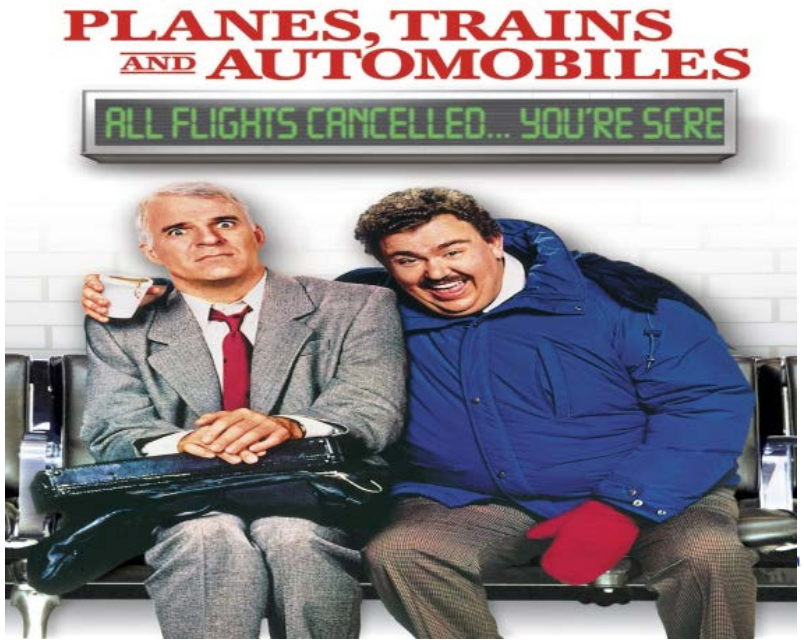


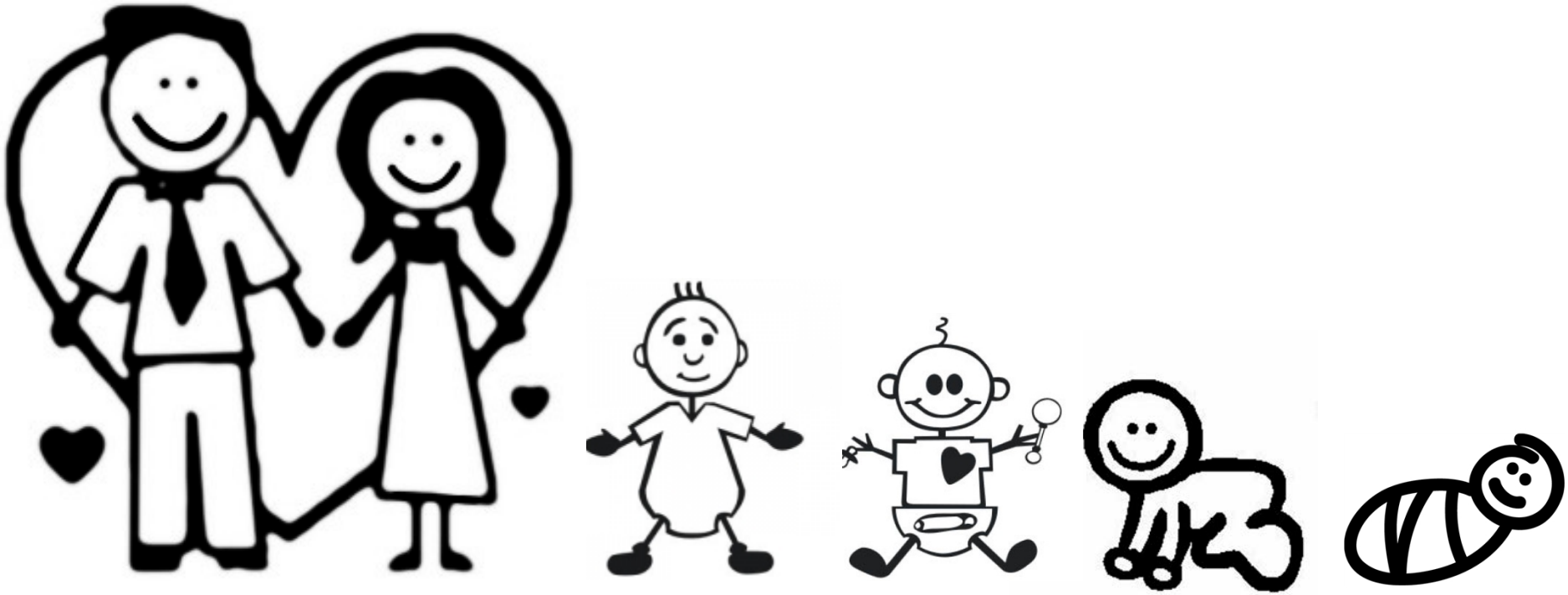
TDOT
Department of Transportation

Planes, Trains and Automobiles is SO 1987; Drones, Platooning and Autonomous Vehicles is so NOW

Dan Pallme, Assistant Chief of Freight

Freight Movement Technologies

- Meet the Raphelds



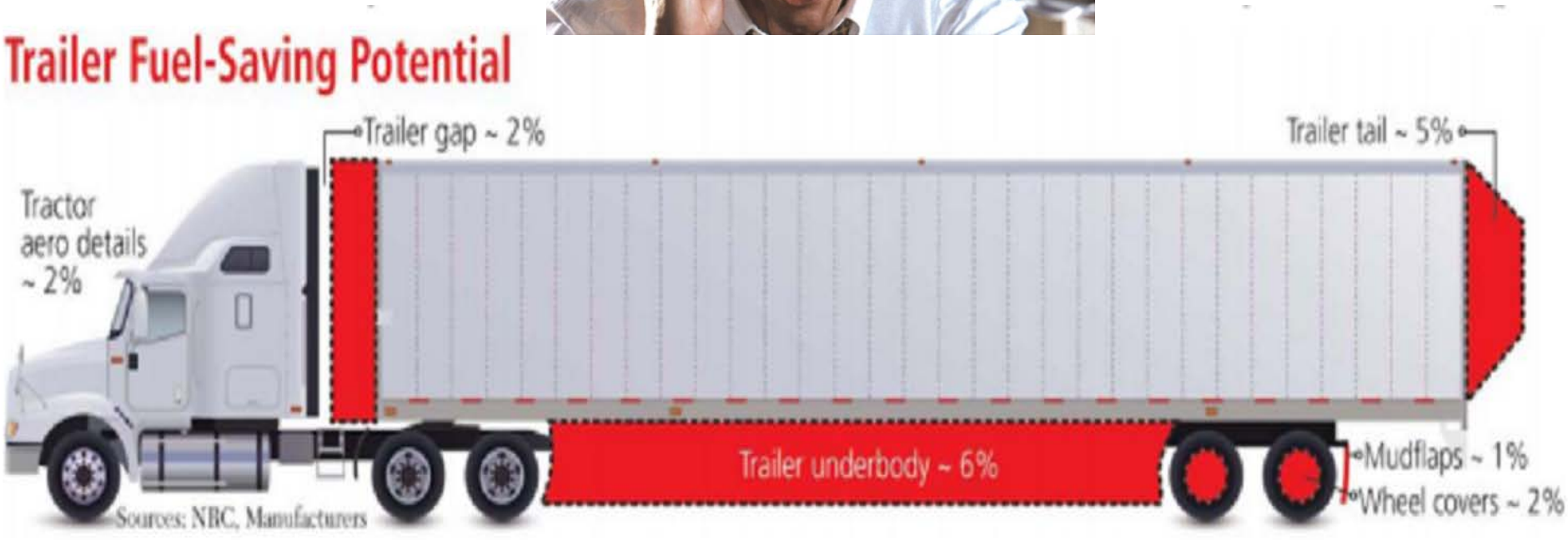
Freight Movement Technologies - Today

- What is the current environment of freight?

Freight Movement Technologies - Today

- Electronic Logging Devices
- Speed governed trucks
- Measurement systems
- Fuel Saving devices
- Automatic braking
- Lane Departure warning system
- Camera's – outward facing and inward facing
- Tire Pressure monitoring
- Satellite Systems
- Automatic Transmissions

Freight Movement Technologies

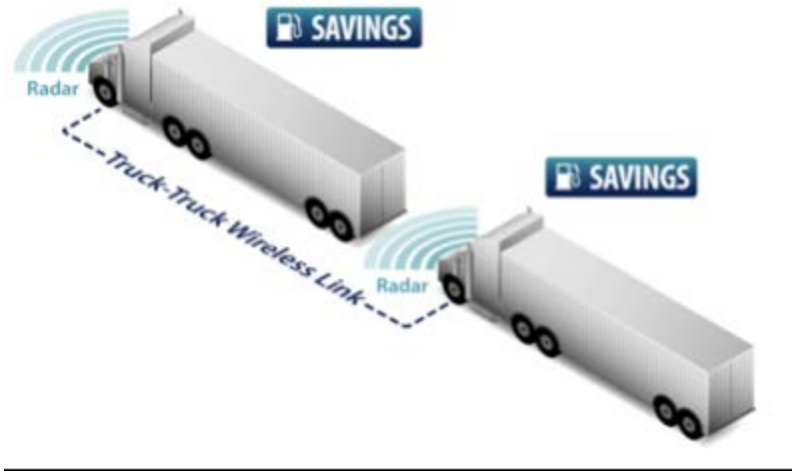


Freight movement technologies

- Sources of Energy
  - Diesel engines
  - Propane
  - Ethanol
  - Natural gas
  - Electric
  - Hydrogen / Lithium

Freight Movement Technologies - TN

- The future is here in Tennessee
  - HB 751 / SB 151



Freight Movement Technologies - TN

- SB 151 / HB 381

Freight Movement Technology

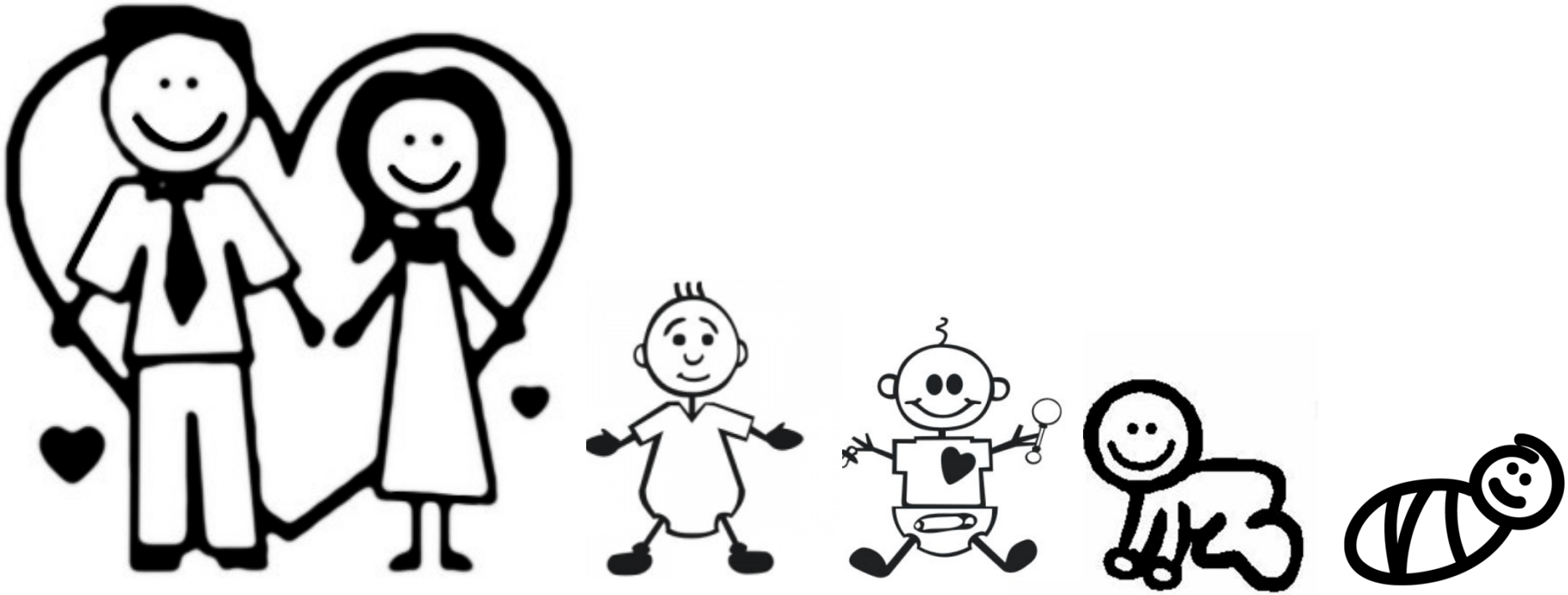
- Drones

Freight Movement Technology

- TDOT Mission – To provide a ***safe*** and reliable transportation system for people, goods, and services that supports economic prosperity in Tennessee

Freight Movement Technologies

- Remember the Raphelds?



Some technology videos

- **Otto delivery**
  - https://www.youtube.com/watch?v=Qb0Kzb3haK8
- **Nissan**
  - https://www.youtube.com/watch?v=h-TLo86K7Ck
- **Platooning**
  - https://www.youtube.com/watch?v=tLWGGponorA
- **Autonomous Vehicles**
  - https://www.nytimes.com/video/technology/100000004645137/ubers-tests-of-autonomous-cars.html
- **Drones**
  - https://www.youtube.com/watch?v=5Rfe4BFiVNA