

# RIANA SC

## A robot for radiological mapping of containers



### Scope

#### Radiological mapping of radioactive material containers before shipment

- System enabling the radiological mapping of the underside of containers
- Wireless robot-assisted mapping with autonomous navigation
- Dose rate measurement at point of contact

#### Supervision and traceability of data

- Control of the robot from a remote control station
- Real-time 2D mapping to identify areas of interest to be investigated by contact
- Real-time display of dose rate measurements
- Automatic recording of data for each investigation performed

### Advantages

- **QUALITY**  
Elimination of non-quality costs related to inspection errors prior to shipment of containers
- **SIMPLICITY**  
Simple solution deployable in minutes
- **ADAPTABILITY**  
Wireless standalone solution with capability to include additional radiological measurements
- **NUCLEAR SAFETY / RADIATION PROTECTION**  
Remote control to reduce the radiological impact on the operator
- **OCCUPATIONAL SAFETY**  
Elimination of risks for the operator during the operation

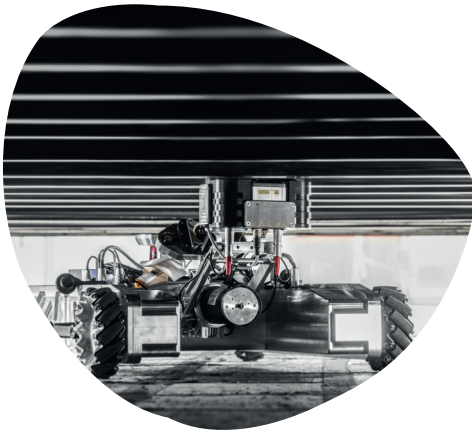
### Key data

- **Wireless mobile base with omnidirectional wheels**
- **Autonomous navigation below the container**
- **Probe elevation system for contact measurements**
- **Real-time transmission of radiological data and creation of 2D mapping**
- **Extended measurement range (via two measurement probes) from a few tens of nSv/h to a few Sv/h**
- **Recording of mapping for traceability**

# Strengthening safety and quality of radiological inspection operations on containers

## Our services

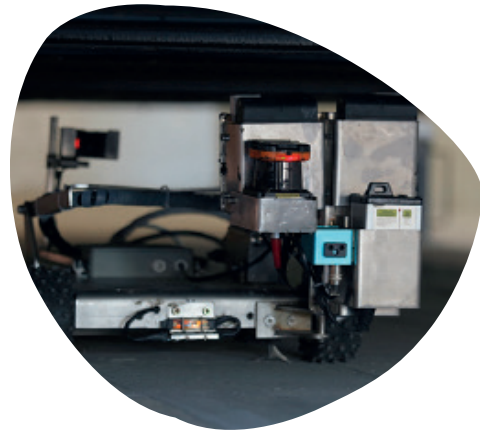
- **Global measurement service** with provision of both the service and the suitably adapted equipment
- **Inspections on your premises by an experienced team in close collaboration with your own teams**
- **Provision of data** (radiological and physical readings/measurements), which remain **your property**



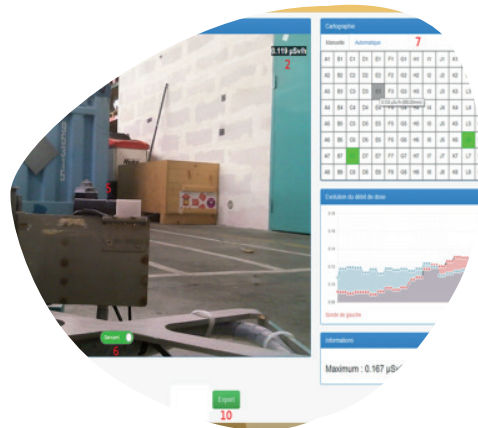
## Our references

### Orano DS

- **TRIADE classified facility (ICPE):** Implementation since 2015 for the inspection of waste containers before shipment



Provision of the new version RIANA SC in 2018 specified from operating feedback



## Orano DS

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