

# **Military Intelligent Vehicle Systems:**

## **National Collaboration Starts Here...**

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**Business Strategist, TARDEC Ground Vehicle Robotics**

**Focus: U.S. DOD Intelligent Vehicle Systems**



# US Army Tank Automotive Research Development and Engineering Center ( TARDEC )



## Ground Vehicle Robotics (GVR)

## Common Challenges



## Common Opportunities



## Common Challenges

## Common Opportunities



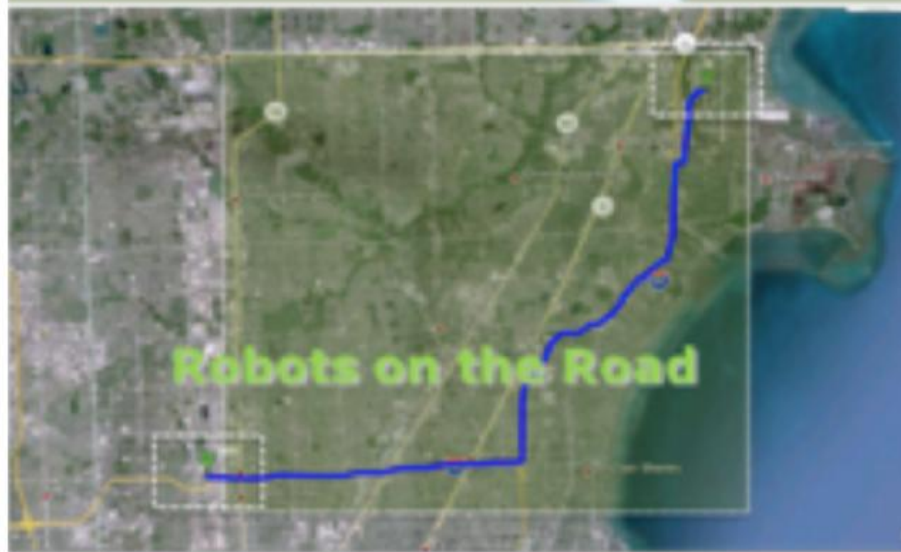
Photo: Reuters



# **Convoy Active Safety Technology**

## **Warfighter Experiment II**





**ARIBO = Living Lab**

# Wanted

**Military robotics application for research and development pilot in operational environment. Must be willing to test and experiment. May initially disrupt “op tempo”. Many bugs to work out and no policies currently exist. Some investment required – amount TBD. Drivers optional.**

**Call Corey (contractor)  
(810) 599-6299**





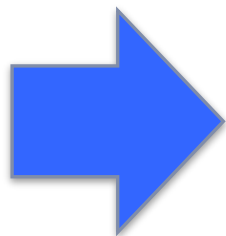
“The Pentagon should spend more to ease stop-and-go traffic outside Joint Base Lewis-McChord and other growing military installations, the National Research Council recommended in a report released Monday.”

<http://www.thenewstribune.com/2011/02/08>

# Business Case Analysis

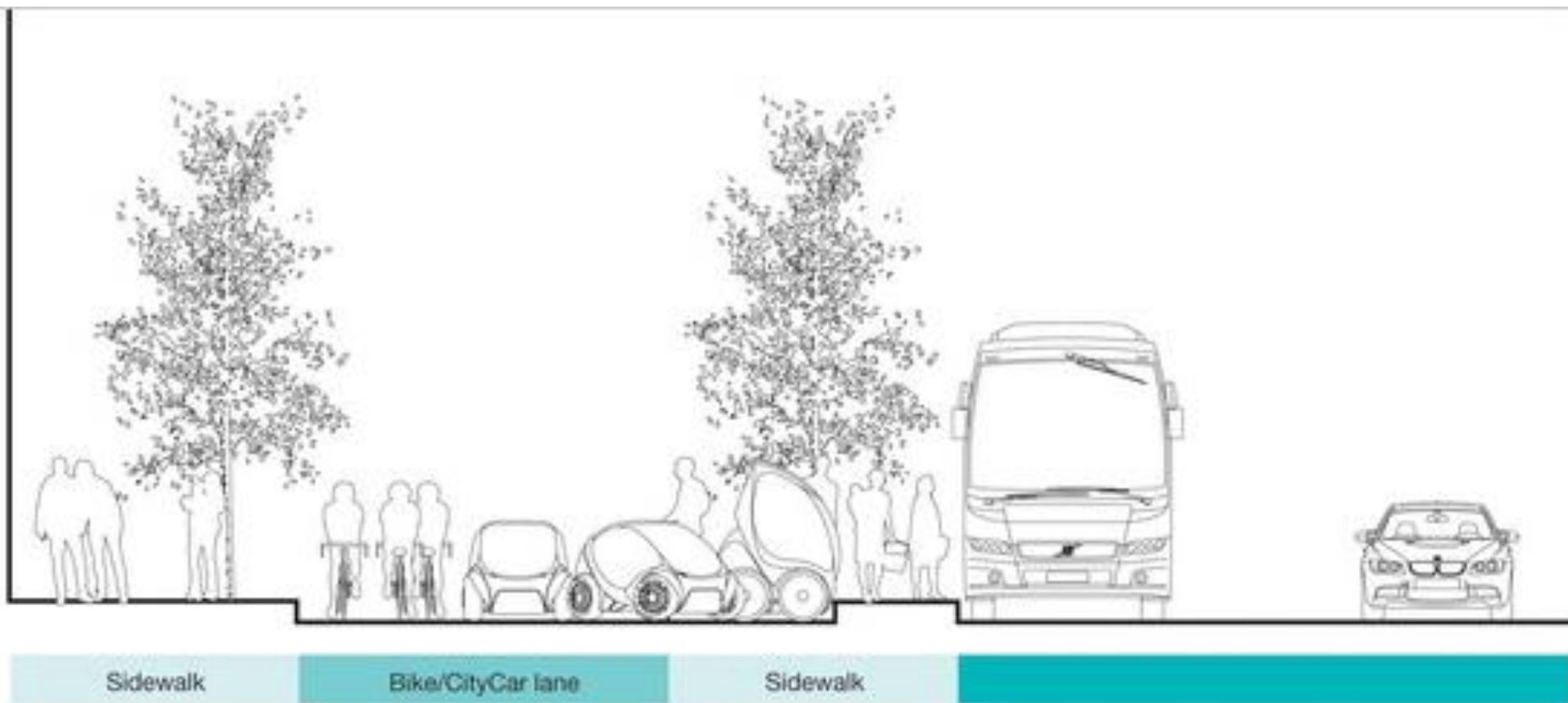
## Highest ROI R&D





## Feed the Tactical Roadmap

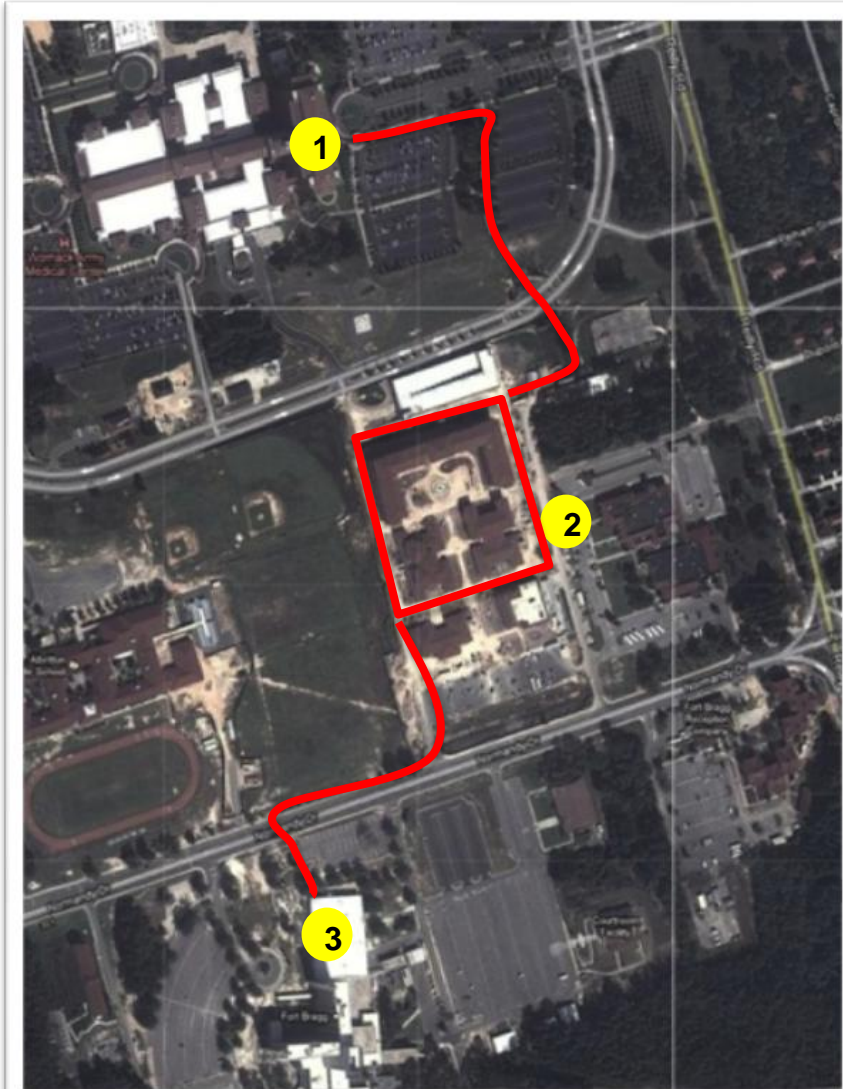




Reinventing The Automobile  
Personal Urban Mobility for the 21<sup>st</sup> Century  
~ Borroni-Bird, Burns, Mitchell

*Connect Womack  
Medical Center to the  
Warrior Transition  
Barracks and the Soldier  
Support Center.*

- 20 vehicles moving soldiers to 400 appointments per day



# ON-Demand Transit



## Networked Electric Vehicle

# ON-Demand Transit



**Kenguru**

**Networked Electric Vehicle**



# Collaborative Innovation: Fort Bragg

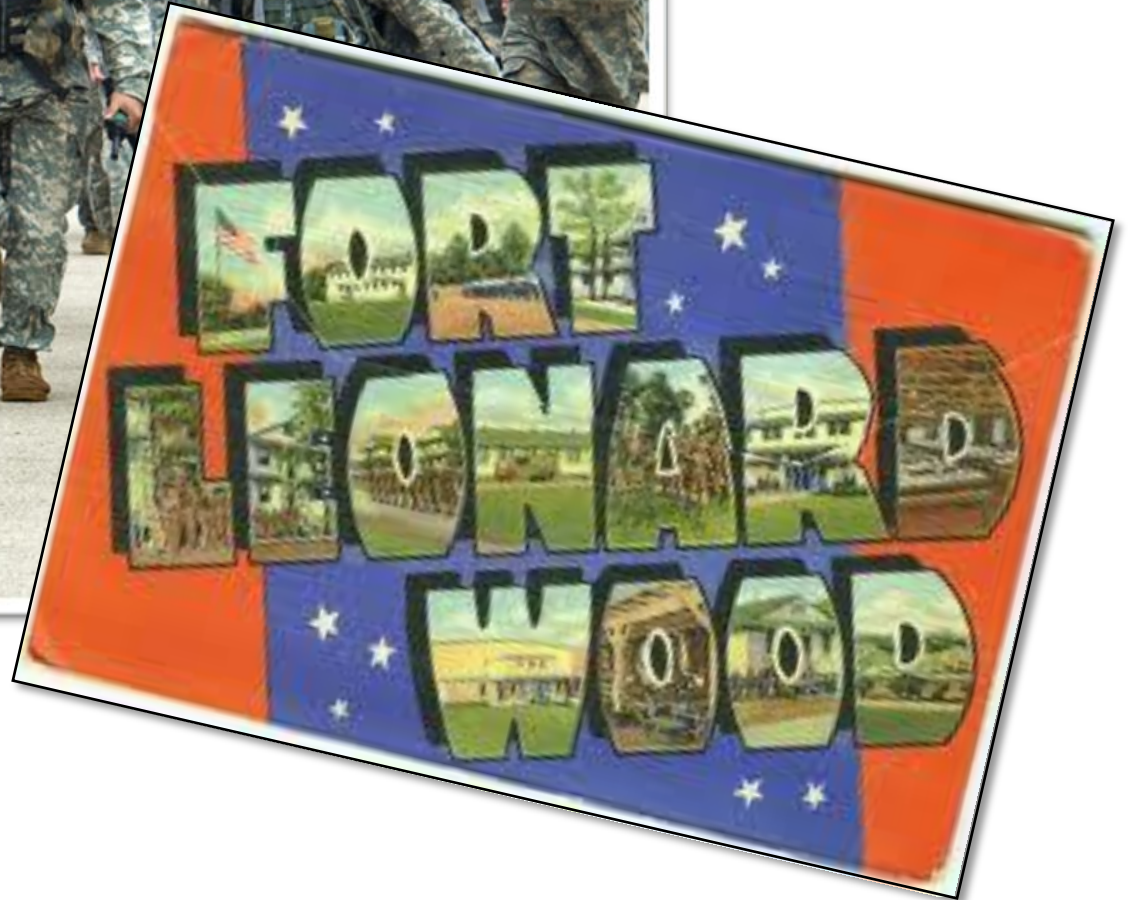


XCube



**POLARIS.**  
The Way Out.

**TORC**





## Practical to Tactical Apps:

1300 students get bused to lunch everyday FROM ONE training range.

- 25 buses needed
- 13 buses available
- **Not Enough Drivers**

## 2 Ideas!

# 1 Driver for 13 Trucks/Buses



***Convoy Active Safety Technology (CAST)***



## WIDE OPEN THROTTLE

## Volvo Autonomous Road Train Hits Public Roads for First Time

Written by: Jason Udy [G+] on May 31 2012 7:00 AM

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ARIBO

Personnel  
Transit

Convoy  
Logistics

Medical  
Logistics

Airfield  
Ops

Range  
Clearance

Warehouse  
Logistics

Seabasing





# Community Operated Living Lab

# Team Members? Possibly YOU!

