

Technology for a safer world

EIT Health IPCEI Matchmaking session | Sep 5th

Agenda

About us

Service areas X5

- -Software Development
- -Systems Integration
- -Cybersecurity
- -Innovation
- -IT infrastructure

Contact





TRC is a **technology integration** company with **35 years** of experience

World class ✓ software ✓ development, ✓ systems integration, ✓ cybersecurity, ✓ innovation and ✓ IT infrastructure to **meet evolving** challenges alongside our clients in **Spain** and **beyond**

#cibersecurity #cloud #infrastructure #networking #innovación #software #Digital transformation #datacenter #IT systems

Extensive presence and diversification

Markets

Healthcare

Manufacturing and Transportation

Financial

Enterprise

Defense and Security

Public Administration





UNE-EN ISO 9001 Quality Management System



UNE-EN ISO 14001 Environmental Management System



ISO/IEC 33001 System Integration & **Software Development**



ISO/IEC 15504 System Integration & **Software Development**



ISO/IEC 20000 **IT Service Management System**



UNE-ISO/IEC 27001 Information Security Management in the Organization



UNE-EN ISO 45001 Occupational health and safety system



HUELLA DE CARBONO Greenhouse gas reduction



CHAMBER TRUST Guarantee of business on the internet at an international level



Innovative company of Economy and Competitiveness



TRC INFORMÁTICA accredited by the Ministry Managed security service for incident detection and response.



GRUPALIA INTERNET Greenhouse gas reduction commitment



Government contractors with highlevel clearance **Certified Telecommunications** Installer



Thermal installation and maintenance services Low voltage electrical installation



CNMC Authorized Operator



ICT

































Defense and security

































Transportation Oil & Gas Infrastructure **Consumer Staples** Luxury



































Government





















































Healthcare









































































01

Develop

Software Development: Development of applications and specialized software focused on Hospital Information Systems, Financial and Management Platforms.

02

Integrate

Systems Integration: Deployment and configuration of your entire network and IT resources: networking, virtualization, hyperconvergence, secure mobility, cloud environments...

03

Cyber-Defend

Cybersecurity: Services and solutions to enhance your organization's level of security.

04

Innovate

Innovation: Research and developments based on Artificial Intelligence, Artificial Vision and Radio Frequency, through machine learning and deep learning.

05

Build

IT Infrastructure: Cabling networks, Data Centers, security networks, special installations, electricity and air conditioning of technical rooms.





Development

Software Factory



Work system



Specialists in JAVA, .net, MIRTH integrations, SQL Server DB developments, system integration, data migrations, data analysis



Applications

Innobics-SAHS

Obstructive Sleep Apnea Syndrome is a disorder characterized by repeated interruptions in breathing during sleep





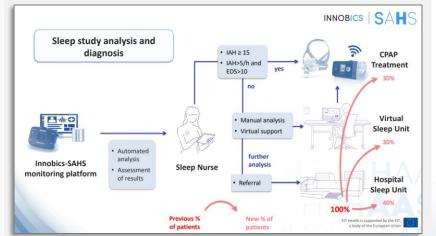
Problem:

- 90% underdiagnosis
- 6 to 12 months delays

Solution:

- A digital platform that provides an innovative, scalable solution for diagnosing and treating sleep apnea in hospitals and sleep units
- It efficiently manages data, devices, patients, institutions, and healthcare professionals

https://innobics-sahs.eu/news/the-role-of-grupo-trc-in-the-innobics-sahs-project/





SAHS



Applications

RetinaReadRisk

Diabetic retinopathy (**DR**) is a microvascular complication affecting the small blood vessels in the retina, leading to total vision loss







Problem:

Waiting time in public healthcare systems, and lack of **early** detection in working adults

Solution:

- RRR orchestrates AI models 5G technology, and smartphones equipped to capture retinal images in local medical offices via a single ICT platform
- Deep learning models automatically analyze them to predict the risk of developing DR







Software

Doctoris



Hospital **Management Software** where all systems converge on a <u>single web platform</u>, facilitating the **comprehensive** Health Center workflow orchestration

- **Doctoris HIS**. Hospital Information System
- Doctoris HCE. Electronic Medical Record
- Patient Portal
- Patient portal. APP
- +Signature. Informed consent
- e-Oncology. Oncology Pharmacy
- Private electronic prescription
- **GDM.** Digital medication management
- Specialized module in ICU
- Queue. Waiting room management





02. Integration

Systems Integration



Boost productivity and streamline business processes

At TRC, we strive to be your technological ally, guiding your **digital transformation** and <u>enhancing your capabilities</u> with top solutions



Cloud, Storage

Deploy **hosting** and <u>cloud</u> solutions to create **reliable**, **scalable**, and readily available data environments

Maintenance, operation and monitoring 8x5 or 24x7 models

Customizable SLAs according to needs

Work areas



Bare Metal Servers

Install high-performance servers to optimize data management



IT Support

Issue resolution, technical support, and technology installation and configuration



Unified Communications

Custom professional solutions: IP telephony, call centers, and video conferencing integration



Mail / DNS

Integrate mail and DNS applications for efficient, intuitive experiences

Integration of physical, equipment and software applicationsScalable architecture



Virtualization

Virtualize services, machines, and work environments with full workstation features



Storage Systems

Integrate and install high-performance storage systems





Install and manage backup solutions for data recovery

Hyperconverged Structures

Deploy platforms and migrate data and machines in hyperconverged environments to simplify resource management



VDI (Virtual Desktop Infrastructure)

Customize virtual desktops with centralized management flexibility



Authentication Applications

Integrateauthentication, identity, and document protection applications





Networking, Wi-Fi and Perimeter Security

Deploy network resources for all needs

From mobile platforms to high-criticality environments

Configure and secure LAN and WAN networks to protect your assets





Site Acceptance
Testing **SAT**

Service

Manage, support, and maintain IT systems to handle daily incidents and requirements

Our highly qualified teams monitor your systems and respond quickly to incidents, ensuring process continuity

Work Areas



Switching. Routing

Access networks, data centers, WAN connectivity, and network auditing and consulting services



WIFI

<u>Deploy</u> WiFi networks, integrate with wired networks, and conduct <u>coverage studies</u>



Load Balancing

LAN and WAN load balancing solutions



Firewall

Implement, operate, and migrate firewalls



NAC (Network Access Control)

Implement network access control systems





<u>Integrate</u> software defined wide area network SD-WAN technologies, <u>consulting</u>, and solution analysis



SASE (Secure Access Service Edge)

Cloud Access Security Broker (CASB), FWaaS, and Zero Trust, ensuring secure access to platforms



Support

Handle incidents and requests via email, phone, and SGCOL, with escalation to higher technical levels



24x7 Service

24/7 incident management carried out by experts



Remote Hands Service

Manage <u>Data Center equipment</u>: server reboots, cable changes, and basic installations



Remote Operations

<u>Execute</u> procedures <u>remotely</u> to reduce escalations and response times for failures



Monitoring

24x7 monitoring services for organizations with their own technical teams





03. Cyber Defense

Cybersecurity



Cyberlab

TECHNOLOGY TESTING LABORATORY



Technology Assessment

World-class cybersecurity <u>technology</u> benchmarking for thoughtful <u>integration</u>: hardware, software, <u>best practices</u>



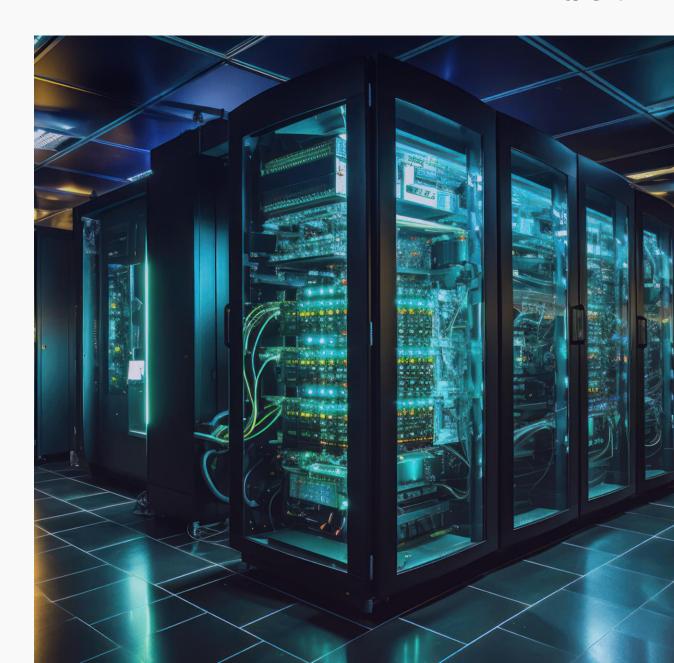
Integration of previously-weighted solutions

Pre-tested solutions in our cyberlab to devise <u>specialized</u> cyber defense <u>pathways</u>



Identification of disruptive technologies

- Deep knowledge of <u>client technologies</u> for **objective evaluation**
- Strong collaboration with manufacturers
- · Selecting the best solutions
- Fostering trust between integrator and client





SERVICES AND SOLUTIONS

Endpoint/extended detection and response

EDR/XDR systems

Effective defense against sophisticated behaviorbased and Zero Day attacks

Implement technology to differentiate <u>legitimate</u> from advanced <u>malicious</u> behaviors

Comprehensive monitoring and defense for all systems and users





Vulnerability Identification and Management

Ongoing identification, categorization, prioritization, and resolution of IT infrastructure vulnerabilities



Immediate alerts and system status

Comprehensive evaluation of all system telemetry, behaviors, and misconfigurations

Reporting on the platform health and performance



Here's how our **Managed Monitoring Service** enhances healthcare

- Threat **Detection**: <u>Continuous monitoring</u> to keep systems secure and compliant
- Platform **Maintenance**: Optimize and update security platforms for peak performance
- Threat **Analysis**: <u>Analyze threats</u> in containers and virtual systems
- Firewall **Integration**: Seamless integration with local firewalls
- Device Control: <u>Manage devices</u> and align with your security policies, maintaining your sensitive healthcare data safe



Identification

Information system asset inventory for potential vulnerabilities



Categorization and prioritization

- Classify vulnerabilities based on detected **Common Vulnerabilities** and **Exposures** (CVEs)
- Prioritize criticality through Al-based models



Analysis and notification

- Analyze vulnerabilities
- Contextualize Al-generated priorities
- Document notifications with asset details and mitigation measures



Verification and registration

Make sure the vulnerability is no longer detected

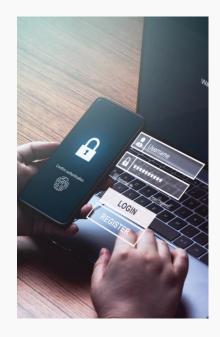


SERVICES AND SOLUTIONS

In-depth Identity Defense

Problem: Identitybased attacks are a major challenge in corporate cybersecurity

Solution: Technology that differentiates between legitimate users and cybercriminals with stolen credentials





Automated
Security
Operations
Center SOC



Deployment and Implementation Service

Evaluate the client's ecosystem, identify vulnerabilities, deploy agents, and configure the platform



Regulatory Compliance

Compliance with National Cybersecurity Scheme, ISO 27001, and NIST standards



Active Directory Risk Analysis

- Analyze all AD entities and the <u>risk</u> framework
- Identification of potential attack vectors
- Continuously **monitor** AD security
- Define access policies based on activity, behavior, and risk
- <u>Configure response</u> actions and automate playbooks
- Threat Hunting and Proactive search



Our services are API-FIRST

We use <u>next-gen cybersecurity</u> technologies with an 'open' design for **easier interoperability** and reduced complexity

- Advantages
 - <u>Faster</u> threat response
 - **Reduced** manual errors
 - Lower operational costs



Virtual Analyst Role

- Use AI and machine learning for <u>24/7</u> monitoring
- Accurate threat detection with reduced false positives



Risk Analysis

Conducting risk analysis with the **MAGERIT** methodology using <u>Pilar/micro-Pilar tools</u> as needed



O4_Innovation

R&D





Biometric recognition

Facial and Body BR: BR Image Processing

- Secure Identification: Biometric recognition ensures accurate patient ID, reducing errors, preventing identity theft, and streamlining check-ins
- Personalized Care: Facial and body recognition tracks interactions, monitors treatment compliance, and customizes care plans
- Access Control: Biometric systems secure access to sensitive areas and data, enhancing protection and regulatory compliance

Frequency spectrum analysis

Hyperspectral image processing Processing radio interface signals

- Improved Network Security and Compliance
- Optimized Wireless **Medical Device** Performance
- Efficient Spectrum Management for IoT Devices

Computer vision

GBR-thermal image processing

BR by voice: voice file processing

- Early **Detection**: Thermal imaging detects abnormal temperature patterns for early, non-invasive diagnosis and timely intervention
- Patient Safety: Computer vision monitors movements and analyzes speech to detect distress or neurological issues, enhancing safety
- Workflow Efficiency: Automated analysis of images and voice files reduces workloads, speeding up diagnosis and improving care focus

IoT Device Data Analytics

- Enhanced **Patient Monitoring** and **Predictive** Care: IoT devices collect real-time patient data, enabling remote vital sign monitoring
- Operational Efficiency and Cost Reduction: IoT analytics streamline operations, optimize equipment use, and reduce wait times







Natural Language Processing (NLP)

Language interpretation and processing

- Automated Documentation: Convert physician notes into structured records, reducing admin work and improving accuracy
- Patient Interaction: Enable chatbots to handle patient queries 24/7, enhancing engagement and reducing staff workload
- Predictive Insights: Provide insights on disease patterns, treatment outcomes, and risks for better decisions.
- Health Trend Monitoring: Identify <u>headwinds</u> and <u>opportunities</u> from your data, enabling proactive care **adjustments**

Machine Learning

Data correlation, pattern finding, and prediction models

- **Predictive** Diagnostics: Predict health issues early, enabling preventive care
- Personalized Care: Identify patterns in patient data and treatment outcomes for Bespoke treatments
- Resource Optimization: Improve resource allocation by forecasting admissions, equipment use, and staffing
- Faster Drug Discovery: Accelerate drug discovery by finding molecular data correlations and predicting drug efficacy
- Decision Support: Data-based recommendations to enhance diagnostic accuracy and reduce error



05 Build

IT Infrastructure

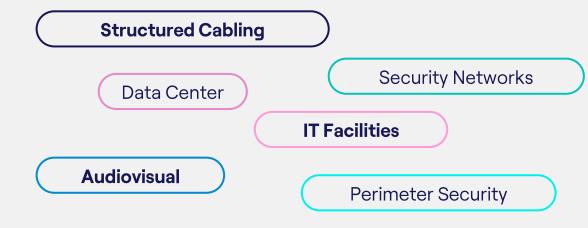


IT Infrastructures

Maximum security and efficiency in the deployment and management of **telecommunications networks**

Properly **designing** and **planning** these infrastructures means being <u>prepared</u> for the constant **evolution/scaling** demanded by digital transformation, implementing new technologies and applications not anticipated in the initial design

Telecommunications networks





IT Infrastructures



Audit

Analysis and knowledge of the real state of your Data Center



Commisioning

Review, adjustment and assurance of all processes and systems



Engineering

Multidisciplinary design of all infrastructures. Documentation



Technical cleaning

Specialized maintenance that ensures the optimal health of your DC



Installation

All stages and figures of construction in a unified turnkey project



Maintenance

Continuous resource management and 24x7 remote monitoring



Monitoring

Constant monitoring to ensure the operation of the systems



Critical transfer

Planning, analysis and documentation in the movement of infrastructure





Special facilities



Patient-Nurse Communication System

VoIP-based solution compatible with both IP and analog systems. A button triggers a real-time alarm, instantly alerting the control station where staff manage the emergency response



Access control and work presence identification

Access control terminals enable quick, easy management of workers' entry and exit times through customizable modules



Building Management Systems **BMSs**

Verify proper operation, regulate heating, air conditioning, ventilation, and utilities, and monitor alarms or incidents in real-time. It also integrates with third-party solutions



Parking guidance and Control Systems

Including information panels, guidance lights, and parking detectors



IP Television Systems

Manage TV channels or advertising signals through a versatile, fast, and simple cabling infrastructure



Security of Systems Integration (PSIM)

Unified integration of access control, CCTV, intrusion detection, intercom, public address, and telephony





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Thanks!