DGS
EMBRACE INNOVATION

R&D Expertise & Interests

Healthcare Innovation & Strategic Technologies

Company profile

DGS Group

EMBRACE INNOVATION

€400M
REVENUE IN 2025
(+25% YOY)

2.7k+
PROFESSIONALS
- 28% WOMEN
- 500 NEW HIRES/Y

500+
PROFESSIONALS
- CYBERSECURITY

500+
PROFESSIONALS
- DATA & AI

3
PROPRIETARY ASSETS
- PHYSICAL AI INNOVATION LAB
- X-SOC
- LEARNING HUB

DGS ECOSYSTEM

30	OFFICES IN ITALY
12	GROUP COMPANIES
15+	PROPRIETARY SOLUTIONS

MARKET INFLUENCE

29	YEARS OF GROWTH
1.2k+	GROUP CLIENTS
40+	STRATEGIC PARTNERS

COMPETENCES & INNOVATION

2.5k+	TECH CERTIFICATIONS
15	HUBS & R&D LABS
90+	RESEARCHERS & DATA SCIENTISTS

a.i. gen. A DGS COMPANY · ALLOS · ARIADNE DIGITAL · In.App INNOVATESAPP A DGS COMPANY · PORINI A DGS COMPANY · SMC A DGS COMPANY · VISTA TECHNOLOGY · We Do ADVISORY

What we do

EMBRACE INNOVATION

CLIENTS

INDUSTRIAL MACHINERY | CONSUMER MARKET | ENERGY & UTILITIES | PUBLIC ADMINISTRATION | HEALTH | TRANSPORTATION | AEROSPACE & DEFENCE | FINANCIAL & INSURANCE SERVICES

OUR STRATEGIC OFFERING

CYBERSECURITY

- Cyber advisory services
- Managed security services
- Customized solutions

AI & DATA SENSE

- AI Data solution
- Data marketing
- Physical AI

SMART ENTERPRISE PLATFORM

- Application modernization & OPs
- Core enterprise application
- Enterprise architecture

DIGITAL ENGINEERING

- Product lifecycle management
- Supply chain
- Industrial IoT

EXTENDED CYBERSECURITY SERVICES XSOC | **MANAGEMENT CONSULTING** | **R&D – AI INNOVATION LABS** | DGS LEARNING HUB

STRATEGIC ALLIANCES

CYBERSECURITY STRATEGIC VENDORS

Microsoft | SAP | servicenow | Liferay | NVIDIA UPCOMING

PROPRIETARY FRAMEWORKS & PRODUCTS

ARMONISYA A DGS IDENTITY SECURITY SERVICE | Learning Planner 360 | Strategic Core HR | COMPLETE END to END SUPPLY CHAIN | 365 ERP | 4 HR

OpenSquare | DIGITAL Lake | youser ENGAGE | uGeo | UTILITIES | ONEHUB | IMAGINE

EXCELLENCE CENTERS

DGS ALLOS SAP EXCELLENCE — SAP

DGS PORINI MICROSOFT EXCELLENCE — MICROSOFT

DGS SMC OPEN SOURCE EXCELLENCE — OPENSOURCE

DGS BID AI & DATA — DATA & AI

R&D Competence Center

DGS R&D Core Structure

R&D





90+ Researchers



PUBLIC GRANTS

- Horizon 2020
- Horizon Europe
- POR/FESR, PON
- MISE / MIMIT



LABORATORIES

- Roma, Napoli
- Bari-Foggia
- Milano, Torino
- Genova-Savona
- Treviso, Trieste



COLLABORATIONS

National &
International RTOs
and Universities



TECHNOLOGIES

- AI, GenAI
- Physical AI
- BlockChain
- Cloud / IoT
- IT Security
- AR/VR, Digital Twin



TOPICS

- Industry
- Healthcare
- Energy
- AgriFood
- Security

Main research projects in Healthcare (1/2)

AI-SCORE: Artificial Intelligence – Sars Covid Risk Evaluation (2020-2021)
System to calculate - for each individual the probability of developing the most severe forms of Covid-19 on the basis of a series of clinical and diagnostic indicators.

AIPHD: AI for Preventing Heart Disease (2023-2025)
Clinically-ready AI solution to drive a personalized approach in patients with non-obstructive cardiovascular disease. This solution will support clinical decision-making in the diagnostic and prognostic evaluation to improve mortality and morbidity.

D3-4-HEALTH: Digital Driven Diagnostics, prognostics and therapeutics for sustainable Healthcare (2023-2026)
Application of precision medicine approaches through novel AI-powered algorithms, mathematical models and medical devices for the benefit of patients in the following pathologies:colon & liver & central nervous system cancers, diabetes and multiple sclerosis

CaReMAM: Personalized Care and Recovery after breast tumor removal (2024-2025)
Rehabilitation and remote assistance of patients following the removal of breast cancer

Main research projects in Healthcare (2/2)

ART-LANE: ART to Lower ANxiety in Elderly (2026-2028)
Create a modular AI-driven digital platform combining anxiety assessment, biofeedback, and personalized immersive creative experiences.

REGAIN: AI-driven Rehabilitation of Balance and Gait after Stroke (2026-2028)
Develop and validate an AI-based digital platform for continuous, personalized monitoring of post-stroke recovery by integrating clinical and multimodal sensor data.

GENIAL: Governance e pianificazione di servizi assistenziali Integrati basate su Appropriatezza clinica e ottimizzazione dei Livelli di assistenza (2026-2029)
Support the shift toward sustainable, resilient, and preventive personalized healthcare by addressing aging population challenges, while developing a regional “SOVRA-CUP” system to optimize care access and scheduling.

SEPSIS_AI: Sistema Esperto Predittivo per la Sorveglianza Intensiva della Sepsi con Intelligenza Artificiale
Develop an AI-driven model for early sepsis detection in critically ill patients, using pre-hospital, clinical, diagnostic, and physiological data, with retrospective and prospective clinical validation.

R&D Clinical & industrial partners

EMBRACE INNOVATION

UPO
UNIVERSITÀ DEL PIEMONTE ORIENTALE

iit
ISTITUTO ITALIANO DI TECNOLOGIA

CINECA

FONDAZIONE BRUNO KESSLER

UNIVERSITÀ DI TORINO

POLITECNICO DI TORINO

UniSR
Università Vita-Salute San Raffaele

Azienda Ospedaliero-Universitaria Maggiore della Carità Novara
di rilievo nazionale e di alta specializzazione
REGIONE PIEMONTE

CENTRO PUZZLE
centro per traumi cranio-encefalici e gravi cerebrolesioni acquisite

I.R.C.C.S. Ospedale San Raffaele
Gruppo San Donato

Azienda Ospedaliera Universitaria Senese

ISTITUTO DI CANDIOLO-IRCCS

Gemelli
Fondazione Policlinico Universitario Agostino Gemelli IRCCS
Università Cattolica del Sacro Cuore

GRUPPO GHERON S.r.l.
Ci prendiamo cura delle persone.

OSPEDALE POLICLINICO SAN MARTINO
Sistema Sanitario Regione Liguria
Istituto di Ricovero e Cura a Carattere Scientifico

ebit
an Esaote Group Company

SACRO CUORE DON CALABRIA
IRCCS

IEO
Istituto Europeo di Oncologia

Bambino Gesù
OSPEDALE PEDIATRICO

Dedalus

R&D Associations & networks in HEALTHCARE

Fondazione D3-4-HEALTH – **D**igital **D**riven **D**iagnostics, prognosticts and therapeutics **for** sustainable **Health** care

d34health.it Presentation video



Fondazione Piemonte Innova – BioPmed & BioIndustry Park

biopmed.eu bioindustrypark.eu

Poli di innovazione Polo Ligure Scienze della Vita

poloplsv.liguriadigitale.it

Digital Solutions for Healthcare

DGS Skills & Technologies

DGS can offer the following solutions for Healthcare:

AI-powered Cloud Platform

Secure and trustworthy cloud-based system supporting diagnosis and prognosis, for clinical trial application (TRL 7–8). Fully interoperable with standard data formats (FHIR, HL7, PACS, DICOM)

Advanced AI Technologies

Integration of **machine learning**, **deep learning**, **explainable AI** and **federated learning** to ensure privacy-preserving insights across multiple centres

Blockchain for Healthcare

Distributed ledger technologies to ensure data integrity, traceability, and secure sharing of medical information

Cybersecurity & Compliance

End-to-end IT Security services, including risk assessments, vulnerability testing, and compliance with major healthcare data protection standards (e.g., GDPR, ISO)

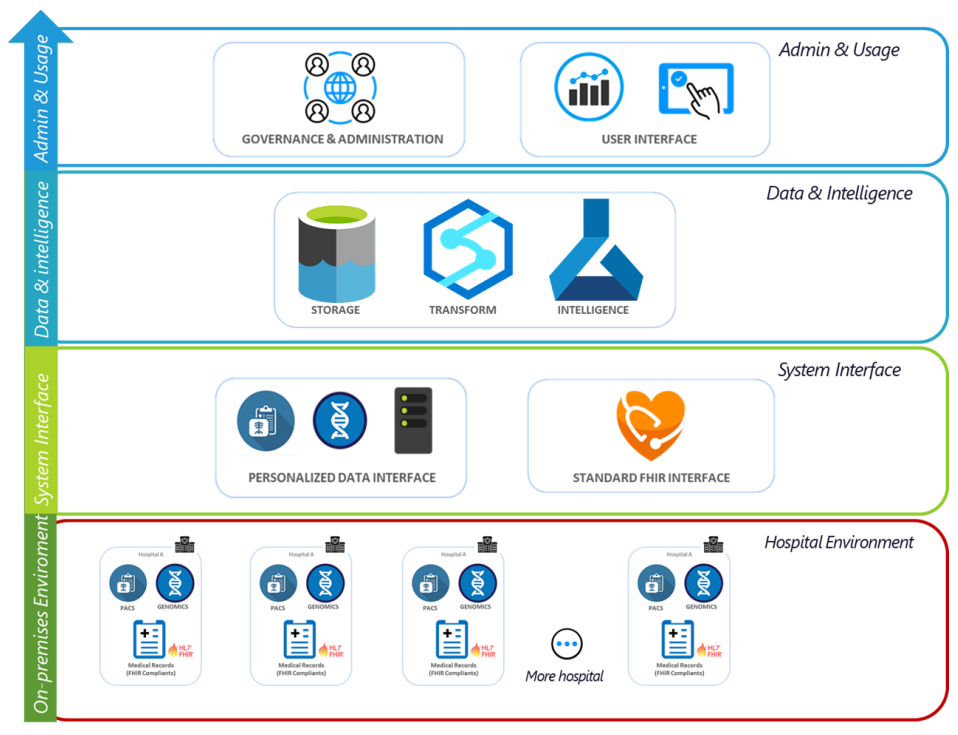
Telemonitoring Solutions

Tools and dashboards for remote patient monitoring, enabling continuous care and early intervention from the patient's home

Generative AI Assistant

Virtual assistants for smart booking and practice management, aimed at optimizing access to healthcare services

DGS eHealth Platform & Use Cases



Platform key features

- **Heterogeneous data integration** (clinical, lab, imaging, radiomics, digital pathology, genomics) following FAIR principles
- AI models with **accuracy above 85%** in reproducing medical diagnosis
- **Trustworthy, GDPR-compliant** analysis on a **cloud architecture**

Pandemics

AI-SCORE* (2020–2021)
Artificial Intelligence – Sars COvid Risk Evaluation

- **AI risk score** of severe COVID-19 from lung CT scans
- Integration with the hospital **DICOM network** and simple app interface
- Data quality & analytics dashboard for clinicians

Oncology

Ai-HOPE
Artificial intelligence for Hospital Oncology Patient suitE

- **AI-based scores** for lung cancer and bone marrow transplant
- Patient data repository incl. **genomics**
- Plug-in AI models to analyze data and provide forecasting treatment outcome

Precision medicine

D3-4-HEALTH
Digital Driven Diagnostics, prognostics and therapeutics for sustainable Healthcare

- AI algorithms, mathematical models and medical devices
- Use Cases: colon, liver & CNS cancers, diabetes, multiple sclerosis
- **Exploitation of a Federated Learning** approach

Cardiovascular

AiPHD (2023–2026)
Artificial intelligence for preventing Hearth Disease

- Clinically-ready AI (**TRL 7–8**) for non-obstructive cardiovascular diseases (CVD)
- Diagnostic & prognostic support to reduce mortality and morbidity
- Data: CCTA imaging, medical history, wearables & mobile app

* Collaboration with San Raffaele Hospital, member of EUHA (European University Hospital Alliance)

DGS mHealth Solution for Rehabilitation

CaReMAM: Personalized Care and Recovery after breast tumor removal (2024-2025)

Solution for **post-operative rehabilitation** of women recovering from breast cancer surgery

AI & wearable sensors
Integrates **AI** and **wearable sensors** to support **personalized, home-based care**

Real-time recovery monitoring
Analyses real-time data from patients and professionals to **monitor recovery**, **adjust rehabilitation programs** and **support clinical decisions**

Patient engagement
Intuitive **mobile interfaces** fostering patient engagement



TRL 6

Technology Readiness Level
Single use case: CaReMAM project (2024–2025)

Conclusion & Possible Collaborations

Collaboration opportunities

DGS is interested in contributing to the following **Horizon Europe Health 2027** calls:

HORIZON-HLTH-2027-02-TOOL-01

Two-stage

Development of predictive biomarkers of disease progression and treatment response by using AI methodologies for chronic non-communicable diseases

HORIZON-HLTH-2027-02-DISEASE-01

Two-stage

Innovative healthcare interventions for non-communicable diseases

HORIZON-HLTH-2027-03-TOOL-04

Virtual Human Twins (VHTs) for integrated clinical decision support in prevention and diagnosis

HORIZON-HLTH-2027-03-TOOL-08

Towards the next generation of frontier Artificial Intelligence models for healthcare

We are looking for a consortium – DGS aims to join as the **technology partner** for these calls

Contacts

Get in touch to explore a collaboration with DGS

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Thank You!

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