This project is co-financed by the European Union
and the Republic of Türkiye

ICTürkiye2025
10 April, İstanbul

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WORKSHOP NAME: Workshop #1-Digital and Smart Health

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İnnova IT Solutions

Innova aims to ***optimize the customer experience*** by providing end-to-end IT solutions with the vision of ***guiding the needs of the industry and customers.***

Innova makes a difference in the digital transformation of companies with its IT solutions.

One of leading IT companies in Turkey, has been providing competitive, cost, and profitability advantages to its customers' digital transformation journeys with its innovative solutions since 1999.

Innova contributes to Turkey's technology leap.
Innova significantly contributes to Turkey's national technology movement and the realization of its export targets with its 100% domestic and national technologies.

4 Continents 37 Countries
Innova exports its solutions and services to 37 countries on four continents. Our company maintains a strong presence abroad with projects in Qatar, Kuwait, Lebanon, Bahrain, Algeria, Saudi Arabia, United Arab Emirates, and Greece.

SOFTWARE PRODUCTS

Innova Software Products

Fintech
- SmartCollect
- mWallet
- Loyalty Program
- VMS
- UPH
- BIG
- ILP
- Virtual POS
- Digital Transformation
- Treasury Management

Next-Gen Digital Solutions
- Bioiz
- RPA
- RaaS
- SkywaveIoT
- DS Suit

Network & Field Solutions
- Network 360
- Hermes
- Nova
- Arena

Healthcare Solutions
- HICAMP ARC

Legal Software Solutions
- Lega
- Legalite

Innova Software Projects
- InnovAI
- Telecom Solutions
- Custom Software

Third-Party Software
- SAP
- Micro Focus
- MS Portal Solutions
- RPA
- Custom Solutions

SYSTEM INTEGRATION

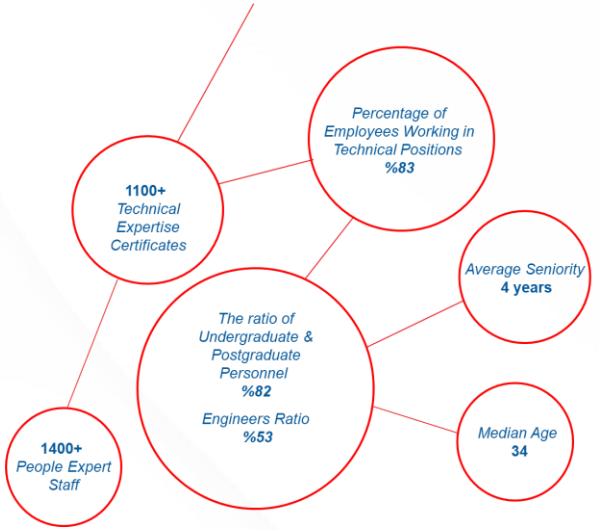
Infrastructure
- Cybersecurity
- Hardware Development
- Network Solutions
- SDWAN
- Audio Solutions
- System and VM Solutions

Hardware
- Kiosk
- Hardware & Licensing

SERVICES

Managed Services
- Data Warehouse
- Server Management
- Service Management
- Network Management
- Software Test Management

Outsourcing & Consultancy
- Outsourcing
- Personal Data Protection Law (KVKK)



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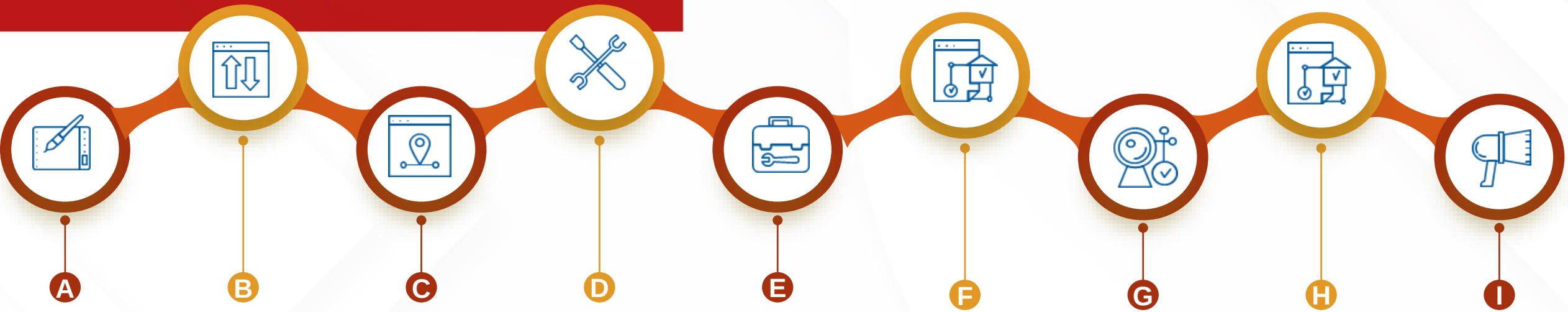
İnnova Research Fields



A	B	C	D	E	F	G	H	I
Sepsis Early Diagnosis and Treatment Recommendation	MS Lesion Segmentation	Brain Hemorrhage Detection and Classification	Detection and Classification of Diabetic Retinopathy	Colloborative Digital Twins	Microgrid Optimization	Carbon NetZero Policy Recommendation	Video Analytics	5G Enabled IoT Platform
LSTM Deep Reinforcement Learning	DCNN	DCNN, GRAD-CAM	Reinforcement Learning Semantic Search	Information Centric Networks Semantic Interoperability	Deep Reinforcement Learning Stochastic Optimization	Stochastic Optimization	Edge Computing Semantic Reasoning	Edge Computing

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İnnova’s On-going Projects (EU)

- SYMPHONY - Eco-system for disease specific clinical workflow and data integration
- ASSIST - Automation, Surgery Support and Intuitive 3D visualization to optimize workflow in IGT SysTems
- Narrate - Providing trustful and ethical personalised conversational interfaces on top of news and information
- VISION - Virtual Integrated Supply-chain Improvement with Optimized Networking
- TiDiT - Timeline Driven Digital Twin

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Project Idea:
Generative AI for Neurological Disorders (G-NEURO)

Call Topic: HORIZON-HLTH-2025-01-CARE-01: End user-driven application of Generative Artificial Intelligence models in healthcare (GenAI4EU)

Advancing and generating research to better understand and improve Generative AI-based virtual assistant solutions and their applicability in healthcare settings by improving patient health outcomes, fostering personalised healthcare and support the resilience, sustainability, and efficiency of the healthcare systems

Destination: Ensuring equal access to innovative, sustainable , and high-quality healthcare

Deadline: 18.09.2025

Project Idea Overview: The Project aims to develop **Generative AI-based solutions** to enhance disease management for various **neurological conditions** such as Multiple Sclerosis (MS), Parkinson's Disease, Amyotrophic Lateral Sclerosis (ALS), and others

G-NEURO Features	Challenge (Neurological Diseases)	Generative AI Feature	Impact
Multimodal Data Integration	Diverse and complex data types (medical imaging, genomics, EHRs, patient reports)	Combining structured and unstructured data from different sources	Enhanced precision in predicting disease progression, treatment responses, and identifying biomarkers
Personalized Treatment Recommendations	Require individualized treatment due to varying symptoms and disease progression	Generating tailored treatment plans by analyzing patient-specific data	Improved treatment outcomes through customized therapeutic strategies and real-time adaptation
Continous Monitoring and Prediction	Accurate and consistent monitoring of disease progression	Generating insights from continuous data inputs	Early detection of worsening symptoms and timely intervention to prevent rapid progression
Conversational and Cognitive Support	Patients often experience emotional distress, cognitive decline, or isolation	NLP-driven conversational agents providing personalized emotional support, reminders, and cognitive exercises	Improved adherence to treatment, reduced anxiety, and enhanced patient empowerment
Federated and Swarm Learning	Data privacy concerns and lack of standardized data across institutions	Using decentralized learning techniques to train models without compromising patient privacy	Improved model robustness and generalization while ensuring compliance with data protection regulations

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Consortium - Profile of Known Partners

No	Partner Name	Type	Country	Role in the Project
1	İnnova IT Solutions	Industry	Türkiye	AI model development, swarm learning
2	Başkent University Hospital (Neurology, Radiology)	University	Türkiye	Providing clinical expertise, patient care data, clinical evaluation
3	Middle East Technical University (Department of Biological Science)	University	Türkiye	Genomics data analysis and biomarker identification
4	Linköping University	University	Sweden	Federated Learning, radiological image analysis
5	Life Charger SRL	SME	Italy	Mobile application development
6	Chino SRL	SME	Italy	Data governance, GDPR compliance

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Consortium – Required Partners

- Hospitals & Neurology Departments: Providing clinical expertise, patient care data, and real-worlds testing environments
- Specialized Neurological Research Centers: Leading research in understanding disease mechanisms, biomarkers, and therapeutic interventions
- Use Case Owners for Neurological Disorders (ALS, Parkinson’s Disease, MS, Alzheimer’s Disease, Epilepsy, etc.)
- Conversational and Cognitive Support Partners: Providing expertise in developing NLP-based conversational agents

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