

# Personal Rapid Transit



## The Future of Mobility

- What is Personal Rapid Transit (PRT)?
- How does a PRT system compare to other forms of public transportation?
- Who else is using PRT systems?

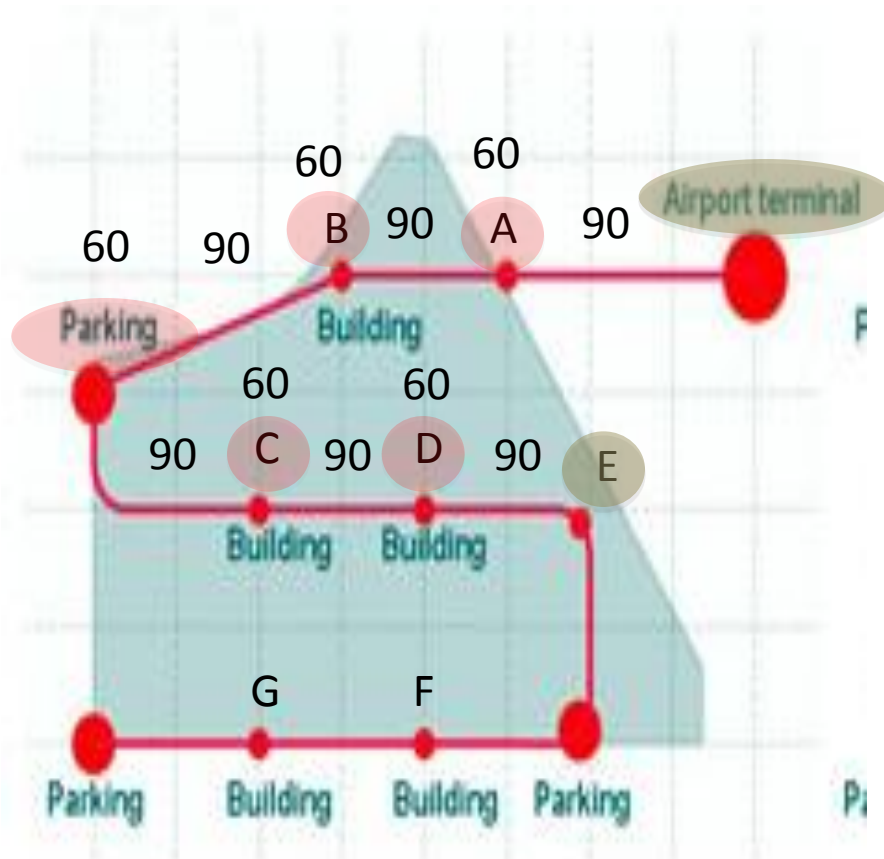


**What is Personal Rapid Transit?**

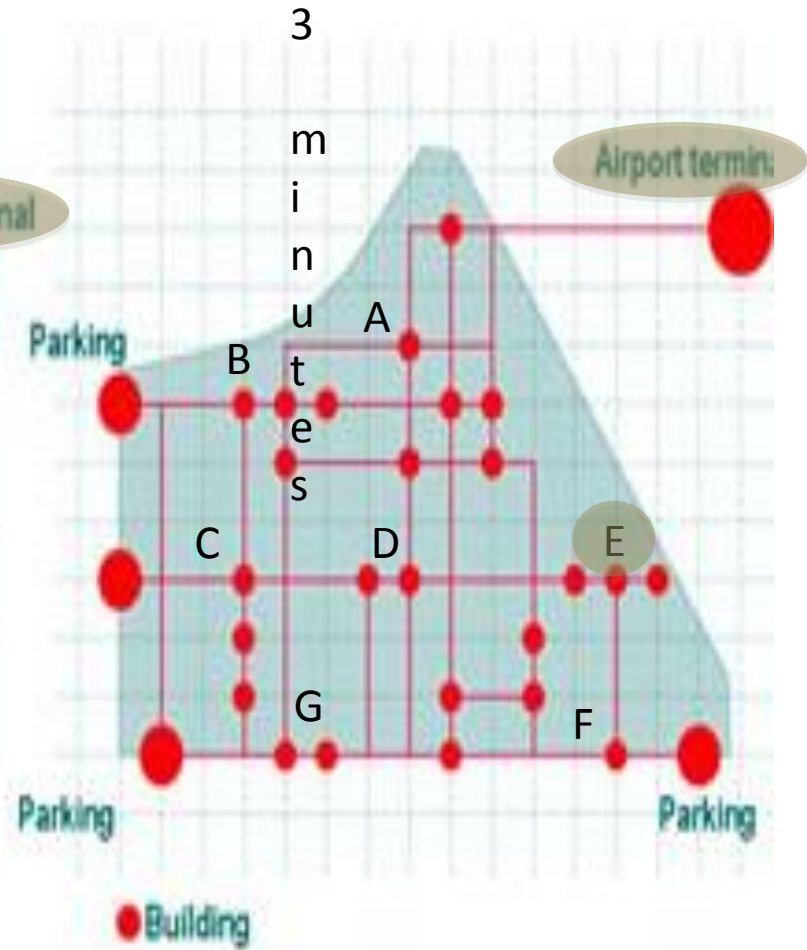
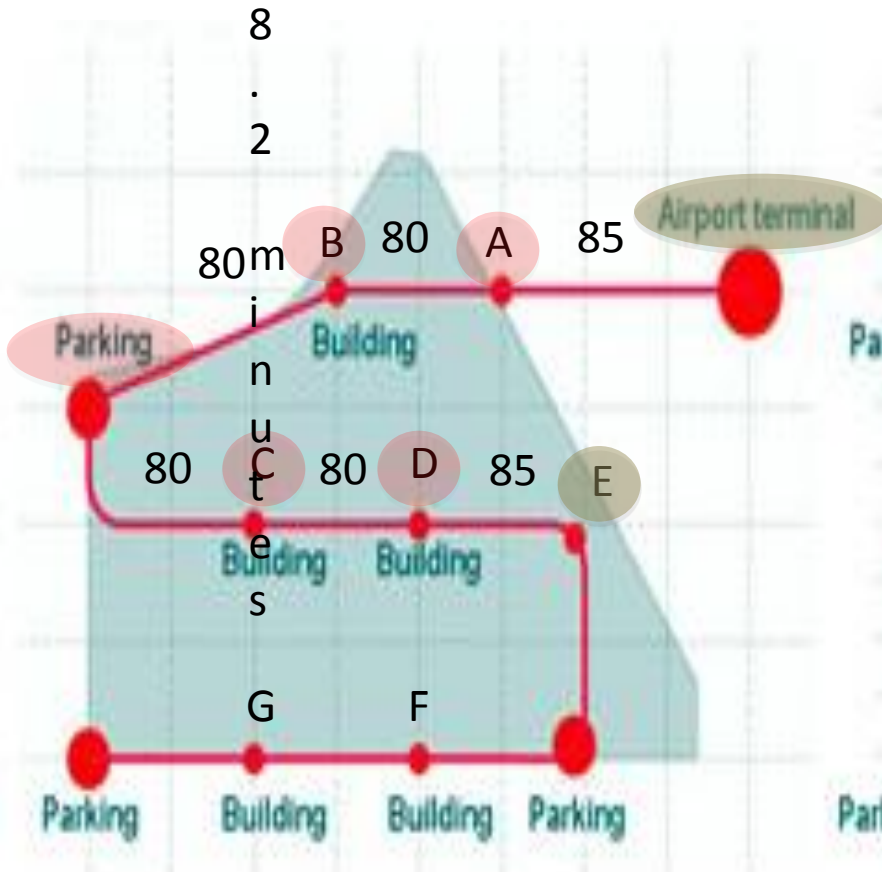
- Typically 3-6 passenger capacity
- Autonomous operation
- Steel or rubber wheeled or aircushion / maglev
- Often referred to as an Intelligent Transportation Network System (ITNS)
- **Point-to-point travel**

# LRT, Heavy Rail or Monorail

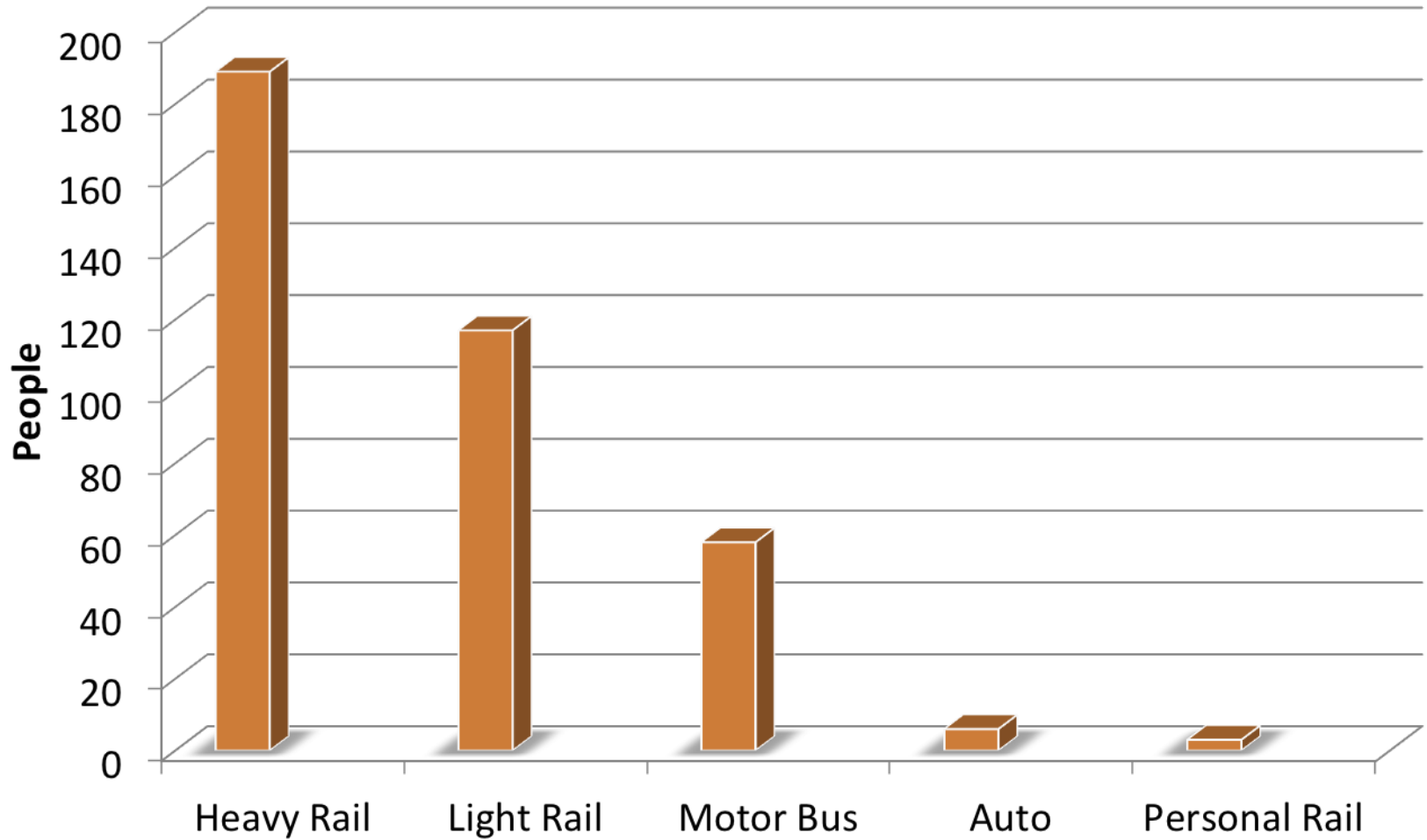
14 minutes



# Road or Rail PRT



# Vehicle Design Capacity



## LRT

- 400 people / vehicle
- 6 minutes / vehicle
- **4000 people / hour**

## PRT

- 3 people / vehicle
- 2 seconds / vehicle
- **5400 people / hour**





- Time competitive with automobiles
- Mitigate point of use emissions
- Quiet operation
- Easy to access
- Space conscious
- Comfortable ride
- Minimize equity required by users
- Provide weather independent service
- Reliable
- Safe

Every Day in 2009...

≈ **474** Canadians injured, 73% urban

≈ **6** Canadians died, 41% urban

“Ridiculous that humans drive cars”

Eric Schmidt, CEO Google



# Morgantown, West Virginia University



Daily Ridership: 16000

Average wait time: < 5 minutes

System Length: 13.2 km

Opened: 1975



# Heathrow Airport, London



Average wait time: 12 s

System length: 3.9 km

Opened: 2011



# Masdar City, Abu Dhabi, UAE



Average wait time: < 3 minutes

System area: 6 km<sup>2</sup>

Opening phase 1 (1km<sup>2</sup>): 2015

Completion: 2020-2025



# Skytran, Concept Stage



Artists rendering

Suspension: maglev

Theoretical cruise speed: 250 km/h

- Gurgaon, India
- Suncheon, Korea
- Daventry, UK
- Dubai, UAE
- Abu Dhabi, UAE
- Santa Cruz, USA
- Milton Keynes, UK



# Motive PRT, Downtown Render



Thank you



Derek Neufeld

Motive Industries Inc.

derek@motiveind.com

403.236.3133

www.motiveind.com

Thank you.

