



POST LEARNING EVENT REPORTING TEMPLATE

As part of eThekweni Municipality's commitment to strengthen our organisation's culture of learning and sharing, this form presents information on a recent out of town trip, visit, learning exchange undertaken by an official from the municipality. This information will be posted on the MILE website (www.mile.org.za) in the interest of advancing our **KNOWLEDGE MANAGEMENT** agenda. Thank you for taking the time to complete the form.

1. What was the NAME OF THE EVENT?

Intelligent Transportation System World Congress

2. The DATE attended:

5-9 October 2016

3. VENUE

(further details on venue)

France- Bordeaux - at the international convention and exhibition centre

4. OFFICIALS WHO ATTENDED?

Thami Manyathi

Mlu Wosiyana

Mabuyi Mhlanga

Andrew Aucamp

5. What area of expertise did the event cover?

| | | | | | |
|------------------------------------|--------------------------|---------------------------------------|--------------------------|----------------------------|--------------------------|
| Culture, heritage and sport | <input type="checkbox"/> | Engineering and the built environment | x | IT and Finance | <input type="checkbox"/> |
| Economic development and Tourism | <input type="checkbox"/> | Health and Safety | <input type="checkbox"/> | City strategy and planning | x |
| Energy and the natural environment | | Good governance | <input type="checkbox"/> | | |

Other: Intelligent Transportation Systems

6. What was the PURPOSE OF THE EVENT, THE BROAD OBJECTIVES, AND THEMES? Why was it of importance?

The ITS World congress is the largest gathering of Intelligent Transportation Systems service providers, equipment, solutions, latest technology and applications for all aspects of transportation, including public transport, urban traffic control, freeway management and freight logistics. It exposed the City officials to best practice and emerging technologies around the world that can be used to cut costs. Papers were presented in parallel streams covering the latest technologies, projects and best practice in all fields of ITS.

7. What in your opinion are some of the KEY LEARNINGS that you came away with? In other words, what stood out for you? Were there any "aha!" learning moments that you can share with colleagues? What were some of the KEY OBSERVATIONS that were important or different?

1. Big data and open data initiatives

Many sessions were devoted to discussing the collection, cleaning and use of big data. A related theme was making this data available to the public and private business (open data). Many countries have now established websites where their data can be accessed by any interested parties (see <https://data.overheid.nl/> [Netherlands] and <https://www.data.gov/> [USA] as good examples). It is critical that the data is geo-referenced to allow for visual representation.

Prism Solutions (and exhibitor) is a company that helps government departments in particular discover and unlock the value of the information that they already have, and also transform existing data into electronic formats that can be used in a smart city environment.

2. Mega trends and emerging trends

Key discussions were held around the mega trends of:

- Urbanisation
- Climate change
- Reduction in availability of fossil fuels

Some of the discussions and deliberations therefore focused on:

- The critical role of non-motorised transport, and in particular cycling. Key aspects to cycle were dedicated paths to ensure safety.
- Re-thinking life-work patterns, with a focus on reducing the need to travel to work and commerce every day.
- The emerging trend that the next generation is not as concerned about owning vehicles or cycles. Rather, car and bike sharing are becoming more popular, indicating that people that people are starting to become more concerned about access to services than individual ownership.

3. Safety and environmental concerns

A key theme and discussion point centred on the connected vehicle (both vehicle-to-vehicle and vehicle-to-infrastructure) and autonomous vehicles. The main motivations for these initiatives are:

- (i) Safety: the latest technology and communications allows vehicles to be warned of potential collisions, vehicles deviating from lanes and vehicles braking ahead.
- (ii) Real-time information on available parking, traffic conditions etc allows drivers to optimise their routes and hence reduce emissions.

A key point of discussion at the Congress was how to introduce these vehicles into an existing transport system where there is a wide diversity of vehicles and a wide diversity in the connectedness of infrastructure. For example, it could be potentially dangerous for a driver to experience a high degree of autonomy and connectedness on a freeway, and then have hardly any of the technology functioning on a local road network.

8. As a result of this event, what is the ONE CHANGE that you may consider making backing back at work, if any? What follow ups are envisaged?

- (i) The ETA is establishing a consolidated data bank where geo-referenced data from many different Units can be used for research and making management / maintenance more effective and efficient. As mentioned previously, this was a main theme at the ITS World Congress.
- (ii) The ETA in conjunction with ITS SA is trying to get ITS standards adopted by the large Metropolitan Municipalities and parastatals to ensure interoperability of devices and data.

9. Please indicate details of useful CONTACTS AND NETWORKS that were established during the event?

One of the big benefits of the ITS World Congress was the large number of exhibitions and contacts. Contacts and information helpful for the current ETA projects included:

- Public transport ITS - ticketing and information systems. This information is currently relevant for the tender the ETA is putting out for the GO! Durban bus system.
- Movable barriers – these movable barriers are triggered by a transponder in an emergency vehicle. This is a possible option for allowing emergency service access to the dedicated bus lane without allowing access to the bus lane by general traffic.
- Probe data using cellular phones as opposed to vehicle navigation (GPS) systems. Through the use of profiling signal strengths from cell phones towers, cellular companies are now able to offer precise tracking from cellular phones in their networks that are comparable to GPS tracking capabilities.
- A number of vehicle simulators were on display, which is of particular relevance for the GO! Durban bus driver education workstream.

10. One of the key functions of our MILE website is to serve as a repository of LEARNING DOCUMENTATION, VIDEOS, PHOTOGRAPHS AND OTHER RESOURCE MATERIAL. Please can send such material to mile@durban.gov.za so that it can be uploaded onto our website.

THANK YOU FOR HELPING TO BUILD A LEARNING ORGANISATION