Partner search

Company: Diagnext **CNPJ: 10788723000150**	
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Short Company presentation

(R & D guidelines, international activities, etc.)

DIAGNEXT is a Brazilian technology company specialized in digital health, telecommunications, data optimization, and mission-critical information systems. Founded in 2009, the company develops proprietary technologies focused on reducing the barriers imposed by distance, limited connectivity, and high operational costs in healthcare and digital infrastructure environments. Its solutions have been deployed in large-scale public and private healthcare networks, particularly in remote and underserved regions. The company maintains continuous R&D activities in data compression, medical imaging, telecommunications, artificial intelligence, edge computing, and digital health interoperability. Its innovation portfolio includes multiple patented technologies related to data transmission, adaptive compression, and communication optimization. Diagnext has participated in international innovation initiatives, technology transfer projects, healthcare digitalization programs, and collaborative activities involving industry, government, healthcare providers, and research institutions. The company maintains long-term partnerships with global technology organizations and actively pursues international cooperation opportunities to expand the impact of its solutions. Its mission is to enable secure, efficient, and sustainable access to digital services, healthcare, and knowledge, regardless of geographical limitations.

DESCRIPTION OF ITS TECHNOLOGY AND CAPABILITIES IN R & D

(Products, technologies, applications, services, etc.)

Diagnext develops proprietary technologies and conducts applied research in the following areas:

- Adaptive Data Compression and Optimization Development of intelligent algorithms capable of reducing storage and transmission requirements for medical images, documents, videos, audio files, and large datasets while preserving information quality and integrity.
- Medical Imaging and Digital Health Research and development of solutions for DICOM imaging workflows, PACS/VNA environments, tele-radiology, tele-pathology, and healthcare interoperability. Technologies are designed to support hospitals, diagnostic centers, and large-scale healthcare networks.

- Telecommunications and Connectivity Design of advanced communication architectures capable of operating efficiently in challenging environments, including remote regions with limited bandwidth. Technologies include adaptive transmission, multi-link communication, network optimization, and resilient communications.
- Artificial Intelligence and Edge Computing Development of AI-enabled solutions for healthcare and mission-critical environments, including image analysis, workflow optimization, distributed processing, and edge-based decision support.
- Digital Preservation and Data Lifecycle Management Research into long-term storage optimization, intelligent archiving, and sustainable management of large digital repositories.
- Emerging Research Areas Current R&D activities also include advanced compression models for genomics, large-scale scientific datasets, multimedia content, and next-generation digital infrastructure.

The company's technologies have applications in healthcare, public services, telecommunications, smart infrastructure, digital preservation, defense-support environments, and data-intensive industries. Diagnext's R&D approach combines applied research, real-world validation, intellectual property generation, and international collaboration, enabling the development of scalable solutions with global market potential.

PROPOSED COLLABORATIVE PROJECT IN R & D

(As much detail as possible, both in what it offers and what you want in a potential partner)

The proposed collaborative R&D project aims to develop a next-generation platform for intelligent data optimization, transmission, and management in bandwidth-constrained and data-intensive environments. The project will combine adaptive compression technologies, artificial intelligence, edge computing, telecommunications, and digital infrastructure to significantly reduce storage, transmission, and operational costs while preserving information quality and usability. Technology Offered to International Partners Diagnext offers expertise and proprietary technologies in:

- Adaptive data compression and optimization for medical imaging, documents, video, audio, and large datasets.
- Intelligent data transmission and communication optimization for remote, mobile, and bandwidth-constrained environments.
- Digital health platforms supporting telemedicine, medical imaging workflows, healthcare interoperability, and distributed healthcare networks.
- AI-assisted edge computing architectures for processing and decision support closer to the point of data generation.
- Real-world experience deploying solutions in geographically challenging environments, including large-scale healthcare networks and remote operations. Technology and Capabilities Sought from International Partners

Diagnext is interested in collaborating with partners that can contribute expertise in one or more of the following areas:

- Artificial Intelligence and Machine Learning.
- Medical imaging and advanced healthcare technologies.
- Telecommunications and next-generation communication systems.
- Edge computing and distributed processing architectures.
- Cloud and hybrid infrastructure platforms.
- Cybersecurity and secure digital infrastructures.
- Genomics, bioinformatics, and large-scale scientific data management.
- Digital twins, predictive analytics, and advanced simulation environments.

Potential Applications. The resulting technologies may be applied to:

- Healthcare and medical imaging networks.
- Telemedicine and remote care systems.
- Smart cities and critical infrastructure.
- Digital preservation and archiving.
- Scientific and research data management.
- Emergency response and disaster resilience systems.
- Remote and underserved regions requiring efficient digital connectivity. Expected Outcomes

The project seeks to generate jointly developed intellectual property, new products and services, international pilot deployments, scientific and technical cooperation, and commercialization opportunities in global markets. Diagnext is open to participating as technology developer, pilot implementation partner, validation partner, or co-developer within international R&D consortia.

General comments:

- By sending this information document authorizing its dissemination.
- A company profile must be attached or a link to the company's website must be provided: https://www.diagnext.com/