



Experience in 5G/6G & Security/Blockchain/IoT Projects

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BEIA

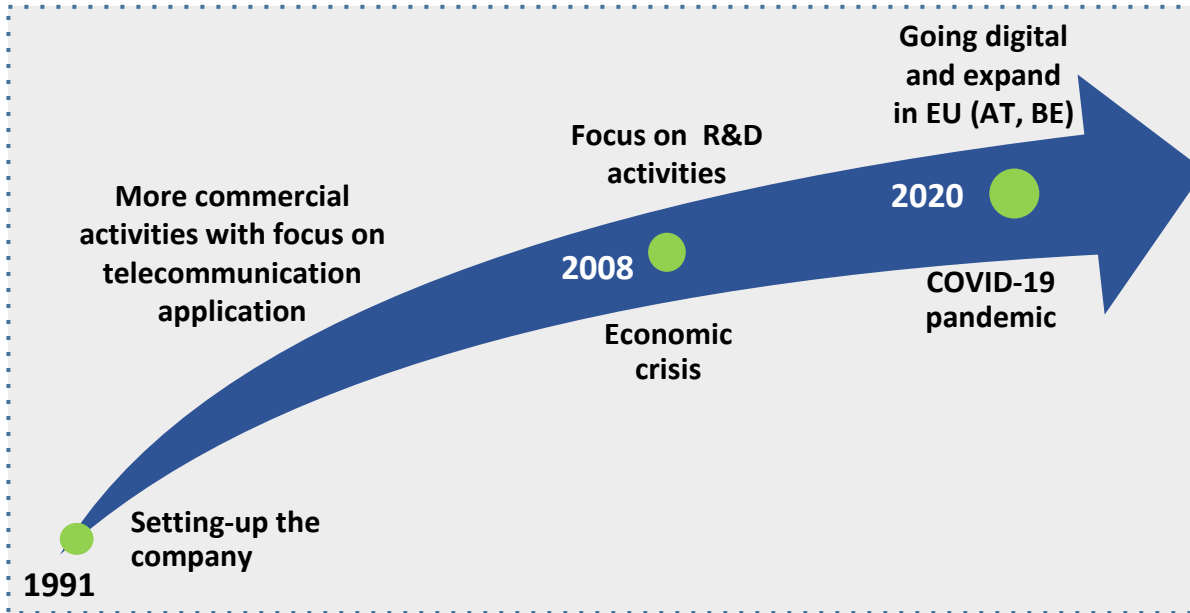
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General Business Description



BEIA team

90+ professionals

- 30 engineers, 10 technicians
- 20 R&D employees (5 Prof, 5 PhD, 4 medical doctors)
- 12 in sales and marketing
- 5 in economic, HR& management

R&D projects (over 100 projects)

EU - Horizon, Eureka Clusters, ERA-NET, Eureka network, Eurostars, etc.

National – National Research Programs, Operational programs, etc.

- Our Mission is to support our clients' businesses through providing them with **best IT&C solutions at unbeatable prices**
- After more than 35 years in the IT & telecommunications business we have gained our clients' confidence and appreciation
- Over 9500 turn-key projects with complex customer integration and user requirements
- BEIA is authorized partner for: **Alcatel-Nokia, Aspect, D-Research, Exalead / 3DS.com, Ericsson, InVision, Voxtron/Enghouse, Dialogic, Five9, Gigaset, Siemens, Mitel, Dasan Electron, FMT, Panasonic, Samsung, Schneider-Electric**



Business Description

Financial management

- ERP tools: Zoho, ERP5, etc.
- Accounting templates (H2020): Excel, ENOVIA

Administrative management

- Conference call and web collaboration tools: Circuit.com, own PBX (ISDN/SIP/WebRTC) with encryption using Secuvoice, WebEx, GotoMeeting, Skype, etc.
- Document templates, sharing and versioning: ENOVIA, OwnCloud, GitLab, etc.

Dissemination management

- Social media engagement, analysis and dissemination tracker tools: Aspect.com, Netvibes.com
- CMS website (Drupal, WordPress, Wiki, etc.), logos, posters, mailing lists, brochures, conference papers, questionnaires, fairs, press releases, videos

R&D management

- Open source mobile applications
- M2M/IoT Sensor networks for real-time monitoring (transport traffic, infrastructure, seismic activity, radioactivity, tsunamis, marine/maritime activities, floods, air quality, etc.)
- E2E security (Blockchain, cybersecurity)
- 4G/5G/6G & Satellite offloading
- Big data (Earth observation, WSN, social media)
- Cloud computing
- Living Lab



Partnerships

- Partners in Romanian R&D:
 - Research and Academia
 - University "POLITEHNICA" of Bucharest (www.upb.ro)
 - Constanta Maritime University (www.cmu-edu.eu)
 - Ovidius University of Constanta (www.univ-ovidius.ro)
 - Research Institute for Artificial Intelligence at the Romanian Academy (www.racai.ro)
 - Romanian Space Agency (www.rosa.ro)
 - National Institute for Research and Development in Electrical Engineering (www.icpe-ca.ro)
 - National Institute of Aerospace Research "ELIE CARAFOLI" (www.incas.ro)
 - National Institute for Research and Development in Informatics (www.ici.ro)
 - Institute for Research and Development in Automation (www.ipa.ro)
 - The Romanian Academy – "Stefan S. Nicolau" Institute of Virology (www.virology.ro)
 - University of Medicine and Pharmacy "Carol Davila" Bucharest (www.umfcd.ro)
 - University of Agronomic Sciences and Veterinary Medicine of Bucharest (www.usamv.ro)
 - Research and Development Institute for Industrializing and Marketing Horticulture Products "HORTING" (www.horting.ro)
 - National Institute for Research and Development in Microbiology and Immunology for the Military (www.cantacuzino.ro)
 - critical infrastructure operators "**CI**"
 - telecom, finance, food, energy (DSO, SG/RES/ESS, EV/PV, nuclear), water (ports, shipping), transport (metro/railway), chemical industry, RI, etc.
 - first responder organizations "**FRO**"
 - firefighters, ambulance, red cross, volunteer organizations, SMURD, forensic investigators, crime scene investigators, CERT/CSIRT, etc.
 - law enforcement agencies "**LEA**"
 - police, border guard, customs, environmental guard, coast guard, ports administration, STS, SPP, SRI, other authorities from the Ministry of Interior, Ministry of Defense, etc.
- Founding Member in the Directory Council of the German-Romanian Chamber of Industry and Commerce (AHK-Deutsch-Rumaenische Industrie- und Handelskammer) and member of other Chambers of Commerce
- Leader of NEM Romanian Mirror Group (www.nem-pt.ro) and ARTEMIS
- Member of Romanian Association for Electronic and Software Industry (ARIES), Electronic Innovation Cluster (ELINCLUS), MHTC, DRIFMAT, ICONIC, IND-AGRO-POL, ROHEALTH, H2ROMANIA, PROECO – CBRNE, EARSC, ITEA, Celtic, 5G-PPP, PATROMIL, PRO-NZEB, AIOTI, BDVA, 6G-IA, etc.

HORIZON-JU-SNS-2026

HORIZON-JU-SNS-2026-STREAM-B-01 - Collection, Generation and Validation of Datasets suitable for training AI Models for 6G Networks and for AlaaS

- Deployment of real-world data collection infrastructures using BEIA's IoT, sensing, and telecom monitoring platforms to gather high-quality datasets reflecting realistic user density, mobility, traffic patterns, and network conditions
- Generation of synthetic and hybrid datasets by integrating BEIA's experience with digital twins, emulators, and high-TRL experimental platforms to complement real data and cover rare or extreme 6G scenarios
- Validation and quality assurance pipelines for ensuring dataset completeness, consistency, annotation quality, and suitability for training operational AI models in 6G environments, matching the call's requirement for curated, high-quality datasets
- AI/ML model benchmarking support through BEIA's expertise in cloud-native architectures and distributed analytics, enabling assessment of dataset usefulness for AI-native 6G architectures and future standardisation activities
- Vertical-specific data integration leveraging BEIA's strong footprint in energy, agriculture, smart cities, and industrial IoT to provide realistic cross-vertical traffic patterns and application-level datasets, which the call explicitly encourages
- Contributions to SDOs, international d&c, community building

HORIZON-JU-SNS-2026-STREAM-C-01 - SNS experimental infrastructure

- Integration of IoT, sensing, and edge-cloud platforms into the 6G experimental infrastructure, enabling realistic end-to-end validation of key 6G technologies across heterogeneous environments
- Deployment of vertical-specific test environments (energy, agriculture, smart cities, industrial IoT) to enrich the infrastructure with real-world traffic patterns and application scenarios
- Provision of automation, monitoring, and benchmarking tools leveraging BEIA's cloud-native analytics expertise to support KPI/KVI measurement, reporting, and repeatable experimentation workflows across the federated infrastructure
- Support for living-lab integration and validation of selected Stream B technologies, offering testbed extensions, data pipelines, and orchestration components under realistic 6G conditions
- Contribution to open, accessible, and evolvable platform design, including well-documented APIs, interoperability layers, and security-by-design mechanisms to ensure long-term reusability

HORIZON-JU-SNS-2026-STREAM-CSA-01 - SNS Operations and Output optimisation

- Programme-level data collection, analytics, and KPI/KVI monitoring BEIA can deploy its cloud-native analytics pipelines to support structured collection, harmonisation, and interpretation of data from all SNS JU projects
- With strong experience in multi-partner EU projects, BEIA can contribute to mapping, clustering, and synthesising results across SNS phases
- Contributions to SDOs, international d&c, community building

HORIZON-JU-SNS-2026-STREAM-CSA-02 – 6G Devices

- Contribute to surveying, analysing, and mapping Europe's current device-related industrial capabilities
- Provide concrete requirements and use-case-driven insights to support the roadmap's focus on vertical markets and downstream production volume (strong presence in energy, mobility, agriculture, smart cities, and industrial IoT)
- Support for defining end-to-end device–network interoperability strategies and contribute to analysing device–network integration challenges (including RedCap, NTN, Wi-Fi coexistence)
- Help map industrial capabilities, identify bottlenecks, and propose actions—supporting the call's requirement to strengthen EU microelectronics and align with initiatives such as Chips JU
- Contributions to SDOs and international d&c

HORIZON-JU-SNS-2026-STREAM-CSA-03 – EU-India International Collaboration

- Support joint workshops, bilateral technical exchanges, and cross-regional working groups by providing expertise in IoT, AI-driven networks, and vertical integration
- Provide concrete use-case requirements and technology insights that feed into comparative analyses of EU vs. global 6G priorities with experience across multiple verticals (energy, agriculture, mobility, smart cities, industrial IoT)
- Help prepare contributions to SDOs (ETSI, 3GPP, ITU-R), coordinate inputs from EU projects, and track global standardisation trends
- Contribute to systematic monitoring of international R&I programmes, industrial developments, and policy frameworks, producing structured intelligence reports
- Contributions to SDOs, international d&c, community building

Security & 5G/6G Related R&D PROJECTS

- **PASITHEA:** A Hybrid Autonomous Unmanned Vehicle system opening new horizons in conducting military operations in the marine environment (EDF)
- **GeoSpectrum:** Dynamic Spectrum Access System based on Geolocation Databases (PED)
- **CHRISS:** Critical infrastructure High accuracy and Robustness increase Integrated Synchronization Solutions (HORIZON CL4 EUSPA-2021-SPACE-02-52)
- **MOBILISE:** A novel and green mobile One Health laboratory for (re-) emerging infectious disease outbreaks (HORIZON EUROPE CL3)
- **FLEXI-CROSS:** Flexible and Improved Border-Crossing Experience for Passengers and Authorities (HORIZON EUROPE CL3)
- **RITHMS:** Research, Intelligence and Technology for Heritage and Market Security (HORIZON EUROPE CL3)
- **SOLID-B5G:** A Massive MIMO Enabled IoT Platform with Networking Slicing for Beyond 5G IoV/V2X and Maritime Services (EEA)
- **VITAL-5G:** Vertical Innovations in Transport And Logistics over 5G experimentation facilities (H2020 ICT-41)
- **SARWS/5G-SAFE-PLUS:** 5G Enabled Road Safety Services (Celtic)
- **FLEXNET/IMMINENCE:** Intelligent Management of next generation Mobile Networks and services (Celtic labelled)
- **NGI-UAV-AGRO:** Next Generation Internet based on 5G and UAV for precision agriculture (PED), 2020-2022;
- **FOR-FREIGHT:** Flexible, multi-modal and Robust FREIGHT Transport (HORIZON EUROPE CL5)
- **CyberSec2SME/SecureIT - CONTINUOUS CYBER SECURITY AUDIT** (H2020 open call)
- **CISSAN:** Collective intelligence supported by security aware nodes (Celtic)
- **COMET:** Communications Enabled, AI/ML based Digital Twins for Smart city Logistics and Last Mile applications (Celtic)
- **i2D-MSW:** intelligence to Drive | Move-Save-Win (Celtic)
- **AICom4Health:** AI-Powered Communication for Health Crisis Management (Celtic)
- **F4iTECH:** Federated AI Platform for Industrial Technologies (Celtic)
- **USWA:** Ultra Scalable Wireless Access (Celtic)
- **smarTravel:** Smart Travel Digital Ecosystem (Celtic)
- **DISTINGO:** RECONFIGURABLE SMART LOCKERS - DISTRIBUTORS INTELLIGENTLY RECONFIGURABLES (Celtic)