

Category Selection	Disaster Robotics Category	ID Number	WRS123456789
● Challenge Selection	Tunnel Disaster Response and Recovery challenge		
Tunnel Physical Robot			
● Team Name	WRSWRSWRS		
● Affiliation			
● Team Members			
Leader Name	Member 1 Name		
Leader Affiliation	Member 1 Affiliation		
Leader Age	Member 1 Age		
Member 2 Name	Member 3 Name		
Member 2 Affiliation	Member 3 Affiliation		
Member 2 Age	Member 3 Age		
Member 4 Name	Member 5 Name		
Member 4 Affiliation	Member 5 Affiliation		
Member 4 Age	Member 5 Age		
Member 6 Name	Member 7 Name		
Member 6 Affiliation	Member 7 Affiliation		
Member 6 Age	Member 7 Age		
Member 8 Name	Member 9 Name		
Member 8 Affiliation	Member 9 Affiliation		
Member 8 Age	Member 9 Age		

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- Team Intro Video (URL)

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- (Team) Results from  
other competitions

- (Team) Development  
Results

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- (Team) Awards

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In the case of a tunnel physics robot competition, if the number of participating teams is small, the competition may be canceled and changed to the exhibition.

Disaster Robotics

Tunnel Disaster Response and Recovery challenge

Category

● Team Name

WRSWRSWRS

● Verification of Development Plan

- Strategy

- Technical challenges to face in accomplishing tasks

- Methods for solving the above technical challenges

- Results/knock-on effect of the robot and technology developed (other than accomplishing the task)

- Details of sponsors, or technical advisors (HP etc.)

- Training/practice methods

- Development schedule

● Desired support			
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● Estimate of income and expenditure (for purpose of calculating support)

•About the Robot (※Please create one sheet for each robot that participates.)

ID番号 WRS123456789

Disaster Robotics Category Tunnel Disaster Response and Recovery

●Team Name WRSWRSWRS

●Outline of developed robot (program)	
- Robot Name	
- Image of exterior, CAD drawing.	
- Movement Mechanism	
- Robot's total weight	
- Weight when shipping (example of transport)	
- Dimensions when shipping	
- Robot's dimensions (Before/After a competition mission begins)	
- Time needed to prepare (From unloading to being assembled)	
- Time taken to set up (from powering up to moving off)	
- Main driving-motor (motor, internal-combustion engine etc.)	
- Fuel consumption (if an internal-combustion engine is used)	

- Fuel tank capacity (if an internal-combustion engine is used)	
- Displacement of internal-combustion engine (cc)	
- Operating time from a full fuel tank	
- Electricity consumption (if battery is main source of power) (Standby/average/max)	
- Battery running time (Standby/Normal use/Bearing heavy loads)	
- Gross weight of battery charger	
- Amount of energy used to charge	
- Charging time (80%、100%)	
- Battery specifications (Type, voltage, capacity)	
- Battery weight	
- Top speed (Level ground/Outside/Uneven ground)	
- Payload (average/max)	
- Operating arms: Number (single arm, dual arm)	

- Arm: At tallest	
- Arm: Payload (largest)	
- Arm: Power (electric, hydraulics)	
- Misc.	
- Manufacturing cost	
- Transmission type (wired/wireless)	
- Types of sensor (exterior sensors, internal sensors)	
- Type of camera	
- Details of sensor used for environment recognition	
- Details of sensor used for movement	
- Details of software used (OS, package information etc.)	
- Hardware details (Maker, model number)	
- Motor	

- Gearhead	
- Encoder	
- Motor driver	
- DC/DC converter	
- Battery	
- Charger	
- Controller	
- Computer unit	
- Wi-Fi adapter	
- Control console specifications (portable dimensions/ dimensions when in use/energy consumption/electrical source specs. Etc.)	
- Cooperation: Will it work together with other robots?	
- Cooperation: If so, give concrete details of expected cooperation including robots' names	

- Relation with simulation robot (If so, please give details)	
• Special Notes	
- Waterproof/dust-proof (Example entry: IP64 etc.)	
- Energy saving measures (If measures are employed, describe in detail)	
- Explosion-proof	



Role in Development		Role on the Day of the Competition	
ID No.	WRS123456789	Leader	Leader
Name			
Nationality			
Area of expertise		1/2 page per team member (2 team members per page). Please create another page to add more team members' details.	
Accomplishments at robotic competitions.			
Development accomplishments at company or university etc.			
Awards			
Role within this project			
ID No.	WRS123456789	Leader	Leader
Name			
Nationality			
Area of expertise			
Accomplishments at robotic competitions.			
Development accomplishments at company or university etc.			
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Role within this project			