



# Sustainable Technology Evaluation and Demonstration (STED) Program

## Biobased Tire Demonstration



### Technology Description

Goodyear tire technology uses domestic soybean oil to replace petroleum oil in tire tread compound; commercially available in seven tire lines (4 passenger, lt. truck, refuse, bus, and EV).

### Potential Impact

- Potential for DoD to reduce industry petroleum consumption by approximately 596,000 gallons per year if implemented DoD-wide.
  - DoD operates 71K non-tactical passenger vehicles with an average tire life of two years.
  - Approximately seven gallons of petroleum oil are used to manufacture one passenger tire and the biobased tread technology replaces 60% of this petroleum oil.

### Benefits

- Increases performance in various weather / operating conditions.
- Remains flexible across a broad temperature range, improving wet and snow traction.
- Increases wet and dry handling and braking.
- Reduces treadwear.
- Reduces petroleum use.

### Demonstration Sites

- Shaw AFB
- Moody AFB
- Tyndall AFB
- JBLE
- FBI TEVOC
- DHS Federal Law Enforcement Training Center (FLETC)

### For additional information please contact:

- [osd.mc-alex.ousd-a-s.mesg.dod-sted-program-mbx@mail.mil](mailto:osd.mc-alex.ousd-a-s.mesg.dod-sted-program-mbx@mail.mil)
- Department of Defense (DoD) Sustainable Products Center (SPC):  
<https://www.denix.osd.mil/spc/index.html>



Shaw AFB