< aixm : name > PETRONA TOWER </aixm: name >
< aixm: type > TOWER </aixm : type >
< aixm : lighted > YES </aixm: lighted >
< aixm : VerticalStructure Part gml : id ="C1F1ED07-0448-46B9-A2A0-D66F49F24D77" >
    < aixm : Vertical Extent uom= "FT" > 1.483 < /aixm: Vertical Extent uom= "FT" >
        < aixm : designator> 20834728 </aixm: designator>
        < aixm : horizontal Projection_location >
            < aixm : Elevated Point gml : id ="C1F1ED07-0448-46B9-A2A0-D66F49F24D77"
srsName="urn : ogc : def" >
                < gml : pos > 3.158139 101.712417</gml : pos >
                < aixm : elevation uom= "FT">1.483 < /aixm : elevation >
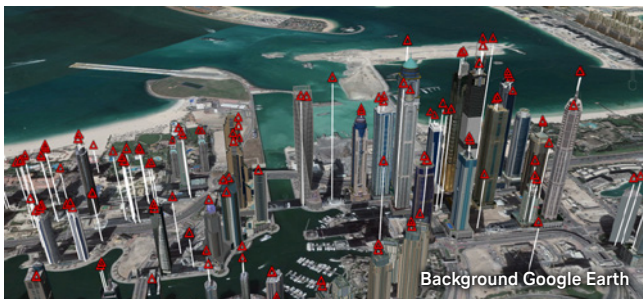   < aixm : verticalDatum> EGM2008 < /aixm : verticalDatum>

            < aixm : Elevated Point >
        < aixm : horizontal Projection_location >

< aixm : part >

Standardized database containing over 3.5 million obstacles worldwide

Lido Surface Data Obstacles

Increase the safety of your operations with our certified data. Our obstacle database includes **over 3.5 million obstacles** globally and is continuously growing. Each obstacle is described with more than 60 attributes allowing for an accurate analysis.

Lido Surface Data Obstacles include **enroute and aerodrome obstacles,** such as towers, high antennas, cranes, as well as natural features.

Background Google Earth

Obstacles over Dubai

Key benefits & features

Worldwide coverage
Standardized database containing more than 3.5 million obstacles around the globe

Detailed information
Extensive metadata characterizing every obstacle in detail with more than 60 attributes

EASA certified
Fulfills all relevant industry standards and is certified according to EASA Service Provider Certificate Type 1

Various export formats
Database allows for obstacle exports in various formats: CSV, ESRI Shapefile and AIXM 5.1

Up-to-date
Database updated every AIRAC cycle

Reliable sourcing
Collection of obstacles published by authoritative sources

Points, lines & polygons
Obstacles can be exported in their true geometrical representation, ensuring that no information is lost

Worldwide Coverage

Visualization of Lido Surface Data Obstacles where brighter areas indicate a higher density of obstacles

Basemap: Esri World Imagery Firefly

Reliable sourcing and coding

Obstacles in our database are **extracted from authoritative (official state) sources**, such as Aeronautical Information Publications (AIPs), electronic Terrain and Obstacle data (eTOD), and NOTAMs. To import and store all provided information in a generic data format, standardized coding rules are applied. These also include the georeferencing of published charts to extract the depicted obstacles on them. **Quality checks performed throughout the coding process ensure the quality and correctness of the database.**

Lido Surface Data Obstacles is not only available as a point database, but also as **true line and polygon features**. Especially for low altitude flight operations, having access to the **actual geometry** representation of flight safety critical obstacles, such as transmission lines or cable cars, improves flight safety significantly.

Various use cases

The generic data base design, flexible filtering possibilities and various export formats ensure that the data can be used for a variety of systems and applications, including:

- terrain awareness and enhanced ground proximity warning systems (TAWS, EGPWS),
- synthetic / enhanced vision systems (SVS, EVS),
- aeronautical charting,
- performance calculations,
- flight planning,
- drone operations and drone planning,
- procedure design,
- and many more.

→ **For more information please contact** marketing@LHsystems.com

Lido Surface Data Obstacles as true line & polygon features