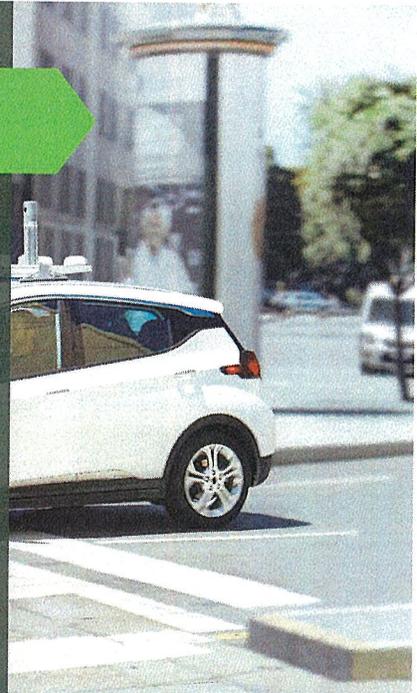


## Research: Transportation / Parking Trends

November, 2017

### Transportation Trends

- Millennials and Boomers want walking communities, including mixed use and multi-family homes - <https://www.strongtowns.org/journal/2016/2/12/americans-want-walkable-neighborhoods>
- Automated automobiles are coming, and we're experiencing the most pivotal time in transportation since we started building interstate highways
- Car makers such as Volvo are moving towards subscription based ownership models where people no longer "own" a specific car
- By 2020 nearly every automaker will have electric vehicles for sale. Tesla is already selling electric tractor trailers. Electric cars are relatively silent, emission free, and with improvements in range and charging times, they will rival the internal combustion engine



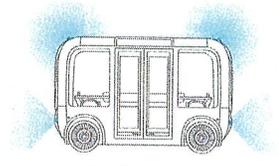
## Automated Shuttle Service

- Advancements in autonomous vehicles may make our community more walkable, alleviate parking issues, and allow us to have scalable transportation that adapts to visitor loads

- Olli is an automated bus by Local Motors <https://localmotors.com/meet-olli/>

- The University of Michigan operates a two-mile loop using autonomous shuttles <https://www.theverge.com/2017/6/21/15848098/michigan-driverless-shuttle-navya-mcity>

- Navya automated buses and taxis are in use in ten locations across the globe <http://navya.tech/en/>



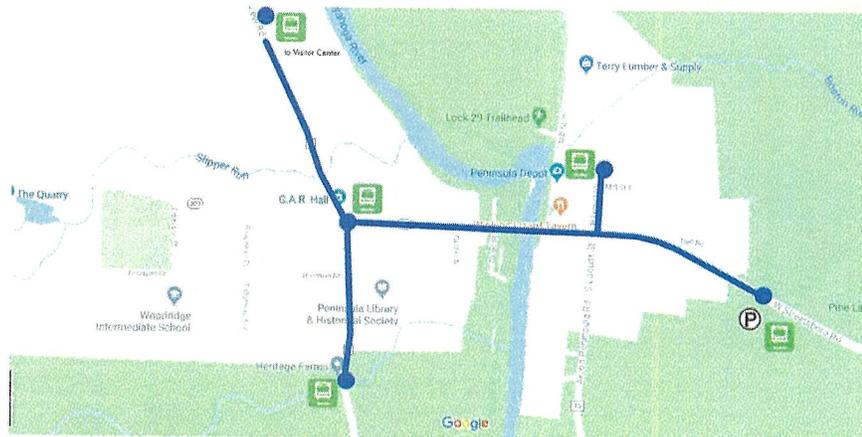
## Automated Shuttle Service

- An automated shuttle loop consisting of 2-3 shuttles, could be created, putting parking at the outskirts of town and easily transport visitors throughout the Village for events, weekends or any time

- Electric shuttles can be docked at maintenance garage when not in use and recharged

- Shuttles can be monitored remotely 24/7

- Shuttles could be tailored to meet our branding requirements, provide info on Village history and shops



## Electric Car Charging

- Peninsula use to have a gas station where DMT Motors currently is.
- Residents have shown interest in having refueling available in town – i.e. they are not opposed to vehicle refueling in town
- As electric cars become more prevalent and charging times decrease to be on par with gas powered vehicle refueling, we should at least consider how EV recharging can be integrated into our Village
- EV charging could take place at a designated parking lot, specific parking spots or part of a larger mix-use development or individual business such as a future state "gas station" / convenience store
- Village could look into an EV charging station being a money maker, in addition to being a convenience to visitors and residents
- We can control location and look of public chargers through planning and zoning



## Reference

July, 2017

Long-range plan  
reference...

NEOSCC's Database of Northeast Ohio Community Plans and Planning Initiatives

<https://cal.neosc.coa/neosc.coa/database-northeast-ohio-community-plans-planning-initiatives/>

NOACA's next long-range plan will aim to improve equity in Northeast Ohio for people without cars

<https://www.cleveland.com/cinc/interest/index.ssf/2016/04/noaca-s-next-long-range-plan-will.html>

Vibrant NEO2040 – Northeast Ohio Sustainable Communities Consortium Initiative

<http://vibrantneo.org>

Vibrant NEO2040 – Maps

<http://vibrantneo.org/vibrantneo-2040/maps/>

Long-range plan  
reference...

Smart Growth in Small Towns and Rural Communities

<https://www.epa.gov/smartgrowth/smart-growth-small-towns-and-rural-communities>

Framework for Creating a Smart Growth Economic Development Strategy: A Tool for Small Cities and Towns

<https://www.epa.gov/smartgrowth/framework-creating-smart-growth-economic-development-strategy>

Smart Growth Self-Assessment for Rural Communities

<https://www.epa.gov/smartgrowth/smart-growth-self-assessment-rural-communities>

How Small Towns and Cities Can Use Local Assets to Rebuild Their Economies: Lessons From Successful Places

<https://www.epa.gov/smartgrowth/how-small-towns-and-cities-can-use-local-assets-rebuild-their-economies>

Putting Smart Growth to Work in Rural Communities

<https://www.epa.gov/smartgrowth/putting-smart-growth-work-rural-communities>

Essential Smart Growth Fixes for Communities

<https://www.epa.gov/smartgrowth/essential-smart-growth-fixes-communities>

Partnership for Sustainable Communities

<https://www.sustainablecommunities.gov>

Federal Resources for Sustainable Rural Communities

<https://www.epa.gov/smartgrowth/federal-resources-sustainable-rural-communities>

Supporting Sustainable Rural Communities

<https://www.epa.gov/smartgrowth/supporting-sustainable-rural-communities>