

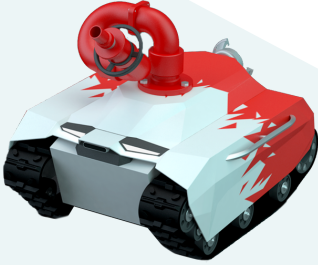


LeoTronics

# DESIGNED FOR CHALLENGES

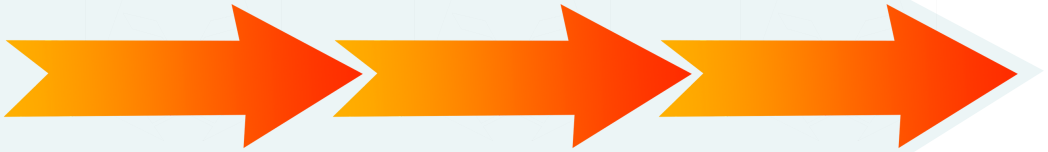
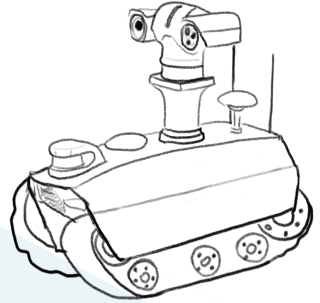


# PRESENT AND FUTURE



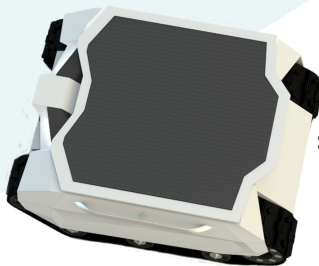
**2020-2021**

Universal transport platform  
TrackReitar for moving loads up to 120 kg and logistic support.



**2021-2022**

Lightweight firefighting robot  
TrackReitar FFL for fire fighting at critical infrastructure facilities and for support fire brigades.

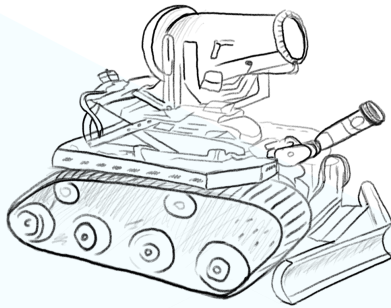


A reconnaissance robot TrackPatrol gathers information by detecting obstacles and environmental conditions through sensors, cameras, and images that the operator can analyse and make evidence-based decisions.

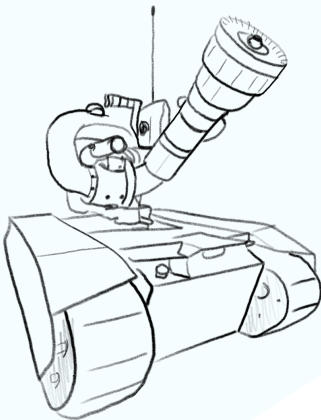
# OF LEOTRONICS' ROBOTS

Medium size  
firefighting  
robot

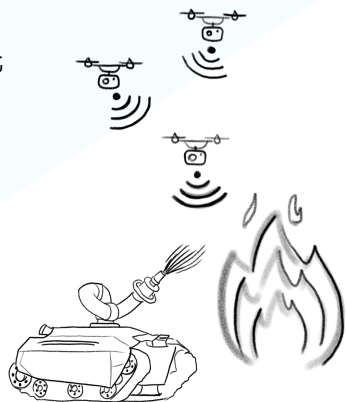
TrackReitar MS  
is designed for  
firefighting in  
complex  
environments.



AI-based  
firefighting system  
includes a wide  
range of mobile and  
stationary robotics,  
sensors and  
software for early  
detection and  
suppression of  
ignition sources.

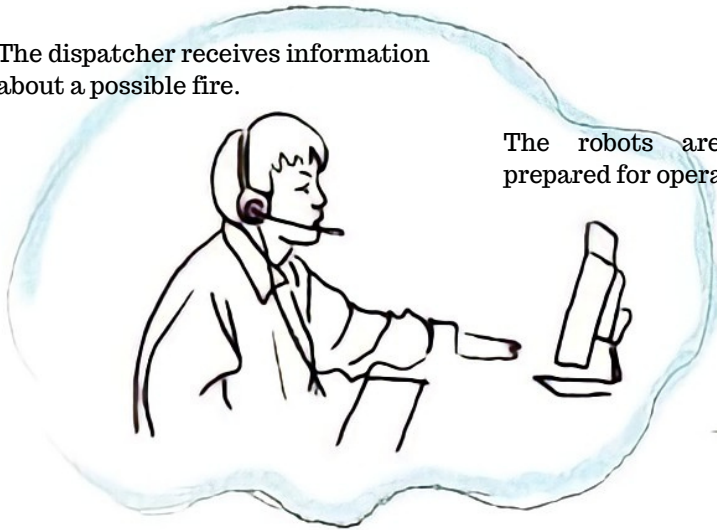


Heavy-duty  
firefighting robot  
TrackReitar HD  
is designed for  
firefighting in  
very complex  
environments  
such as forest  
fires, industrial  
fires, etc.

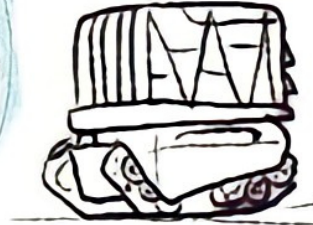


# FIGHTING FIRES AND DISASTERS

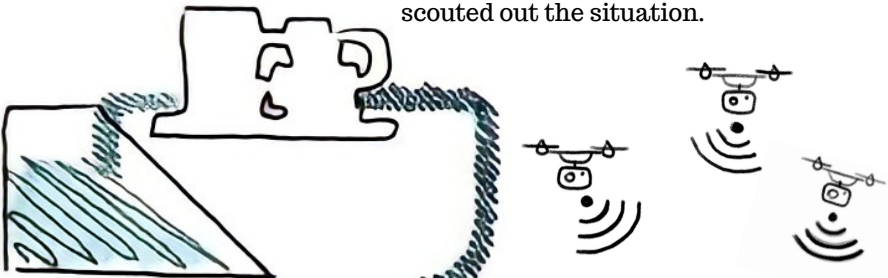
The dispatcher receives information about a possible fire.



The robots are unloaded and prepared for operations.



A reconnaissance robots and drones are scouted out the situation.



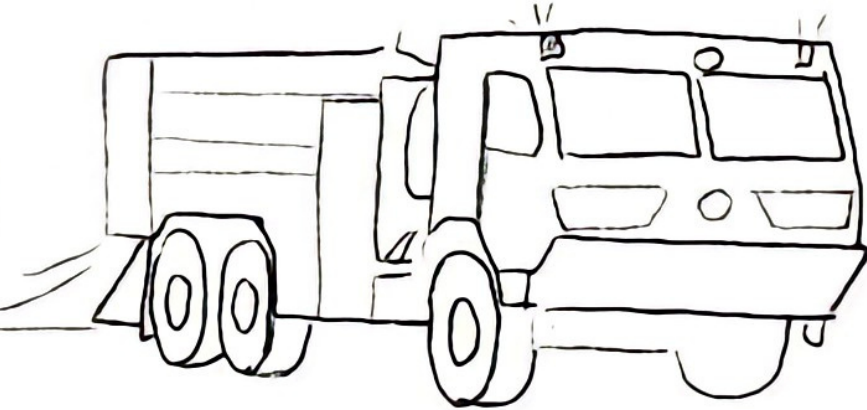
Firefighting robots and hose extension robots travel to locations near the source of the fire.





# WITH ROBOTICS, AI, AND IOT

A vehicle transports the firefighting robots to a fire location.



The water cannon and hose extension robots automatically lay hoses out and extinguish the fire.



Firefighters are at a safe distance from the fire and operate robots remotely.

# COOPERATION WITH THE FIRE DEPARTMENT OF THE SLOVAK REPUBLIC

The LeoTronics team works closely with the fire department of the Slovak Republic. Field tests began in August 2021 at the fire station in Dudince.

Firefighters note the vital need to use firefighting robots to suppress fires and work in conditions where it is dangerous for a person to be.



Based on the field test results, it was decided on further cooperation between LeoTronics and the fire department to create an affordable fire robot that best meets the needs of firefighting teams.



Currently, two modifications of the light firefighting robot TrackReitar FFL are presented:

- Fire robot for work in critical infrastructure enterprises, the fire extinguishing system's capacity is up to 4800 l / min. It can extinguish a fire at a distance of at least 80 m with a water jet.
- The second modification of the robot is equipped with a fire monitor with 1200 - 2400 l / min capacity. This robot extinguishes a fire at a distance of at least 60 m. This robot is more suited to fieldwork.



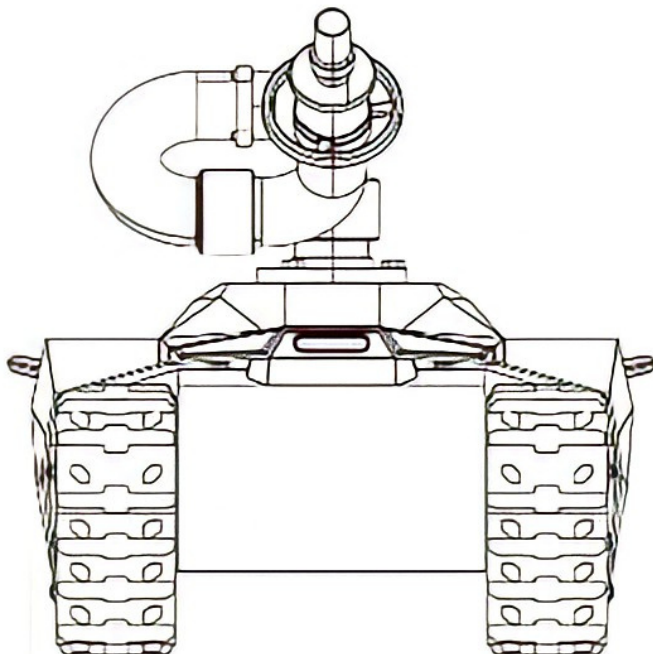
Close cooperation with fire departments at an early stage of development allows the LeoTronics engineering team to implement all the functions necessary for efficient operation.

Currently, work is underway on an artificial intelligence system that quickly and accurately determines the ignition source and ensures the supply of extinguishing agents directly to the fire site, minimising economic losses from the incident.



# SPECIFICATIONS OF THE UNIVERSAL TRACKED PLATFORM TRACKREITAR

- Dimension (L x B x H), mm: 1030 x 800 x 400
- Wheelbase 360 mm
- Obstacle ability 170 mm Weight 135 kg
- Rated travelling load: 120 kg (standard), options up to 200 kg
- Operating temperature -20...+60°C (standard)  
Maximum speed 10 km/h
- Charger AC220-240V
- Charging time 6...7h (standard)
- Battery 48V30Ah (standard)
- Motor power 2 x 650 W



# SPECIFICATION OF THE OSCILATING RC CONTROLLED FIRE MONITOR TR-4800

- Stainless steel 304 construction
- Elevation stream range of 60°, from +30° to +90° (angle adjustable)
- Horizontal 360° (angle adjustable)
- Stainless steel spikes for extended resistance to wear
- Nozzle has a built-in stream sharper
- Available for straight stream and fog pattern
- Control system with RC transmitter and control panel
- Control distance: 100 m (standard)
- Servomechanism system
- Battery is quickly removable
- Long service and easy repair
- Liquid-filled pressure gauge

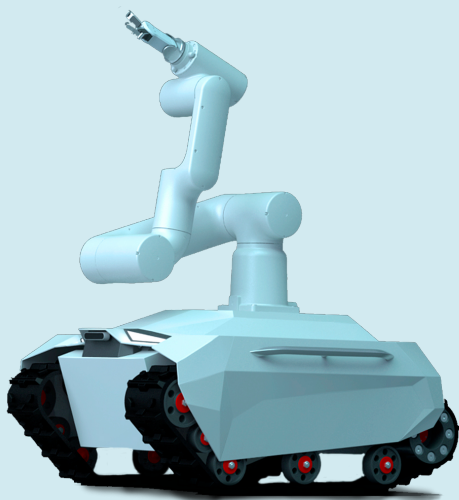
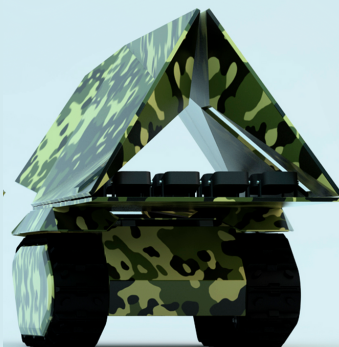


- Flow rate 1200-4800 LPM, automatic nozzle
- Water Jetting Range: Max ≥80 meters@4800LPM
- Working Pressure: 10-12 bar (1.0-1.2 MPa)



## TrackReitar Police and TrackReitar Shield

Mobile bulletproof shields for police/defence force tasks with "Follow me" functions



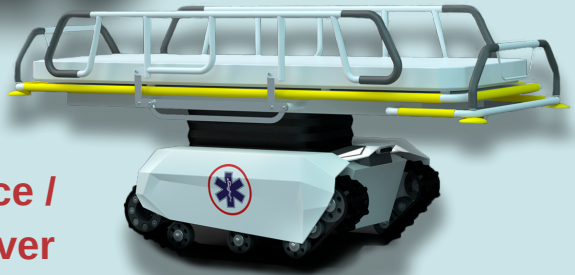
## TrackReitar GoFa

Mobile robot for firefighters and emergency forces for work with hazardous, explosive objects and different tools. Combines a mobile platform and collaborative robot.





## TrackReitar Defence / TrackReitar Lifesaver



These robots Support emergency/military forces by facilitating casualty evacuation of injured people. The robot transports wounded people to a safe place in autonomous mode.

## Leo Helper

Autonomous robots for automation of commercial tasks: delivery robots, logistic robots, robot waiters, etc. It can be designed for various applications.





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Products presented on 20th International  
Fire Fighting Equipment and Service  
Fair in 2021, pavilion Z, place number 016



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