



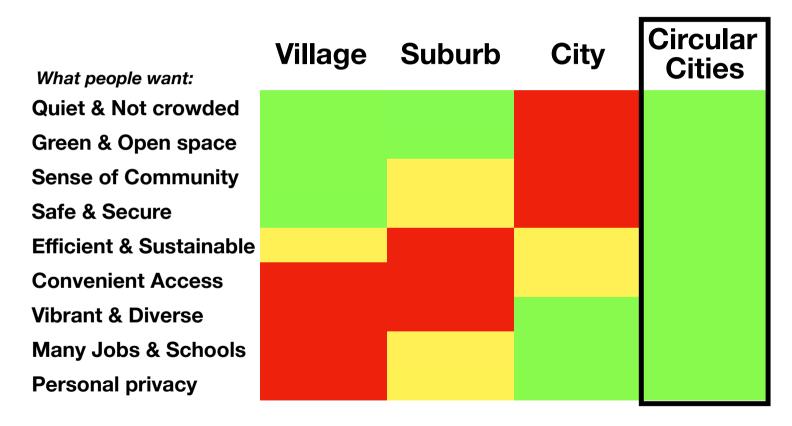
Infrastructure for any climate or terrain

# Benefits

- Sense of Community
- Personal privacy
- ◆ Efficient & Sustainable
- Safe and Secure
- Job opportunities
- Quiet & Peaceful
- Green & Open space
- Convenient Access
- → Vibrant & Diverse
- Low cost & Affordable

# What attracts people to Circular Cities?

# A Higher Quality of Life



Circular Cities combine the best features of villages, suburbs & cities

Only negative is its carbon footprint

Why? Reduce fossil fuels Carbon footprint Clean water Light pollution Air pollution More greenspace Crashes	What are your challenges?	Why? Congestion Crashes Cost & Funding Project duration Over budget & time Flooding resiliency Fire resiliency
Limited land Inequality Disruption Crime	1. Create jobs & attract industry	Storm resiliency Affordable housing Re-election EV Charging
Stress Bike lanes Disease / Health High Taxes	2. Low-cost renewable energy	Homelessness Not enough parking Electrification Reduce water use
NIMBY-ism More Public Transit Fewer cars Earthquakes	3. Clean water and sanitation	Curb space Reduce plastic use Crime Vacant offices
Servere storms Cyber attacks Data privacy Access to healthcare	4. More affordable housing	Low tax revenue Noise Bridge repairs Access to food
More manufacturing School busing Unreliable power Smart City	5. Higher resiliency	Jobs Extreme Heat Evacuations Public toilets
Loss of habitat School security Airport expansion More truck drivers	6. Access to quality food	Accessibility Renewable Energy Training / Education Car theft
Seaport congestion Climate Action Plan Vision Zero Clean Public toilets Rodent Infestations		Border security Migrant flows Bicycle-friendtaly No Roadkill Public water stations



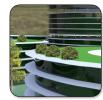
**Activeways & Parks** 



**Transportation** 



**Agriculture** 



**Buildings** 



Cities



Waste Management Renewable Energy





**DC** Grid



New/Greenfield



**Privacy & Security** 



Water



**High-speed Data** 



Healthcare



**Postal Service** 



Administration



**Disaster Response** 



**Public Safety** 



**Education** 



**Sanitation** 

# **Problems**

#### **ENERGY**

Shortages
No transmission
Unreliable

#### **GOVERNANCE**

Corruption
Fraudulent identities
Poor law enforcement

#### **LAND & LOCATION**

No top-soil. Deforestation. Difficult terrain Far from city or port

#### **INFRASTRUCTURE**

Poor internet access High cost of roadways No access to highways No health care or schools High cost of housing

#### **FINANCIALS**

Lack of sophistication Poor credit ratings Costly, low-quality banking

#### **POLLUTION**

Polluted air Polluted soil No water

#### CLIMATE

Heat waves Droughts Flooding

#### **PEOPLE**

Low education
Unskilled workers
Hard to attract workers

# **Solution Partners**





















# Our partners solve these problems.

# Our Unique Value:

# Infrastructure as a Product

- → Low cost so it is profitable from usage fees and private funded
- → Short timeframe because manufactured infrastructure is quick to build
- → High capacity so that it accommodates growth
- → Incremental and built as needed. Can be relocated if needed.
- → Flexible so it works in any terrain, climate or architectural style.
- → Resilient makes it long lasting and adaptable to climate change

# **Comprehensive · Durable · Sustainable**





## **Transportation**

Podways provide convenient, low-cost, and high-capacity transport for people and goods. Local and over long-distances.



#### **Structures**

Provide flexible, efficient multi-use buildings to lower costs, increase resiliency, and improve the quality of life for both residents and businesses.



### **New City**

New city layouts provide resiliency without the typical constraints imposed by topology, conventional transportation and sanitation systems.





## **Agriculture**

Increase yield more than 3X with yearround production using 90% less water and no fertilizers. Resilient to extreme heat.



## **Renewable Energy**

Distributed solar and wind energy generation without land use or transmission losses. Co-located on podways, buildings, and farmlands.



#### **Distributed Grid**

Safe, distributed energy storage and physically protected cables. Instant auto-balancing with managed loads. DC distribution and transmission.



## **Public Safety & Emergency**

Podway Cities eliminate vehicular-





#### Healthcare

Pods enable in-home health care and efficient equipment utilization. Medical pods provide testing, diagnostics, and secure communication with provider.



# **Public Safety & Emergency**

Podway Cities eliminate vehicularrelated incidents. Enable new methods to improve police, fire, and emergency response.



## **Privacy & Security**

Significantly reduce cyber and realworld crimes. Protects privacy while providing necessary accountability to enforce laws.



#### **Water & Sanitation**

Over 90% reduction in water use. Dry toilets eliminate need for sewers and centralized water treatment. Fresh and filtered water is delivered via podways.



### **High-speed Data**

Fiber-optic cables are protected inside the podway. Micro-antennas (5G) can be placed on top of podway. Infrastructure is secured.



## **Disaster Response**

Fast emergency response and highcapacity evacuation during natural disasters. Podways continue to operate in floods and high winds.





**Activeways** 

Healthy, active lifestyles encouraged



the podway. Micro-antennas be placed on top of podway Infrastructure is secured.





## Waste Management

Clean, silent, and on-demand waste management collection at dock or door. Innovative recycle and reuse systems are possible using podway.



# **Activeways**

Healthy, active lifestyles encouraged by paths along podways for people, bicyclists, and other non-motorized vehicles.



#### **Education**

Fast, safe and flexible trips to school without buses. Educational content is available while traveling in a pod. Pods get children to and from school safely.



## **Parks & Waterways**

Green spaces can be engineered to mitigate urban flooding and provide waterways for recreation and natural beauty.



#### **Postal Service**

Fast, reliable delivery for letters, packages, and on-demand delivery. Secure delivery to dropbox at posts or stops. Low cost and zero emissions.



## **Administration & Governing**

Innovative tools for decision making and problem solving can help facilitate cooperative and rational choices that benefit society.





Advanced technologies to increase revenue and decrease impact

- ◆ Increases yield by 2-10 times
- Generates renewable energy without land use
- 90% less water, fertilizer, and pesticides
- Resilient to droughts, floods, extreme temps.
- Higher income and stable long-term income
- Faster to market with less waste
- For most climates and crops
- No downtime during installation
- Year-round production
- Private funding available for conversion
- Integration of solar farm and indoor farm
- Co-located with industries and cities



- → Water distribution: filtered, potable, non-potable
- → 95% reduction in water use
- → Waterless and odorless toilets
- ♦ No need for sewer infrastructure
- No need for underground water supply
- No need for centralized water treatment plants
- On-site grey water recycling
- Low-cost water filtration
- → Fresh water direct from air
- Rain water collection
- Resilient to flooding
- → On-demand public toilets clean, private, and safe
- → Protects from terrorism and contamination
- Works on hilly terrain





# Distributed, green grid

- → 100% clean and renewable generation
- → Safe, distributed energy storage (not lithium ion)
- Integrated into podway's utility raceway
- → Physically protected cables and lines
- ◆ Instant auto-balancing of supply and demand
- → Distributed generation with solar and wind
- → Battery storage at each service end
- Managed loads
- → DC distribution and transmission
- → Low-cost CAT5 wiring
- Provides on-street EV charging
- ◆ Integrated low-intensity LED street lighting





# Rescue and response





# Accessible health care

- → Fast ambulance response
- Fast travel between hospitals or buildings
- → More efficient equipment utilization
- Home visits via pod
- Medic pod for testing and diagnostics
- → Instant checkups during commute
- + Secure communications inside private pod
- Less disease and injury with podways



# Letter, package, and courier delivery

- → Fast, reliable delivery
- ◆Secure delivery to each post or stop
- ◆Low cost and low rates
- ◆Packages, letters, food deliveries
- ◆Zero emissions



Privacy with accountability

- → Secure payments without cards or phone
- Significantly reduce cyber and real-world crimes
- + Protects individual privacy and data
- Key technologies:
- Certifiable Real Person Identity
- → Certifiable digital signatures
- Secure physical keys without phone
- Multiple varying levels of certification







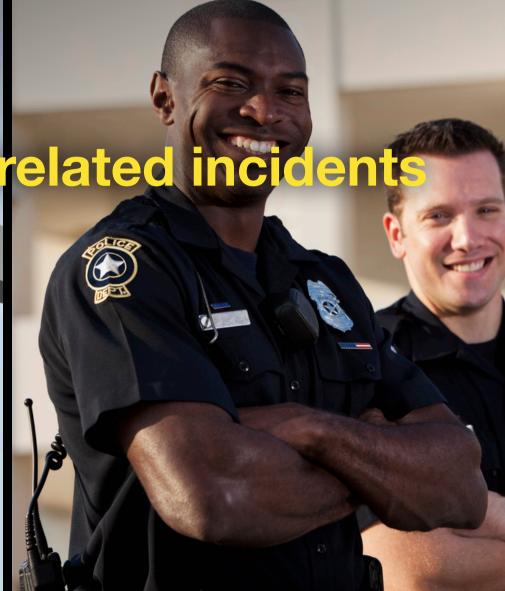
Waste Management

# Clean and sustainable waste management

- Collection at dock or near door
- Any pickup frequency or on-demand
- ◆ Silent operations no loud trucks
- + Zero emissions
- Single-stream recycling options
- Support for multiple streams
- Rodent-proof
- Manual or fully automated collection









School



Safe & convenient access to school

