

# Sustainable last mile logistics

Peter Harris, International Sustainability Director, UPS

#### GLOBAL SMALL PACKAGE

Full spectrum of ground and air package shipping services





Traditional and nontraditional financial and payment services through UPS Capital

#### **INSURANCE & FINANCING**



#### **LOGISTICS & DISTRIBUTION**

Solutions that manage the flow of goods from receiving and storage to processing and shipping





A global portlolio of brokerage, less-than-truckload and full truckload services, and air and ocean freight services

FREIGHT FORWARDING

# Who We Serve

## Where We Go

10.5 Million+ Customers Dully

46 Million+ UPS My Choice\* Members uns/June 2000 220+ Countries and Territories Served 5.1 Billion 2017 Delivery Volume Americas
Asia-Pacific
Europe
Indian Subcontinent,
Middle East, and Africa
(ISMEA)
USA

20 Million Package Deliveries Daily

# How We Do It

454,000+ Global Employees 2,240+ Dutly Flight Segments 119,000 Vehicles

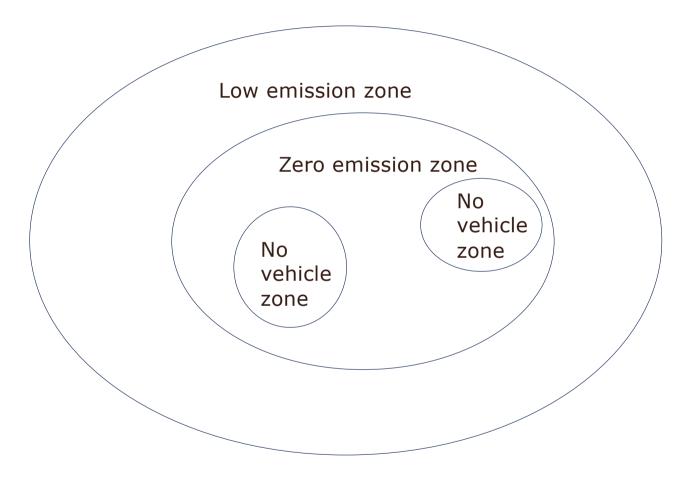
2,500+ Worldwide Operating Facilities 27,500+ UPS Access Point\*\* Locations -9,100
Alternative Fuel or Advanced
Technology Vehicles

580+ Owned and Leased Aircraft

#### **Priorities**

# Emissions and congestion

## The future urban landscape we need to plan for...



#### Alternative fuels and technologies: Rolling laboratory



Walker or tricycle			
Electrically assisted tricycle			
Electric			
Range extended electric or hybrid			
Biomethane			
Biodiesel			
Natural gas (CNG, LNG)			
Hydrogen			
Propane (LPG)			
<u>Key:</u>		Good sustainability, feasibility, payback balance	
		Backup Poor sustainability, feasibility, payback balance	

Collection and Delivery

over 100 km per day

Collection and delivery: Electrification and cycle logistics

Long haul: Renewable natural gas

Collection and Delivery

under 100 km per dav

Feeder

# Cycle logistics: Eco-Hub I



## Hamburg



## The UPS-Fernhay e-quad: Breathe



- Friendly to other road users
- Rugged
- Productive
- Developed in partnership with Dublin, Belfast and the Enterprise Ireland SBIR programme
- To be launched in Dublin
- Two cab options and two box options





## The UPS-Fernhay e-walker: Air



- Friendly to pedestrians
- Rugged
- Productive
- Being developed in conjunction with Dublin, Belfast and the Enterprise Ireland SBIR programme
- Requires a legislative debate

#### The UPS-Fernhay Eco-Hub II



- Carries six preloaded Fresh boxes
- Minimises to-from emissions and costs
- Two height options: low option compatible with operation from underground carpark
- Fresh could also travel by rail or water: under evaluation

#### **Conclusion**

- Sustainable last mile logistics is not easy but it is possible, and we must succeed
- The ingredients of success are:
   A vision, partnerships and tenacity
- Let's go there is no time to waste!

# Thank you www.sustainability.ups.com