastructure to the pool and obtain rooms to use
  - Subscriber model – consume the service without local hardware; same quality/governance.
- Each NREN or associate receives own tenant
  - Custom domain (ex. edumeet.pcss.pl, edumeet.uran.ua, deic.edumeet.nordu.net, fed.edu.meet.garr.it)
  - Integration with custom SSO (ex. eduGAIN, PIONIER.id, NREN SSO, ...)
  - Administration of rooms in own domain (user access rights, custom logo & background)

## Scaling eduMEET – status May, 28th 2026

- **33 federated media nodes**
  - NORDUnet (Denmark, Finland, Norway, Sweden, Iceland): 16
  - PIONIER (Poland): 7
  - GARR (Italy): 3
  - KIFÜ (Hungary): 2
  - URAN (Ukraine): 1
  - FCCN (Portugal): 1
  - ARNES (Slovenia): 1
  - Germany: 1 (commercial)
  - Finland: 1 (commercial)
- New NRENs wanting to join
    - ASNET (Armenia)
    - ACONET (Austria)



## FeduMEET results

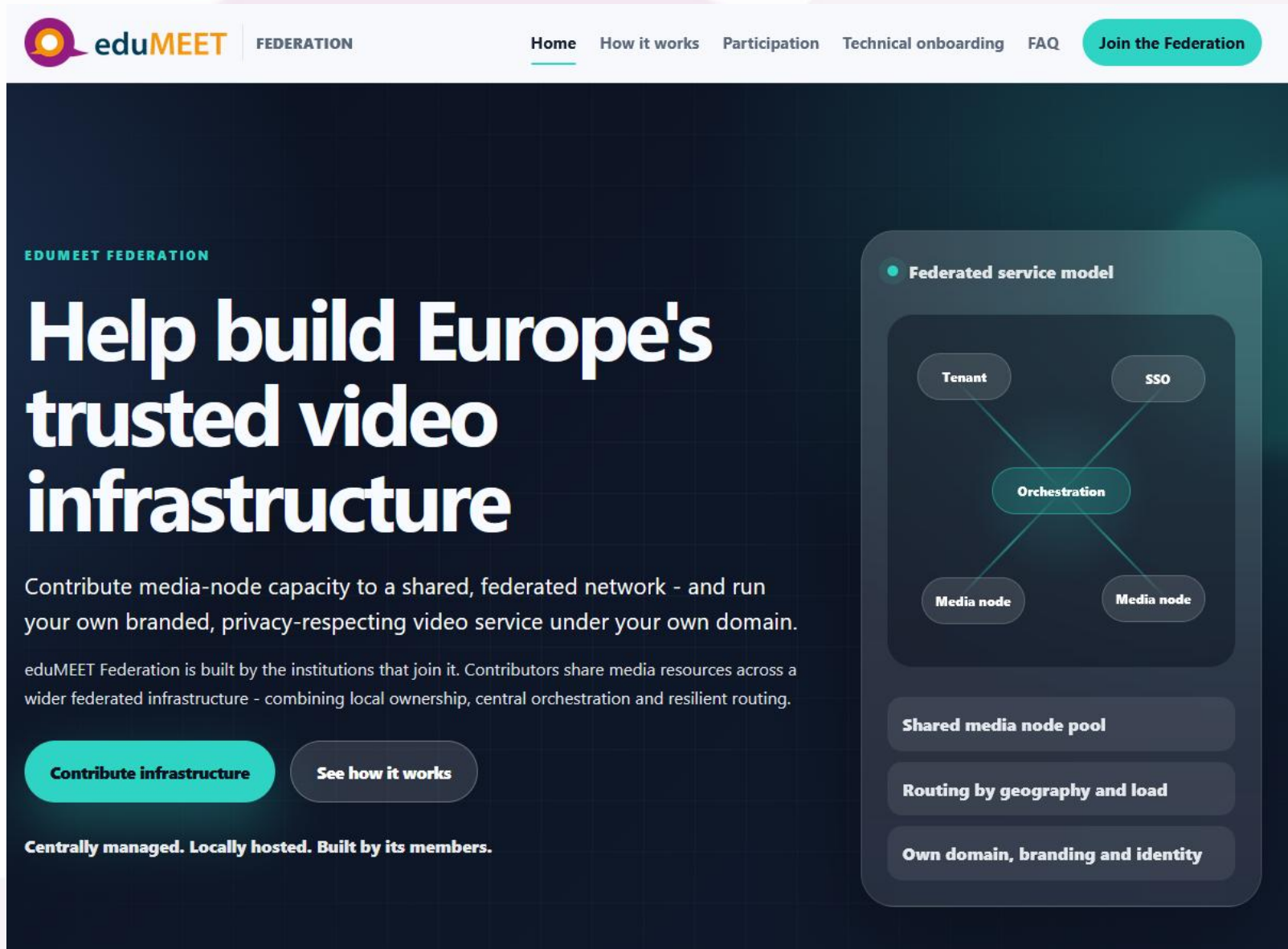
- 16 Institutions / Domains

- meet.edumeet.eu
- edumeet.pcsc.pl
- edumeet.uz.zgora.pl
- edumeet.uran.ua
- edumeet.biaman.pl
- edumeet.fccn.pt
- edumeet.pcz.pl
- ndn.edumeet.nordu.net
- deic.edumeet.nordu.net
- funet.edumeet.nordu.net
- rhnet.edumeet.nordu.net
- sikt.edumeet.nordu.net
- sunet.edumeet.nordu.net
- fed.edu.meet.garr.it
- edumeet.arnes.si
- edumeet.polsl.pl

- FeduMEET in numbers

- Time frame – **2026-01-01 - 2026-05-28**
- Number of meetings – **6 472**
- Connected users – **23 847**
- Largest meeting – **63**

# edumeet.eu – eduMEET federation



The screenshot shows the website for the eduMEET Federation. At the top left is the logo, which consists of a stylized orange and purple circle next to the text "eduMEET" in orange and "FEDERATION" in grey. To the right of the logo is a navigation menu with links for "Home", "How it works", "Participation", "Technical onboarding", and "FAQ". A prominent teal button labeled "Join the Federation" is located in the top right corner.

The main content area has a dark blue background. It features the heading "EDUMEET FEDERATION" in small teal letters, followed by a large white headline: "Help build Europe's trusted video infrastructure". Below this is a paragraph: "Contribute media-node capacity to a shared, federated network - and run your own branded, privacy-respecting video service under your own domain." A second paragraph explains: "eduMEET Federation is built by the institutions that join it. Contributors share media resources across a wider federated infrastructure - combining local ownership, central orchestration and resilient routing." Two buttons are provided: a teal "Contribute infrastructure" button and a grey "See how it works" button.

At the bottom of the main content area, the text reads: "Centrally managed. Locally hosted. Built by its members."

On the right side of the page, there is a section titled "Federated service model" with a teal dot. It contains a diagram showing a central teal oval labeled "Orchestration" connected by teal lines to four surrounding grey ovals: "Tenant" (top left), "SSO" (top right), "Media node" (bottom left), and "Media node" (bottom right). Below the diagram are three stacked grey rounded rectangles containing the text: "Shared media node pool", "Routing by geography and load", and "Own domain, branding and identity".

# Thank you!

## Comments? Questions?

[contact@edumeeet.eu](mailto:contact@edumeeet.eu)

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