CarFree, USA: Welcoming Millions Fleeing Sea Level Rise

In a few decades: Where will we put them ? What can we all afford to build, operate ?

CarFree, USA

- A conceptual template for imposing high-density urbanization, completely free of personal vehicles and their infrastructure, upon low-density regions of extant cities, and upon brownfields.
- Accommodate millions freeing sea level rise, within a few decades.
- Design for accessibility, then mobility. For people, not cars. Stop sprawl.
- Population is determined by density and diameter: 100,000 or more.

Employment
Villages (High-Density)
Villages (High-Density)
Employment
Commercial
RESERVOIR LAKE
City Center
OPEN SPACE RECREATION
Water and Sewage Plant
OPEN SPACE RECREATION
Villages (low-density)
Industrial Park
Concentric, Contra-rotating Fixed Guideway BRT, LRT, Streetcar
Villages (low-density)
FOREST: VISUAL/ACOUSTIC BOUNDARY
AIRPORT
Fuel Cell Vehicles Fueling and Battery Electric Vehicle charging
FCV fuel BEV charge
PARKING LOT AND STRUCTURES All personal vehicles sequestered here
FREEWAY
INTERCITY AND COMMUTER RAIL
FOREST: VISUAL/ACOUSTIC BOUNDARY

- Global emergency: humanity survive ?
- Rapid response: rapid sea level rise
- Conceptual template: plan, invest now
- Impose high-density urbanization
- "Helicopter" onto extant low-density urbs
- Free of all personal vehicles, in urbanized
- Contra-rotating, concentric, transit loops,
- Fixed-guideway: BRT, LRT, streetcar, 5-min
- People, packages, freight, mail
- Paving for all service vehicles
- Peripheral parking for personal LDV's
- Low public infrastructure capex, opex
- Reduce private capex, opex
- Only "donut" loop topology is efficient

Design for:

- People, not cars
- Accessibility first; Mobility next.
- Density-hi, stress-lo
- 100,000 + people
- New urban lifestyle
- Prevent sprawl
- Health thru exercise
- Community: contact
- Efficiency, Earth:
  - > Energy
  - > Land, habitat
  - > Materials
  - > Time
- Replicate; intersect

Smart Cities Connect
April 2-4, 2019
Denver [Poster]
https://spring.smartcitiesconnect.org/

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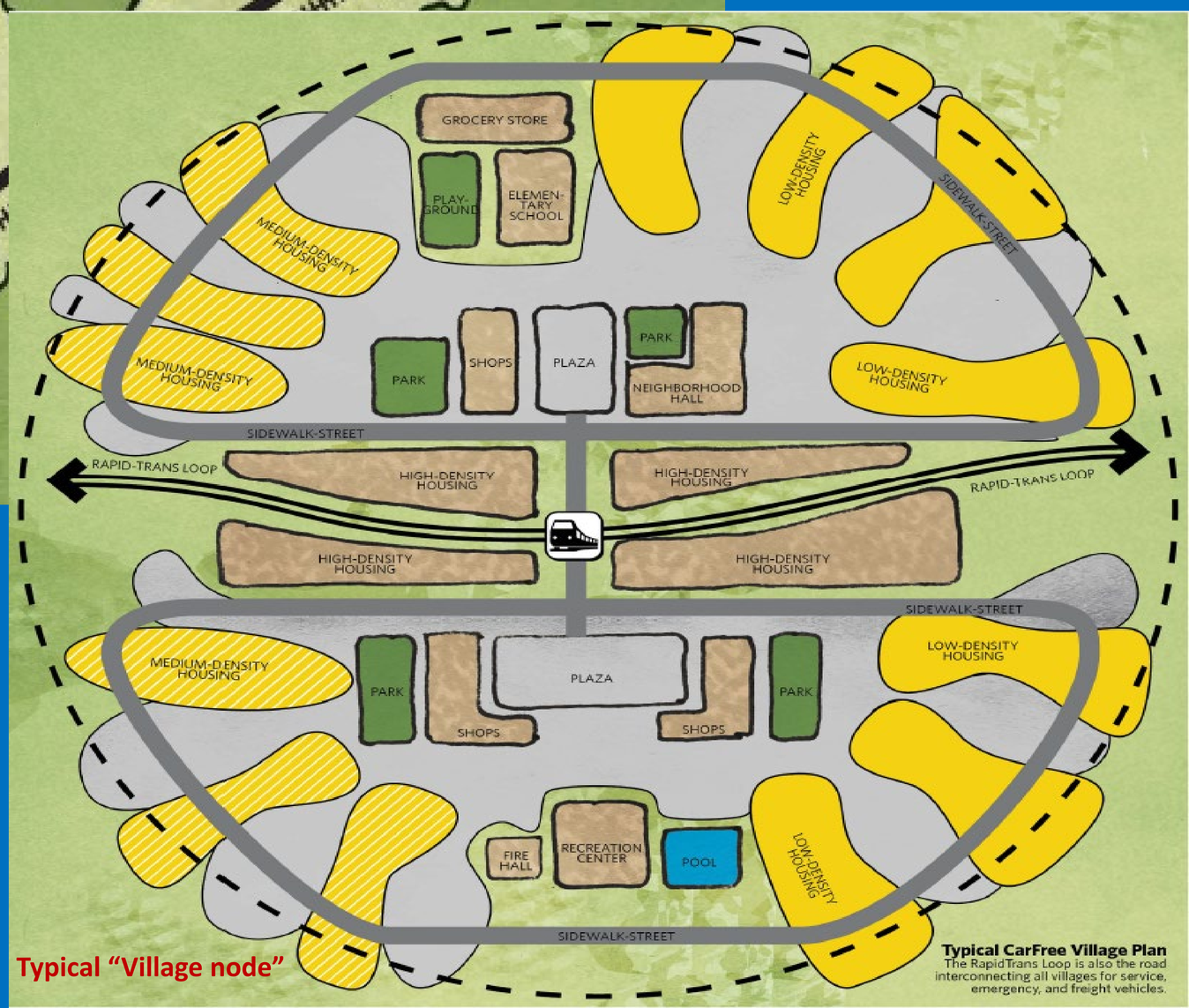
Typical "village node" plan:

- Transit station centered
- Paved: walk, bike, ADA
- Service vehicles only



Typical "Village node"

Typical CarFree Village Plan
The RapidTrans Loop is also the road interconnecting all villages for service, emergency, and freight vehicles.