TESS SPACE
OFF-ROAD AUTONOMY.

Mission-ready **autonomous ground systems** for defence

Tess Space develops autonomous UGV platforms, AI guidance and navigation systems, and mission planning software for defence applications.

Our solutions enable fast deployment, autonomous off-road mobility, and reliable operation in comms and GNSS-challenged environments.

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www.tess-space.com

TESS SPACE
OFF-ROAD AUTONOMY.

MISSION-READY AUTONOMOUS UGV PLATFORM



- High-speed mobility
- GNSS-denied navigation
- On-the-spot decision-making
- Configurable payload

TESS SPACE
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OUR SOLUTIONS

What we sell

1 UGV Platform

Complete autonomous all-terrain UGV platform for defence support missions.

- Top speed: 40 km/h
- Payload: up to 80 kg
- Modes: Teleoperation, waypoint autonomy, autonomous navigation, person following



2 AI GNC Computer + Sensor Pack

Retrofit autonomy system for third-party UGVs

- Comms and GNSS-denied navigation
- Onboard perception, localization, and planning
- Edge compute with camera, IMU, and optional RTK
- Terrain-aware autonomy and obstacle avoidance



3 Mission Planning Software

Operator software for mission planning, supervision, and control.

- Map-based mission setup
- Live vehicle status and route updates
- Geofencing and task management
- Single or multi-vehicle supervision



Available as a complete system or as integration modules for third-party UGVs

USE CASES

Autonomous support across defence missions



1 Drone delivery & deployment

Deliver and deploy drones to forward positions



2 ISR & reconnaissance

Observe, detect, and report with onboard sensors.



3 Logistics & resupply

Transport payloads and resupply forward units.



4 CASEVAC support

Support casualty evacuation and medical logistics.



5 Perimeter patrol

Autonomous patrols for persistent area monitoring.



6 Squad support / follow

Follow personnel and assist in mission activities.

MODULAR

Open architecture for easy integration.

RELIABLE

Designed for demanding field environments

SECURE

Secure communications and data by design.

SCALABLE

From single-vehicle to multi-vehicle operations