

# STARCHASE PURSUIT MANAGEMENT SYSTEM

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Risk Management Bureau

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- ▶ Overview of the system
- ▶ How it works
- ▶ Cost to date & total cost
- ▶ Other pursuit management options
- ▶ Tactical deployment & videos

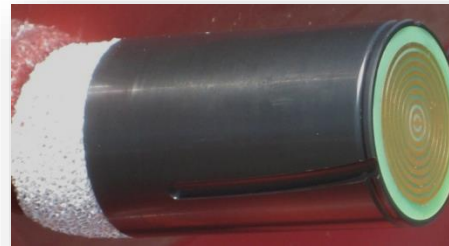
# CONTENTS

- ▶ Launcher
- ▶ In-car console
- ▶ Key fob remote
- ▶ Laser targeting system
- ▶ Projectile—GPS equipped “tag”
- ▶ Web-based tracking & mapping

PURSUIT MANAGEMENT TECHNOLOGY

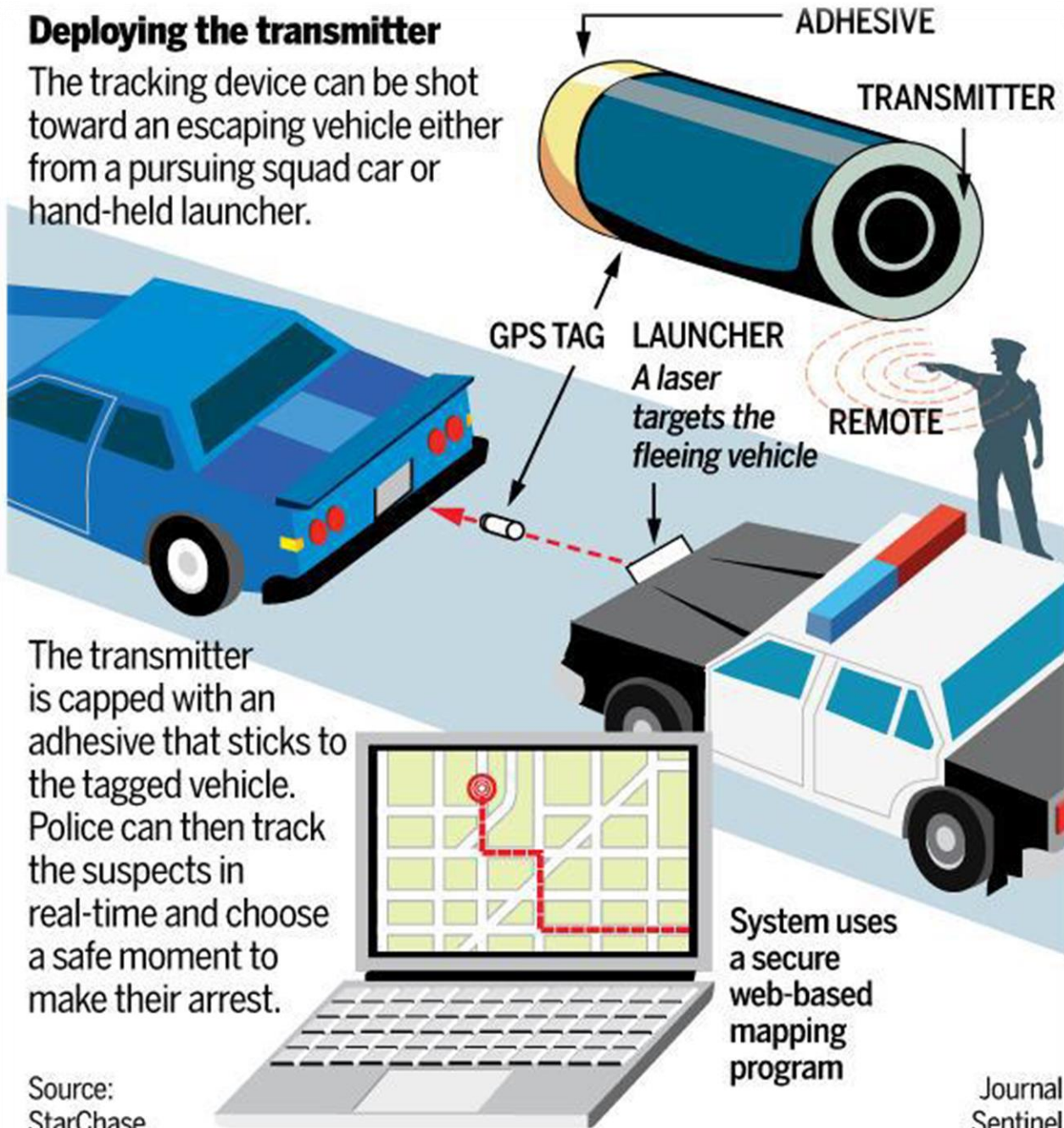
# SYSTEM COMPONENTS

1. Console
2. Launcher
3. GPS projectile
4. Key fob remote



## Deploying the transmitter

The tracking device can be shot toward an escaping vehicle either from a pursuing squad car or hand-held launcher.



The transmitter is capped with an adhesive that sticks to the tagged vehicle. Police can then track the suspects in real-time and choose a safe moment to make their arrest.

Source:  
StarChase

Journal  
Sentinel

# HOW IT WORKS

- ▶ Phase 1 installation \$30,510 (Dec. 2015)
- ▶ Phase 2 installation \$40,680 (Mar. 2016)
- ▶ Total \$71,190
  
- ▶ Phase 3 installation \$30,510 (May 2016)  
& system upgrades

COST TO DATE...

▶ Launcher system & controls	\$92,000
▶ Installation	\$9,700
▶ Warranty & maintenance (2 yr.)	\$0.00*
▶ Training	\$0.00
▶ Data, mapping & support	\$0.00
▶ Unlimited user access	\$0.00
▶ GPS projectiles	\$0.00

**TOTAL SYSTEM COST**

The NIJ is the research, development, and evaluation agency of the U.S. Department of Justice and is dedicated to improving knowledge and understanding of crime and justice issues through science. NIJ provides objective and independent knowledge and tools to reduce crime and promote justice, particularly at the state and local levels.

**NATIONAL INSTITUTE OF JUSTICE**



- ▶ Tire deflation devices
- ▶ Electronic discharge devices (EMP)
- ▶ Directed energy devices (EMP & microwave)
- ▶ Remote tracking of fleeing vehicles

<http://www.nij.gov/topics/law-enforcement/operations/traffic/pages/technology-developments.aspx#tiredeflator>

TECHNOLOGY DEVELOPMENTS IN PURSUIT  
MANAGEMENT (NIJ)

- ▶ NIJ funded research and development
- ▶ Field research included deployment of 40 units
- ▶ Assessment by University of South Carolina
  - 75% reported they would slow down or stop when out of view
  - 80% apprehension rate
  - No injuries or property damage

## NIJ RESEARCH

- ▶ Nosecone development for better overall adhesion
- ▶ Adhesive development for optimization in cold and wet conditions
- ▶ Updating targeting laser to include an audible alert when in optimal range
- ▶ Ruggedizing launcher and compressor

## LIMITATIONS & DEVELOPMENT

- ▶ Austin PD (TX)
- ▶ Arizona Dept. Public Safety
- ▶ Montgomery PD (AL)
- ▶ Byron PD (GA)
- ▶ St. Petersburg PD (FL)
- ▶ US CBP—San Diego, CA
- ▶ Lawrence PD (IN)
- ▶ Spokane PD (WA)
- ▶ Delta PD (BC)
- ▶ Abbotsford PD (BC)
- ▶ Rockdale County SO (GA)
- ▶ Lee's Summit PD (MO)
- ▶ Lucas County SO (OH)
- ▶ Escambia County SO (FL)
- ▶ Palm Beach PD (FL)
- ▶ Orlando PD (FL)

## OTHER DEPARTMENTS USING SPMT

## Chief's Order and Training Bulletin (12-7-15)

“GPS tags shall only be deployed in accordance with training by members conducting legally justified traffic stops.”

**MPD TACTICAL DEPLOYMENT**

## Chief's Order and Training Bulletin (12-7-15)

“StarChase shall not be deployed if the suspect vehicle is a motorcycle or if people are between the StarChase equipped vehicle and the suspect vehicle.”

**MPD TACTICAL DEPLOYMENT**

## Chief's Order and Training Bulletin (12-7-15)

“Upon successful deployment, pursuing units shall fall back, allowing the suspect vehicle to continue as if the pursuit had been terminated.”

**MPD TACTICAL DEPLOYMENT**

## Chief's Order and Training Bulletin (12-7-15)

“In certain circumstances, supervisors may determine that squads should continue to pursue a vehicle that has been successfully tagged.”

**MPD TACTICAL DEPLOYMENT**



## Chief's Order and Training Bulletin (12-7-15)

“A Communications supervisor shall monitor the tracking system, communicate locations to members in the field, and direct resources to locate and apprehend suspects.”

**MPD TACTICAL DEPLOYMENT**

**General:** User: • Car: 226 • Date: 3/8/2016 • Time: 8:00:04 AM

**Sensors:** ■ Ignition • □ Crash • □ Door • □ Brake • □ Lightbar • □ Siren • □ Shotgun  
□ Mic1 • □ Mic2



**GPS:** Latitude: 43° 4.18' N • Longitude: 87° 56.21' E • Speed: 11.0 • Direction: 228.2° SW

**Radar:** Target Speed: \*\*\* • Target Lock: \*\*\*

**General:** User: • Car: 226 • Date: 3/14/2016 • Time: 10:44:05 AM

**Sensors:** ■ Ignition • □ Crash • □ Door • ■ Brake • □ Lightbar • □ Siren • □ Shotgun  
□ Mic1 • □ Mic2



**GPS:** Latitude: 43° 6.32' N • Longitude: 87° 56.65' E • Speed: 35.6 • Direction: 5.4° N

**Radar:** Target Speed: \*\*\* • Target Lock: \*\*\*

**General:** User: • Car: 226 • Date: 2/29/2016 • Time: 2:07:57 PM

**Sensors:** ■ Ignition • □ Crash • □ Door • ■ Brake • □ Lightbar • □ Siren • □ Shotgun  
□ Mic1 • □ Mic2



**GPS:** Latitude: 43° 5.16' N • Longitude: 87° 56.21' E • Speed: 29.6 • Direction: 159.4° SSE

**Radar:** Target Speed: \*\*\* • Target Lock: \*\*\*

END

Questions?

