2getthere markets and develops sustainable mobility solutions for personal and group transit. The driverless concepts operate as automated taxis (PRT) or mini-buses (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.
Systems

ParkShuttle Rivium
- Group Transit: 20 passengers per vehicle
- 1st generation: 1999
- 2nd generation: 2007
- 2500+ passengers per day
- 99+% system availability

Masdar PRT
- Personal Transit: 6 passengers per vehicle
- 1 year operational (since November 28th 2010)
- >230,000 passengers (~650 per day)
- System availability increased from 98.6% to 99.8% over the year
Rivium: GRT Feeder System
Connecting Subway Station to Business Park
Rivium 2011
Construction and Tendering

• Construction works on/adjacent to the track
  – Operations to resume mid-December

• Mixed Operations
  – Manual mini buses operating on the track alongside automated ParkShuttle

• Tender for operations contract
  – Awarded for next 5 years
  – Significant cost reduction realized
Masdar 2011
Operations Year 1

• Initial Experiences
  – Increasing passenger numbers
  – Increasing system availability
  – Hot, humid summer months operations!
  – VIPs

• Extension of O&M contract for 3 years
  – Significant cost reduction realized
  – Team size reduced from 10 to 7 members
Masdar Operations
Certification, Opening and Operations

• Phase 1a services the Masdar Institute for Science and Technology
  – ~150 students
  – ~25 staff
  – Some retail (restaurants)

• 18 hours per day (06.00 – 00.00) / 7 days per week

• 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

• Operations: November 28, 2010
Project Organization
Co-operation of multiple parties

- Kalmar ACT [Remote Support Controls]
- Hevac / Timco [Air-conditioning Vehicles]
- AI Jaber Energy Services [Maintenance Infrastructure]
- SMRT [Operations Resources]
- 2gethere / UTS JV [Operations Resources]
- Spijkstaal [Vehicle Maintenance Support]
- Odiris [ICT Network Maintenance]
- 2gethere [PRT Operations Contractor]
- Mott MacDonald [Safety Case Documentation]
- Masdar
- Lloyds’ Register [Independent Safety Assessor]
- Abu Dhabi Department of Transportation (DoT)
- Bureau Veritas [Independent Health Assessor]
Facilities Set-up

To the Sustainable City
Project Organization

Team on the ground

2getthere Team 2011

- Operations Manager
- Chief Service Engineer
- Service Engineers (2)
- Operators (6)
- Health and Safety Officer
- Administrator

External

- Security Guards (Masdar FM)
- Cleaning (Masdar FM)

2getthere Team 2012

- Operations Manager
- Chief Service Engineer
- Service Engineers (2)
- Operators (4)

External

- Security Guards (Masdar FM)
- Cleaning (Masdar FM)
## System Performance

### First Operations Successful

<table>
<thead>
<tr>
<th></th>
<th>12/10</th>
<th>01/11</th>
<th>02/11</th>
<th>03/11</th>
<th>04/11</th>
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<th>07/11</th>
<th>08/11</th>
<th>09/11</th>
<th>10/11</th>
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<tbody>
<tr>
<td><strong>Total</strong></td>
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<tr>
<td>Number of passengers</td>
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<td>Number of trips</td>
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<td>Average vehicle occupancy</td>
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<td>2</td>
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<td>2,1</td>
<td>2,3</td>
<td>2,4</td>
<td>2,3</td>
<td>2,1</td>
<td>1,9</td>
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<td>Peak-day passengers</td>
<td>589</td>
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<td>863</td>
<td>975</td>
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<td>Total kilometers</td>
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<td>Vehicle availability</td>
<td>99,8%</td>
<td>99,7%</td>
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<td>99,9%</td>
<td>99,8%</td>
<td>99,9%</td>
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<td>99,9%</td>
<td>99,8%</td>
<td>99,8%</td>
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<tr>
<td>System availability</td>
<td>98,6%</td>
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<td>99,4%</td>
<td>99,1%</td>
<td>99,1%</td>
<td>98,9%</td>
<td>99,4%</td>
<td>99,4%</td>
<td>99,4%</td>
<td>99,5%</td>
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