

# **AUTOMATED TRANSIT**

## **and MODERN AIRSIDE and LANDSIDE MOBILITY**

Lawrence Fabian, Trans.21 (USA)

IARO Berlin Conference

September 19, 2012



# APMs and AIRPORTS

- 1970/1980s – early APMs both airside (Tampa) and landside (DFW)
- 1990s – growing international market (Europe, Far Asia)
- 2000s – stalled growth, focus shift from expansion to security
- 2012 - reviving in USA, stalled in Europe, growing in Asia, Middle East



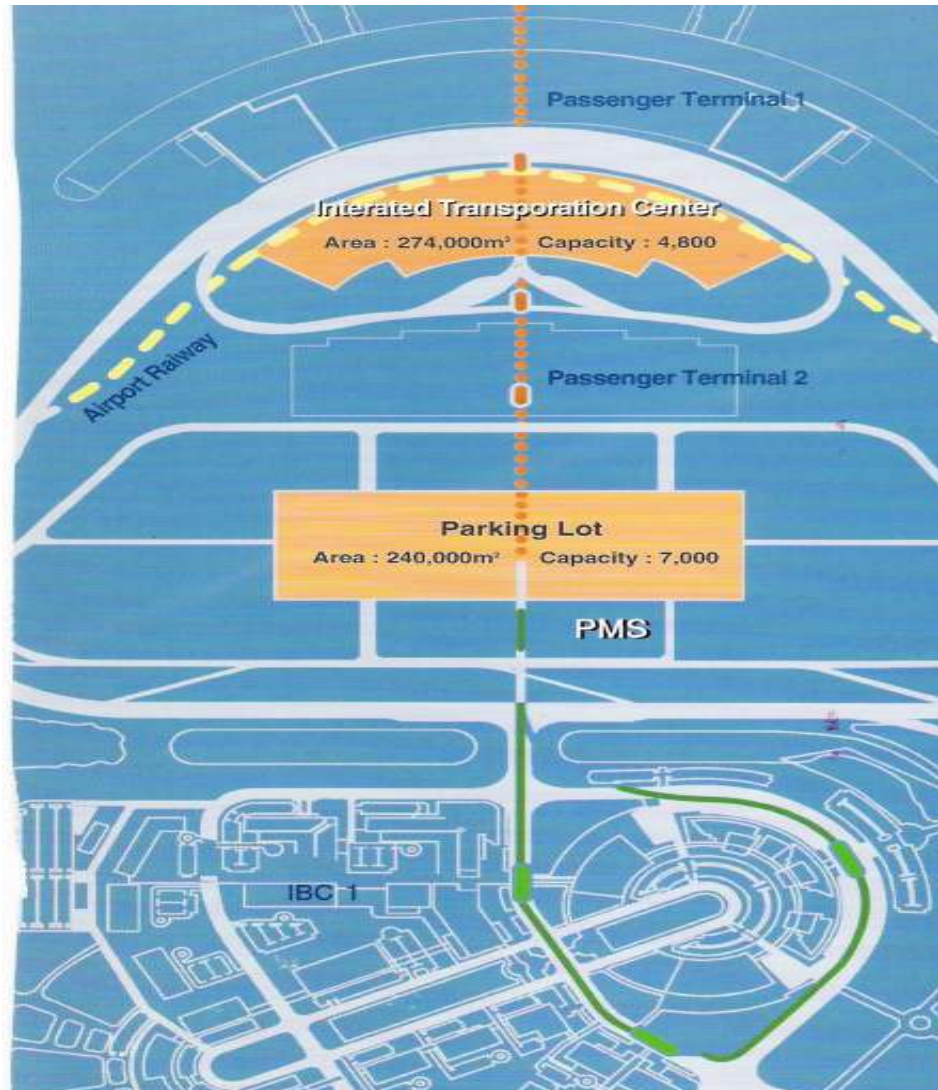
# AIRSIDE SHUTTLES and SHORT LINES



# A VARIETY OF BRANDS



# SOME REACHING LANDSIDE



# CURRENT PROJECTS

## (LANDSIDE PROJECTS)

- **Recent openings**

- Atlanta extension (Bomb)
- 3<sup>rd</sup> Vegas (Bomb)
- MIAmover (MHI)

- **Underway**

- Dubai (MHI, Jan 2013)
- PHX (Bomb 2013)
- Doha (DCC 2013)
- Munich (Bomb 2014)
- Jeddah (Bomb 2014)

- **Planning/Consideration**

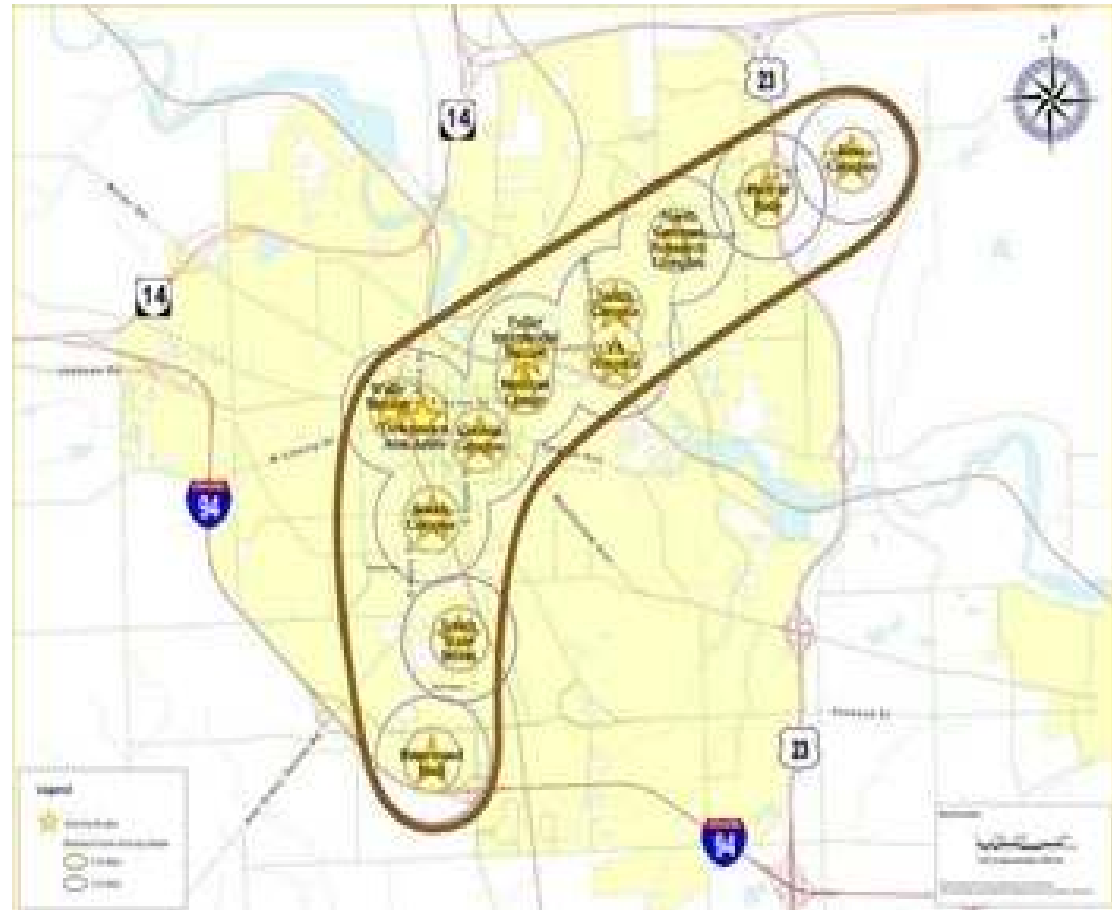
- HK extension, MSP
- Ohare, Dubai-Makhtoun
- LAX, Bangkok, Philadelphia
- LHR (both PRT and T2)
- Taipei

- **Major Rehabs**

- Orlando
- Tampa

# PRT and RAIL's LINEARITY

1. Number + Spacing of Stations
2. Speed vs. Service Stops
3. Fare vs. Demand

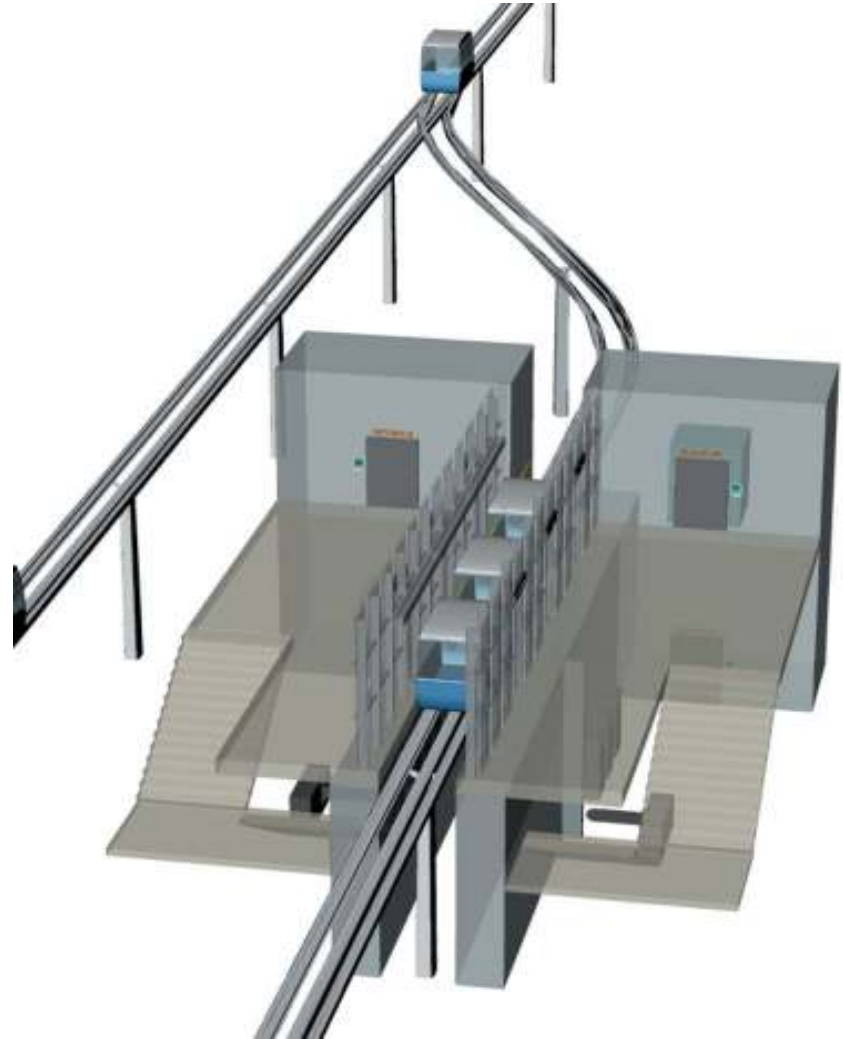


# PRT FUNCTIONALITY

- Off-line stations (~switching)

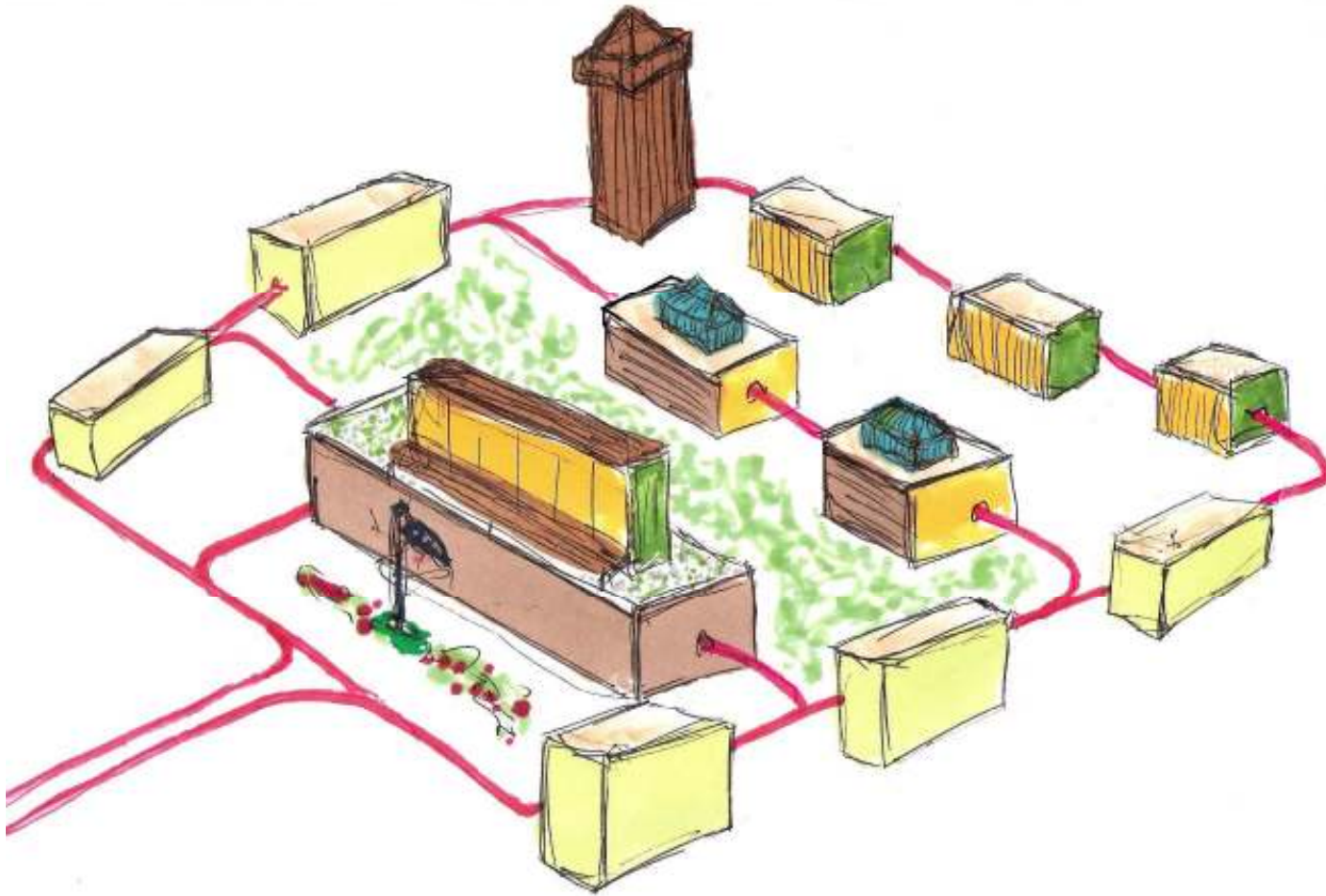
- graphic courtesy of Vectus

- Taxi-like vehicles and service
- Flexible, expandable networks





# REACHING OUT with a NETWORK

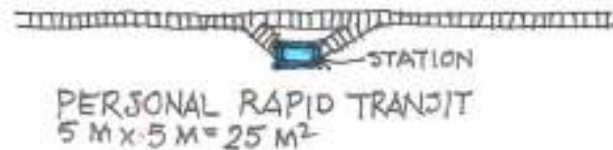
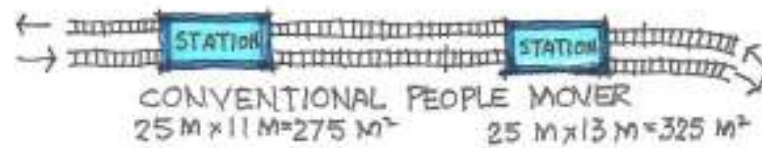


# PRT DIMENSIONS

1. Identify Stations  
(Trip-Generators)
2. Minimal Station Size
3. Enlarge as Needed
4. Interlink into a  
Network

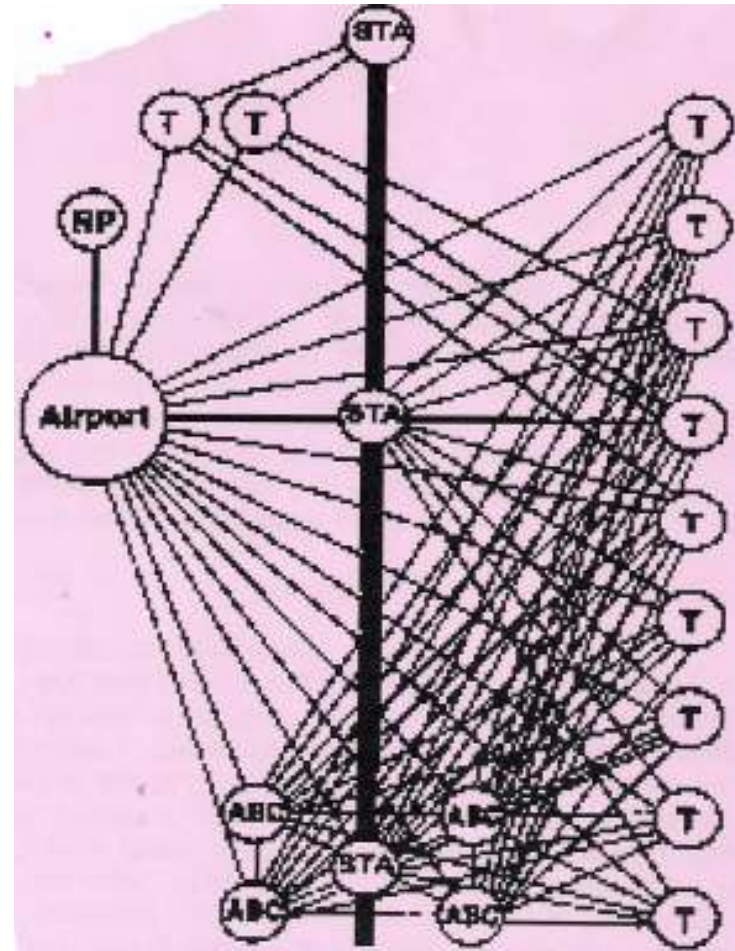


# NEW STATION SCALE(S)



# AIRFRONT NEEDS

- Many “small” competitive destinations
- Car rentals, remote parking, hotels, meeting facilities, etc.
- Growing office, logistics activities



# AIRSIDE TO LANDSIDE



# LANDSIDE DESTINATIONS

**Georgia Convention Center**



**BWI's Sprawled District**



# GENERATING TRAFFIC



# CREATING LAND VALUE

**Miami's MIA-mover**

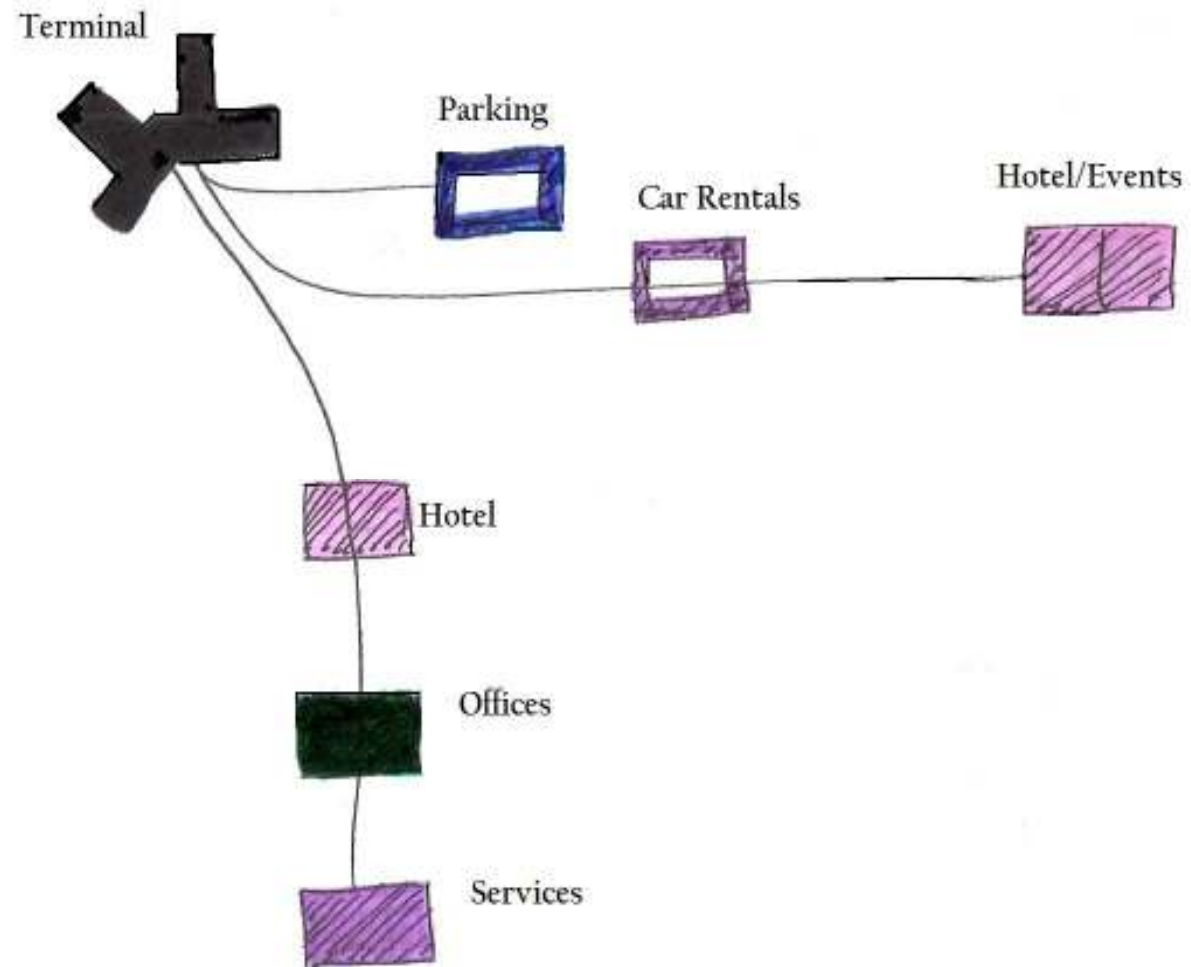


**Future Hotel/Conventions**





# APM (NON-ROAD) LINKS



# NETWORKS WITHIN REACH

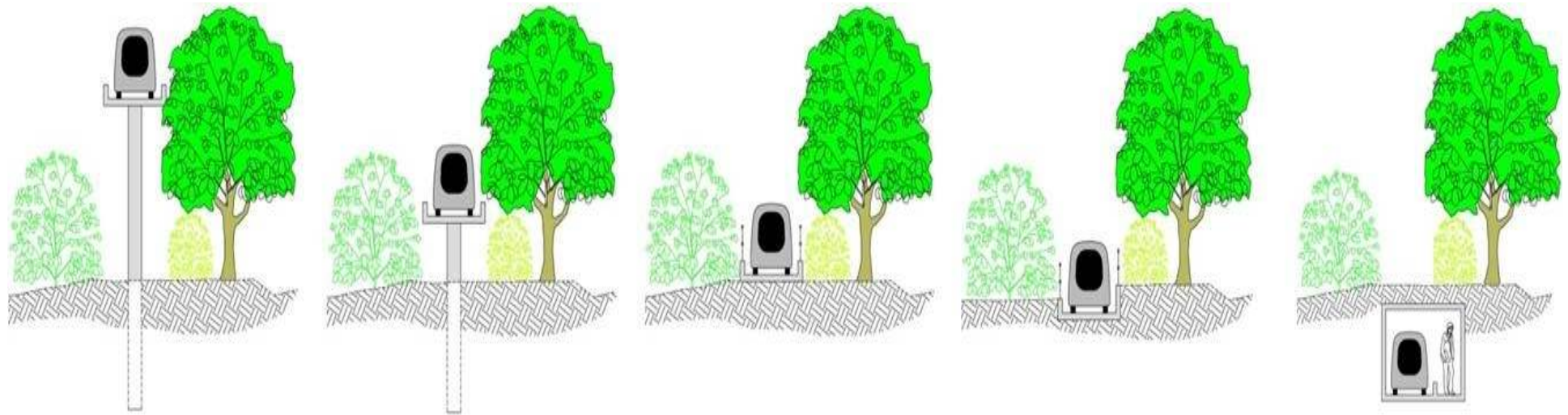
PRT @ LHR



# IN-LOBBY or DOOR-FRONT



# ALIGNMENT OPTIONS



# WHAT IS YOUR AIRFRONT?

