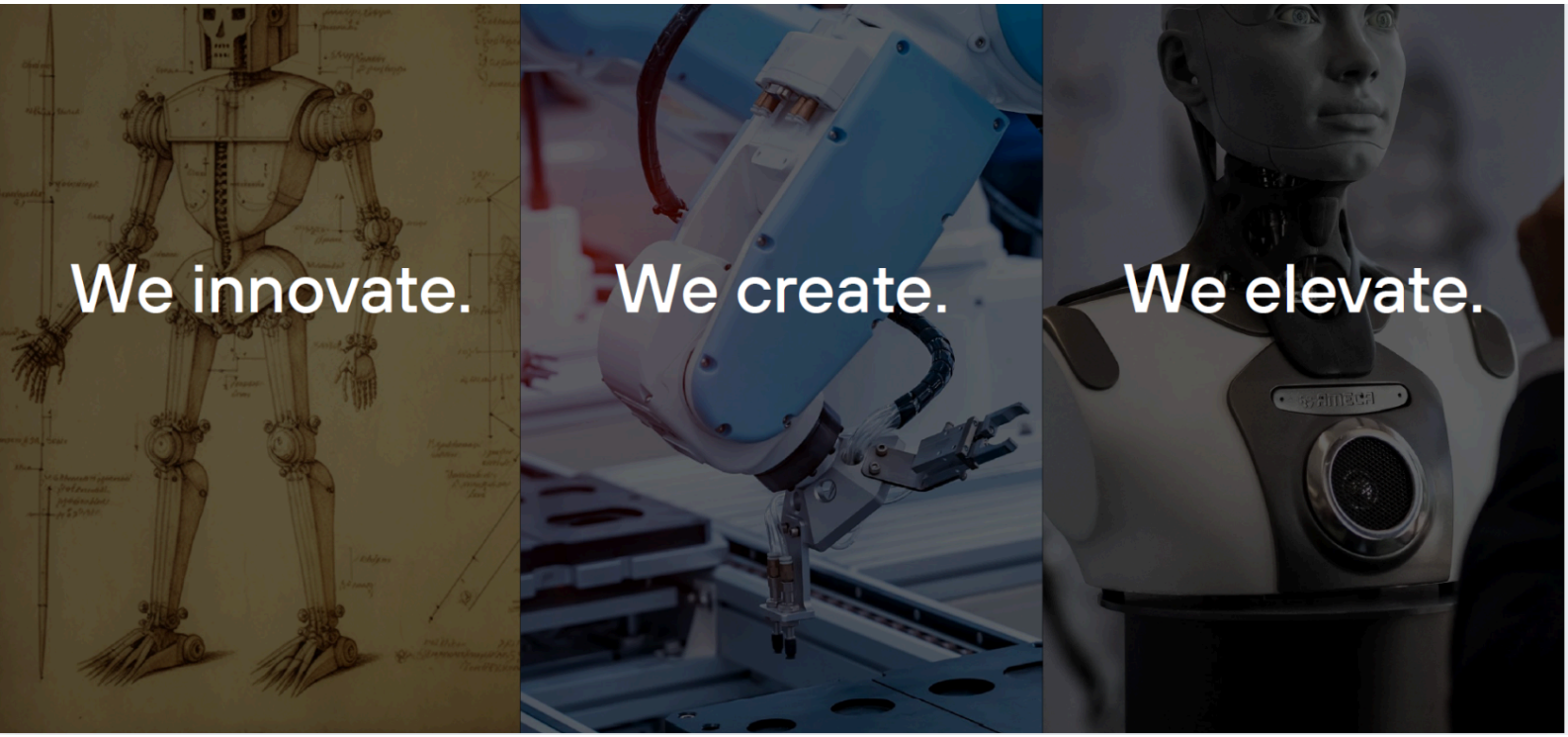
INSTITUTE

Track your medical devices

February 2026

About

Verlab Institute is an independent research institute in Bosnia and Herzegovina.



The Institute is internationally recognized for its engagement in research and development activities, actively participating in **global research networks** and **strategic partnerships** with universities, research organizations, industry leaders, and international institutions. Through these collaborations, Verlab Institute contributes to high-impact projects in areas such as **biomedical engineering, digital health, artificial intelligence, cybersecurity, smart systems, and advanced ICT solutions.**

The institute holds **ISO 21001 certification**, demonstrating compliance with internationally recognized standards for educational organization management systems.

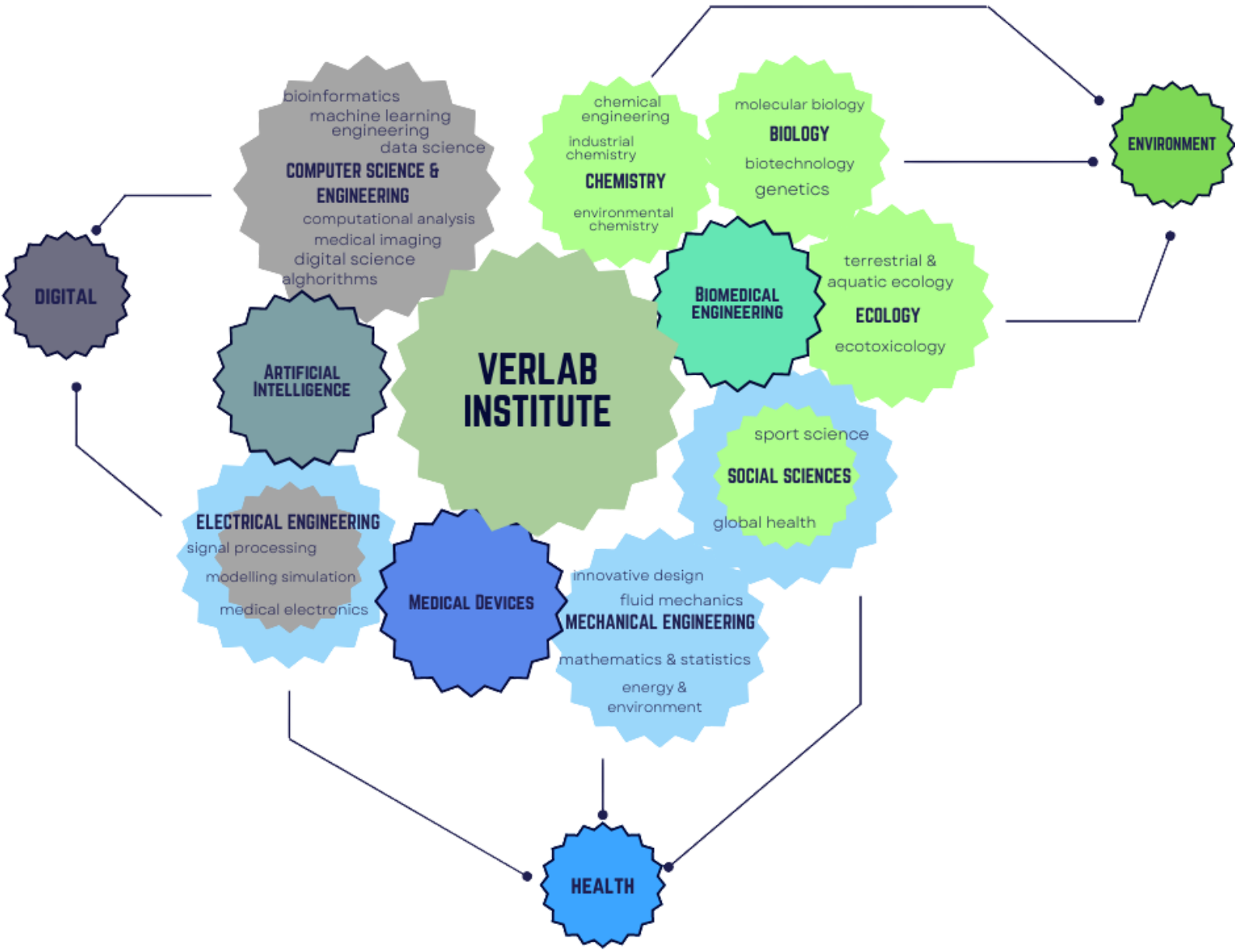
Verlab Institute places a strong focus on research integrity, quality assurance, and compliance with international standards, supported by its **formal accreditation** and **proven track record in EU-**

funded and international projects.

Mission and vision

Mission	Vision
To ***lead*** impactful, multidisciplinary research that meets global needs. To ***inspire*** innovation and scientific discovery. To ***deliver*** sustainable solutions for academia, industry, government, and society.	To be a trusted research hub, driving innovation and supporting societal progress.

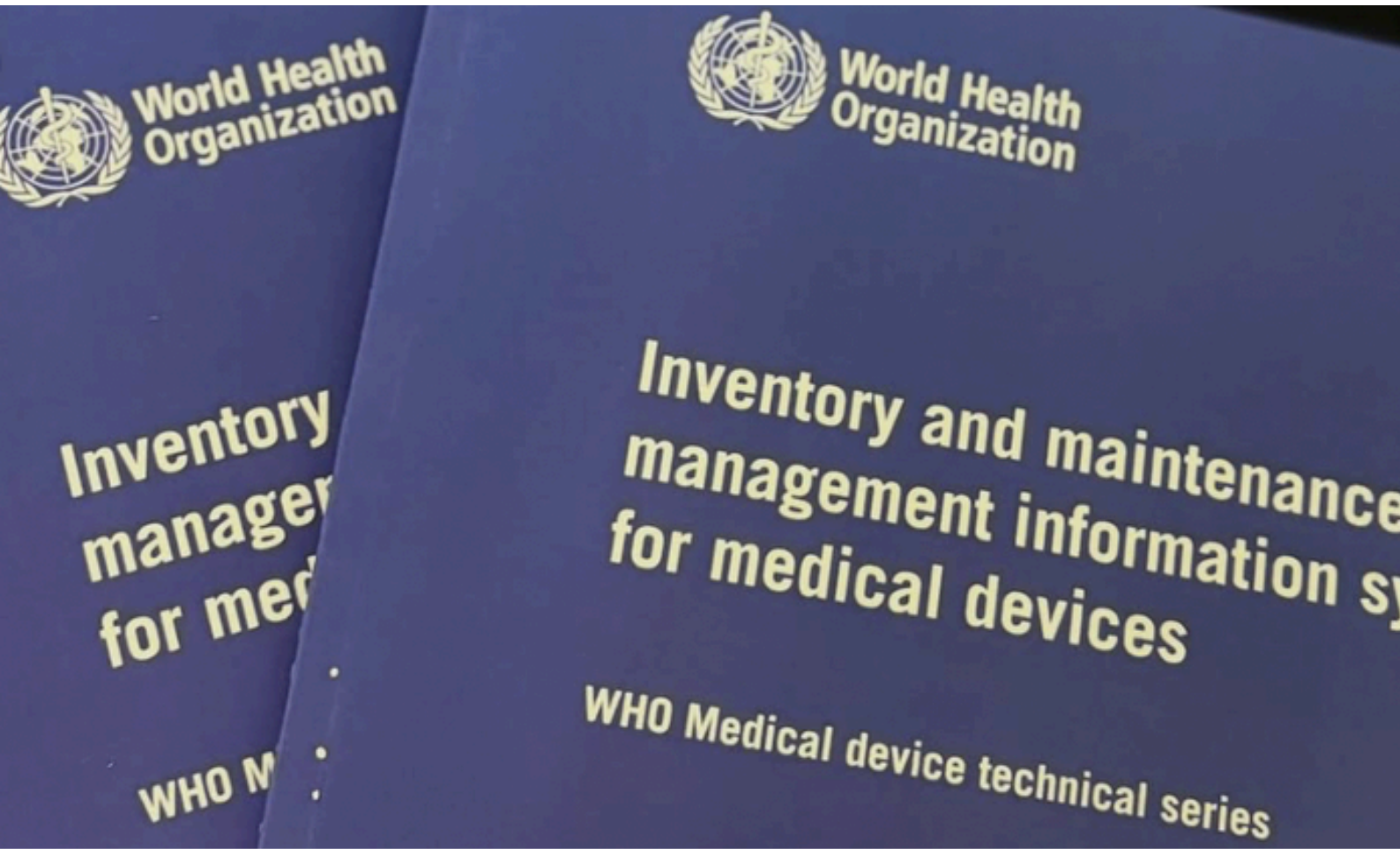
Areas of expertise



WHO collaboration and publication

Role in WHO technical series

Members of the Institute maintained active professional engagement with the World Health Organization (WHO) and coordinated the creation of to the international guideline - **Inventory and Maintenance Management Information Systems (IMMIS)**, which provides structured guidance for strengthening medical device lifecycle management.



Core expertise

Digital transformation of Medical Technology Management

Institutional level

The objective is to move institutions from reactive maintenance models toward predictive, data-driven asset management. Within methodology deployment, we operationalize standardized procedures for preventive and corrective maintenance, performance verification, calibration, risk-based classification, and lifecycle documentation. Where applicable, we integrate AI-driven tools and analytics to enable predictive maintenance models that reduce equipment downtime, optimize costs, and enhance patient safety.

National / Regional Level

We support the development of national strategies for digital medical device management and health technology governance. These strategies define long-term transformation roadmaps, sustainability mechanisms, investment planning models, and capacity development programs. Our approach connects health policy with digital transformation, artificial intelligence, and quality assurance systems, ensuring resilient and future-ready national healthcare systems.

Implementation approach

Our structured implementation model is designed to ensure sustainable, measurable, and scalable transformation across healthcare systems.

1. Assessment

The implementation process begins with a comprehensive and evidence-based assessment of the existing environment. This includes evaluation of current medical device inventories, maintenance practices, digital infrastructure, regulatory frameworks, workforce capacity, and data governance structures. We analyze institutional workflows, national policy alignment, and digital maturity levels to identify systemic gaps, risks, and opportunities for optimization.

2. Framework development

Based on the assessment findings, we design regulatory, operational, and digital frameworks aligned with WHO technical guidance and international best practices. This phase includes drafting regulatory documents, defining

governance structures, establishing standardized operating procedures, and designing system architectures for inventory and maintenance management.

3. Deployment

Our methodology prioritizes risk mitigation, cybersecurity compliance, and structured change management to ensure smooth transition toward digital medical device management.

4. Capacity building

Sustainable transformation requires strong human capacity alongside technical systems. Therefore, continuous training, mentorship, and knowledge transfer are integral components of our implementation model.

Contact information

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