Attachment 2 – Technology Options

Aerial Cable Transportation
(Gondolas, Aerial Trams and Funitels)

Description: fully automated transit that uses one or more cables for propulsion and stability in hanging passenger cabins.

Portland Aerial Tram (Portland, Oregon)

Singapore Cable Car (Sentosa, Singapore)

Funitel Hakone (Kanagawa Prefecture, Japan)

Roosevelt Island Tramway, Aerial Tram (NYC, NY)

SYSTEM CAPACITY TO N. BAYSHORE:	1,850 - 1,900 PEOPLE PER HOUR PER DIRECTION
AVERAGE WAIT TIME TO N. BAYSHORE:	15 - 30 SECONDS
TRAVEL TIME TO N. BAYSHORE:	11 MINUTES
EXPANDABILITY:	HARDER
WHERE IT OPERATES:	EXCLUSIVE RIGHT OF WAY
HOW IS IT GUIDED:	SUSPENDED MOVING CABLES

Automated People Movers
(Rubber-tire, Steel-wheel, Monorails, Maglevs)

Description: Fully automated transit systems where vehicles operate on a fixed guideway along a corridor.

Mitsubishi: Crystal Mover APM (Miami International Airport, FL)

Bombardier: Innovia Monorail (Las Vegas, NV)

Hyundai: Rotem Urban Maglev (Incheon, Korea)

Doppelmayr Cable Car: Cable Liner (Oakland, CA)

SYSTEM CAPACITY TO N. BAYSHORE:	2,300 PEOPLE PER HOUR PER DIRECTION
AVERAGE WAIT TIME TO N. BAYSHORE:	2 MINUTES
TRAVEL TIME TO N. BAYSHORE:	7 MINUTES
EXPANDABILITY:	HARDER
WHERE IT OPERATES:	EXCLUSIVE RIGHT OF WAY
HOW IS IT GUIDED:	STEEL RAIL / CABLE / GUIDERAIL

Automated Transit Network
(Personal and Group Rapid Transit)

Description: Transit system featuring smaller automated vehicles operating on a network with specially built guideways for non-stop point-to-point travel.

Vectus PRT (Suncheon Bay, South Korea)

Ultra Global PRT (Heathrow, England)

2getthere PRT (Masdar City, Abu Dhabi, UAE)

2getthere GRT (Business Park Rivium, Capelle aan den IJssel, the Netherlands)

SYSTEM CAPACITY TO N. BAYSHORE:	1,800 - 1,850 PEOPLE PER HOUR PER DIRECTION
AVERAGE WAIT TIME TO N. BAYSHORE:	5 - 25 SECONDS
TRAVEL TIME TO N. BAYSHORE:	6 - 7 MINUTES
EXPANDABILITY:	EASIER
WHERE IT OPERATES:	EXCLUSIVE RIGHT OF WAY
HOW IS IT GUIDED:	SENSORS / RAILS / CURBS

Autonomous Transit

Description: Automated vehicles on a mapped network and capable of operating in mixed flow and sensing the environment around them.

Navya: Arma (Source: Nevya, 12/9/16 press release)

EasyMile: EZ10 (Parc des Expositions – Paris, France)

Ultra POD: Greenwich Gateway Project (source: Gateway Project website)

Navya: Arma (Source: Navya)

SYSTEM CAPACITY TO N. BAYSHORE:	2,000 - 2,250 PEOPLE PER HOUR PER DIRECTION
AVERAGE WAIT TIME TO N. BAYSHORE:	15 - 30 SECONDS
TRAVEL TIME TO N. BAYSHORE:	6 - 7 MINUTES
EXPANDABILITY:	EASIER
WHERE IT OPERATES:	EXCLUSIVE GUIDEWAY WITH POTENTIAL FOR MIXED FLOW
HOW IS IT GUIDED:	SENSORS AND GPS NETWORK