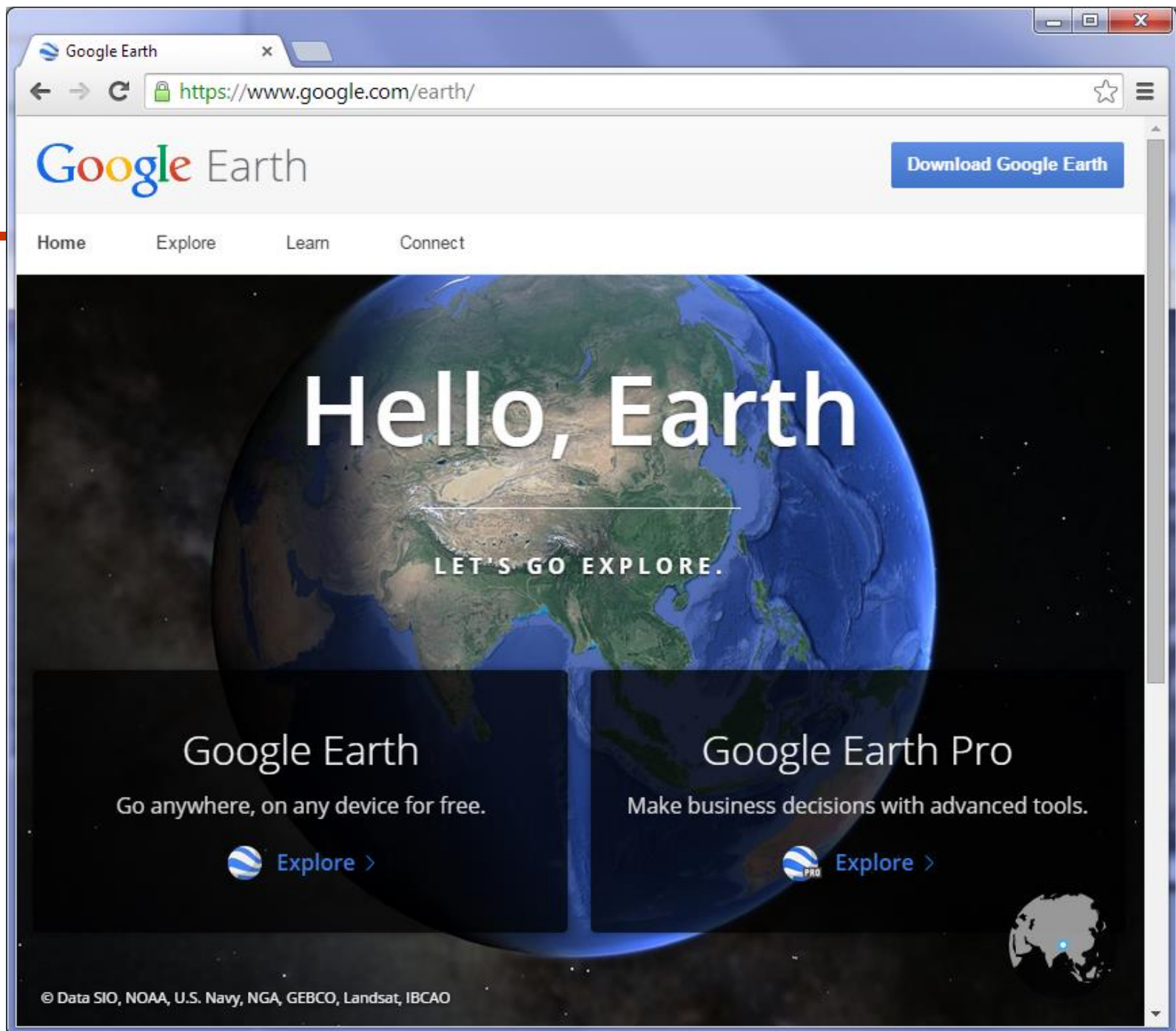


Introduction to KML

Emmanuel Stefanakis

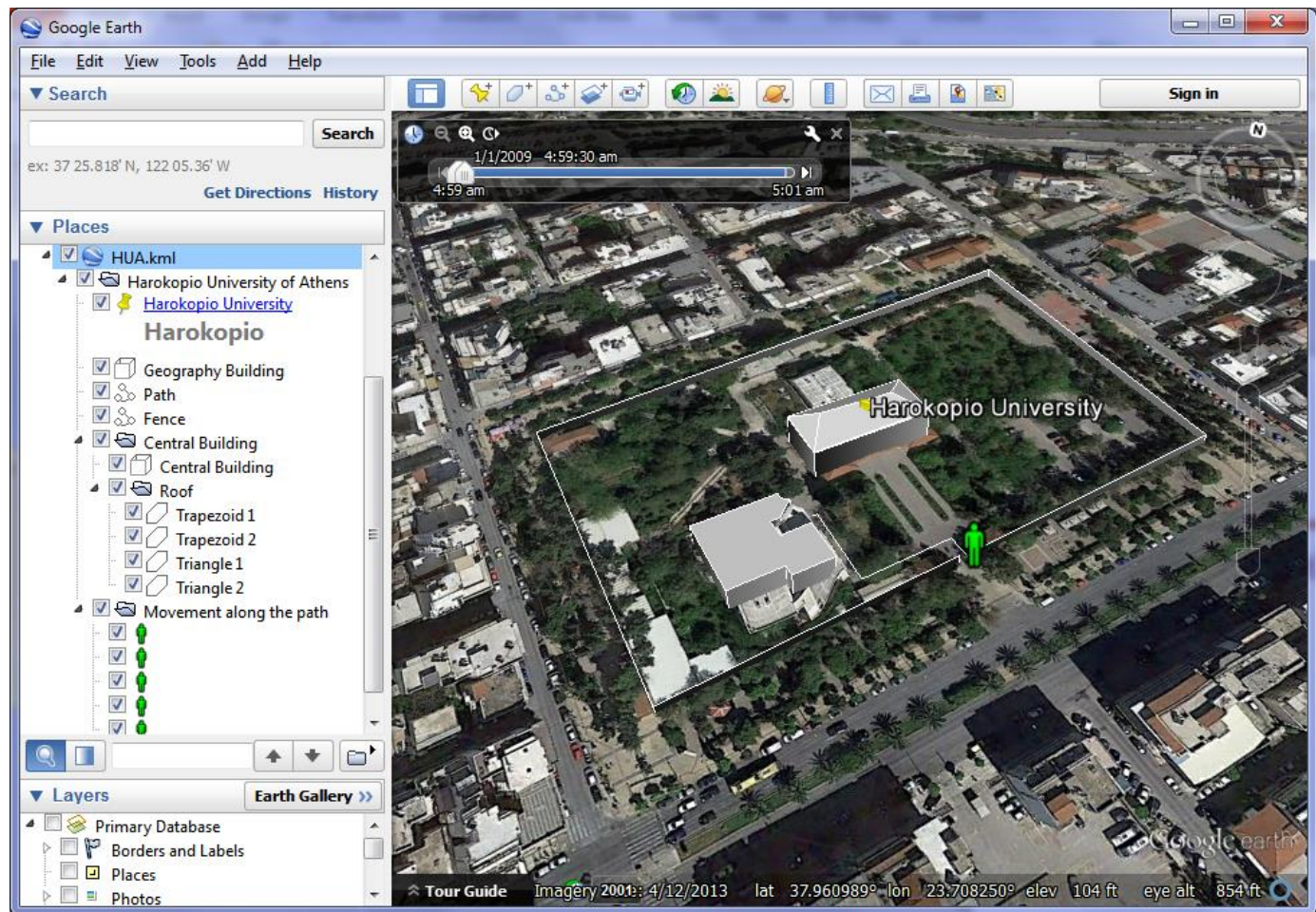
estef@unb.ca

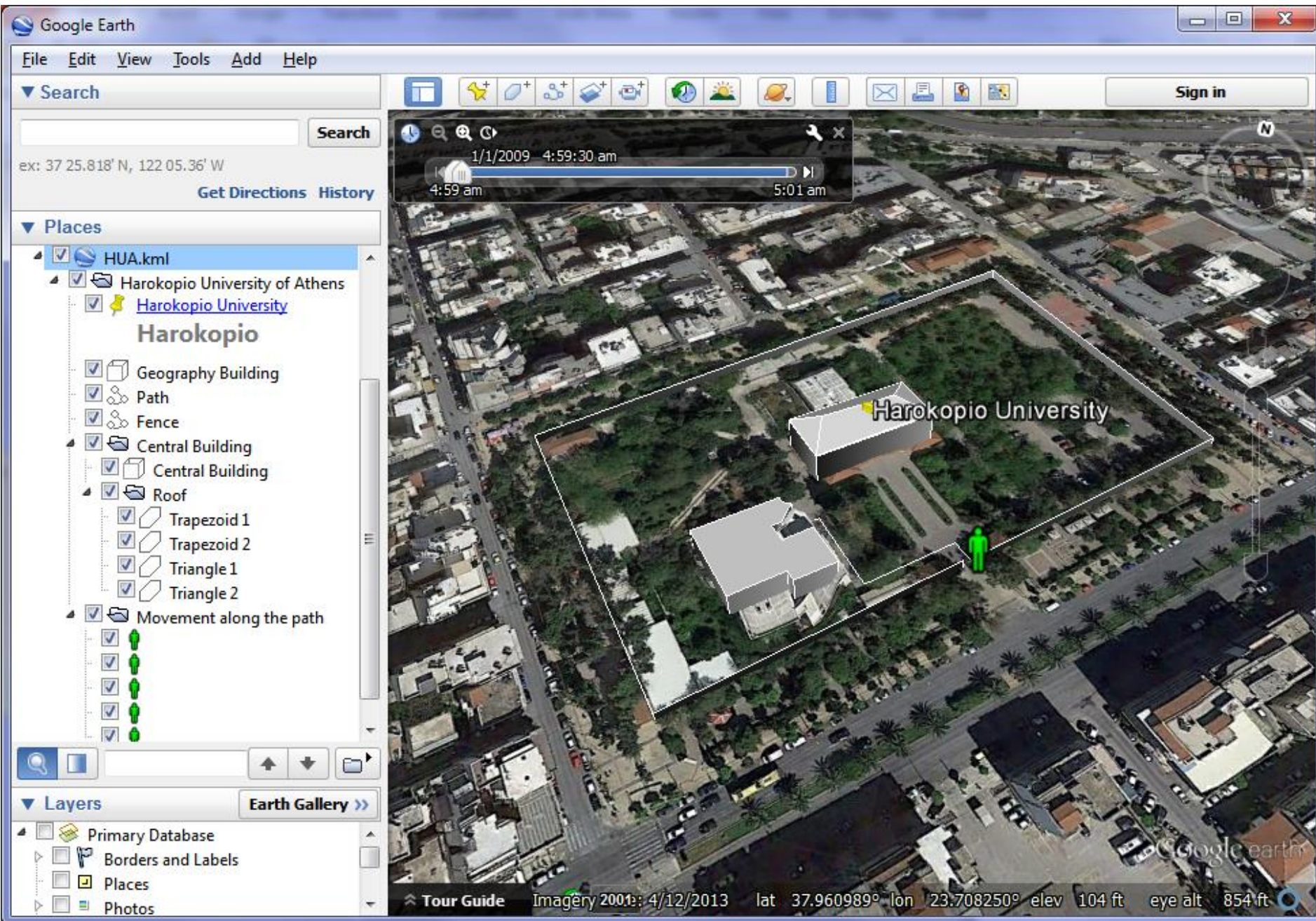


Example

http://gaia.gge.unb.ca:8080/gge5403/labs/2/KML/kml_example.kml

A VPN
connection to
UNB is required.





```
C:\Users\estef\Documents\GGE_ONLINE\Week 2\SVG_KML\KML\KML\kml_example.kml - Notepad++ [Administrator]
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
svg_example_in_html.htm x kml_example.kml x
1  <?xml version="1.0" encoding="UTF-8"?>
2  <kml xmlns="http://earth.google.com/kml/2.2">
3  <Document>
4      <name>HUA.kml</name>
5      <open>1</open>
6      <Folder>
7          <name>Harokopio University of Athens</name>
8          <open>1</open>
9          <LookAt>
10             <longitude>23.70824758819832</longitude>
11             <latitude>37.96096628151464</latitude>
12             <altitude>0</altitude>
13             <range>192.2089882256726</range>
14             <tilt>47.6770540588911</tilt>
15             <heading>-11.65093403216848</heading>
16             <altitudeMode>relativeToGround</altitudeMode>
17             </LookAt>
```


<Placemark>

<name>**Fence**</name>

<LineString>

<extrude>1</extrude>

<altitudeMode>relativeToGround</altitudeMode>

<coordinates>

23.708623,37.960863,3 23.707885,37.960356,3

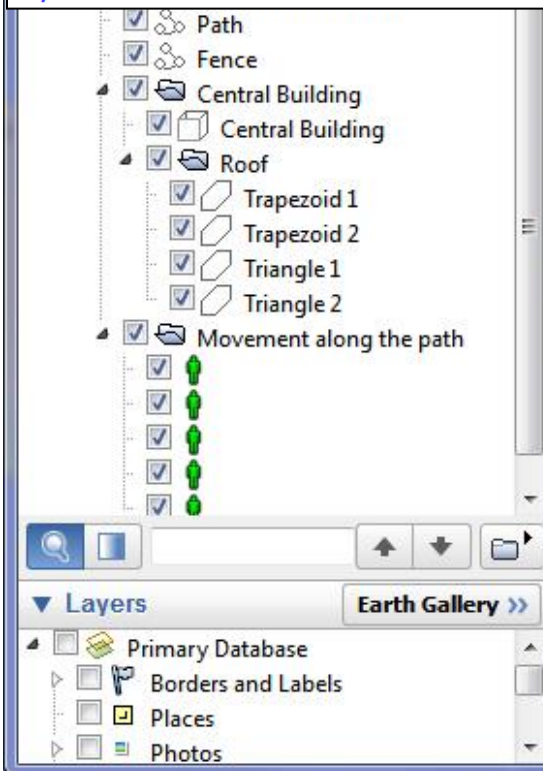
23.707063,37.961114,3 23.708572,37.96215,3

23.709384,37.961379,3 23.708681,37.960895,3

</coordinates>

</LineString>

</Placemark>




```
<Placemark>
```

```
<name>Path</name>
```

```
<LineString>
```

```
<extrude>1</extrude>
```

```
<altitudeMode>relativeToGround</altitudeMode>
```

```
<coordinates>
```

```
23.708039,37.96087,0 23.708154,37.96095,0
```

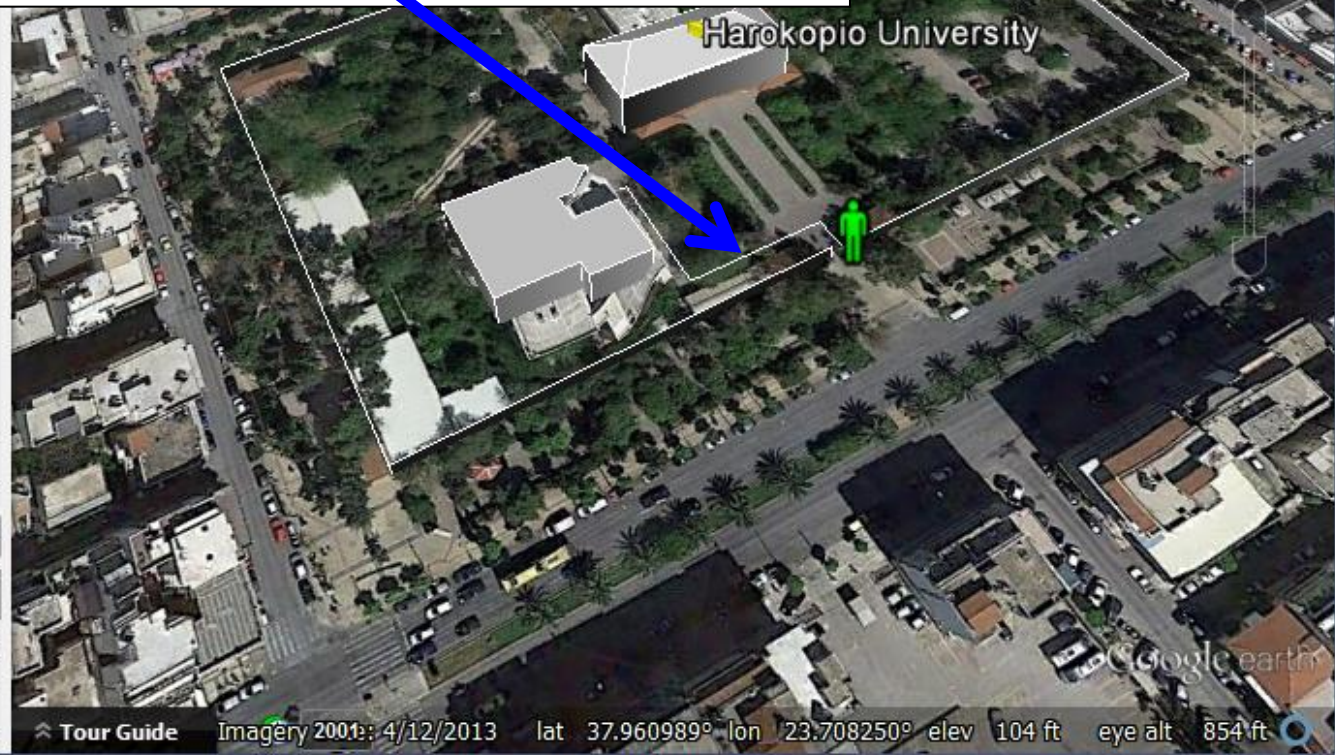
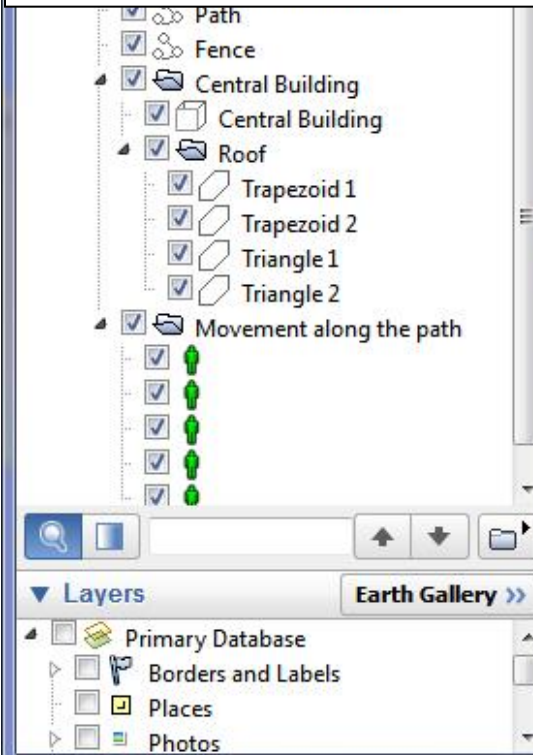
```
23.708345,37.960773,0 23.708589,37.960938,0
```

```
23.708665,37.960871,0
```

```
</coordinates>
```

```
</LineString>
```

```
</Placemark>
```




```
<Placemark>
```

```
<name>Harokopio University</name>
```

```
<description><![CDATA[<h2>Harokopio University of Athens</h2>  
  <br>  
  <a href="http://www.hua.gr">http://www.hua.gr</a>]]>  
</description>
```

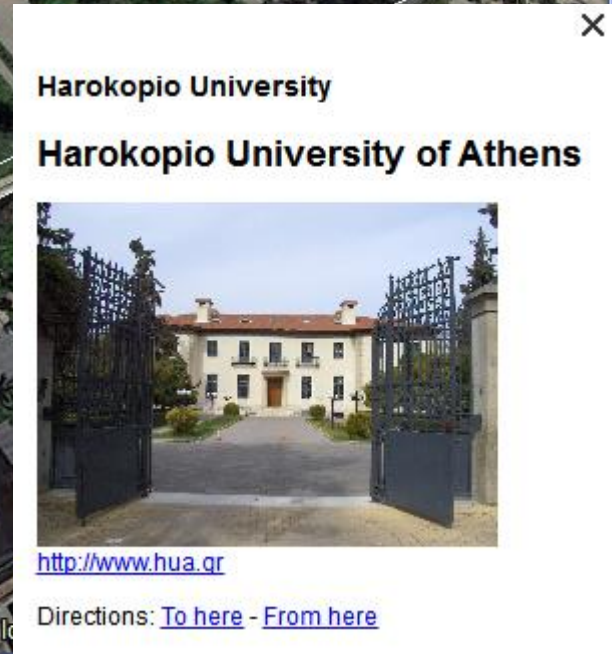
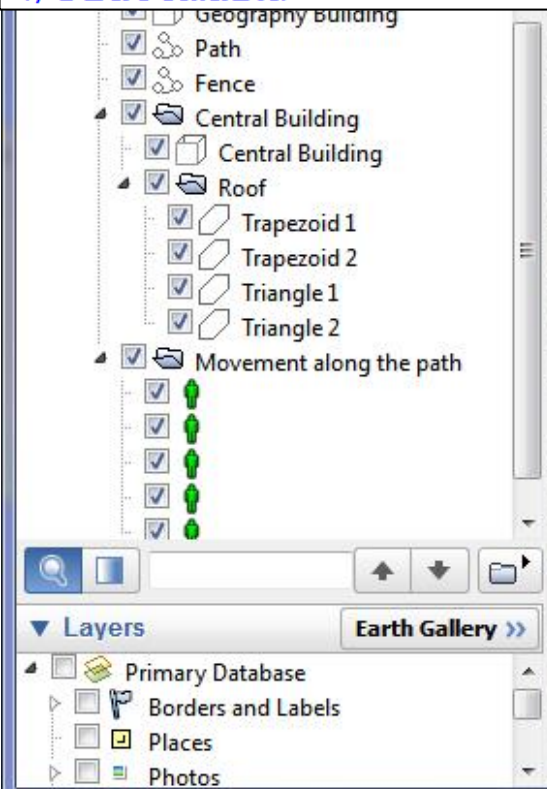
```
<Point>
```

```
<extrude>1</extrude>
```

```
<coordinates>23.7082,37.961285,15</coordinates>
```

```
</Point>
```

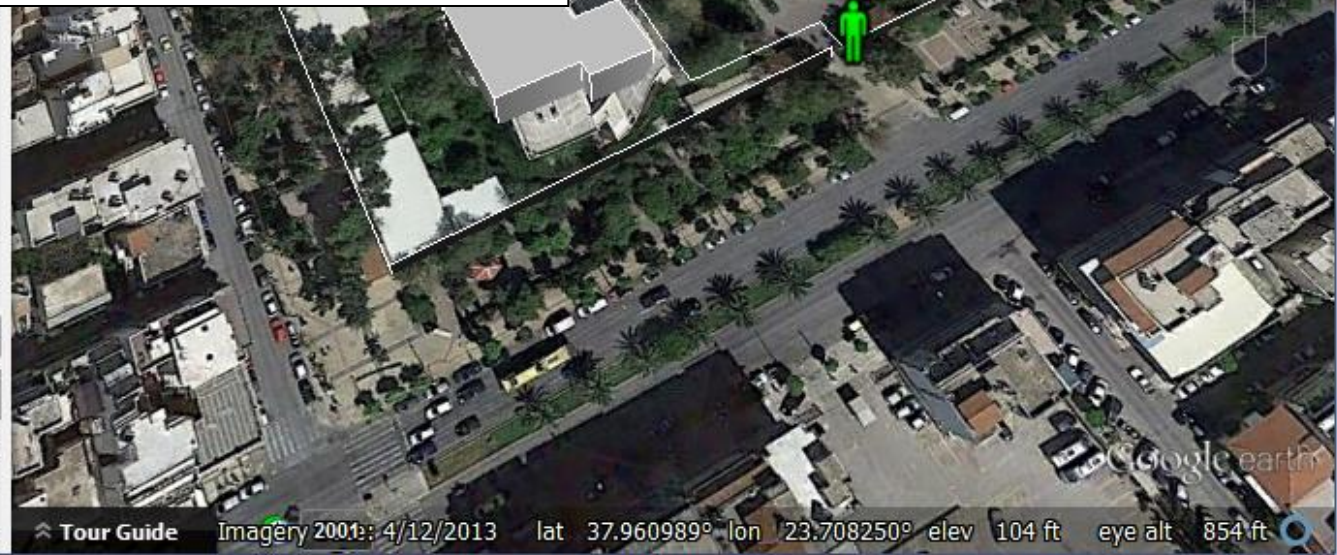
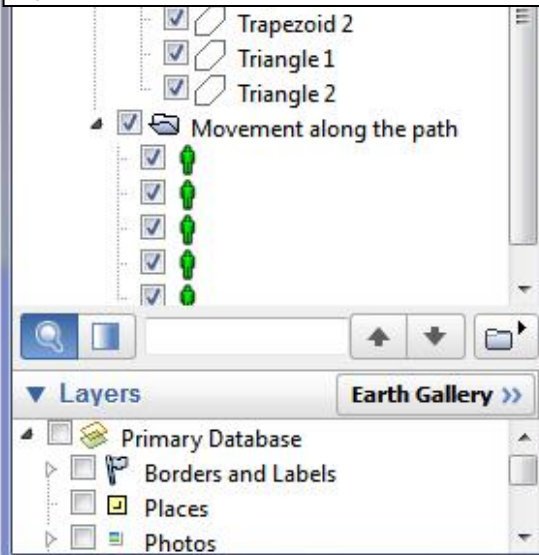
```
</Placemark>
```




```

<name>Central Building</name>
<open>1</open>
<Placemark>
  <name>Central Building</name>
  <Polygon id="khPolygon784">
    <extrude>1</extrude>
    <altitudeMode>relativeToGround</altitudeMode>
    <outerBoundaryIs>
      <LinearRing id="khLinearRing775">
        <coordinates>
          23.708108,37.961083,10
          23.708449,37.961307,10
          23.708318,37.961429,10
          23.707978,37.961203,10
          23.708108,37.961083,10
        </coordinates>
      </LinearRing>
    </outerBoundaryIs>
  </Polygon>
</Placemark>

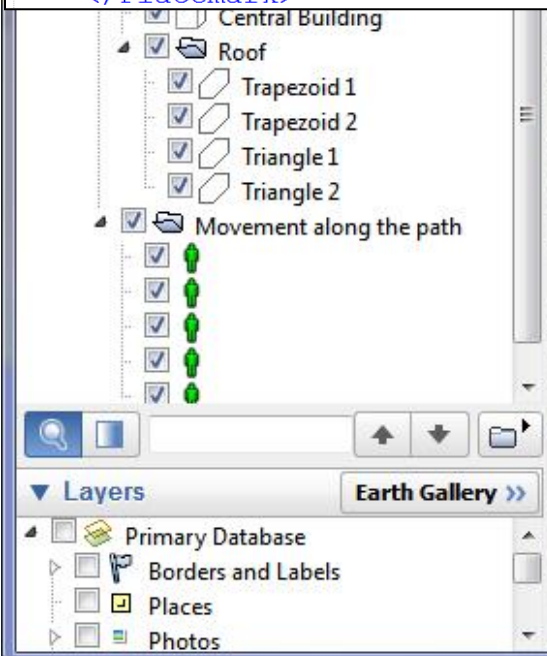
```




```

<Folder>
  <name>Roof</name>
  <open>1</open>
  <Placemark>
    <name>Trapezoid 1</name>
    <Polygon id="khPolygon784">
      <altitudeMode>relativeToGround</altitudeMode>
      <outerBoundaryIs>
        <LinearRing id="khLinearRing785">
          <coordinates>
            23.708318,37.961429,10
            23.708307,37.961338,14
            23.708095,37.961195,14
            23.707978,37.961203,10
            23.708318,37.961429,10
          </coordinates>
        </LinearRing>
      </outerBoundaryIs>
    </Polygon>
  </Placemark>

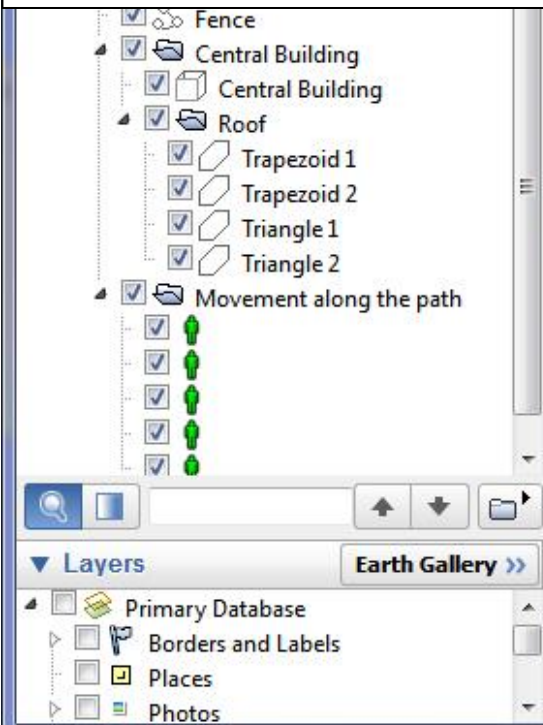
```




```

<Placemark>
  <name>Triangle 1</name>
  <Polygon id="khPolygon784">
    <altitudeMode>relativeToGround</altitudeMode>
    <outerBoundaryIs>
      <LinearRing id="khLinearRing785">
        <coordinates>
          23.708108,37.961083,10
          23.707978,37.961203,10
          23.708095,37.961195,14
          23.708108,37.961083,10
        </coordinates>
      </LinearRing>
    </outerBoundaryIs>
  </Polygon>
</Placemark>

```



<Folder>

<name>Movement along the path</name>

<open>1</open>

<Style id="man_img">

<IconStyle>

<color>ff00ff00</color>

<scale>1.2</scale>

<Icon>

<href>

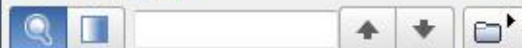
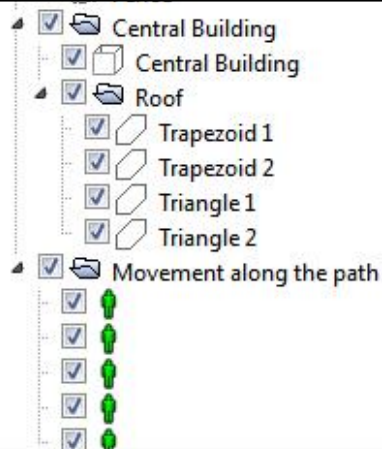
<http://maps.google.com/mapfiles/kml/shapes/man.png>

</href>

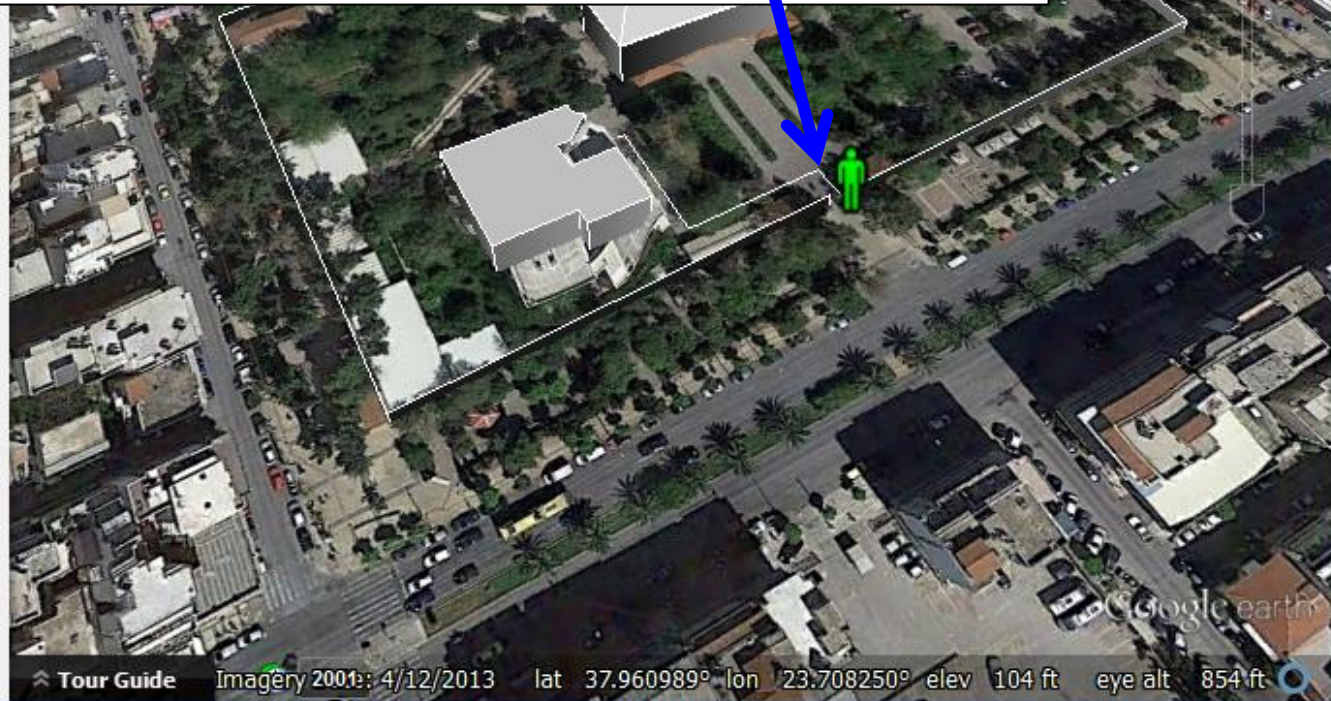
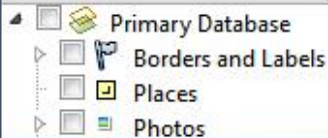
</Icon>

</IconStyle>

</Style>



Layers Earth Gallery >>



<Folder>

<name>Movement along the path</name>

<open>1</open>

<Style id="man_img">

<IconStyle>

<color>ff00ff00</color>

<scale>1.2</scale>

<Icon>

<href>

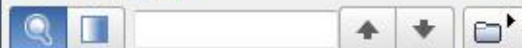
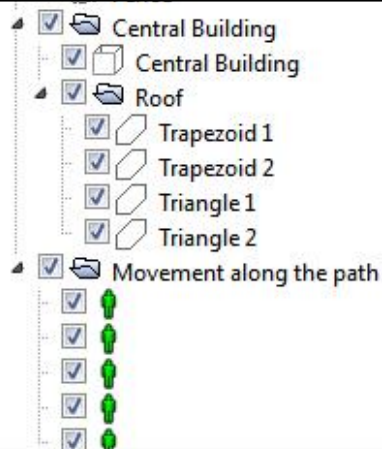
<http://maps.google.com/mapfiles/kml/shapes/man.png>

</href>

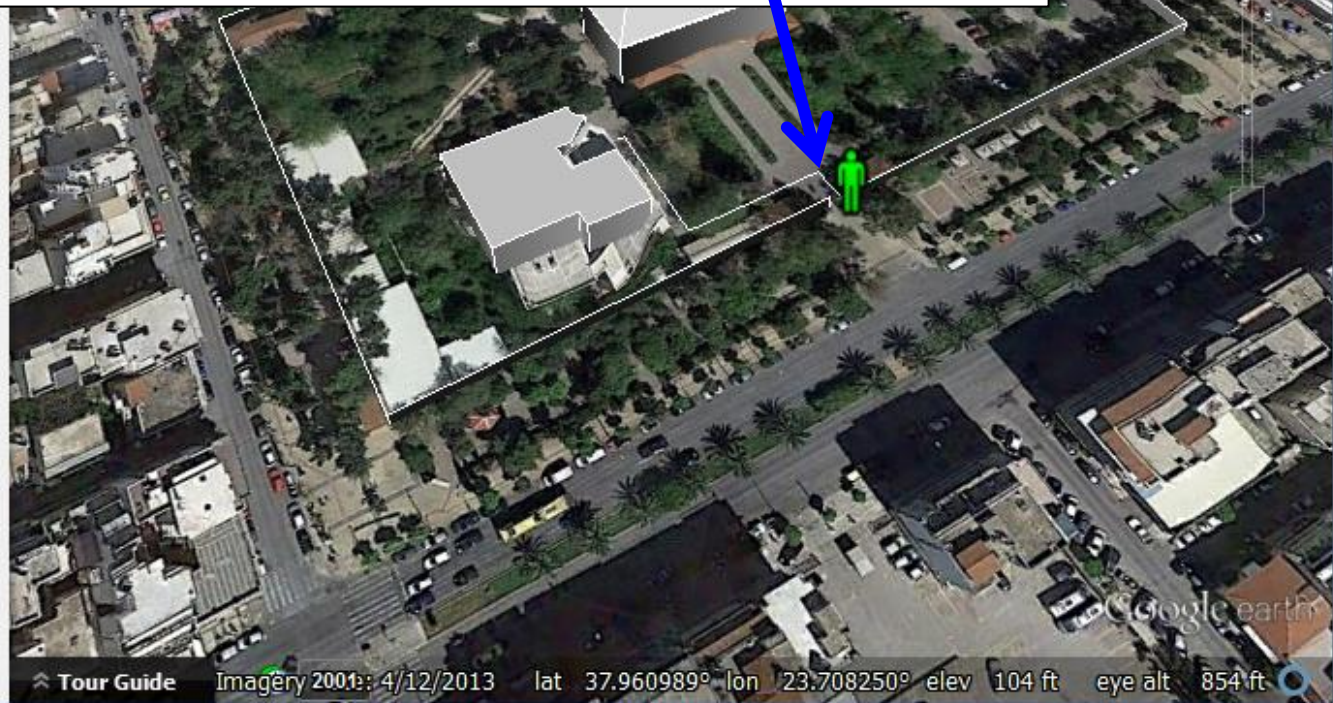
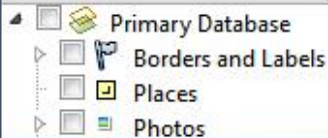
</Icon>

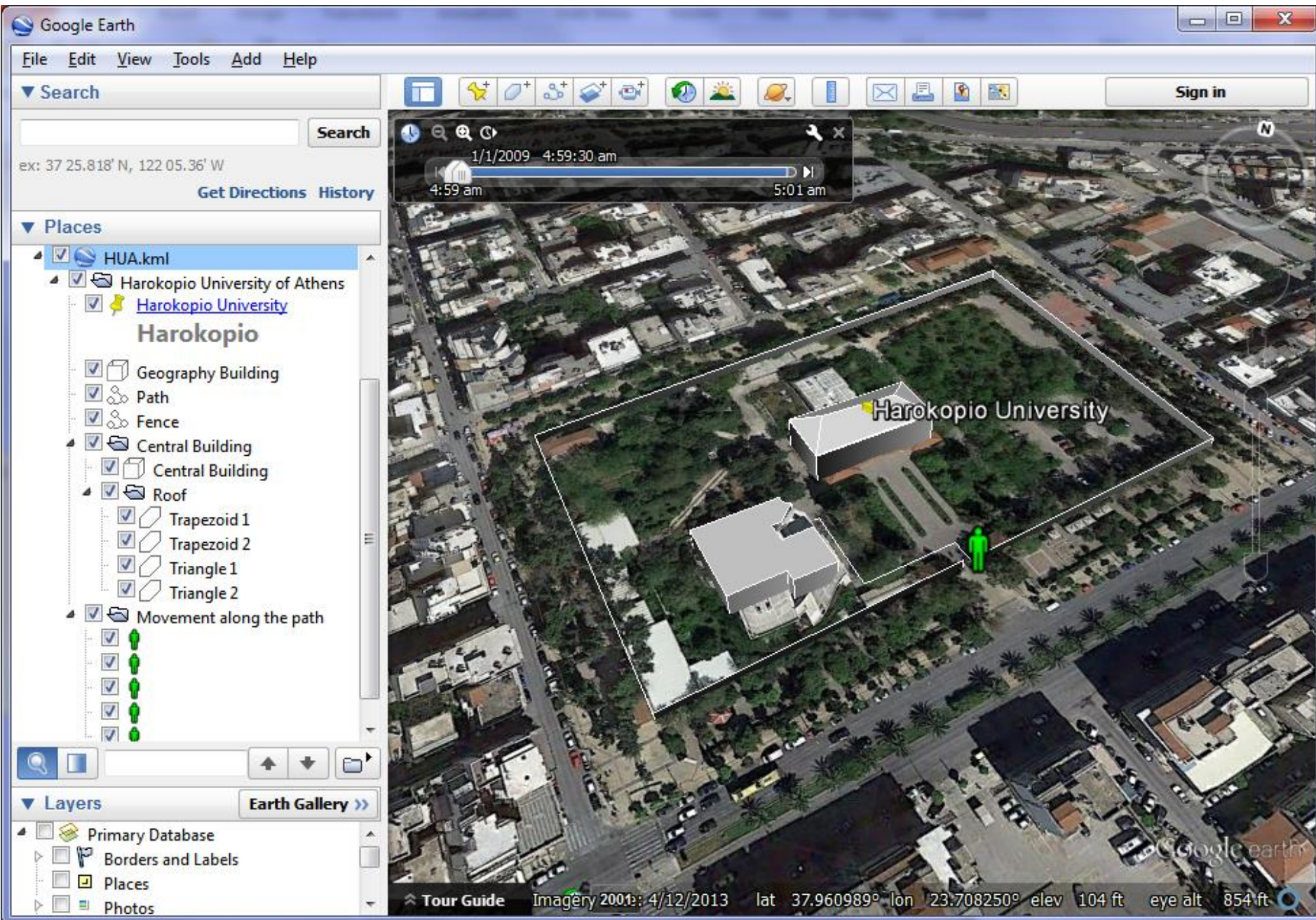
</IconStyle>

</Style>



Layers Earth Gallery >>





Example (moving figure)

```
<Placemark>
  <TimeSpan>
    <begin>2009-01-01T07:59:30Z</begin>
    <end>2009-01-01T08:00:00Z</end>
  </TimeSpan>
  <styleUrl>#man_img</styleUrl>
  <Point><coordinates>23.708665,37.960871,0
  </coordinates></Point>
</Placemark>
<Placemark>
  <TimeStamp>
    <when>2009-01-01T08:00:10Z</when>
  </TimeStamp>
  <styleUrl>#man_img</styleUrl>
  <Point><coordinates>23.708589,37.960938,0
  </coordinates></Point>
</Placemark>
```

Example (moving figure)

```
<Placemark>
  <TimeStamp>
    <when>2009-01-01T08:00:30Z</when>
  </TimeStamp>
  <styleUrl>#man_img</styleUrl>
  <Point><coordinates>23.708154,37.96095,0
</coordinates></Point>
</Placemark>
<Placemark>
  <TimeSpan>
    <begin>2009-01-01T08:00:40Z</begin>
    <end>2009-01-01T08:01:10Z</end>
  </TimeSpan>
  <styleUrl>#man_img</styleUrl>
  <Point><coordinates>23.708039,37.96087,0
</coordinates></Point>
</Placemark>
</Folder>
```