



**ARX**  
ROBOTICS

# MISSION BRIEFING



**LEADING EUROPEAN DEFENSE  
INTO THE FUTURE.**

**„THE INCREASED WILLINGNESS FOR MILITARY SPENDINGS AFTER THE RUSSIAN INVASION IS WEARING OFF, STATES ARE SETTING DIFFERENT PRIORITIES OR SIMPLY ARE RUNNING OUT OF BUDGET. THEREFORE, IT WILL BE KEY TO NOT ONLY INVEST IN NEW TECHNOLOGIES BUT TO UPDATE EXISTING MATERIAL AND ADAPT IT TO MODERN WARFARE. THIS IS THE ONLY WAY TO ENSURE ROBUST DEFENSE CAPABILITIES FOR OUR ARMED FORCES.“**

**Lt Gen (Ret.) Frank Leidenberger**

**CEO of BWI**

The IT service provider  
& digitalization partner  
of the German Armed Forces

# 01

## VISION BUILDING EUROPEAN RESILIENCE

### Pioneering Europe's Defense and Software-Driven Transformation

In a world facing rapid technological and geopolitical challenges, Europe must act decisively to ensure resilience, sovereignty, and independence.

At ARX Robotics, we lead this transformation by delivering cutting-edge, software-enabled hardware solutions that bridge advanced robotics with real-world defense and operational needs.

### THE CHALLENGES ARE CLEAR:

- ➡ **Democracies Under Attack:**  
External forces exploit Europe's vulnerabilities, highlighting an urgent need for modernization.

- ➡ **Outdated Defense Technology:**  
NATO's arsenal struggles with analog systems that are ill-suited for modern warfare.

- ➡ **Lack Of Mass & Efficiency:**  
A revolution in mass deployment, safety, and autonomy is overdue.  
This must happen now.

# 01

## MISSION

# LEADING THE MODERNIZATION OF LAND OPERATIONS

### Pioneering Innovation in Land Systems



Our mission is to lead Europe into a new era of modernized land operations, combining military-grade robustness with scalable solutions that extend beyond robotics. Backed by the **NATO Innovation Fund**, we unlock the potential of software-driven technologies, transforming how missions are planned, executed, and sustained across the civil and defense sectors.

## Enhance

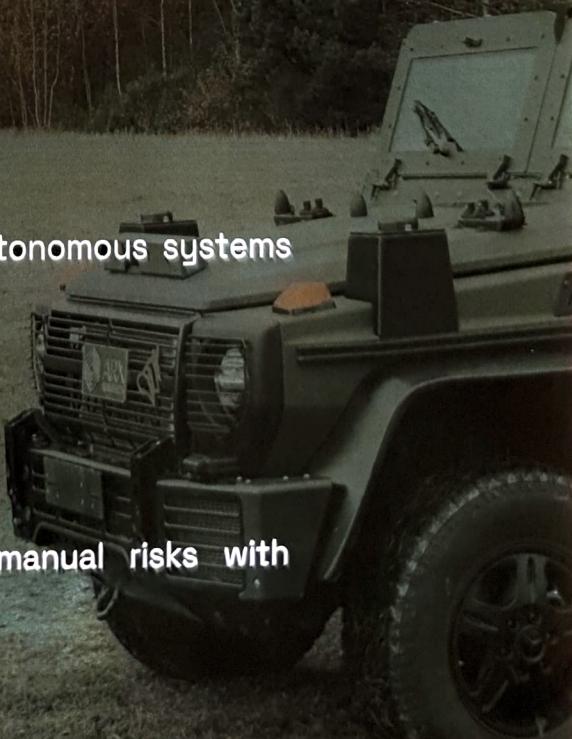
Transform legacy systems into intelligent, flexible assets with Mithra OS, enabling immediate modernization.

## Multiply

Scale operations with cost-effective, autonomous systems for mass deployment.

## Protect

Prioritize human safety by replacing manual risks with unmanned precision.



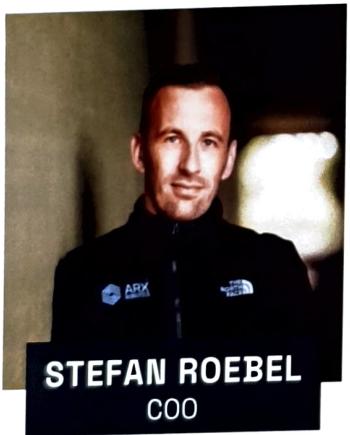
# 02

## THE FOUNDERS INNOVATION MEETS EXPERTISE



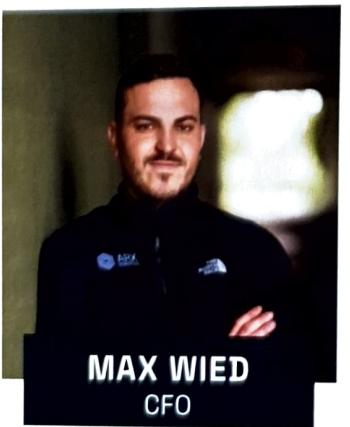
**MARC WIELFELD**  
CEO

With 14+ years of military leadership experience, Marc combines cutting-edge research with practical applications. His expertise in mechanical engineering and semiconductors enables ARX to innovate at scale and deliver mission-ready solutions. Marc's vision drives the company's focus on modularity, adaptability, and performance across defense and commercial markets.



**STEFAN ROEBEL**  
COO

With 12+ years of experience in high-growth industries and military leadership, Stefan ensures ARX operates with precision, efficiency, and agility. His expertise in scaling businesses is pivotal to ARX's rapid growth and execution. Stefan's focus on operational excellence and team dynamics drives the company's ability to innovate and deliver mission-critical solutions on a global scale.



**MAX WIED**  
CFO

A financial strategist with 9+ years of military and corporate experience, Max ensures sustainable growth and resource management at ARX. His background in managing complex budgets and developing financial frameworks enables ARX to scale efficiently while maintaining a strong commitment to long-term profitability and strategic investments.

# 02

## THE ARX FRAMEWORK FROM MISSION TO EXECUTION

### Mission-Focused Engineering:

ARX systems are designed to meet real-world defense challenges with precision and efficiency. By combining military expertise with cutting-edge technology, we ensure operational success in logistics, reconnaissance, and more.

**We deliver the tools needed to win—fast, reliable, and adaptable.**

### Military-Tested Reliability:

Built for rugged terrain and high-stakes operations, ARX systems are rigorously tested to guarantee performance under extreme conditions.

**We deliver consistent performance in every scenario.**

### Scalable Adaptability:

Modularity allows ARX solutions to evolve with mission demands, from upgrading legacy fleets with Mithra OS to deploying GEREON systems across 30+ use cases. Seamless integration of payloads maximizes versatility and efficiency.

**We ensure every mission is met with precision and adaptability.**

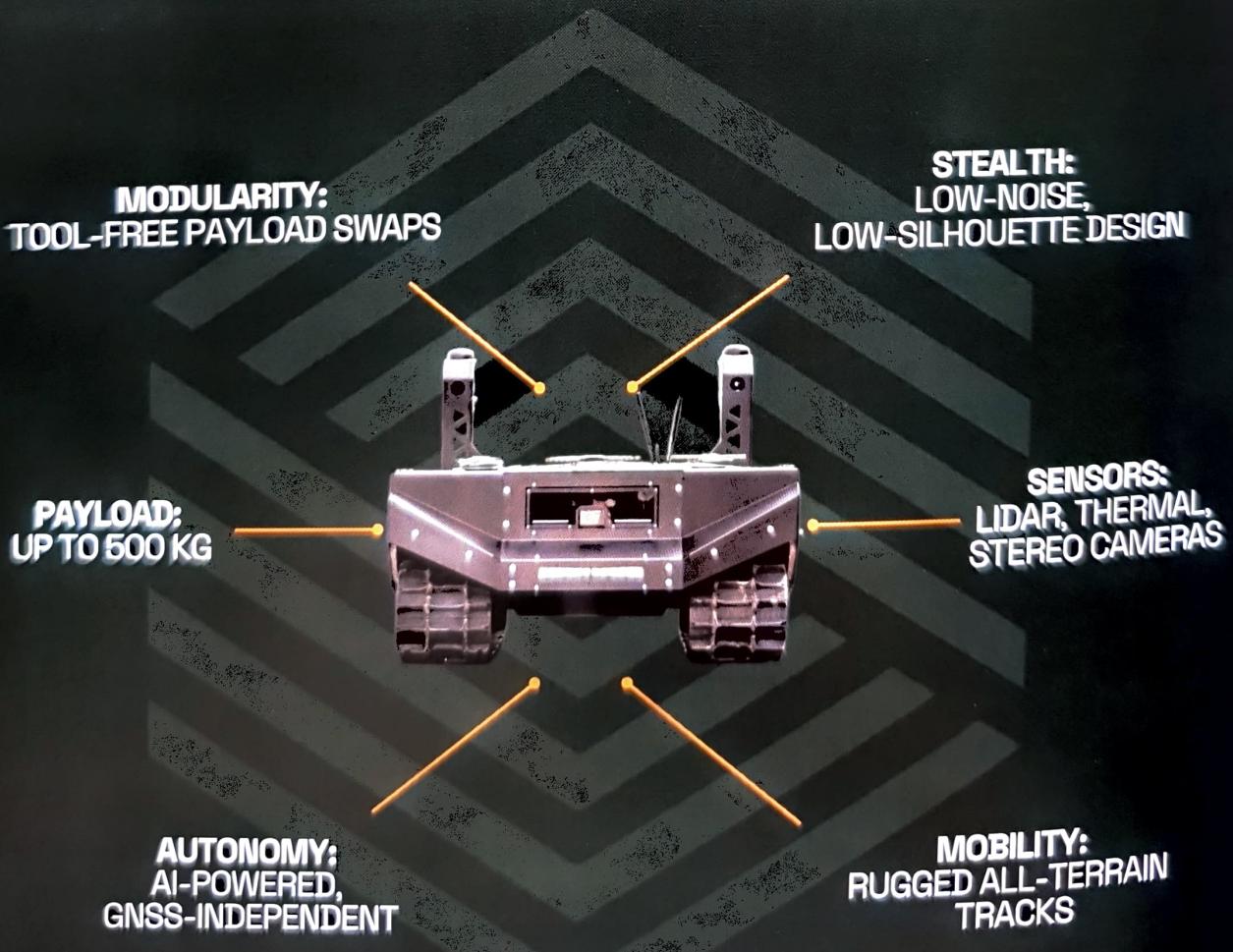


# 03

## GEREON MODULAR SOLUTIONS

### Multi-Modular Design:

GEREON UGVs are engineered to adapt to diverse battlefield scenarios, offering unmatched versatility. Their tool-free modular integration enables seamless adaptation for over 30 operational use cases, including reconnaissance, logistics, and CASEVAC.

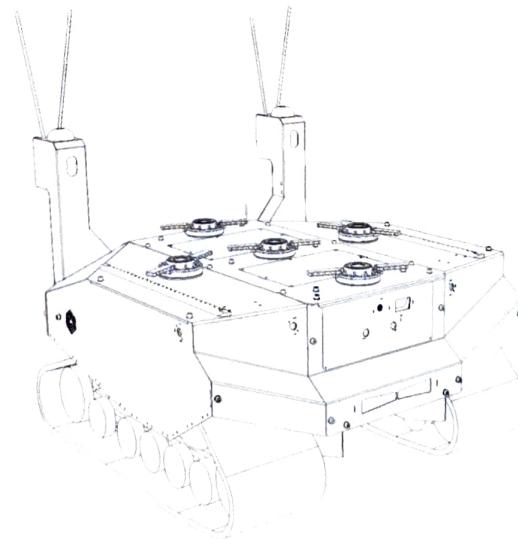


# 03

## GEREON RCS TECHNICAL SPECIFICATIONS

### MEET THE GEREON RCS

The GEREON RCS is a key member of the ARX Robotics family, embodying advanced autonomy, exceptional modularity, and unmatched reliability. Designed to excel in defense and support missions, it delivers optimal versatility for tactical operations, ensuring superior performance across diverse and dynamic environments.



<b>TYP</b>	Robotic Carrier System (RCS)	<b>OP TIME</b>	Up to 72 hours
<b>SPEED</b>	Up to 30 km/h	<b>SENSORS</b>	LiDAR, thermal, stereo cameras
<b>PAYOUT</b>	Up to 500 kg	<b>CONTROL</b>	Teleoperated & Autonomous
<b>RANGE</b>	Up to 40 km	<b>DATA LINK</b>	Encrypted communication
<b>TERRAIN</b>	All-terrain capability	<b>FEATURES</b>	Versatile platforms

# 04

## MILITARY APPLICATIONS MODULAR SOLUTIONS FOR TACTICAL SUPERIORITY



# 04

## UNLEASHING THE POTENTIAL OF ARX DEFENSE TECHNOLOGY

ARX Robotics delivers next-generation autonomous systems designed to meet the complex demands of modern military operations. With scalable platforms and advanced AI, our solutions adapt seamlessly across 30+ use cases, ensuring unmatched efficiency, precision, and operational versatility.

### Reconnaissance and Surveillance

Autonomous systems with LiDAR and thermal imaging deliver real-time intelligence and continuous situational awareness in high-risk zones.

### Drone Carrier Board

GEREON RCS serves as a robust drone carrier and critical link, providing power, secure data transmission, and a stable platform for rapid deployment and coordinated mission support.

### Casualty Evacuation (CASEVAC)

Autonomous vehicles extract casualties from dangerous areas, providing rapid and safe medical support.

### Tactical Logistics Support

ARX platforms transport supplies safely across rugged terrain, minimizing risks to personnel and ensuring timely resupply.

# 04

## FROM PARTNER TO PRIME WITH TRUSTED ALLIES

ARX Robotics works with top defense and tech partners to deliver modular solutions for drones, surveillance, and radar systems, ensuring mission readiness.



Drone Launcher

Drone Port

Optronics

Ground Radar

Surveillance Radar



# 04

## ARX IN ACTION: ENHANCING READINESS ACROSS EUROPE

From NATO's Enhanced Forward Presence in Lithuania to Forward Vigilance in Slovakia, ARX Robotics plays a critical role in redefining modern defense. With systems rigorously tested in multinational training exercises and the largest autonomous fleet deployed in Ukraine in collaboration with the Ministry of Defense, ARX delivers mission-critical capabilities where readiness and resilience matter most.

Already integrated into numerous exercises and real-world scenarios, ARX systems excel in reconnaissance operations, providing advanced intelligence and situational awareness. Whether supporting NATO missions or enhancing national defense strategies, ARX empowers forces with modular technology, AI-driven solutions, and unmatched operational precision—proving our value in every mission environment.



# 04

## ARX IN ACTION: ENHANCING READINESS ACROSS EUROPE

**Most western-built UGS deployed in Ukraine**



**Systems:** GEREON RCS

**Mission:** Transport & Evacuation

**Learnings:** Multiplication of units, extended operational range, modular adaptability, and simple, robust functionality outperform high-tech systems, ensuring mission effectiveness and streamlined deployment by unit or platoon

**Enhanced Forward Vigilance Slovakia**

**Systems:** GEREON in collaboration with Puma tank units (GER)

**Mission:** Reconnaissance, CASEVAC, and logistical support

**Learnings:** Modular design enabled rapid mission adaptation



**Enhanced Forward Presence Lithuania**

**Systems:** GEREON RCS

**Mission:** Surveillance, reconnaissance, and large-area monitoring

**Learnings:** Proven autonomous capabilities along NATO's borders



# 05

## COMMERCIAL USE-CASES DRIVING DUAL-USE INNOVATION FOR CIVILIAN APPLICATIONS

ARX Robotics brings advanced technology to civilian industries, offering modular, adaptable systems that enhance efficiency, reliability, and operational versatility across diverse environments.

### Critical Infrastructure Monitoring

Autonomous systems patrol sensitive sites such as power plants, oil pipelines, and airports, using AI to detect threats and respond to incidents in real-time.

### Logistics & Supply Chain Support

ARX robotics optimize material transport in warehouses, factories, and remote industrial sites, integrating seamlessly into existing logistics systems.

### Crisis Response & Recovery

Unmanned vehicles navigate hazardous zones for debris removal, supply delivery, and real-time mapping, supporting efficient search-and-rescue efforts.

### Industry Safety & Surveillance

Advanced robotics monitor public spaces and transportation hubs, enhancing security through real-time data analysis and AI-assisted decision-making.

# 06

## THE ARX ROBOTIC FRAMEWORK MITHRA OS

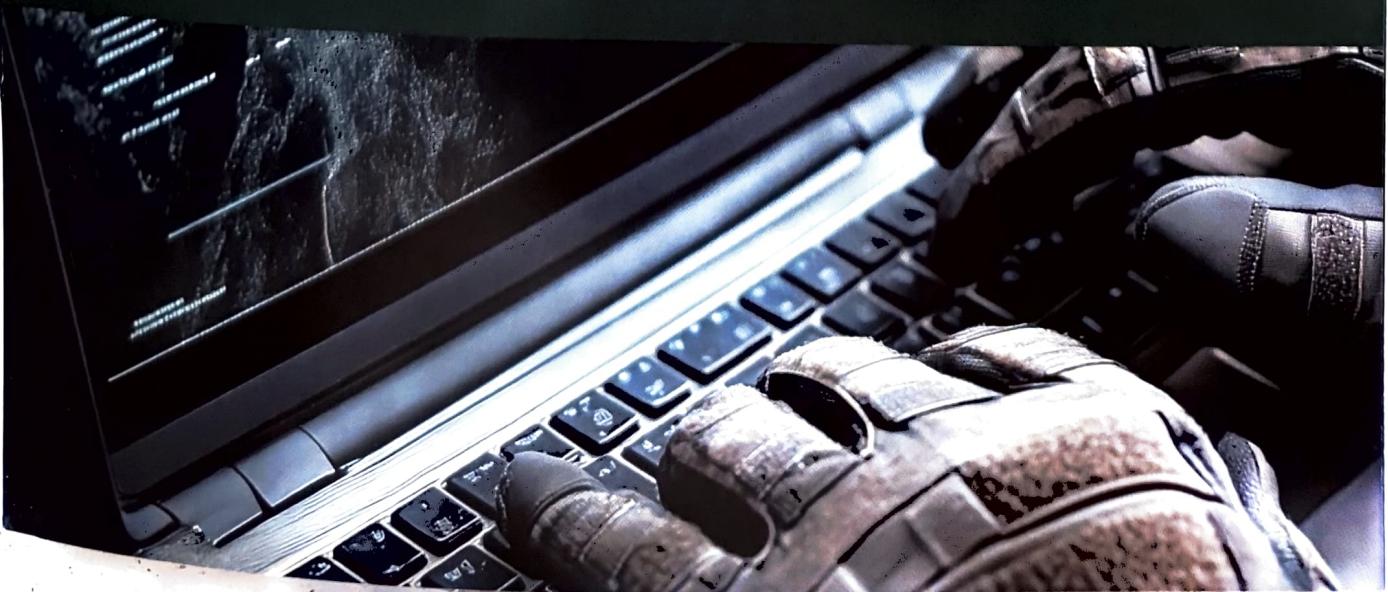
The ARX Robotic Framework is the foundation for scalable and flexible systems, combining robust mechanical design, standardized hardware, and advanced AI. This framework seamlessly integrates legacy platforms and paves the way for Mithra OS, unlocking the full potential of autonomy.

**MECHANICAL &  
ELECTRICAL DESIGN**  
MODULAR SCALABILITY  
CENTRIC DESIGN APPROACH



**SOFTWARE ENABLED  
HARDWARE**  
HARMONIZED OFF THE  
SHELF COMPONENTS

**ARX MITHRA OS**  
OPEN INTERFACES  
STANDARDIZED SOFTWARE &  
AI SUPPORTED AUTONOMY



# 06

## MITHRA OS THE CORE OF ARX ROBOTICS



### LEGACY AUTONOMY FRAMEWORK

Transforms outdated vehicles into intelligent, connected systems with AI and advanced sensor capabilities.



### INTERCONNCETIVITY & SWARMING PILOT

Coordinates multi-unit missions, integrating unmanned and manned systems for seamless and efficient operations.



### SITUATIONAL AWARENESS SUITE

Processes live sensor data (LIDAR, thermal, stereo imaging) to deliver instant insights for faster, smarter mission execution.



### OVER-THE-AIR UPDATES

Ensures systems stay adaptable to evolving mission requirements with instant software upgrades.

# 06

## UXS ALLIANCE THE FUTURE IS UNMANNED

At ARX Robotics, our commitment to innovation, reliability, and adaptability has earned the trust of key players in defense, technology, and beyond. As a founding member of the UXS Alliance, we have been driving transformative solutions from day one, redefining autonomy and modularity through strong partnerships and collaborative projects.



# UXS ALLIANCE

LEADERS OF THE UNMANNED FUTURE

**A strategic network of industry leaders,  
united to accelerate the development  
and deployment of unmanned systems  
across Europe and worldwide.**

# 08

## CONTACT



**ARX**  
ROBOTICS

**ARX ROBOTICS GMBH**

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**STAY CONNECTED TO THE EVOLUTION  
OF LAND DOMAIN SOLUTIONS.**