

## INTEGRATED GIS MAPPING

*A smart integration of data and documents provides easy to make and maintain inventories of objects on the public domain, integrating GIS and Mobile Mapping content.*



## RICH INFORMATION WITHIN REACH

*Many Public Domain objects need to be inventorized, inventories as well as the objects need to be maintained. Some maintenance programs are steered by law, others remain at the initiative of the local authority.*

*With the inventory, a series of documents, photographs and other elements are relevant to execute the task of maintenance of the public domain.*

*The Orbit Asset Inventory Management solution combines a series of modules and techniques that are perfectly integrated to generate an easy to use solution for a wide variety of inventories, combining position, photography, status, documentation and more. Direct integration with Mobile Mapping content empowers each user to access rich information at a click.*

## VALUE ADDED INTEGRATION

The Orbit Asset Inventory Management solution combines a series of tools to an integrated suite of functions. The combination of Orbit Mobile Mapping tools, Orbit GPS Photography, the Orbit Asset Inventory tools and the standard Orbit GIS editing tools, brings each of them to the next level. With the free definition of your database, you can effectively create and manage any kind of inventory.

### Some Inventory Examples

Define any number of inventories, and define the contents of each individual inventory. Here are some examples, each with a different set of attributes : **damages to the public domain, litter, busstops, glasscontainers, signposts, traffic lights, street lights, trees**, etc.

### Extended Documentation for each Object

For each object, regardless to which inventory it belongs, the Asset Inventory integrates registration of pictures, geo-located pictures and Mobile Mapping snapshots to be registered as image data. Word, PDF, or other types of files are listed under 'Documents'. You may also link other geographic files, such as a local measurement to an object. Finally, all objects can be individually annotated with the standard redlining tool.

### GIS integrated Mobile Mapping

This Asset Management solution is an extension to Orbit GIS, thus automatically embedding Mobile Mapping content in your corporate GIS environment.

## MOBILE MAPPING, PANORAMIC IMAGERY, POINT CLOUDS

Mobile Mapping data capturing can provide 360° panoramic images taken at regular distance from the road, e.g. each 5 meters. The registration technique adds position and orientation to each image. This precise information enables the superimposition of your spatial data on the image, allows measurements within the image, and features augmented reality.

### Integrate, Measure, Register.

Use your Aerial and Mobile Mapping imagery to browse through the roadside. Detect and measure the position of any object for your inventory and link a snapshot of the images as documentation, all in one go. If you have a Point Cloud available, you can measure in a single image.



## GPS PHOTOGRAPHY

You can use any GPS-enabled camera to take a picture on site. Our special ruggedized camera will include the orientation of the photographer. The pictures will be automatically mapped. The direction in which the picture has been taken is clearly indicated.



This camera can include a basic classification for each picture, enabling your surveyor to automatically redirect the picture to the proper inventory.

## INVENTORY ON THE MAP

Preferrably, you want to use a high quality and resolution aerial photo, optionally enhanced by Microdrone flights or other highly detailed data. This allows you to add more spatial data and more precise location of the objects.

Again, this information can be added to your inventory.

## ATTRIBUTE, ANNOTATE, DOCUMENTATE

Of course each inventory requires specific attribution. The system provides free definition of your spatial layer, thus a free definition of your attributes. You prepare each inventory as you please, including drop-down value lists or other rules to be implemented for each attribute independently.

You can register e.g. the width or height of an object as attribute taken from the same Mobile Mapping content or Point Cloud as used for the measurement of the position of the object.

### Annotate

When inspecting an object, the object attributes are shown as well as the position and orientation related to the associated pictures. This is very handy : you know exactly for each picture from which angle and position it was taken. These features are automatically available for each inventory.

### Documents

All kinds of documents can be associated with each individual object : Word or Excel files, PDF's, or any other document.

You can also link spatial data as a specific type of document. Some spatial data or map data represents e.g. a local measurement by a surveyor, or an as-built plan for infrastructure renovation works.

Spatial data that is properly georeferenced can be superimposed on the map as an extra layer. Non-georeferenced map data appears in a separate viewer window. GeoSpatial format support can be extended using FME (option).



zoek \ detail \ foto's \ documenten \

Documentenlijst van het object : Bloembakken 1

| documentid | status               | omschrijving       |
|------------|----------------------|--------------------|
| 1          | aangeplant           | snoeivoorschriften |
| 2          | aanplanting heesters | snoeivoorschriften |

Take a look at our demos on our Vimeo channel : [www.vimeo.com/channels/orbitmobilemapping](http://www.vimeo.com/channels/orbitmobilemapping)