Masdar Application

2getthere markets and develops sustainable mobility solutions for personal and group transit. The driverless concepts operate as automated taxis (PRT) or mini-busses (GRT), providing superior service levels. 2getthere builds on more than 25 years experience with controls technology for automated guided vehicle systems, customizing applications to demand characteristics - ensuring customer and user expectations are met and exceeded.
Introducing PRT
To the Sustainable City

• Carbon Neutral = Zero Cars
  – Masdar City will feature public transit with a private character (PRT) alongside light-rail, metro and other environmentally friendly means of transit (e.g. Segway).
  – Mobility and accessibility are ensured, but not at the expense of space and living comfort.

• Urban Planning
  – A dedicated, grade separated guide way ensures system throughput, safety and availability of space at grade for other purposes.
  – An ‘undercroft’ (with a raised pedestrian level) was selected over an elevated or underground infrastructure, as a result of the thickness of the network, the (visual) impact on the fabric of the city and the improvement of energy efficiency with the system sheltered from the elements.
Masdar City
Carbon Neutral, Zero Waste

Masdar City Transit
- LRT (connecting Abu Dhabi - Airport)
- Metro Network (2030)
- Personal Rapid Transit
- Pedestrian Network

A related objective is to drive the commercialization and adoption of these and other technologies in sustainable energy, carbon management and water utilization.
PRT Vehicle: CyberCab
*From Development to Realization*

- vehicle 2 completed June 09
- EAT completed
- first operational 15 June
- vehicles 3, 4 and 5 also completed
PRT Vehicle: CyberCab
From Development to Realization
Masdar Experience
Video October 2010 (1 month prior to opening)
Ensuring Safety
Obstacle Detection Systems
Masdar Operations
Certification, Opening and Operations

• Operational Certification: November 23, 2010
  – Review safety by ISA (Lloyd’s Register)
  – Review health by IHA (Bureau Veritas)
  – Certification by Abu Dhabi Department of Transportation

• Opening: November 24, 2010
  – Sheikh Mansour

• Operations: November 28, 2010
Market@Masdar
Introducing Masdar to Abu Dhabi Residents

• The Market
  – 29 April, Organic Fair
  – 6,000 – 8,000 visitors

• PRT system
  – carrying 3,600 passengers (design for
  – 99.4% system availability
  – Accomodating up to 8 passenger (5 children) in one vehicle
  – Accomodating a wheelchair and 4 passengers in one vehicle
  – Excitement of children and adults

Even though passengers could elect to use the shuttle bus, they chose to queue for the PRT system as it was one of the reasons to come to the open day.
Introducing Masdar to Abu Dhabi Residents
Market@Masdar
Introducing Masdar to Abu Dhabi Residents
Future and Expansions
What is in store next?

• Masdar Development
  – Masterplan is revisited
  – PRT is under debate; will not be extended to the degree originally foreseen

• 2getthere
  – Following up new leads generated
  – Following existing leads now the first application is successful
  – Re-engineering next generation based on experiences

Moving forward towards realizing more applications