# Smart Networks and Services Joint Undertaking

## SNS Call 3 Webinar 2/2

***STREAM-B-01-05: International Collaboration – EU-JP***
***STREAM-B-01-06: International Collaboration – EU-ROK***

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17 February 2025

# STREAM-B-01-05: International Collaboration – EU-JP

**Scope & Orientations:**

Target collaboration with Japan (EU-JP Digital Partnership) and develop native and privacy-preserving AI platforms relating to research and innovation work in Japan

- Develop AI-enabled radio access network (RAN) solutions
- Leverage the Open RAN/virtualisation experience of Japan towards interoperability alignment of architecture approaches in EU and Japan
- Develop streamlined views on the use of AI/radio interface
- Contribute to data sets framework and data access (tools and algorithms for efficient new AI/ML solutions)
- Availability of data sets to validate AI approaches and inference rules; Generation and exchange of data across EU-Japan stakeholders where appropriate
- Validation of AI techniques over experimental platforms
- Provide impactful contributions to standardization bodies

# STREAM-B-01-05: International Collaboration – EU-JP

**Expected outcome:**

- EU-JP collaboration for the evolution of Radio Access Networks (RAN) paving the way for future advancements towards AI-native radio access networks
- Development, testing and evaluation of AI/ML algorithms for wireless networks
- Proof of concept architecture framework for future 6G RAN
- Alignment of views on radio interface concepts for future exploitation in international standardization
- Contributions to standardization bodies and fora (open standards and interoperability) including ITU-T, ITU-R and 3GPP

# STREAM-B-01-05: International Collaboration – EU-JP

| Project Number | Project Acronym | Project Duration | Project Total Costs | Project Requested EU Contribution |
|---|---|---|---|---|
| 101192369 | 6G-MIRAI | 36 | € 3,188,935.00 | € 2,979,966.50 |

**Expected TRL: 2-4**

**SNS JU project to work with relevant JP funded initiatives**

# STREAM-B-01-06: International Collaboration – EU-ROK

**Scope & Orientations:**

Focus on Radio Access Networks (RAN) and on integrated device-network approach considering ROK's terminals and devices industry capabilities.

- Develop algorithms for 6G RAN to improve transmission performance and reduce complexity in wireless transmission
- Develop procedures and protocols empowered by AI to improve efficiencies of the wireless communications
- Definition of architectural framework addressing interoperability needs for integrated device-network approaches (AI/ML mechanisms with 6G functional properties
- Design RAN side able to deliver to terminals using AI solutions for demanding 6G application and services
- Streamline views on the use of AI and extensions on the radio interfaces

# STREAM-B-01-06: International Collaboration – EU-ROK

**Expected outcome:**

- EU-ROK research collaboration targeting Radio Access Networks (RAN) and integrated device-network approaches towards AI-native radio access networks
- Application of AI/ML algorithms to wireless networks for the automation of base station management and user terminal traffic
- Definition of an architecture framework addressing interoperability needs for future 6G products
- Contribution to interoperability specifications through standardization activities for existing and new interfaces
- Alignment of views on radio interface concepts to support demanding 6G applications and services for future exploitation in international standardization.

# STREAM-B-01-06: International Collaboration – EU-ROK

| Project Number | Project Acronym | Project Duration | Project Total Costs | Project Requested EU Contribution |
|---|---|---|---|---|
| 101192194 | 6GARROW | 36 | € 3,107,180.06 | € 2,999,947.00 |

**Expected TRL: 2-4**

**SNS JU project to work with relevant ROK funded initiatives**

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# THANK YOU FOR YOUR ATTENTION

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