



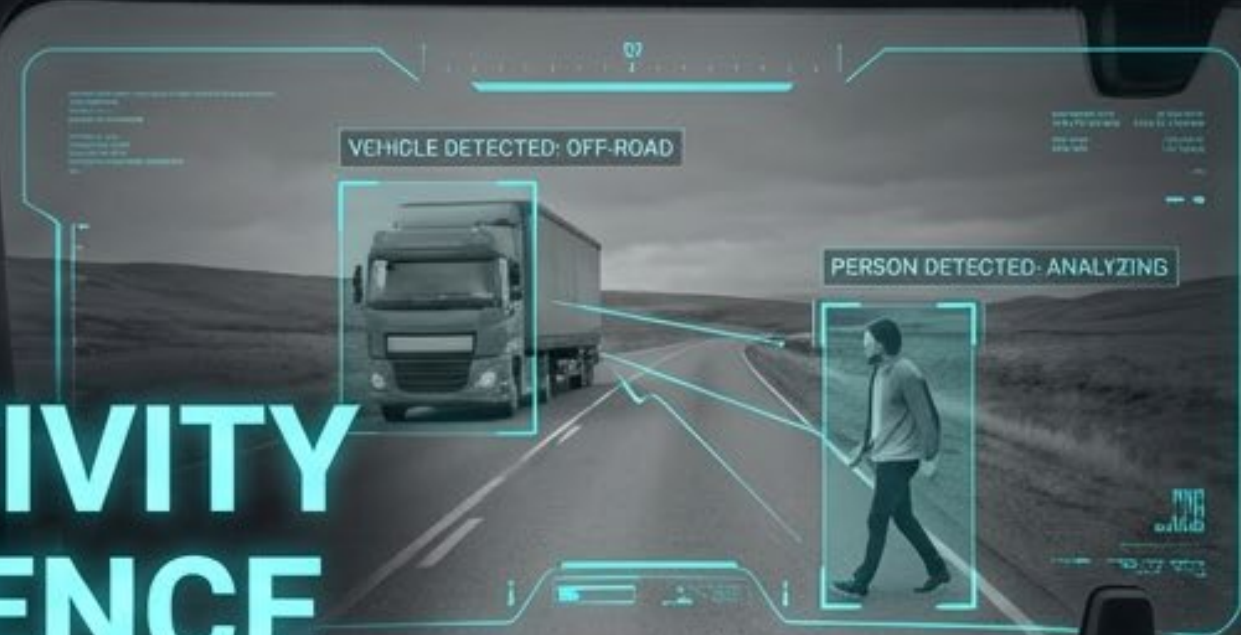
*FORZA INTELLIGENZA*

# **Global Connectivity** and **Hybrid Artificial Intelligence**

Integrated solutions for monitoring, security, and  
asset management in real-time.



# WHERE CONNECTIVITY MEETS INTELLIGENCE



## Intelligence Without Borders

Challenges in remote operations often force a choice: connection speed or data depth. We offer both. We combine the global reach of satellite connectivity (Starlink) with the immediate precision of Edge AI

# HYBRID ARCHITECTURE: THE POWER OF EDGE AND CLOUD

## ZONE A: EDGE AI



- Nanobox
- Zero Latency
- Works Offline (ADAS, DSM, LPR)

## ZONE B: CLOUD AI

Cloud Processing



- Dashboards and Big Data
- Machine Learning
- Audit and Compliance

INTELLIGENT SYNCHRONIZATION

# UNINTERRUPTED CONNECTIVITY VIA VELOCE TERMINALS

Your operation never  
goes off-grid.

**VELOCE**  
INTELLIGENZA

SIGNAL STRENGTH: 86%  
LATENCY: 35ms  
SATELLITE LOCK: ACTIVE



- High Bandwidth & Low Latency
- Live Video on Demand
- OTA (Over-the-Air) Updates
- Operational Continuity: AI runs locally even without signal.



VEHICULAR



MINI



BACKPACK  
(MOCHILA)

# PLATFORM ADAPTED FOR MILITARY OPERATIONS AND EXTREME ENVIRONMENTS



Enables local processing,  
secure communication and  
autonomous operation even  
without network infrastructure.



VEHICULAR

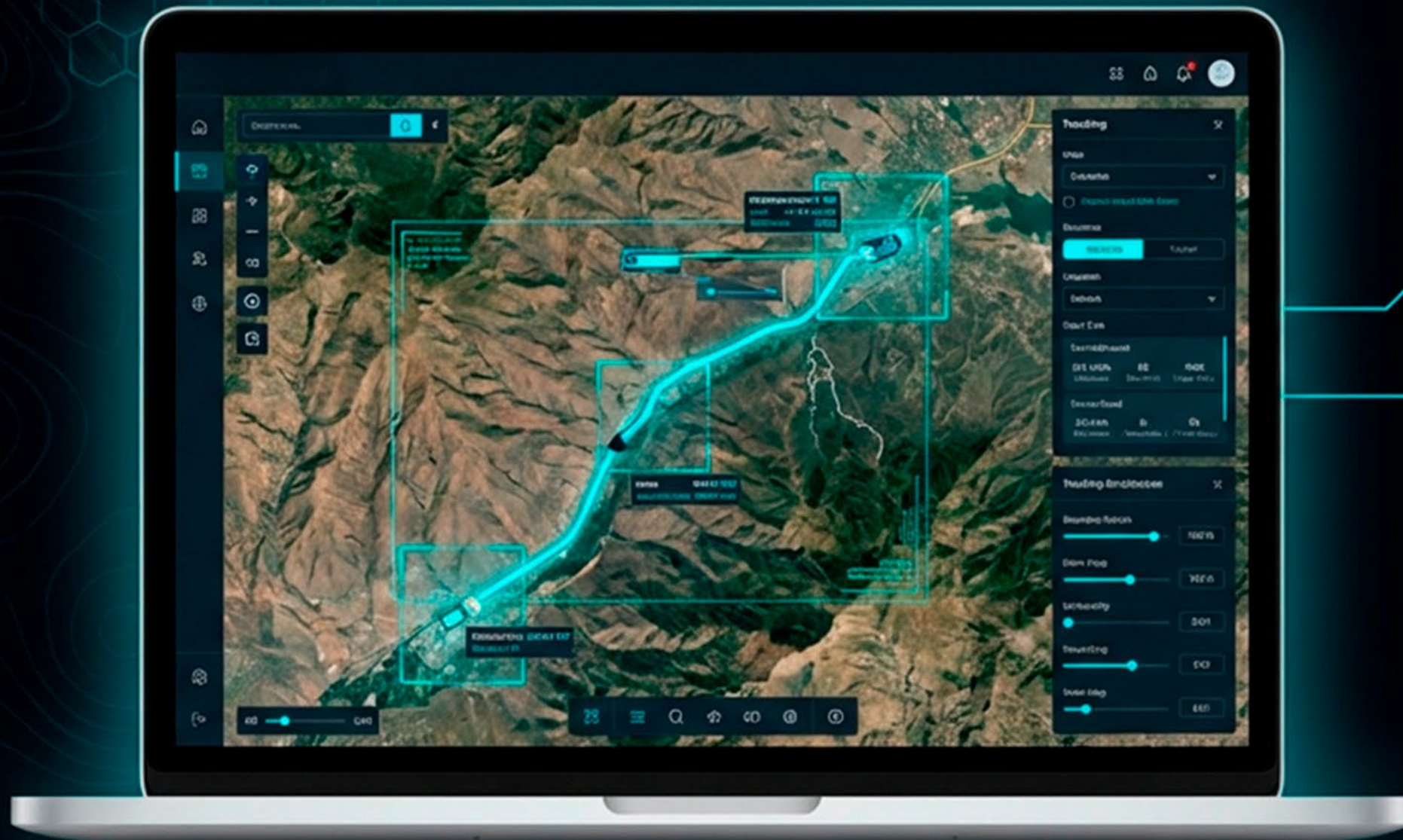


MINI



BACKPACK

# THE VELOCE INTELLIGENZA PLATAFORM



## Deployment Models:



SaaS (Public Cloud  
AWS/Kamatera)



Private Cloud (Azure,  
Oracle, On-Premise)



Multi-tenant and  
Scalable



Open API for  
Integrations

# Integrated AI Ecosystem

MILITARY DEFENSE OVERVIEW



ACTIVE  
360°  
COVERAGE

AI SCAN



TERRAIN ANALYSIS  
IN REAL TIME

THREAT DETECTED



THREAT DETECTED



RECOMMENDED ROUTE



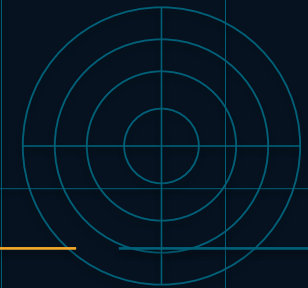
SAFEST ROUTE  
WITH CONFIDENCE



Edge AI + Satellite Connectivity

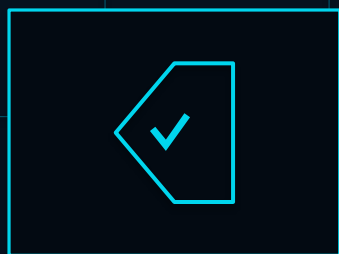
# Intelligent 360° Monitoring

## ELECTRONIC SENTINEL



### THREAT

Operator cognitive fatigue and ambushes in blind spots.



### SOLUTION

Active perimeter-detection AI. The system analyzes the vehicle's 360° surroundings, automatically identifying human signatures or suspicious vehicles and issuing tactical alerts before the threat becomes visible to the crew..

# Intelligent 360° Monitoring

## Electronic Sentinel



360° Scan



HUMAN SIGNATURE



SUSPICIOUS VEHICLE



HUMAN SIGNATURE

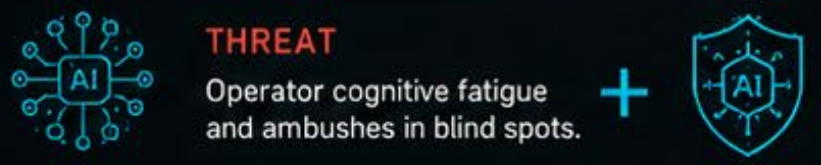


**TACTICAL ALERT**  
Threat detected in a blind spot.

**OPERATOR MONITORING**

**FATIGUE DETECTION**  
THREAT LEVEL

THREAT LEVEL  
↓ 72%

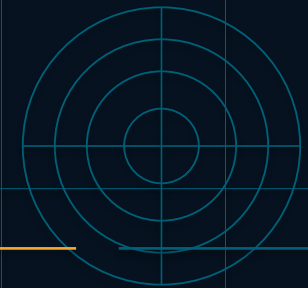


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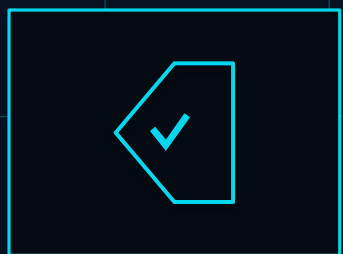
# Readiness and Equipment Control

## SOLDIER READINESS



### THREAT

Mission deployment with incomplete equipment or missing personal protective equipment (PPE).



### SOLUTION

AI Setup Verification. Cameras scan soldiers during boarding and disembarkation to confirm, through computer vision, the presence of helmets, ballistic vests, correct weaponry, and gas masks. The system blocks deployment if the safety protocol is not met.



# Readiness and Equipment Control

## SOLDIER READINESS



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## DEPARTURE BLOCKED



NON-COMPLIANCE DETECTED

DEPLOYMENT PROCEEDS ONLY WITH 100% COMPLIANCE

- HELMET OK
- VEST OK
- WEAPON OK
- AMMUNITION OK
- MASK OK
- COMMS OK
- GPS OK

SETUP VALIDATED

- MASK MISSING

- HELMET OK
- VEST OK
- WEAPON OK
- AMMUNITION OK
- MASK OK
- COMMS OK
- GPS OK

SETUP VALIDATED

- HELMET OK
- VEST OK
- WEAPON OK
- AMMUNITION OK
- MASK OK
- COMMS OK
- GPS OK

SETUP VALIDATED

- HELMET OK
- VEST OK
- WEAPON OK
- AMMUNITION OK
- MASK OK
- COMMS OK
- GPS OK



### CAMERAS

Capture 360° in real time



### COMPUTER VISION AI

Automatically analyzes and verifies required items



### SETUP VALIDATION

Conformity verified in seconds

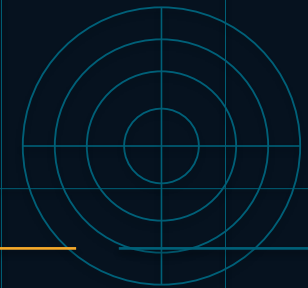


### READINESS CONFIRMED

Authorized deployment with safety assurance

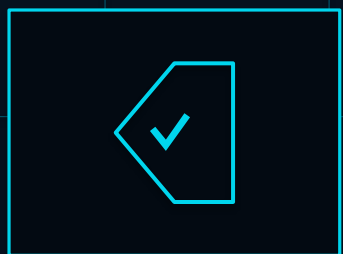
# Hybrid Inventory Management

## STATIC + MOBILE



### THREAT

Loss of military materiel and lack of visibility over supplies in transit, also known as “Logistics Fog.”



### SOLUTION

Digital Inventory Twin.

**Static:** Cameras in warehouses audit pallet and ammunition inflows and outflows using AI.

**Mobile:** The in-vehicle system records field consumption and replenishment. Central Command visualizes the consolidated total inventory in real time via Veloce.

# Hybrid Inventory Management

## Static + Mobile



### THREAT

Loss of military materiel and lack of visibility over supplies in transit ('Logistics Fog').



### SOLUTION

Digital Inventory Twin.

#### WAREHOUSE



#### CONTINUOUS AI AUDIT

Cameras in warehouses audit pallet and ammunition inflows and outflows using AI.

#### INFLOWS

- AMMUNITION 12,540
- FUEL 8,730 L
- SPARE PARTS 5,260
- PIECES 2,180

#### OUTFLOWS

- AMMUNITION 4,120
- FUEL 2,350 L
- SPARE PARTS 1,240
- PIECES 780

#### CONSOLIDATED INVENTORY

REAL TIME

AMMUNITION	42,680
FUEL	28,950 L
SPARE PARTS	18,760
PIECES	9,340



#### SYSTEM SYNCHRONIZATION

#### SYNCHRONIZATION

- Unified data
- Real-time updates
- Low latency and high reliability
- End-to-end data security

#### FIELD



#### IN-VEHICLE SYSTEM

Records field consumption and replenishment.

#### CONSUMPTION

- AMMUNITION 3,250
- FUEL 1,820 L
- SPARE PARTS 980
- PIECES 430

#### REPLENISHMENT

- AMMUNITION 2,950
- FUEL 2,000 L
- SPARE PARTS 1,100
- PIECES 520

#### CENTRAL COMMAND

Visualizes the consolidated total inventory in real time via Terminal Veloce.



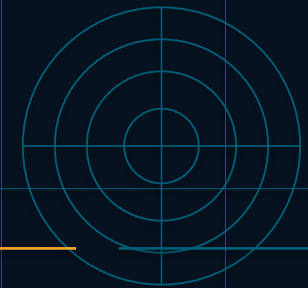
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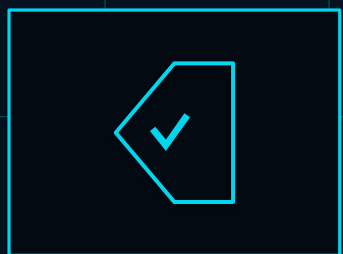
# Convoy Protection and High-Risk Logistics

## SUPPLY CHAIN RESILIENCE



### THREAT

Cargo sabotage and human fatigue on critical routes.



### SOLUTION

A combination of DSM — Driver Monitoring System — to prevent accidents caused by drowsiness or distraction, and Cargo Sensors to detect immediate breaches in doors or fuel tanks.

# Convoy Protection and High-Risk Logistics

## Supply Chain Resilience



### THREAT

Cargo sabotage and human fatigue on critical routes.



### SOLUTION

Combination of DSM (Driver Monitoring) to prevent accidents caused by drowsiness or distraction, and Cargo Sensors to detect immediate breaches in doors or fuel tanks.

### CONVOY STATUS



All systems operational

**OPERATIONAL**



Cargo integrity

**100%**



Mission progress

**72%**

### COMMAND AND CONTROL



Real-time location



Vehicle telemetry



Cargo sensors



DSM – Driver Monitoring



Secure communications



Automatic reports

### MISSION RESILIENCE



Threats detected

**03**



Incidents prevented

**03**



Time on mission

**01:42**



### DOOR BREACH

Attempt to open door not authorized



### MONITORED FUEL TANK

Fuel integrity: OK



CRITICAL ROUTE  
Active monitoring

### DRIVER MONITORING



### FATIGUE DETECTED

Probability of drowsiness elevated

**87%**



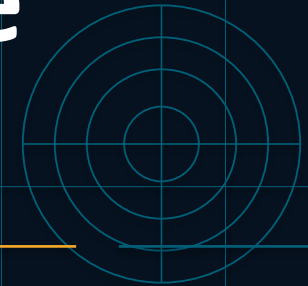
### DISTRACTION

Eyes off road detected

**65%**

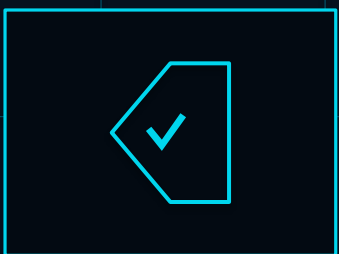
# Tactical Reconnaissance and Terrain Intelligence

## INTELLIGENCE IN MOTION



### THREAT

Slow identification of targets or vehicles of interest in high-traffic areas.



### SOLUTION

Integrated License Plate Recognition (LPR) and Facial Recognition. The AI-enabled vehicle acts as a mobile intelligence collector, cross-referencing the movement of people entering or leaving security perimeters with military intelligence databases.

# Tactical Reconnaissance and Terrain Intelligence

**⚠ THREAT**  
Slow identification of targets or vehicles of interest in high-traffic areas.

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Integrated License Plate Recognition (LPR) and Facial Recognition. The vehicle acts as a mobile intelligence collector, cross-referencing the movement of people entering or leaving security perimeters with military intelligence databases.



AI in the Field.  
Intelligence in Motion.

## FACIAL RECOGNITION



TARGET OF INTEREST

## INTELLIGENCE DATABASE



- MILITARY UNITS
- HISTORICAL DATA
- PATTERNS OF INTEREST
- ACTIVE ALERTS



SECURE CONNECTION



SECURE PERIMETER

LPR

51 · QX · 27

LPR

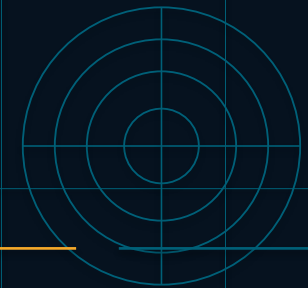
P 51 · QX · 27

VERIFICATION COMPLETE



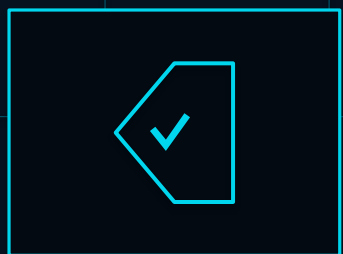
# Critical Connectivity in Hostile Environments

## SYNCHRONIZATION AND COMMAND



### THREAT

Loss of control due to lack of signal in conflict zones or remote areas.



### SOLUTION

Native integration with the Veloce Terminal. This ensures that all AI data — even when processed locally at the edge — are synchronized with Central HQ for high-level strategic decision-making.

# Critical Connectivity in Hostile Environments

## Synchronization and Command

**THREAT**  
Loss of control due to lack of signal in conflict zones or remote areas.

**SOLUTION**  
Native integration with Terminal Veloce.  
This ensures that all AI data—even when processed locally at the edge—are synchronized with Central HQ for high-level strategic decision-making.

**SATELLITE LINK**  
Secure, global connectivity via Terminal Veloce.

**LOCAL EDGE AI**  
Processes data and makes decisions in real time.

**CENTRAL HQ**  
Unified situational awareness and strategic command.

**SECURE SYNCHRONIZATION**  
Data, voice, and video in real time.

**NO OPERATIONAL LOSS**  
Continuous operations, even in denied or degraded environments.

Local Edge AI + Satellite Link

**LOCAL DETECTION**  
Edge AI identifies threats and critical events.

**AUTONOMOUS DECISION**  
Immediate actions, even without connectivity.

**SYNCHRONIZATION**  
Data and decisions synchronized with Central HQ

**TOTAL SYNCHRONIZATION**  
Up-to-date information in HQ and across all units.



## **Veloce Forza Vehicular — Military performance on the move**

Everything the V4 Vehicular delivers, hardened for combat and high-risk environments. Features hybrid 4G/LTE connectivity with automatic failover and intelligent load balancing, ensuring the link stays live even when satellite signal is challenged.



**Veloce Forza Mini Vehicular — Compact.  
Fortified. Mission-ready.**

All the connectivity of the Veloce Mini Vehicular, built to withstand punishment. A structurally reinforced chassis — 150% stronger than the standard shell — combined with triple-layer waterproofing makes this unit virtually impervious to field abuse, water ingress, and mechanical stress.



**Veloce Forza Portabile Mini — Total autonomy.  
Military protection**

The portability of the Veloce Portabile Mini, taken to a military standard. Equipped with an integrated internal battery for fully off-grid operation, and built to military-grade protection specifications — ready to perform in the field, no matter the terrain or threat level.

# THE FUTURE OF REMOTE OPERATIONS IS NOW



Connectivity + Artificial Intelligence. Solution ready for immediate implementation. Schedule a Proof of Concept (POC).

<https://www.velocebrasil.com/>