Kaun AI

CONNECTING MINDS, MEDICINE, AND MACHINE

gGmbH: Medical Intelligence for the Human Universe

Creating autonomous, resilient, and evidence-based healthcare systems for systems for Earth and beyond

Status: November 2025

Berlin, Germany

Mission and Vision

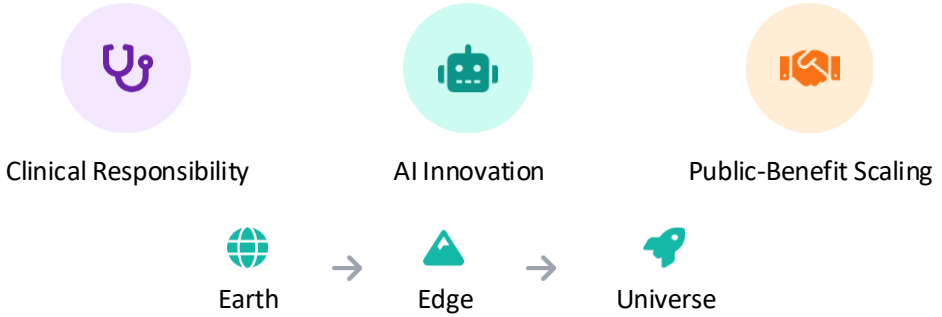
Our Mission

Establish a **physician-led non-profit** organization dedicated to to responsible, clinically validated Artificial Intelligence.

- Create **autonomous, resilient, and evidence-based** healthcare systems systems
- Developed from practice for practice
- Applicable both on Earth and in extreme environments

Our Vision

Build a global **"Future Health Infrastructure Institute"**



Company Profile

Kaun AI gGmbH

Legal Form
gGmbH (Berlin)

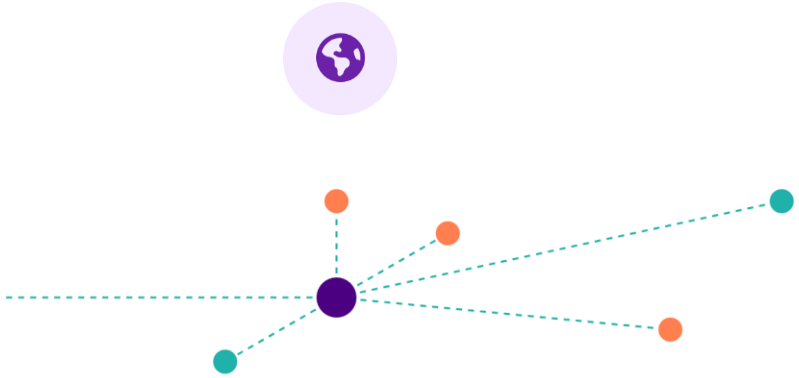
Founded
2025

Focus
AI-driven Healthcare & Autonomy in Extreme Environments

Achievement Update

- Rapid global expansion
- Early clinical pilots

Global Presence



Germany
HQ, Strategy

Egypt
Clinical projects

Turkey
Clinical projects

Mexico
Global funding

US
Harvard network

Virtual
Space Medicine

Guiding Principles

Kaun AI operates under a set of core principles that ensure its innovations are ethically sound and clinically responsible:

Medical Intelligence for Human Universe

Health extends beyond Earth's atmosphere.

Autonomy & Resilience

Developing systems that function in diverse environments (Earth, Edge, Universe).

Scientific Evidence & Transparency

Commitment to rigorous scientific evaluation and open practices.

Patient Safety & Data Protection

Prioritizing the well-being and privacy of patients.

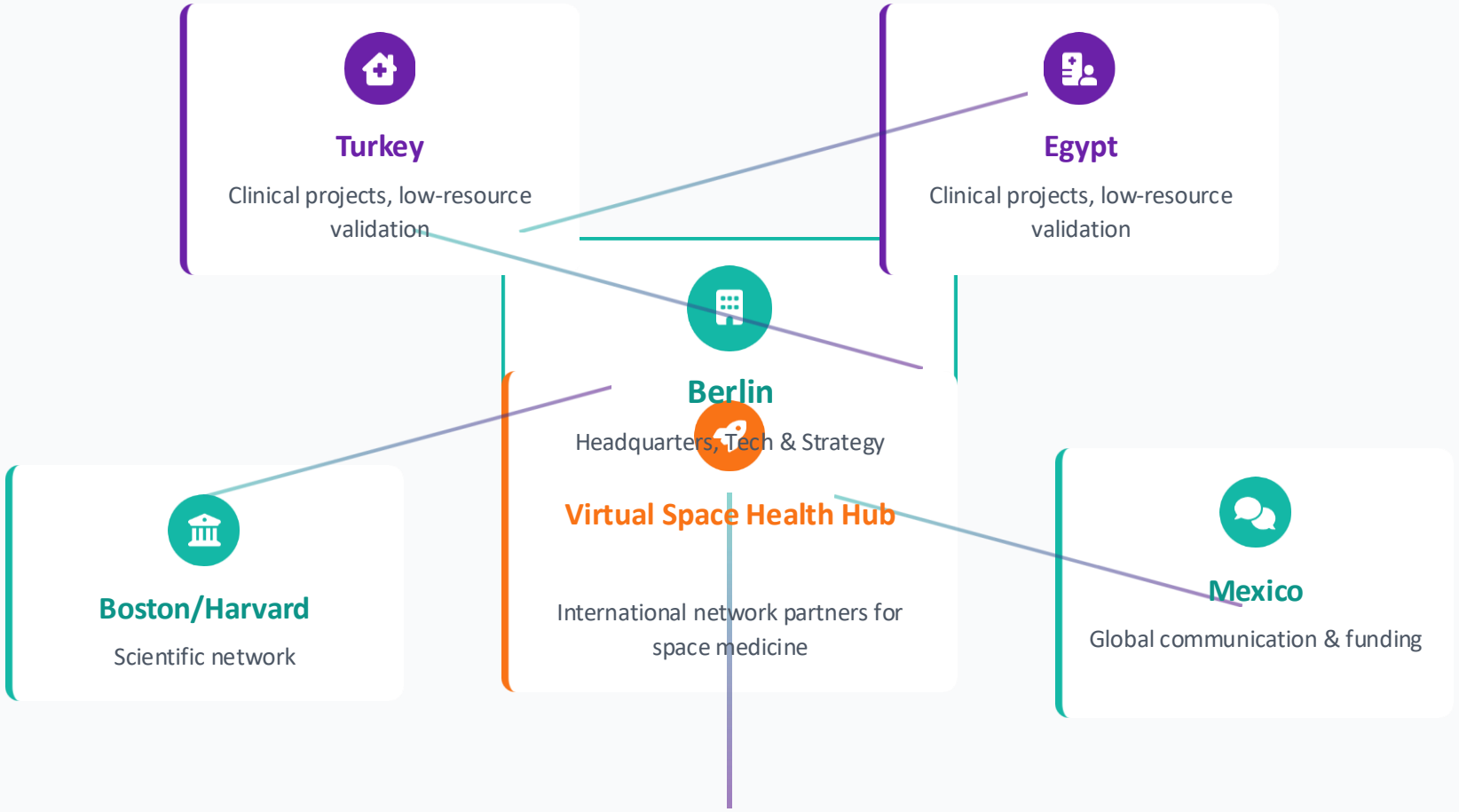
Co-Creation with Clinical Users

Collaborative development with healthcare professionals.

Sustainable Impact

Focusing on long-term, meaningful contributions rather than short-term effects.

Global Presence



Core Offerings

AI-Supported Medical Education

Development of adaptive training environments and simulation-based programs for lay medics like astronauts and field operatives.

→ MedEd AI

Clinical AI Applications

Development of AI-supported autonomous diagnostics and clinical decision support systems for telemedicine, especially under communication delays.

→ Clinical Validation

Process & Relief Systems

Systems to automate processes and provide relief in clinical environments, improving efficiency and reducing workload.

→ Nursing Scheduler AI

Academic Fellowships

Promotion of research into AI applications in extreme environments and Space Health, fostering collaboration between clinicians and researchers.

→ Research & Development

Extreme Health Environments

Developing AI solutions for maximum autonomy to address acute medical challenges in resource-limited contexts, including Moon missions and rural healthcare.

→ Earth-to-Universe Approach

AI-Supported Medical Education (MedEd AI)

Adaptive training environments and simulation-based programs designed to enhance clinical thinking and problem-solving skills for medical students and residents.

Adaptive Learning

Personalized learning paths based on individual performance and knowledge gaps

Competency Assessment

Structured evaluation of clinical skills and decision-making abilities

Structured Feedback

Detailed insights and recommendations for improvement

Targeted Audience

Medical students and residents seeking to enhance clinical thinking

Validation Status

1. **Expert Review**
   Clinical validation by medical experts
2. **Cohort Testing**
   Real-world implementation with medical students
3. **Curriculum Integration**
   Adaptation into existing medical education programs

Clinical AI Applications

Kaun AI develops AI-supported autonomous diagnostics and clinical decision support systems (CDS) for telemedicine, with a focus on extreme environments and communication delays.

Autonomous Diagnostics

- AI-supported decision logic for emergencies
- Risk prediction under communication delays

Clinical Decision Support

- Telemedicine with delayed communication
- Physiological adaptation analysis

Multimodal Models

- Ultrasound analysis
- Vital signs monitoring

Target Environments

- Moon Missions
- Deep-Sea Exploration
- Rural Healthcare
- Field Medicine

Nursing Scheduler AI

An innovative automation system designed for ambulatory care services that intelligently schedules nursing staff while ensuring fairness and preventing conflicts.

Key Features

Fairness Scores

Ensures equitable distribution of tasks and workload among staff members

Conflict Warnings

Identifies and resolves potential scheduling conflicts before they occur

Qualification Matching

Optimizes scheduling based on staff qualifications and patient needs

Preference Integration

Incorporates staff preferences while maintaining operational efficiency

Target Audience

Ambulatory Care Services

Healthcare providers requiring efficient nursing staff scheduling

Current Status

Tested MVP (Minimum Viable Product)

Active pilot project in Berlin

Validation Path

- Retrospective Analysis
- Prospective Pilot
- Multi-Site Evaluation

Academic Fellowships

Fellowship Program

Targeted promotion of research into AI applications within extreme environments and Space Health.

- Structured programs for clinicians, researchers, and engineers
- Focus on clinical AI applications
- Hands-on experience with real-world challenges

Research Focus Areas

Extreme Health Environments

Research on AI solutions for maximum autonomy in critical, resource-limited, and geographically isolated contexts

Space Health

Development of AI-supported decision logic and risk prediction for emergencies and physiological adaptations

Clinical AI Applications

Translating academic research into practical solutions for real-world healthcare challenges

Current Project Portfolio

Six active projects in various validation stages across international sites

MedEd AI

- Validated in early pilots
- Germany, Egypt

Nursing Scheduler AI

- Berlin pilot, MVP tested
- First funded assignment

Renal Tumor AI

- Early modeling
- CT texture analysis

Bladder Cancer Benchmark

- Accepted for presentation & publication
- N/A

Radiology AI

- In planning
- International team

Validated | MVP Tested | Early Modeling | Accepted | Completed | Planning

Technical Architecture

Six-layer AI pipeline designed for clinical safety, robustness, and transparency across Earth, Edge, and Universe environments.

Data Layer

Secure, anonymized data ingestion and storage

Key Components:

- Clinical data
- Imaging
- Vital signs
- Nursing protocols

Preprocessing

Data cleaning, normalization, and feature engineering

Key Components:

- Anonymization tools
- Data validation scripts

Modeling Layer

Core AI logic and prediction generation

Key Components:

- LLM
- CNN/Radiomics
- Forecasting Models
- Constraint Optimization

Evaluation Layer

Continuous performance monitoring and bias detection

Key Components:

- Clinical metrics
- fairness scores
- Resilience tests

Deployment Layer

Integration into clinical workflows and low-resource settings

Key Components:

- API endpoints
- Edge computing optimization

Safety Layer

Ethical guardrails and human-in-the-loop validation

Key Components:

- Ethics reviews
- Risk prediction models
- Human override protocols

Layer functions work across Earth, Edge, and Universe environments

Market Analysis

Market Volume

€20B

Projected EU Market by 2030

Key Market Drivers

Staff Shortages

Persistent shortages in medical and nursing professions creating demand for AI solutions

Digitalization

Accelerated digital transformation in healthcare systems

Regulatory Frameworks

AI Act and other regulations shaping development

Clinical Overload

Increasing demand for healthcare services

Space Medicine Focus

Global attention to manned space travel creating demand for autonomous medical systems

Competitive Landscape

AI Startups

- Vara
- Mindpeak
- Aignostics

Active in specific AI applications

University Labs

- LMU
- Charité
- Tübingen

Conduct academic research in AI

Corporations

- GE
- Siemens Healthineers

Offer broader healthcare technology solutions

Space Health

- NASA/TRISH
- CSA
- ETH

Focus on fundamental research

Kaun AI's Unique Position

Physician-led non-profit institution leveraging clinical AI validation in low-resource settings to develop autonomous medical solutions for Extreme Health Environments, including Space Health.

Unique Selling Proposition

Kaun AI stands as the **sole international, physician-led non-profit institution** that leverages clinical AI validation in low-resource settings to develop autonomous medical solutions for Extreme Health Environments, including Space Health.

Medical-Led AI

Innovation driven by medical expertise, not technology alone

Non-Profit Model

Trust, transparency, and public-benefit-oriented scaling

Clinical Validation

Rigorous validation in real-world clinical processes

Co-Creation with Clinical Teams

Solutions developed in collaboration with end-users

No Vendor Lock-In

Non-profit approach avoids proprietary restrictions

Development Strategy

Responsible AI innovation through our 5-phase model

1 2 3 4 5

1. Needs Analysis

- Identify healthcare challenges
- Define autonomy requirements

2. Co-Conception

- Collaborative design
- Adaptive training systems

3. Piloting

- Test in clinical settings
- Simulated environments

4. Validation

- Clinical evaluation
- Risk prediction testing

5. Implementation

- Secure deployment
- Widespread application

Key Strategic Principles

- Medical Leadership
- Scientific Evidence
- Collaborative Development
- Autonomy-Centric Approach

Financing Strategy

Diversified 4-Pillar Financing Model

Public Funding

- BMBF, BMWK, DLR, EU Horizon Health
- Foundations: Bosch, EKFS, DSEE, NLnet

DeepTech & Space Health Grants

- ESA, DLR, EIC-Accelerator
- TRISH (NASA Partner), Gulf region agencies

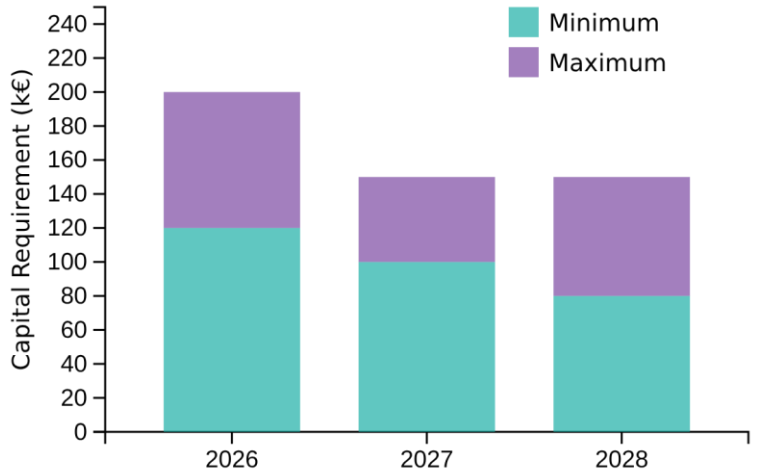
Education & License Models

- Course fees for medical education programs
- Clinic licenses for AI tools, university collaborations

Clinical Validation Projects

- Validation studies for clinics
- Donations & philanthropic funds

Capital Requirements (k€)



Strategic Financial Approach

- Focus on DeepTech funding for sustainable growth
- Decreasing capital requirements demonstrate increasing financial stability

2026 Milestones

Q1 Q2 Q3 Q4

Product Development

- Launch MedEd MVP
- Complete Nursing Scheduler pilot
- Early validation of Renal Tumor AI

Clinical Validation

- Completion of 3 clinical validation studies
- Publication of Bladder Cancer Benchmark
- Roll-out of MedEd AI with 3 institutions

International & Space Health

- Establishment of international cooperation in Turkey and Egypt
- Initial cooperation initiation with Space Health partners
- Submission of 1-2 DLR/ESA applications

Key Success Indicator

Successful execution of 5 strategic initiatives with 3 international partnerships

Due Date:
December 2026

2027-2028 Roadmap

2027

EU Funding

Participation in EU funding consortia for AI healthcare initiatives

Global Cluster

Establishment of Kaun AI as a global Medical-AI cluster

2028

AI Models

Development of 2 new specialized AI models for clinical applications

Professional Training

Training of over 1000 healthcare professionals across multiple disciplines

Product Scaling

Scaling of 3 AI products to new markets and applications

Space Health Focus

Validation of first autonomous prototype for extreme conditions by 2028

Executive Leadership Team

Dr. Mohammed Alfarra

Founder & CEO

Urology | AI Strategy | Clinical Validation | International Positioning

Specializes in urology and leads Kaun AI's strategic direction and international expansion.

Core Team

- Theresa Steeb – Management & Automation
- Saed Alkilani – MedEd Lead
- Ahmed Abushanab – Tech Lead
- Aysha Alastal – Social Media

International Leads

- Dr. Ömar Ayoub (Türkiye)
- Dr. Yahya Hossam (Ägypten)
- Dr. Sebastian Burger (Halle)
- Juliette Szmaszek (EU/DE Relations)

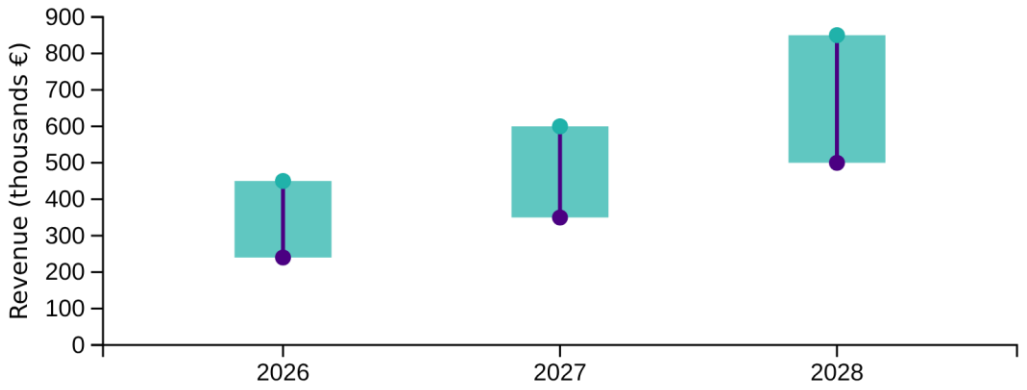
Advisory Board

- Prof. Said Matr
- Prof. Yasser Osman
- Dr. Chen Liang
- Dr. Maria Roth

Financial Projections 2026-2028

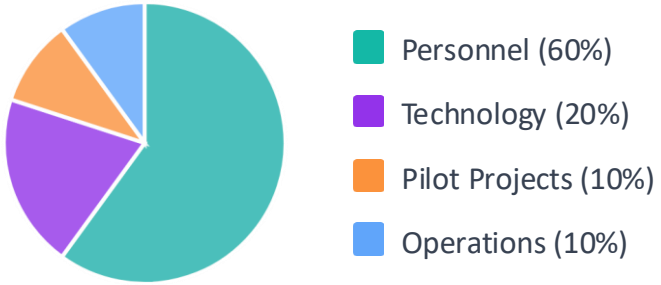
Kaun AI's three-year financial plan outlines projected revenues, expenses, and capital requirements.

Revenue Growth (in thousands €)



Key Insight: Projected revenue growth of 254% from €240,000 in 2026 to €850,000 in 2028.

Cost Distribution (2028)



Capital Requirements

2026	2027	2028
€120-200k	€100-150k	€80-150k

Focus on DeepTech & Space Health grants.

Call to Action

Join us in building **autonomous, resilient, and evidence-based** healthcare systems for Earth and beyond.

Partnerships

- Collaborate on clinical projects
- Join our global network

Support

- Support our mission
- Access our innovations

Investments

- Support our growth
- Access our pipeline

Be Part of the Future

Help us create healthcare systems for Earth and space.

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