

quobis: R&D plans focused
on SNS R&I Work
Programme 2024



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Communication technology used by telcos and enterprises is overwhelming complex and increasing year over year.

Quobis defeats this challenge, keeping people **communicating clearly, effectively and intuitively.**



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I want to get **more efficient tools for customer care** by using advanced communications.

Customer care and support

Click to call

In-app communications

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I want to create **new environments**
by adding real-time communication
services for my customers.

Real-time communications and IoT

CPaaS for developers

Embedded communications

Application Server

- REST API management interface
- HA cluster
- Webhooks and ad-hoc features
- Automatic cluster sizing

Media Server

- Recording
- Lawful call interception
- Audio codecs G.711, Opus
- Video codecs H.264, VP8, VP9
- Automatic cluster sizing

Interconnection Broker

- SIP trunk license
- SIP register delegation
- SIP parallel-leg
- Webhooks and ad-hoc features
- Transcoding





Video Call



Voice Call



Chat



Multiparty
comms



Whiteboard



Recording



Presence



Meetings



Forms



Screen
Sharing



File transfer



Data pipe &
datachannel

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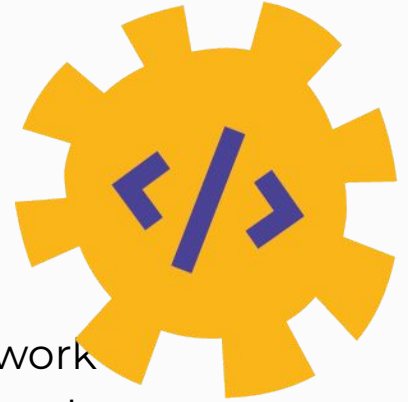
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Quobis platform is being used today for adding voice, video & collaboration on these **scenarios**:

- Private 5G networks
- Critical communications
- Real-time communications & IoT for industry
- Edge computing
- On-prem deployments
- Use cases with limitations due legal compliance
- etc.

Our R&D colleagues are working on....

- **Artificial intelligence** applied to video manipulation
- AI applied to voice transcription
- **Prioritization of emergency media** flows over congested network
- Management of real-time communication alarms. Intelligence to avoid false positives
- **Security** on real-time voice & video. Content protection, ciphering and attack protection.
- **Machine learning** applied to real-time communications routing
- Use of datachannel for **machine control** (servo, drone camera, etc).



Addressing challenges of **2024 SNS R&I Streams B & D** like:

- **Security** in time sensitive (low latency) applications
- AI for platform deployment on 6G networks
- Real-time communications as a **test-bed for 6G KPI**
- **Digital twinning** for service enablement in 6G
- Verticals
 - Real-time media-based monitoring in connected cars
 - 6G multimedia for eHealth and education

HORIZON-JU-SNS-2024-STREAM-B

01-01: System Architecture

01-03: Communication Infrastructure Technologies and Devices

01-04: Reliable Services and Smart Security

01-08: Reliable AI for Reliable Communications Systems and Services

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01-01: SNS Large Scale Trials and Pilots (LST&Ps) with Verticals



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