

A Korean Artificial Intelligence company with patented, Neural Data Networks technologies (data object hypergraph) along with AI data storage and management platform is looking for investors/partners

## Summary

Profile type

**Technology offer**

Company's country

**South Korea**

POD reference

**TOKR20230724001**

Profile status

**PUBLISHED**

Type of partnership

**Investment agreement**

**Research and development  
cooperation agreement**

**Commercial agreement with  
technical assistance**

Targeted countries

• **World**

Contact Person

**Rita ELSTE - TOMSONE**

Term of validity

**24 Jul 2023**

**23 Jul 2024**

Last update

**24 Jul 2023**

## General Information

### Short summary

The company's main offering is Neural Data Networks (Hypergraph) technology, the "A.I. Brain Storage", a universal data storage, management, organization, search, & analysis platform via data neural networks technology - based on patented hypergraph object database technology - which allows for human brain-like, semantic access to all data, by context and based on relationships.

### Full description

Neural Data Networks (Hypergraph) technology not only brings drastic productivity improvements associated with various data assets on a legacy level but also enables innovative AI features as well as future expansion capabilities - all while maintaining full ownership, maximum security, and privacy. It is possible to search and locate any data asset by meaning and context, rather than by obsolete file names or folders while wasting time. Confusion over duplicate files, attachments, or version differences no longer exists since they're managed and automatically incorporated/tracked. What's more, intelligent universal query allows analysis and understanding of holistic data assets - across previously incompatible silos, such as services, applications, and data formats.

Neural Data Networks technology can be applied as an innovative data science tool, a new service platform for ISPs and Telcos, Internet-enabled devices products - as well as any organizations in need of managing or understanding

large/complex data assets such as documents, research/technical data, various media, and so on.

The company's main offering is Neural Data Networks (Hypergraph) technology, the "A.I. Brain Storage", a universal data storage, management, organization, search, & analysis platform via data neural networks technology - based on patented hypergraph object database technology - which allows for human brain-like, semantic access to all data, by context and based on relationships. The technology is offered as both software as well as service that's offered as part of a decentralized platform; Customers or partners can install and operate it on-premises for in-house use, offer it as a hosted service to other customers, or even embed the technology in hardware products.

The technology enables the next level of digital transformation by uniting all kinds of data across all the silos - different platforms, OSes, applications, devices, and data/file types. Users get not only significant productivity gains - from cutting down on wasted time/efforts in searching, organizing, and sharing data - but also newly enable innovative data comprehension and utilization (1) through universally, semantically, and contextually connecting all the data, and (2) through making all such data A.I. friendly.

What's more, being a decentralized, federated platform means you can retain and physically own all your data and maximize security as well as privacy protection for your own and customers' data.

---

### Advantages and innovations

#### NDN(=Neural Data Networks)

- Productivity Gains in Legacy Settings

Unlike traditional folder-centric, app-centric storage paradigms, NDN allows a comprehensive data management framework that universally encompasses files, non-files, and even streaming data. Also, all is organized and searched by meaning, context, and relationships just like a human brain. So unlike typical users spending up to 15-30% of their work hours searching for information, this new technology avoids wasting time. Plus, other productivity losses, involving duplicates, attachments, and multiple versions no longer pose issues.

- Advanced AI Capabilities (Current & Future)

Since NDN technology uniquely enables intelligent, extensive, and universal access and management of comprehensive data assets, it can even handle commands such as: "Jarvis, show me last year's sales report!" when the document's name is NOT "last\_years\_sales\_report.xls", but instead any of "2022 Sales Analysis[.]", "Sales Performance Results for 2022", or simply, "Sales Doc" with associated metadata as "2022" and "results".

- Ownership, Security & Privacy

While other AI technologies such as ChatGPT and LLMs allow queries on "general" facts and figures, they rarely are trained on-or-have access to any organization's internal data for obvious reasons. It's not only hard to effectively train any ML/DL or LLM technologies such as ChatGPT with small or limited data sets. But more crucially, much of internal data can be proprietary and/or sensitive. Handing over data as input to such AI technologies means they can be retained, replicated, or leaked. It is because these technologies are centralized external entities.

On the contrary, NDN technologies are designed to be a decentralized platform; meaning that all the data intelligence features of the platform are available - while the user still retains full control and ownership over one's proprietary and sensitive data. Whether it be on-premises or a dedicated cloud platform.

### Technical specification or expertise sought

#### Stage of development

**Available for demonstration**

#### IPR Status

**IPR granted**

#### Sustainable Development goals

• **Goal 9: Industry, Innovation and Infrastructure**

## Partner Sought

#### Expected role of the partner

Looking for Enterprises, industries, and research institutes - especially in High-Tech, IT, Internet, Telecom, ISPs, and

IT devices manufacturers.

Also, Enterprises, industries, and research institutes in Artificial Intelligence-related fields

The proposed cooperation plan is as follows:

- License-Royalty payment for patent rights, copyrights, and trademark rights
- Technology Sales/Service
- Technology Partnership (Platform Services) Consulting, Hosting, Cloud Services - especially ISPs, Broadband, or Telecommunications Operators
- Technology Partnership (Hardware Devices) Manufacturing and/or Sales, Distribution
- Joint Research/Development of A.I. technologies, products, and services - especially focused on AGI

Type of partnership

**Investment agreement**

**Research and development cooperation agreement**

**Commercial agreement with technical assistance**

Type and size of the partner

• **Big company**

• **SME 11-49**

• **University**

• **R&D Institution**

• **SME 50 - 249**

• **Other**

## Dissemination

Technology keywords

- **01003003 - Artificial Intelligence (AI)**
- **01003010 - Databases, Database Management, Data Mining**
- **01003008 - Data Processing / Data Interchange, Middleware**

Targeted countries

- **World**

Market keywords

- **02007008 - Business and office software**
- **02007001 - Systems software**
- **02007016 - Artificial intelligence related software**
- **02007007 - Applications software**
- **02007002 - Database and file management**

Sector groups involved