1. Control Commands

Topic	Message Type	Purpose
/ackermann_cmo	dackermann_msgs/AckermannDriveStamped	Send steering angle, speed, and acceleration commands.
/cmd_vel	geometry_msgs/Twist	Alternative for basic velocity control (simpler but less detailed than Ackermann messages).

2. Feedback/State

Topic	Message Type	Purpose		
		Feedback on the current		
/ackermann_state ackermann_msgs/AckermannDriveStamped steering angle, speed, and				
		acceleration.		
/odom	nav_msgs/Odometry	Odometry data (position,		
/ odom		orientation, velocity).		
		Feedback from steering/drive		
/joint_states	sensor_msgs/JointState	joints (e.g., wheel angles, motor		
		RPM).		

3. Sensor Data

Topic	Message Type	Purpose
/imu/data	a sensor_msgs/Imu	Inertial Measurement Unit (IMU) data (orientation, angular velocity, linear acceleration).
/gps/fix	sensor_msgs/NavSatFix GPS coordinates (latitude, longitude, altitude).	
/scan	sensor_msgs/LaserScan LIDAR or depth sensor data for obstacle detection.	

4. Diagnostics

Topic	Message Type	Purpose
/diagnostics	diagnostic msgs/DiagnosticArray	System health (battery, motor temperature,
		errors).
/battery_state	esensor_msgs/BatteryState	Battery voltage, charge level.

5. Simulation/Visualization

Topic	Message Type	Purpose
/tf	tf2_msgs/TFMessage	Transform tree for robot joints and
/ ti		sensors.
/move_base_simple/goa		Navigation goals (used with ROS navigation stack).
/visualization_marker	visualization_msgs/Marker	Visualize paths, obstacles, or waypoints in RViz.