

Project54

Introduction

and

Update

Car 54 Where are you ?



Design and Objectives

- Started in 1999 - Partnership with NH DOS (State Police)
- Mobile data availability
- Application Support -
 - Radios, Radar, Records, lights/siren, video, hazmat(CEMS), gun locks, PDA's, Scanners
- Ergonomic Design of cockpit
 - Eyes off / hands off Operation

Project54 Team

- 4 Part -Time faculty members
- 6 Full time Staff members
- 12 Full Time Graduate Students
- 10 Full Time Under-Graduates
- 22 MS Thesis written
- 2 Ph.D. Students in Process
- 33 plus papers published
- (Grad: 20 hours/wk, UG's: less)

High-Speed Pursuit Scenario

The officer needs to pursue a suspect at high speeds

Typical Cruiser

Take hand off wheel

Find control head

Turn on lights

Turn on siren

Start video recorder

Determine location

Pick up radio mic

Alert other officers

Update location

P54 Equipped Cruiser

Say "Pursuit"



The solution



Project54 Status

- Over 1000 vehicles deployed U.S. Wide. Over 150 PD's, 2 State Police Departments, 12 Fire Departments
- Prototype Chrysler Police Vehicle
- Cars, Vans, SUV's, Motorcycles Boats, and ATV's.









Project54 R&D

- PDA applications:
 - fingerprints
 - registration/license scanning
 - Imaging - digital photos
 - control of other devices
 - voice communications

R&D - Cont.- Fire

- Incident Response (Command)
 - Car-to-car communications - digital update
 - Control of attack teams (crews) - personnel management - air packs
 - Remote (in-building communications) - smart buildings
 - Vehicle positions - GPS and mapping

R&D Cont. - basic

- Driving Simulator
 - Develop scenario programs to help train officers
 - Investigate alternate cockpit layouts

R&D - Cont.

- Non-Cruiser Applications
 - Fire Rescue Vehicles
 - Ambulances - EMS support
 - Military vehicles - National Guard
 - Boats / Ships - Marine Patrol - Coast Guard



R&D - Cont.

- Fleet Management
 - Vehicles automatically reporting status
 - Possible 2-way communications
- Passive monitoring
 - License plates - smart plates
 - Sensors - Radiation - Neutron
 - Air born contaminants