



***Demonstration in South Africa
A DRT system for the
FIFA 2010 Soccer World Cup***

PLUSERVICE.NET

Integrated Information System
for Mobility





Stadium project

Smart Transport Applications Designed for large events with Impacts on Urban Mobility

- Project coordinator: ISIS (Institute of Studies for the Integration of Systems)
- Coordination of the South African demo: PluService
- Coordination of the Indian demo: Thetis
- Coordination of the London demo: Transport for London
- Duration: 48 months, from May 2009 until April 2013
- Partners from Europe, India and South Africa
- Total budget: €5.7 million
- EC contribution: €3.5 million
- Co-funded by the EC DG Research





Stadium demonstration during FIFA South Africa 2010 - Challenges

Project challenges:

- Demonstrate an ITS application:
 - during a large event such as the FIFA 2010 Soccer World Cup
 - in an emerging Country
 - in a very short time



- The ITS solution had to **be integrated in the context** of transport solutions designed for the big event
- The solution had to be sustainable and last after the SWC
- Hosting cities in South Africa implemented a **Bus Rapid Transit (BRT)** solution for Mass Transportation during the large event





Stadium demonstration during FIFA South Africa 2010 - Challenges

The Stadium project integrated a new concept of **Demand Responsive Transport** in Cape Town (almost 3 Million inhabitants)

The Stadium South African demonstration implemented a **Demand Responsive Transport** system to and from the Central BRT station as support to mass transportation during large events

The DRT system is now being used to manage additional services in Cape Town:

- Feeder services*
- Loop services
- Private on demand services
- Mall hopping service

*Feeding the **Bus Rapid Transit** in Cape Town, a new **fast bus service** on **dedicated lanes** with boarding on high level **platforms** and **off board fare collection** made at each BRT station entrance (paid areas)





Stadium project and demonstration activities during FIFA 2010 SWC – Cape Town



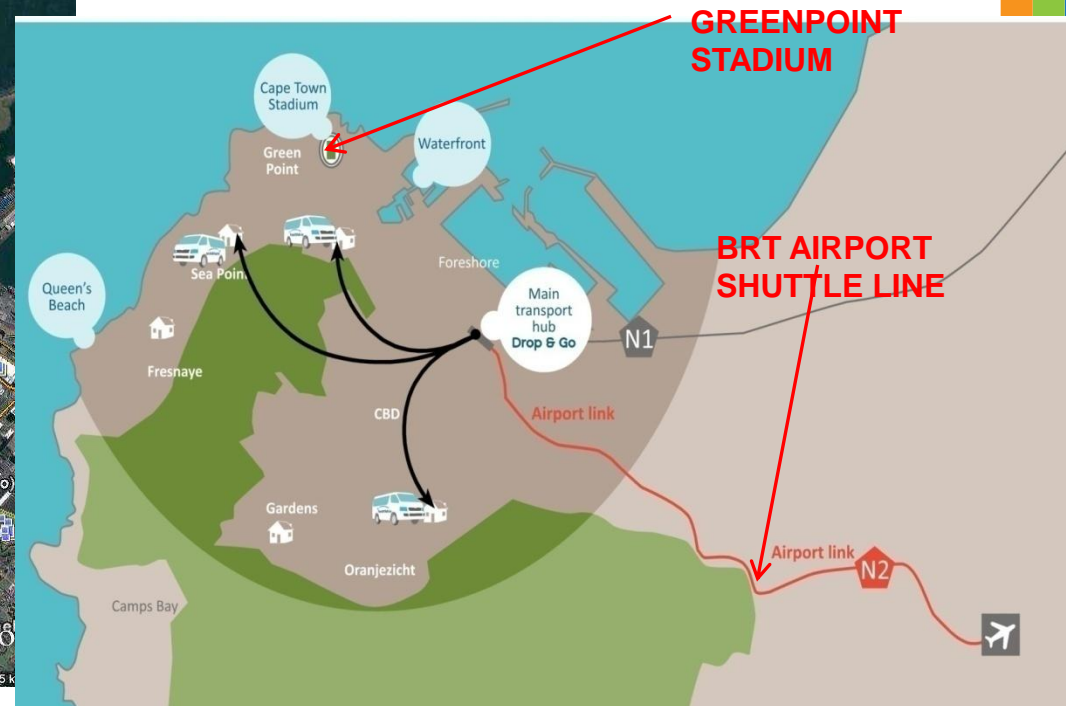
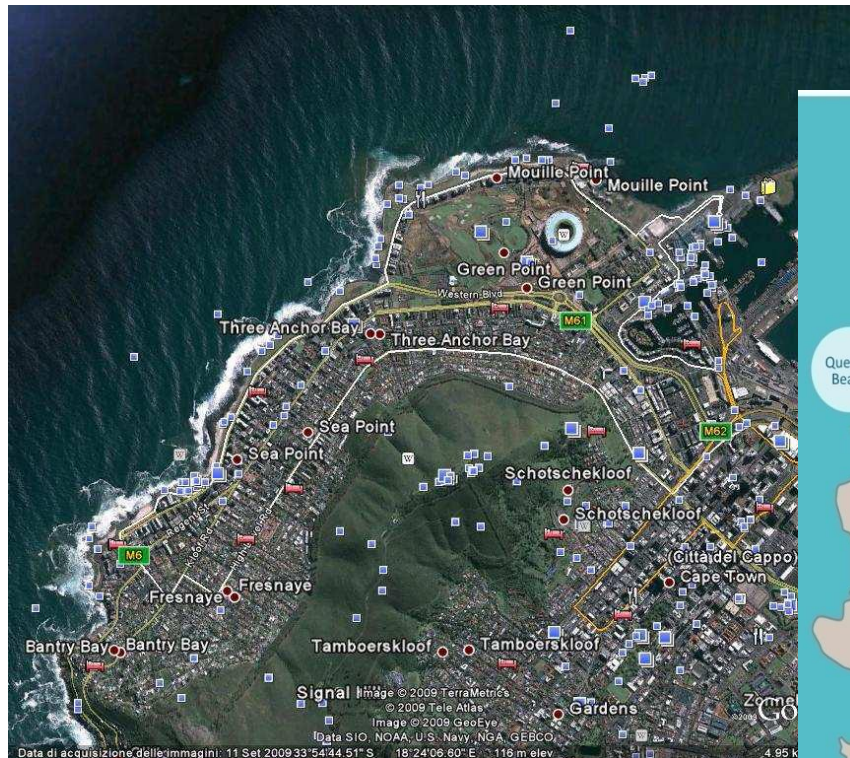
What has been implemented in South Africa:

- On Board Equipment for a fleet of vehicles
- A control centre for the monitoring of vehicles
- A booking centre for the management of new on demand services



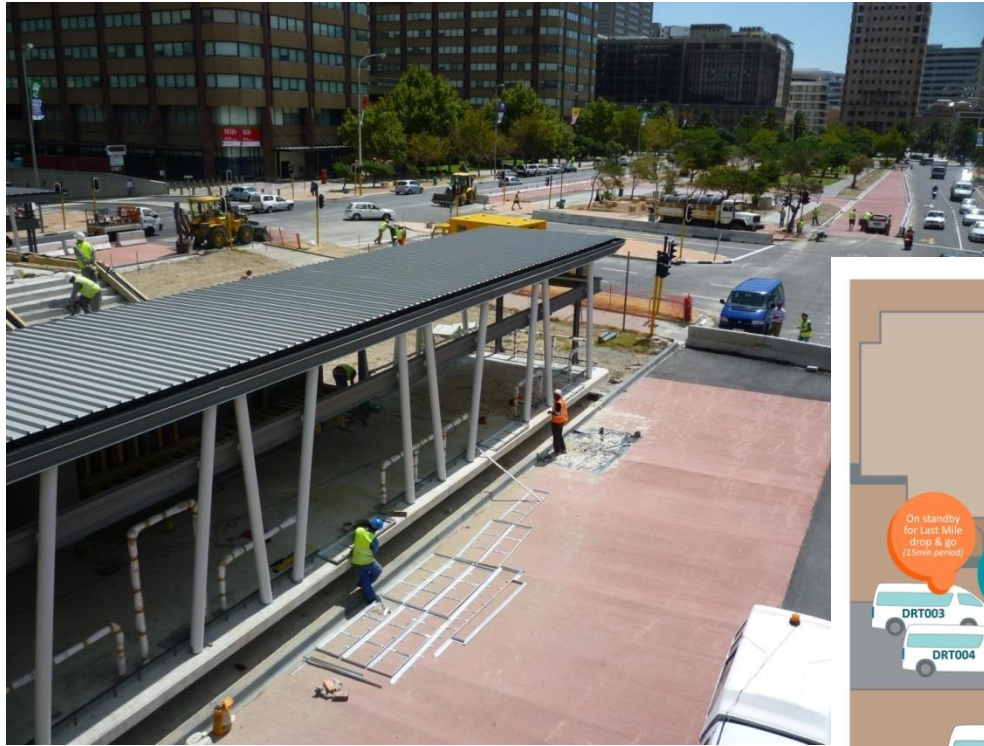
Stadium in FIFA 2010 SWC – Cape Town

- DRT service operate as **Last Mile** service for visitors arriving from airport in the Central BRT Station
- Take visitors from Central BRT Station to final destination and back





Stadium in 2010 SWC – Cape Town



BRT Central Station in Cape Town

From BRT station to final destination the Stadium DRT system provide assistance and means to book the service



Stadium in FIFA 2010 SWC Cape Town

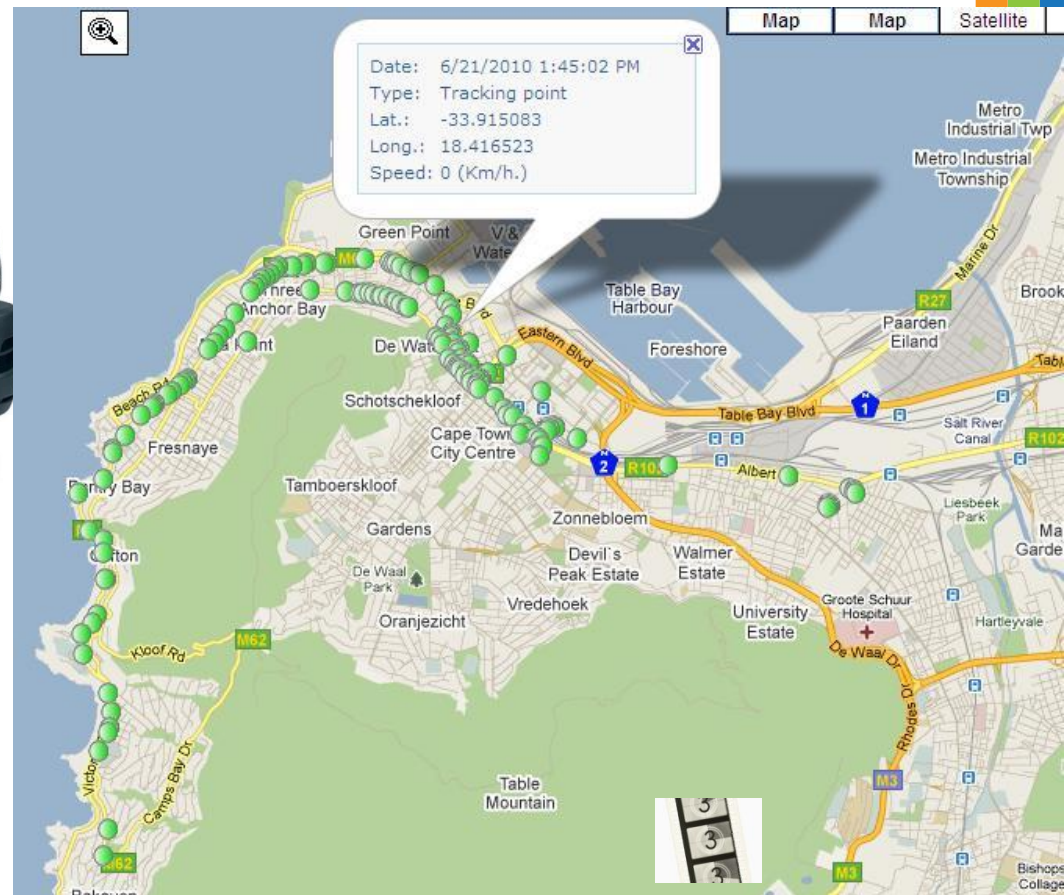
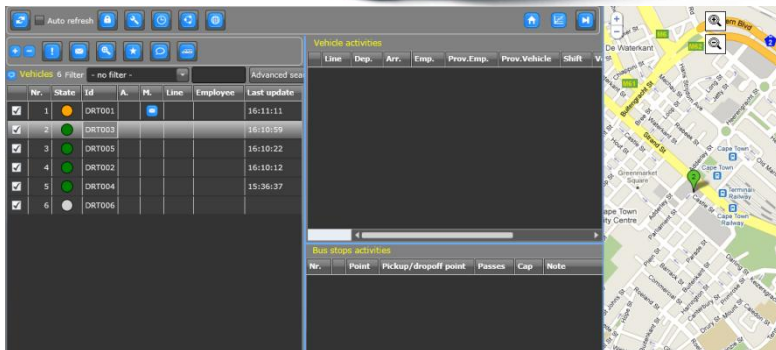
CIVIC TRUNK STATION



Last Mile
Pick up
point

Stadium demonstration in SA

Picture shows the tracking points of one of the Last Mile vehicles with info about time, position, speed





Aims and actions of the Stadium demonstration in Cape Town

Overall goals:

- Improve the long term performance of minibus taxi public transport services through the use of ITS
- Implement a Demand Responsive Transport (DRT) application on taxis that can be used effectively during the 2010 SWC and beyond

Actions in progress (as of January 2011):

- Adapt the system to new services to enhance the transport system and leave a legacy beyond 2010
- Implement a business plan to make the system sustainable
- Evaluate the performance of the DRT service and find the break even point for DRT sustainability





Thanks for your attention!
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