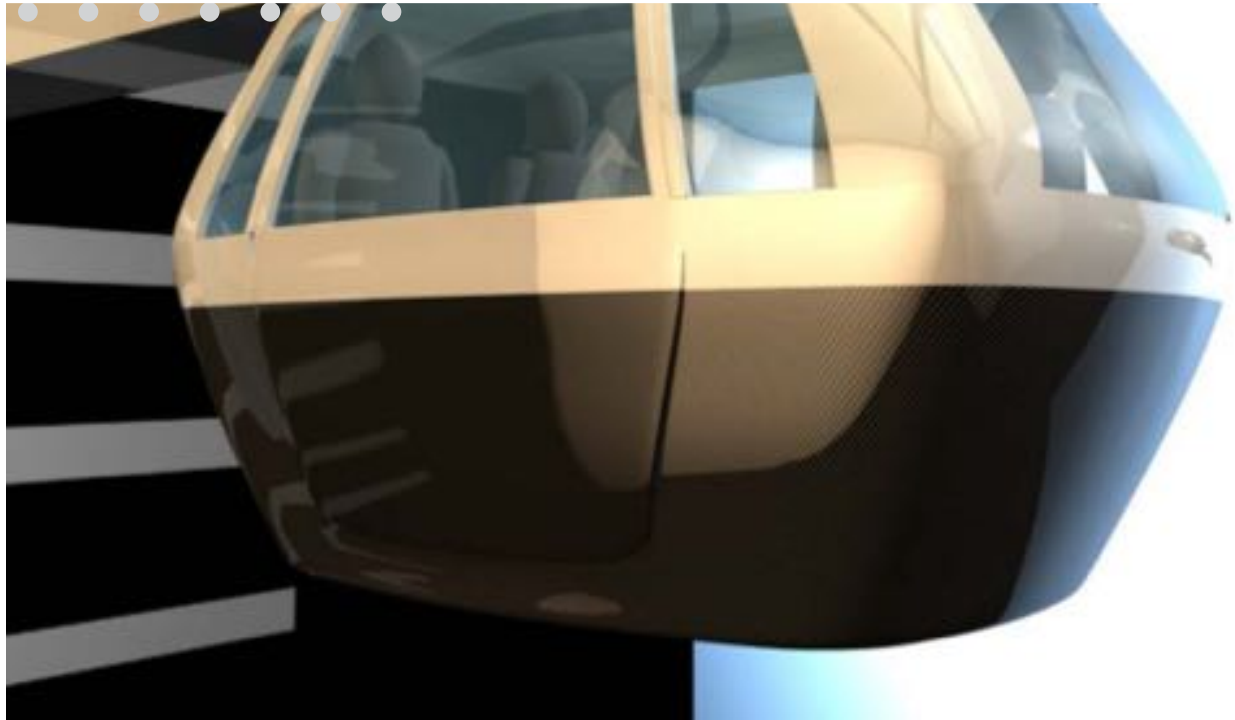


# Georgia Mobility Team



The team has worked together for years to restore free markets and change economic lifeblood from oil to ingenuity.



**Auta Lopes, Co-CEO**

Managed a \$22 billion pension fund, Managing Partner for a capital company helping businesses and high net worth people manage risks and access capital in Georgia

[Auta.Lopes@JPods.com](mailto:Auta.Lopes@JPods.com)

**JT Williams, Co-CEO**

CPA and CGMA. Developed 16,000 acres of land in Florida and in Georgia. Chairman of Land Sales and Condominium Board in Florida for 16 years, Chairman of State Board of Education in Georgia for 9 years, Chairman of Transportation Projects – Governor’s GRTA Board for 19 years.

[JT.Williams@GeorgiaMobilityCompany.com](mailto:JT.Williams@GeorgiaMobilityCompany.com)



**Charlie Fletcher, Chairman**

Retired Major General. Former Commanding General of the Army’s Transportation and Logistics during the invasion and rebuilding of Iraq.

[Charlie.Fletcher@GeorgiaMobilityCompany.com](mailto:Charlie.Fletcher@GeorgiaMobilityCompany.com)



**Raymond McClendon, Co-Founder**

Managed financial services firms that raised billions of dollars in capital for public and private projects over the past 30 years



**Mike Evans, Co-Founder**

Managed multiple manufacturing facilities in North America up to \$300 MM in sales. Owner of a multi-million, professional cleaning company in the Southeast US. Corps of Engineers veteran.

[Mike.Evans@JPods.com](mailto:Mike.Evans@JPods.com)



**Jim Lowe, Chief Engineer**

Professional Engineer, manages 150 projects a year by working with numerous local and national development firms. Founder of civil engineering and survey company. Equity partner in a \$250 million firm.



**Bill James, CTO – President**

Inventor of solar-powered mobility networks (US Patent 6,810,817). Wrote enterprise software recognized as the “Best New High Tech Product of the Year” in Minnesota, Infantry veteran.

[Bill.James@JPods.com](mailto:Bill.James@JPods.com)



***JPods***

# Solar-powered Mobility Workbook



**10X**





## Choice 1: 10X Innovation

## Choice 2: More of what is failing

# 10X

Driving a paradigm shift requires a 10 times benefit, 10X.

JPods solar-powered mobility networks build on well established facts to provide multiple 10X benefits:

Fact #1: By grade-separating, Morgantown's PRT and theme park trill rides are 10,000X safer than roads (.9 injuries per million versus 11,200 for roads). JPods are grade-separated.

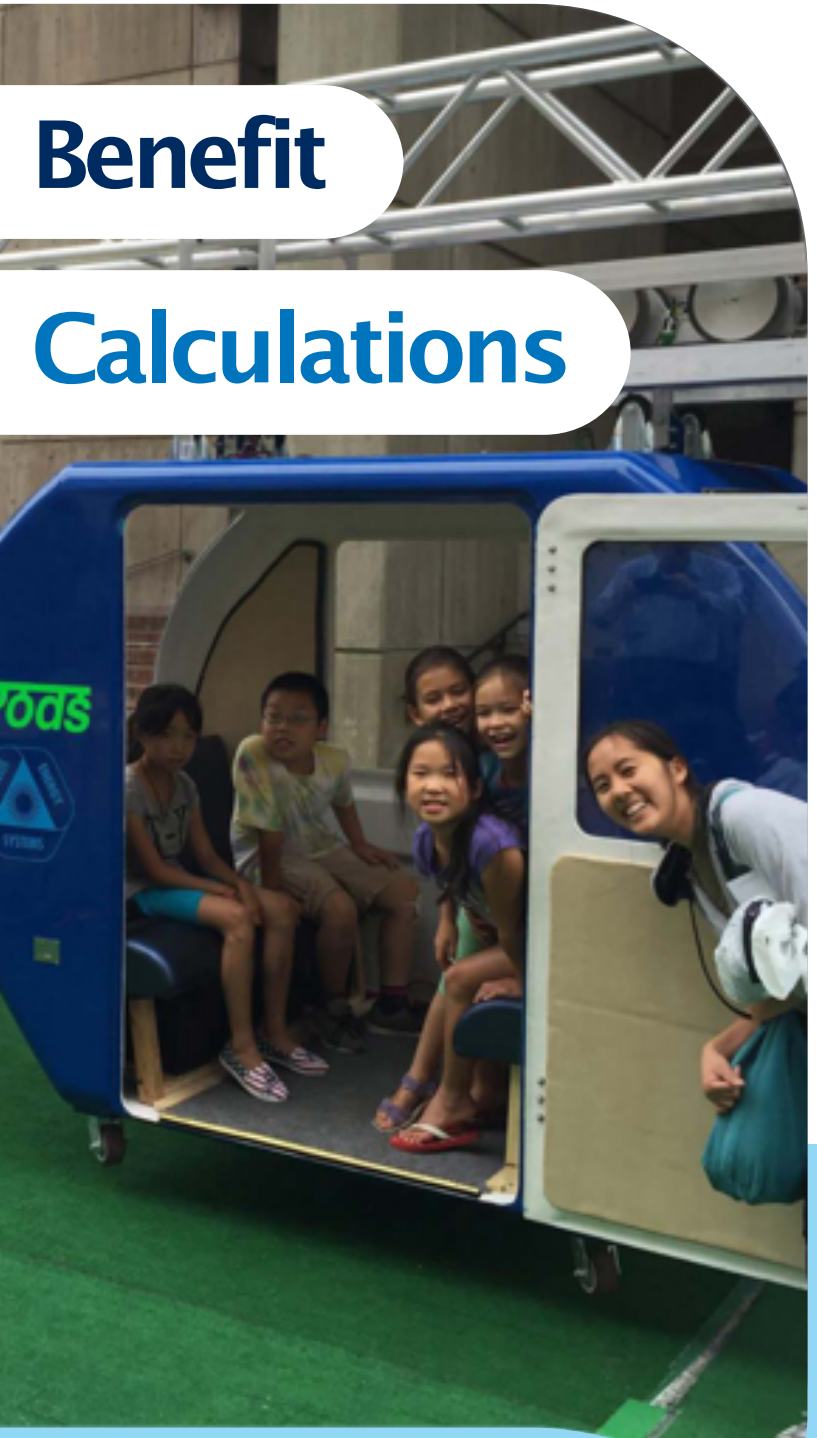
Fact #2: By controlling the grade, freight railroads average 400+ ton-mpg, 140X the efficiency of roads. JPods are grade-separated.

Fact #3: Self-driving cars are well proven and valuable. Tesla is the highest valued car company in the world. JPods are self-driving.

Fact #4: Life requires energy. JPods guideway structures deploy enough solar collection to be energy self-reliant.

JPods Networks build on these facts creating multiple 10X benefits:

- No congestion on the guideways, non-stop to destination.
- Lower operating costs and capital costs.
- Better service, personal and on-demand 24x7.
- Better freight options.
- Less land use.
- Greater capacity.
- Lower energy and no CO2.
- Greater energy security.
- More stations and access points.
- Greater safety.



# Benefit

# Calculations

- Background:
- [TEDx Atlanta](#)
    - [https://youtu.be/PgXHMHw\\_r4A](https://youtu.be/PgXHMHw_r4A)
  - [Red Bull TV Documentary](#)
    - <https://www.redbull.com/int-en/episodes/transportation-liquid-science-s01-e06>
  - [Metrics](#)
    - <https://www.jpods.com/metrics>
  - [ROI Engine](#)
    - [https://www.jpods.com/why\\_jpods](https://www.jpods.com/why_jpods)

## Start in niches capital will fund

- Airports, hotels, car rental, parking.....
- Between malls with many accidents....
- City centers to hospitals to universities.....

## Prime Law of Networks

“Network value explodes exponentially as membership grows, sucking in ever more members”

Seed networks will spread across whole cities.

## Cars are expensive

- \$8,643 per car, 1.8 cars per family
- \$.82 per mile to operate
- 6 parking spaces per car

## 5% Revenues

Rough long-term calculation:

\_\_\_#\_\_\_ Cars in the city

#Cars\*.5\*10,000 mile/car \*\$.041/mile = government revenues

Example: 100,000 cars reduced by 50% would provide governments with \$22 million per year of new 5X5 Revenues in 7-10 years.





# Why Choose JPods Solution

**GRADE-SEPARATION:** Having the guideways elevated with JPods preempts safety risks and simplifies the complexity of mixing existing traffic with self-driving vehicles.

**CLEAN ENERGY:** JPods guideways provide a mounting system for the solar collectors that gather 40,000 vehicle-miles of power per mile of guideway per day. Energy security of powering your city’s mobility with your city’s sunshine.

**MOBILITY IS PERSONAL:** You are not forced to ride with others that are not in your party. The family-size packet of JPods vehicles provides the same on-demand service of the family car without the capital costs of owning a car or the land consumption of cars.

**CONTAGION SUPPRESSION:** COVID-19 spread rapidly through NYC with the queuing and transfers on subways amplifying the contagion as documented in an MIT study. A similar London Tube study documents how queuing and transfers amplifies flu contagion by 6 times normal. JPods have the ability to reduce wait times and queuing to on-demand entry. Additionally between rides, using UV technology, JPods can be disinfected and quickly put back into the workflow or remove it for cleaning as required..

**ACCESS:** Family-size pods enable stations to be as small as your garage. Small, inexpensive stations allows there to be many more access points. In contrast, buses and trains require large stations, reducing the number of access points.

**FLEXIBILITY:** Analogous to the internet packet-switching data, JPods packet-switch people, cargo, garbage, etc.

**TIME AND ENERGY:** Traveling non-stop from origin to destination eliminates energy wasting repetitive start-stops that cars, trains, and buses create. This also reduces travel time by using JPods.

**PEDESTRIANS:** Reducing car traffic will make walking and biking safer. As networks expand, station will be within walking distance.

**TOURISM:** People will come from around the world to experience JPods. Time and money saved will be spent on more shopping, dining, and entertainment.

**OPERATING COSTS:** JPods are 10X less expensive to operate than cars, 25X less than trains, and 50X less than buses.

**CAPITAL COSTS:** JPods typically cost about \$15 million per mile versus \$100 million per mile to \$1 billion per mile for light rail. JPods. Construction is privately funded.

**SAFETY:** Using Georgia Insurance and Safety Fire, the ASTM F24, provides a 10,000 times better safety record.

**NOISE:** Removes the engine and road noise associated with cars and trucks on roads.

**NO WAITING:** No waiting at bus stops. JPods wait for people.

## Scorecard of alternatives.

	More Personal Cars	More Rental Cars	More Ride Services	Light Rail	Buses	Gondola	JPods
Safety (Grade-Separated)	●	●	●	●	●	●	●
Energy Efficiency	●	●	●	●	●	●	●
Solar Powered	●	●	●	●	●	●	●
Privacy /Security	●	●	●	●	●	●	●
Contagion Suppression	●	●	●	●	●	●	●
Access (Frequent Stations)	●	●	●	●	●	●	●
Travel Time (Wait +Travel)	●	●	●	●	●	●	●
Congestion	●	●	●	●	●	●	●
Boarding Ease	●	●	●	●	●	●	●
Station Cost	●	●	●	●	●	●	●
System Cost	●	●	●	●	●	●	●
Land Use	●	●	●	●	●	●	●
Overall (Scale of 10)	5.0	5.0	4.2	3.3	3.3	6.3	10.0



## Traveling In Your JPods

Your time is your own while you travel:

- You select the heating and air conditioning choices.
- You select if you wish to connect to the on-board WiFi.
- You select if you wish to use your phone, voice, and/or the on-board computer during your ride.
- Unlike being forced to watch advertising on buses and trains, there is no advertising unless you turn it on. If you wish to earn credits from advertisers, that is your choice. Any credits apply directly to your account.

During your trip you can ask the JPods team for information about your trip, or other interests.

You can speak to JPods in your language.

If a you needs to change the destination on route, feels uncomfortable, wants to get off, or have any issue/emergency, you can use the voice command, App, or Emergency Call Button on the computer screen to connect with a system operator. As needed, our team will keep you company on the on-board screen until the issue is resolved.

You may not notice at first, but the ride is quite and there is no traffic.

Unlike the road noise in a car, potholes in the road, horns of stressed drivers, you travel on a grade-separated, precision-surfaced steel guideway . The JPods wheels are specifically designed to minimize noise riding on that steel guideway.

You are alerted as you approach you destination. You might note that the trip was much quicker than a car, bus, or train.

As the JPods locks into the station there is no “mind the gap” or stair problems associated with trains and buses. You exit the JPods and use the stairs or elevator to return to street level.



## Your Ride

Your ticket is your JPods App on your phone, a prepaid card, or your finger-recognition.

The JPods App lets you know the travel and arrival times for trips.

When you walk into a station, JPods are waiting for you. As you approach a JPods your phone is chatting with the vehicle. Its opens for you. As soon as your are settled in, your non-stop ride to your destination begins.

There is lots of headroom and foot room. You can bring your bike. If you are in a wheelchair, the vehicle will lock your wheels for you.

JPods stations are radically different from bus and train stations. JPods stations make sure there are enough pods for people to immediately leave when they arrive. Bus and train stations force people to wait for buses and trains. It is this queuing and transfers that amplify contagion spread by 6 times.



## The System Elements

JPods are personal, just like your private car.

You get in JPods at a station where one is waiting for you. Once in, the JPods vehicle merges onto the traveling guideways to take you non-stop to your destination. It knows how to get there.

Approaching your destination, your JPods exits the traveling guideway to the Station guideway, just like an automobile on a freeway.

The offline Stations can be built into a building or free-standing depending on the best fit with a business or municipal need.

Illustrated below is a free-standing station with elevator, stairs, guardrails and other security and support features.

<https://vimeo.com/99893372>

Stations have multiple berths so passengers can more easily load and unload without lines or queuing.

Because JPods are family size, the stations are tiny compared with trains and buses. Small stations allow many more stations. It is highly likely in the future, many businesses and living complexes will have stations build directly into their buildings.

There are even temporary stations to add capacity during special events. Everything is tailored to provide immediate and on-demand mobility from origin to destination.





## JPods

There are as many types of pods as there are types of vehicles on roads. JPods tailors the pod to meet different needs around 1200 pound payloads. Pods will be open source, so if you have ideas for how to design pods, join in the effort. Example JPods:

**PASSENGER JPods** are capable of carrying the same as the family car, one to six people and their luggage. At JPods, we think bicycles are 75% of the solution to personal mobility in a sustainable city, so with rare exception, JPods are equipped to accommodate someone's bike or scooters. The same mechanisms that secure bikes, secure wheelchairs.

**CARGO JPods** stream palletized payloads to feed and supply a city. We expect many more local grocery stores to be built within walking distance of where people live as JPods reduce the cost of supplying them.

**MEDICAL JPods** are capable of carrying a gurney, EMS people, and their supplies. As the system expands, the benefits of routing a person directly from a station to a medical facility without any hindrance from traffic will save lives.

**SOCIAL AND SCENIC JPods** add to the fun and tourism.

**PRIVATE JPods** are the same as owning your car. It simply stores itself when you are not using it and meets you when you call it.

**DETACHABLE JPods** are lowered from the guideway and clamp onto a chassis so they can travel off-guideway. You can have your things in your pod and drive it into your garage the same as your car.



## Guideway

JPods are suspended from the guideway. Traveling on an overhead guideway removes the safety, security, and traffic risks of traveling on roads. The guideway also provides the structure for deploying the solar collection system that powers the network.

## Support Center

JPods' patent is for self-driving cars on grade-separated guideways. JPods are like bees in a hive. They are autonomous. If there is a communications failure or a power failure, your JPods still carries you to your destination.

This self-driving capability is reinforced by the Monitoring Center. From a secure location, the automated capabilities of the vehicles and networks are reinforced by human oversight.

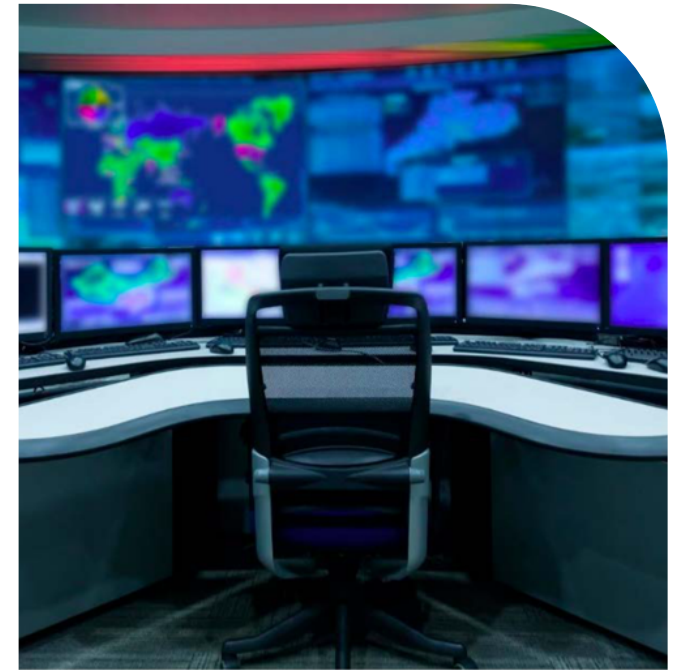
Combining human empathy and judgment with robot accuracy improves service, preempts accidents, and reduces energy consumption to within a solar budget.

People in the Center monitor every aspect of what is happening everywhere on the network. If you have a question, you can ask the people in the Center to come on your screen to answer your question.

If anything unusual happens or if someone needs emergency services, the people in the Center can see what is happening, dispatch emergency crews, assist people, and coordinate the response.

If you are traveling in a foreign country, you can ask for support in your native language and the people in the Center will communicate with you in your native language.

The JPods team believes in the Lifeboat Paradox: "If you are self-disciplined to have a lifeboat and are skilled in its use, you are unlikely to need one." To be prepared, we drill many contingencies, even highly unlikely ones.



## Maintenance

A Maintenance Facility provides the equipment necessary to train people, store supplies, clean, repairs, diagnose everything about the JPods, stations, equipment, guideways, and their environments.

Durability and maintenance risks are minimized by the simplicity of the pods, their multiple motors, redundant sensors, redundant processors.

JPods mitigate contagion risks by disinfecting themselves between uses when necessary. The air in the vehicle is replaced in the vehicle and the inside irradiated with ultraviolet lights.

Power to sustain the network is gathered from the solar-collectors over the guideways. This distributed energy system powers the network and the ability to adapt in emergencies.



# Timeline

# Private Funding

The 5X5 Standard for city approvals and existing Georgia safety laws for grade-separated rides provides a known cost of regulations. Private capital will invest in converting traffic costs into jobs, customer savings, and profits once the risks are clear.

Following is a rough timeline once the manufacturing base is established. It is critically important to build strong teams of people before ramping to high rates of output. “Start small, iterate relentlessly.”

## Costs and Funding Model

JPods funding of projects is very similar to houses and hotels. Construction funds are used by construction companies to build. The certified guideways are then sold to operating companies to service customers. There are four basic steps in this funding cycle:

1. Define a project and the Franchise Agreement for Rights of Way and safety certification.
2. The construction company, Georgia Mobility Company, builds the network.
3. JPods LLC certifies the operational networks complying with defined regulations.
4. The Local Mobility Company® buys the certified networks and operates them

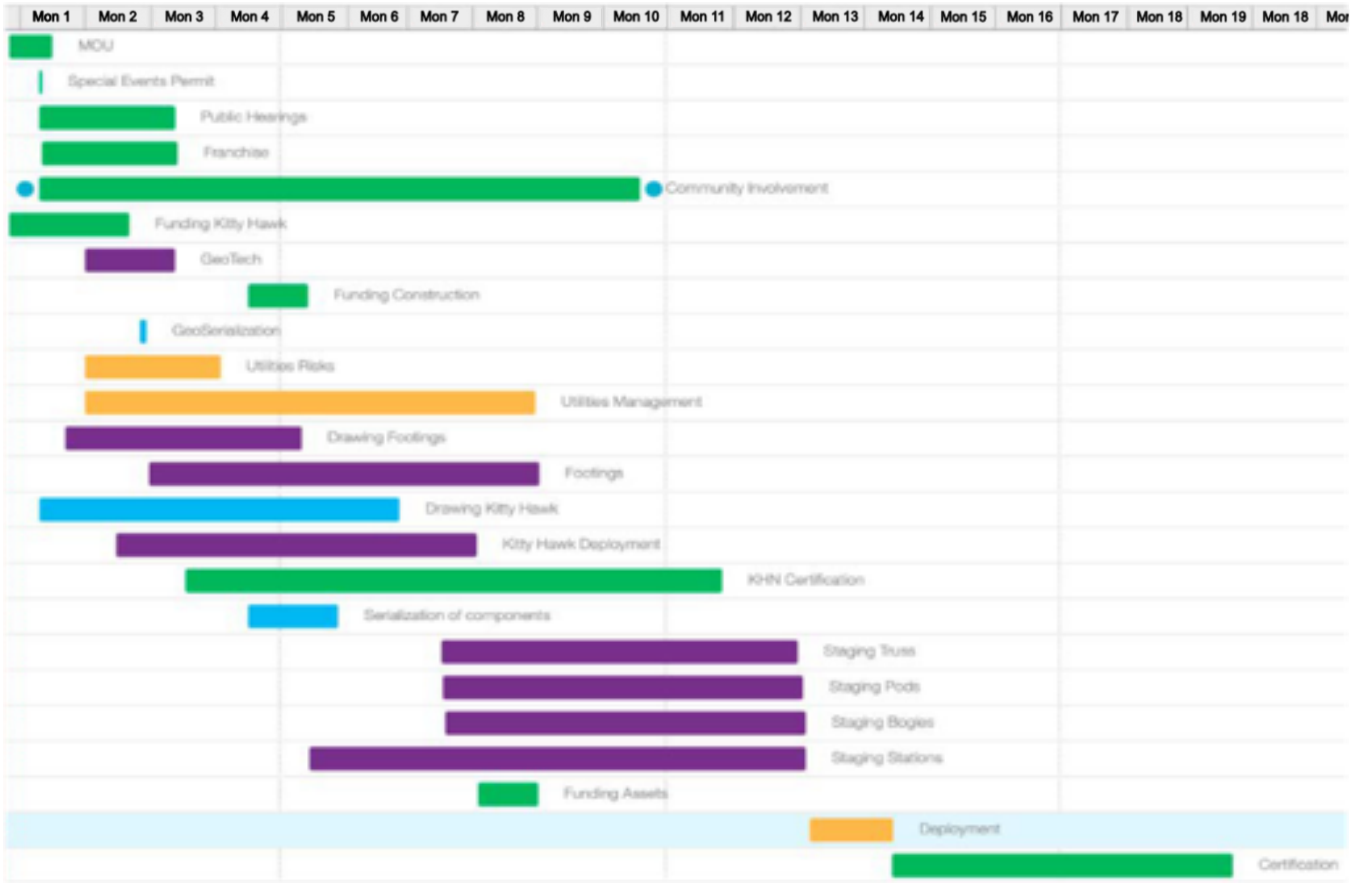
Goldman Sachs provided a Letter of Interest for funding JPods networks.

Key to funding projects is to define the cost of regulation. Congressional Study PB-244854, “Automated Guideway Transit” documents innovation has been delayed “four to six decades” because of regulatory barriers (page 41).

Georgia Commissioner of Insurance and Safety Fire standards (ASTM F24) has a known cost of regulating theme park thrill ride guideways and a safety record 10,000 times better than roads.

Rights of Way regulations for cell towers and other networks that serve the public good are used.

As with communications networks, Networks pays 5% of gross revenues for non-exclusive use of Rights of Ways granted.





# Summary

Mobility is physical liberty, the ability to go where you want, when you want regardless of age, ability or wealth.

Mobility must be sustainable and equitable.

10X Benefits are multiple:

- Cleaner, faster, safer, affordable.

5X5 Standard provides a multi-million per year new source of revenue for Bibb County/Macon

- 110,000 cars in Bibb County
- 50% Reduction in car driving carried on JPods with the same cost per mile as cars.
- 5% fee ~\$22 million/year of new revenue.



3<sup>rd</sup> grader drawing after JPods team worked with the school's STEAM program.

## Georgia Mobility Company LLC