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Robot / Platform specifications and capabilities Form

(Please, attach this document to the Team Information Form)

This form is used by the European Robotics League (ERL) to collect essential information about the robot or robotic system a team intends to use in one or more ERL episodes.

The information provided will be used for eligibility assessment, safety checks, episode allocation, and operational planning. The form is designed to be generic and applies to all ERL competitions, regardless of application domain.

Submission of this form does not guarantee acceptance into the competition.

1. Robot / platform Identification

Robot/ Platform Name:

Robot / Platform Version (hardware/software):

Short system description max. 150 words *(Briefly describe the robot, its intended purpose, and its main operational capabilities)*

Please inform us about any specifics / features we should know about your robot / platform.

2. Robot Category & Intended Episodes

Please indicate the category that best describes your robot and the ERL episode(s) you intend to compete in:

	Ground Robot
	Aerial robot (drone)
	Climbing robot
	Clamping robot
	Service / social robot
	Other (please specify):

Please indicate the intended ERL Episode you want to compete in:

	Episode 1: Smart Robotics in Inspection and Maintenance
	Episode 2: Robotics for Coastal Protection and Nature Preservation
	Episode 3: Robotic Solutions for Emergency Response and Public Health
	Episode 4: Smart City Robots - 'Barista' Bots
	Episode 5: Smart City Robots - Clever Sand Management – Robot platform based
	Episode 5A: Smart City Robots - Clever Sand Management – Lego platform based *(please only fill in question 1 to 6 and tick the declaration box)*

3. Physical Characteristics Robot / Platform weight:

Robot / Platform Dimension *(L x W x H)*:

Robot / Platform total weight *(including batteries and payload)*:

Robot / Platform Maximum payload capacity *(if applicable)*:

Robot / Platform Power source *(battery type, voltage)*:

Typical mission duration under load:

Please note that values may be approximate. Final compliance will be checked during on-site safety inspection.

4. Mobility & Locomotion

Robot / Platform Cruise speed:

Robot / Platform Maximum speed:

Robot / Platform Navigation System and accuracy:

Please, select the option that applies to your robot /platform:

	Robot / Platform has the ability to stop immediately *(please describe how)*
	Robot / Platform does not has the ability to stop immediately *(please describe how the robot/platform will be stopped)*

5. Autonomy & Control

Please, select the option that applies to your robot / platform *(multiple answers possible)*:

	Full remotely piloted *(during manipulation tasks)*
	Fully Autonomous
	Autonomous with safety override
	Teleoperated *(used as a fallback or safety mechanism)*
	Other:

6. Communication

Please describe the communication technologies and frequency bands used to communicate with the robot or platform (e.g. WiFi, radio link), including whether communication is required during mission execution or only for monitoring and safety.

6. Sensors & Perception

List all onboard sensors used for perception, navigation, detection, or interaction *(multiple answers possible)*:

	Cameras *(RGB / depth / thermal)*
	LiDAR
	Radar
	Ultrasonic / Infrared
	IMU *(Inertial Measurement Unit)*
	GPS / GNSS *(if applicable)*
	Environmental sensors *(optional)*
	Other:

7. Navigation & Localisation

Describe how the robot localises itself and navigates during a mission. Fields to consider are:

- Primary localisation method(s)
- Use of GPS (if applicable, optional, or unreliable)
- Mapping method (if any)
- Expected positioning accuracy (approximate)

8. Data Handling & Storage

Data stored onboard during the run:

	Yes
	No

Types of stored data:

	Logs
	Sensor data
	Images
	Alert sound
	Alert light
	Other:

8. Safety & Risk Mitigation

Safety is a core requirement of all ERL competitions. Does the robot/platform comply with ERL safety requirements as mentioned in the competition handbooks, including the presence of an emergency stop and fail-safe mechanisms?

	Yes
	No

Description of emergency stop mechanism:

Please describe the robot's/ platform's automatic fail-safe behaviour in case of system failure, loss of communication, or emergency stop:

Please describe the robot's/ platform's known risks and mitigation measures:

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☐ We confirm that the information provided in this form is accurate to the best of our knowledge. We understand that providing this information does not guarantee acceptance into the European Robotics League and that final eligibility decisions are made by the ERL organization.

Name Team Leader | Date | Signature Team Leader

Send form to: *erik.anspach@erl2026.eu*