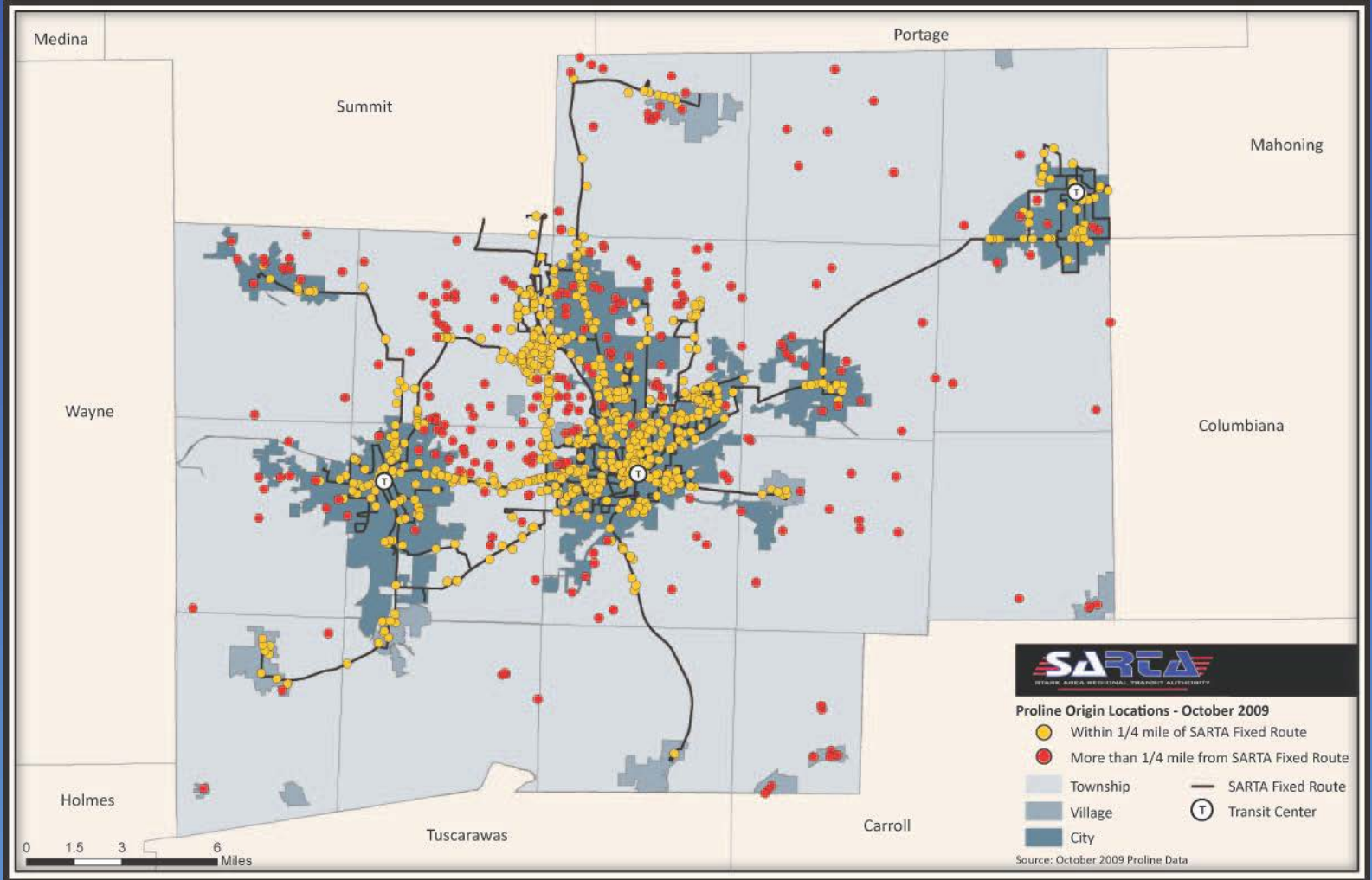


# CNG AND HYDROGEN FUEL CELLS



# Proline Ridership Profile





# SARTA Key Facts

- Transport 2.8 million passengers in 2016
- 212 employees
- \$22 million budget
- Operates express routes to Akron and Cleveland (the longest route in Ohio)
- 30 routes and countywide paratransit
- Extensive use of technology

A vertical strip on the left side of the slide shows a close-up of a truck's front grille and headlights, with a blue and purple color gradient.

# History of Innovation

- Conducted Evaluation of Diesel Electric Hybrids
- Evaluation of dual fuel CNG
- Largest Solar Array in Ohio
- First system in Ohio to have own app
- LEED certified buildings





# SARTA Vehicle Types

- 7 H2 Fuel Cell buses
- 11 CNG Paratransit
- 11 CNG MV1
- 8 GNG transit buses
- 3 CNG Honda Civics
- 3 CNG Chrysler Town & County
- 4 Diesel Electric Hybrids
- 1 Diesel/CNG Duel Fuel
- 33 buses use B5 bio diesel

# SARTA Initiatives

Going GREEN – Hybrid Vehicles, Bike Racks on Buses





# SARTA Fuel Cell Bus



A vertical strip on the left side of the slide shows a close-up of a fuel cell bus component, likely a stack of cells, with several circular ports or sensors visible. The background of the slide is a solid blue color.

# National Fuel Cell Bus Program

- Part of a \$90 million Federal Transit Administration program
- Goal is to demonstrate fuel cell buses
- Set goals for performance and demonstration of vehicles
- Deployed vehicles IN NY, CA, MA, and SC
- 2 fuel cell buses will be in Canton
- Total federal funding is \$5.54 million



A close-up photograph of a bus headlight assembly, showing several circular lenses and a metal housing. The image is partially visible on the left side of the slide.

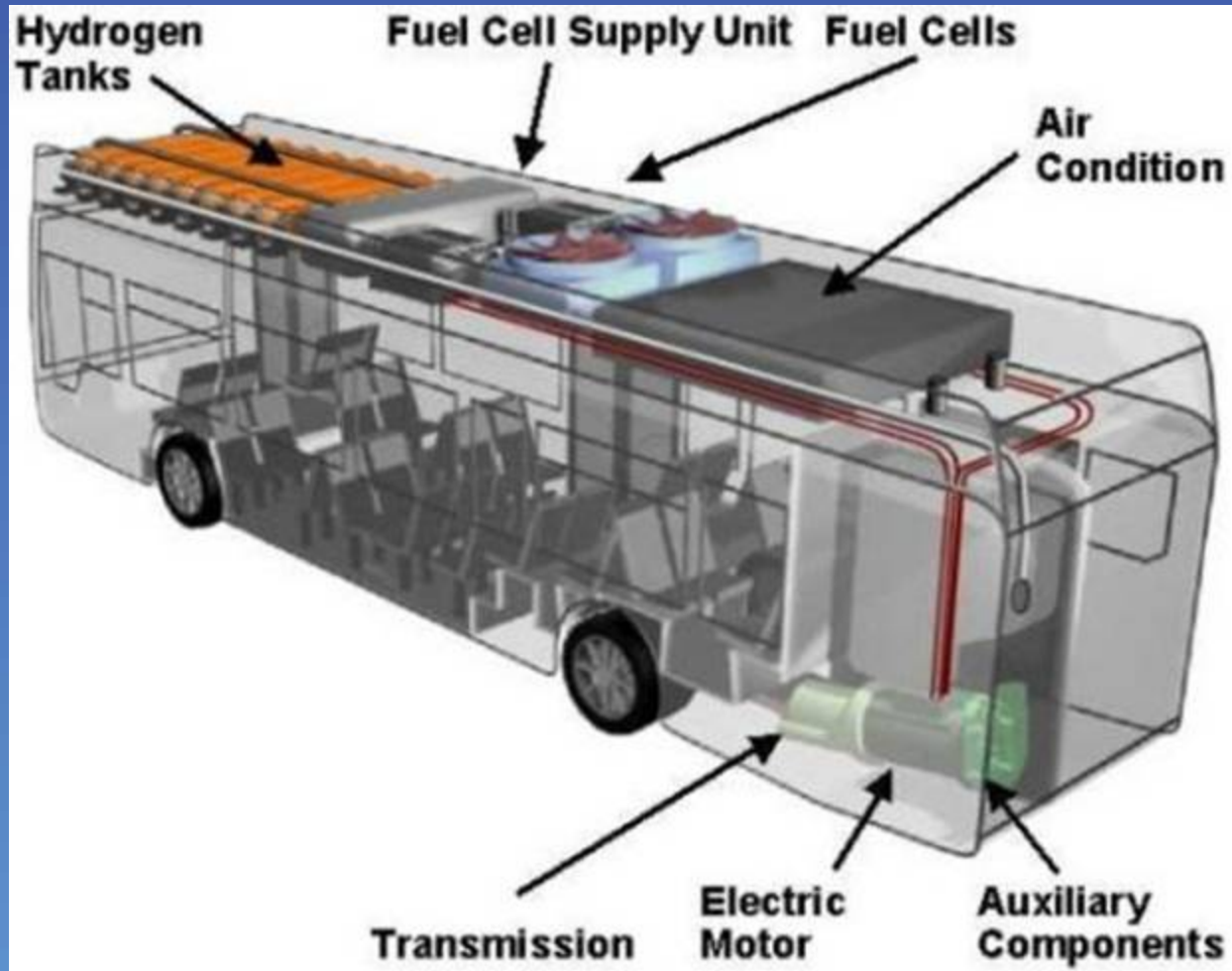
# Reliability Testing

- Second bus will be put through FTA's required durability test at Altoona,
- This is required for any vehicle to be offered commercially as a production vehicle.
- .

# Bus at the Statehouse



# System Layout





# Fuel cell and converter





# Inside Fuel Cell Bus





# Hydrogen compressors





# Compressor Pad



# Station Controls





# Hydrogen Station at UC Irvine





# Fuel Cell Car

