

ANNEX C – EXAMPLES OF GEOSPATIAL BUSINESS APPLICATION

1. The following illustrates examples of geospatial business applications for vertical sectors.
2. Participants are strongly encouraged to propose other geospatial business applications outside the given examples below.

EXAMPLES OF COMMON ENABLING GEOSPATIAL BUSINESS APPLICATION

3. Common Enabling geospatial business application
 - 3.1 This geospatial business application allows costs of sales and general administrative costs to be properly tracked and managed. An example of the function available in this business application is for transport claims, and the scenario is as follows:
 - a. When companies' employees drive to places for official reasons, they can use this geospatial business application to track and consolidate the mileage travelled and ERP charges. This application may be installed on their smart mobile devices or personal navigation devices ("PND").
 - b. The distance travelled by the employees may be logged by the geospatial business application and then sent to the levels of approvals, before the employees may be reimbursed.

- c. The incurred ERP charges may be calculated based on the time and date that the vehicle crossed the gantries.

EXAMPLES OF VERTICAL SECTOR GEOSPATIAL BUSINESS APPLICATIONS

4. Logistics sector

4.1 The Logistics sector geospatial business application usage scenario is as follows:

- a. A courier company sends express delivery packages and uses the geospatial business application to track-and-trace the vehicles and the status of the deliveries through the drivers' mobile devices.
- b. The manager sees the locations of vehicles and the delivery statuses of the packages in real time and analyse travel times based on available traffic information.
- c. The manager can inform customers where the packages are at any point in time and its estimated arrival time. He can also trace the last known locations and the statuses of the delivery.

5. Wholesale & Retail / Food & Beverage sector

5.1 The geospatial business application usage scenario may apply to the Wholesale & Retail or Food & Beverage as follows:

- a. The supplier receives either individual or aggregated orders from the customers through an online procurement portal. The customers' information captured includes the name, address, orders, time of order, etc.
- b. When the product is ready for delivery, the geospatial business application generates resource optimised delivery plans to the supplier for consideration.
- c. The supplier assigns the plans to his delivery drivers through their mobile devices and he can also have a timely situation update of the vehicles' location through the geospatial business application.
- d. The supplier uses the information collected over a period of time to analyse the demand for the type of products based on geography, demographics, etc.
- e. He does a spatial analysis of his customers and the frequencies of order and decides on the distribution model (i.e. centralised or decentralised distribution). He can also determine what he needs to do to deliver his products to his customers within a fixed time from the moment the customers' order is received, using the least amount of vehicles and least amount of fuel.