



# What is DARPA?

**The Defense Advanced Research Projects Agency is the central R&D arm of the Department of Defense with the primary responsibility to conceive, explore, and demonstrate breakthrough system concepts and the most advanced technologies.**





# Urban Challenge

## City Driving

- Obey traffic laws
- Safe entry into traffic flow
- Safe passage through busy intersections
- Safe following or passage of moving vehicles
- Safe passage of a stopped vehicle
- Drive an alternate route when the primary route is blocked
- Safe U-turn





# Program Objective

## Safe autonomous driving in traffic

- **Safe**  
No collisions
- **Capable**  
Turns, stops, intersection, passing, merging, parking, following
- **Robust**  
Blocked roads, erratic drivers, sparse waypoints, GPS outage





# Program Scope

## YES

- **Passing moving vehicles**
- **Merging into traffic**
- **Dirt roads, potholed roads**

## NO

- **Speeds greater than 30 mph**
- **Highway driving**
- **Traffic signals or yield signs**
- **Difficult terrain**