



**Session:**

# Verification, entering names into a GIS and Google Earth

V1

**Pier-Giorgio Zaccheddu**

Federal Agency for Cartography and  
Geodesy (BKG)

Richard-Strauss-Allee 11

60598 Frankfurt am Main

Tel.: +49 69 6333 305

Fax: +49 69 6333 441

Email: [pier.zaccheddu@bkg.bund.de](mailto:pier.zaccheddu@bkg.bund.de)

## Content

### Import and display of a database in a GIS

- Import and display with ESRI ArcGIS and QuantumGIS
- Creation of a map using with ESRI ArcGIS

### Verification, entering names in Google Earth

- Export of a kml-file directly from ESRI ArcGIS
- Export a shapefile from the GIS and convert with open source tools
- Publish data in Google Earth through \*.kml/kmz-format



# Display names from the database into a GIS: ESRI Arc GIS



Algeria.mxd - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:11.877.985

Table Of Contents

Layers

- D:\United Nations\Daten...
- demo3 Events
  - demo3
- D:\United Nations\Daten...
- DZA\_roads
- D:\United Nations\Daten...
- DZA\_adm2
- DZA\_adm1
- DZA\_adm0
- D:\United Nations\Daten...
- schummerung.tif - Ba...
  - Value
  - High : 255
  - Low : 100
- D:\United Nations\Daten...
- DZA

Table

Name	Latitude	Longitude	Feature Designation Nam
Oued el Oua'am	34,78	-1,63	Stream
Oran	35,66	-0,5	Administrative Unit
Djebel el Ouachba	34,69	2,9	Mountain
Ouachouache	35,79	7,71	Populated Place

demo3

(0 out of 4 Selected)

demo3



# Display names from the database into a GIS: Quantum GIS



Quantum GIS 1.8.0-Lisboa - Algeria\_QGIS

Layer

- demo
- DZA\_roads
- DZA\_adm2
- DZA\_adm1
- DZA\_adm0

Attributtabelle - demo :: 0 / 4 Objekte gewählt

	Name	Feature_De	Latitude	Longitude
0	Oued el Oua'am	Stream	34.78	-1.63
1	Oran	Administrative ...	35.66	-0.5
2	Djebel el Ouach...	Mountain	34.69	2.9
3	Ouachouache	Populated Place	35.79	7.71

Suchen nach  in Name

Nur gewählte zeigen  Nur gewählte durchsuchen  Groß-/Kleinschreibung beachten

QuantumGIS



Vector data: **DIVA-GIS**  
URL: <http://www.diva-gis.org/gData>  
abstract: download free geographic (GIS) data for any country in the world

Vector data: **Natural Earth**  
URL: <http://www.naturalearthdata.com>  
Date: 2012

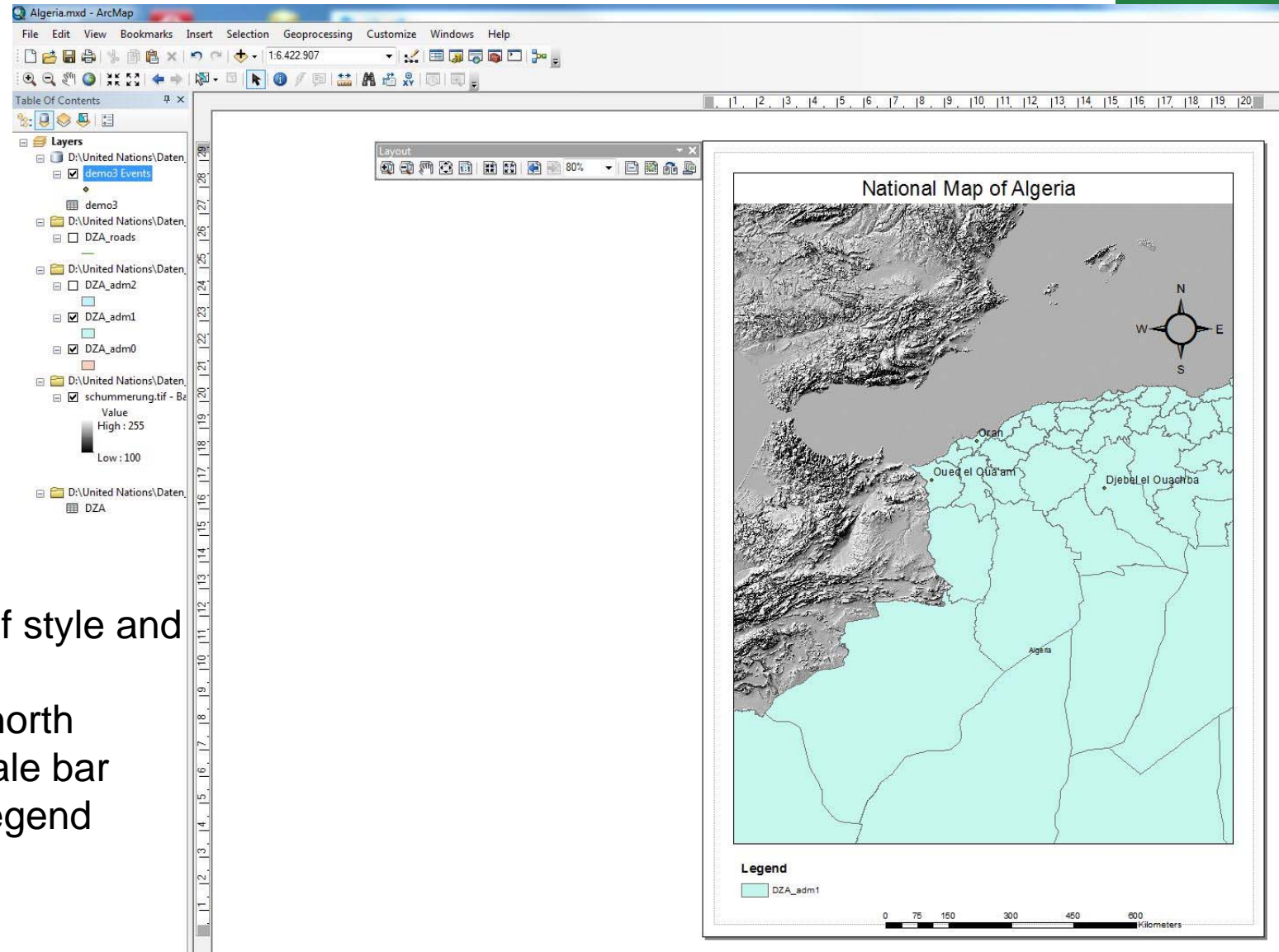
Vector data: **OpenStreetMap (OSM) +++ not downloadable for Algeria +++**  
URL: <http://download.geofabrik.de/africa/>

GN data: **geonames.org**  
URL: <http://www.geonames.org/>  
abstract: download free of charge under a creative commons attribution license



# Create a map with the GIS: ESRI ArcGIS

- Change of style and labels
- Set title, north arrow, scale bar
- Insert a legend



## Content

### Import and display of a database in a GIS

- Import and display with ESRI ArcGIS and QuantumGIS
- Creation of a map using with ESRI ArcGIS

### Verification, entering names in Google Earth

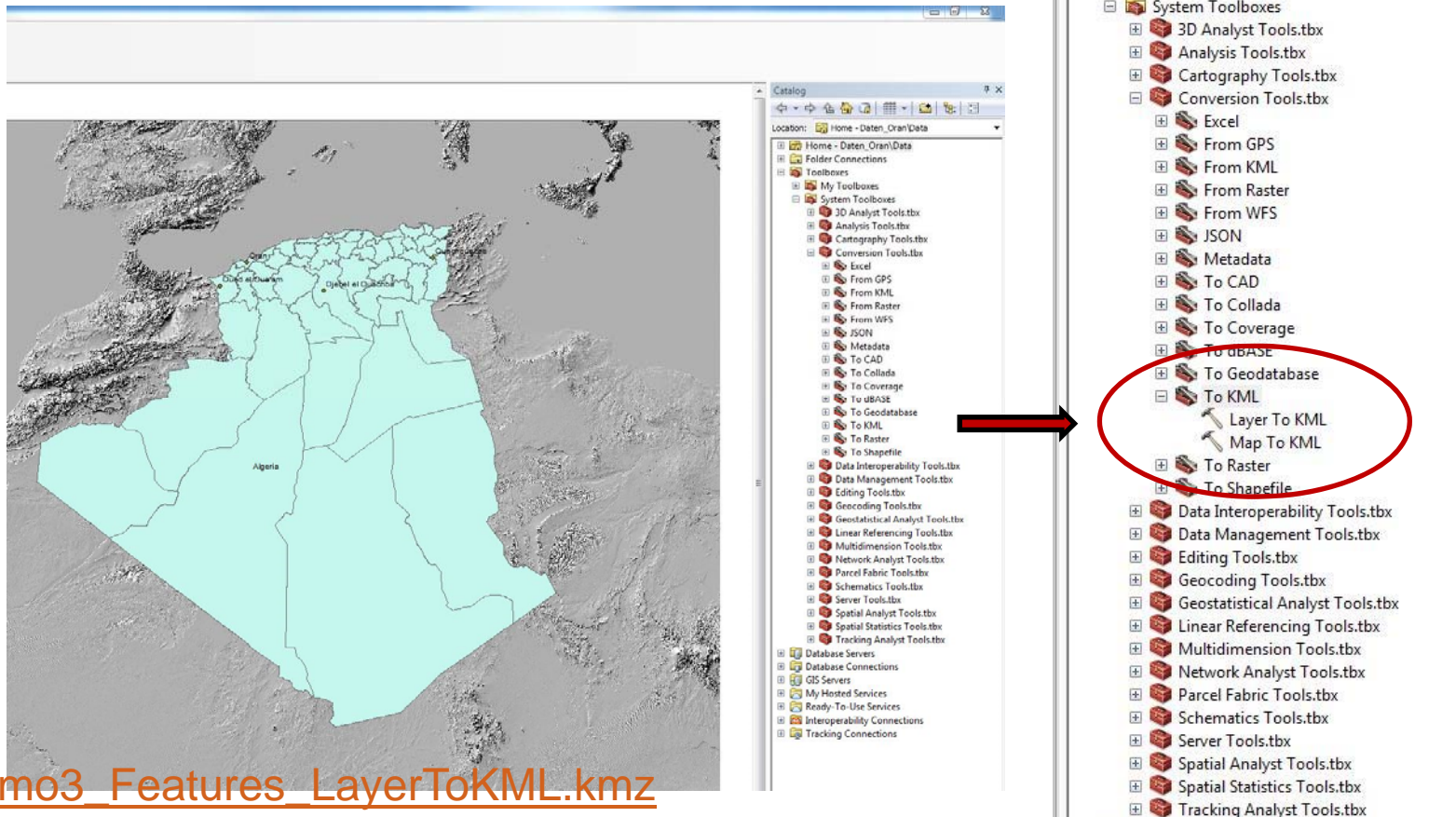
- Export of a kml-file directly from ESRI ArcGIS
- Export a shapefile from the GIS and convert with open source tools
- Publish data in Google Earth through \*.kml/kmz-format



# Export of a kml/kmz-file directly from ESRI ArcGIS



## 1. Possibility





# Export a shapefile from the GIS and convert with open source tools



## 2. Possibility

Several tools are available to convert shape-files into a kml/kmz-format for the GoogleEarth/Maps application:

Software: Shape2Earth4MapWindow-v1.55-setup.exe (open source)

URL: <http://www.ulozto.net/x4B96CX8/shape2earth4mapwindow-v1-55-setup-exe>

Software: Shp2kml.exe (open source)

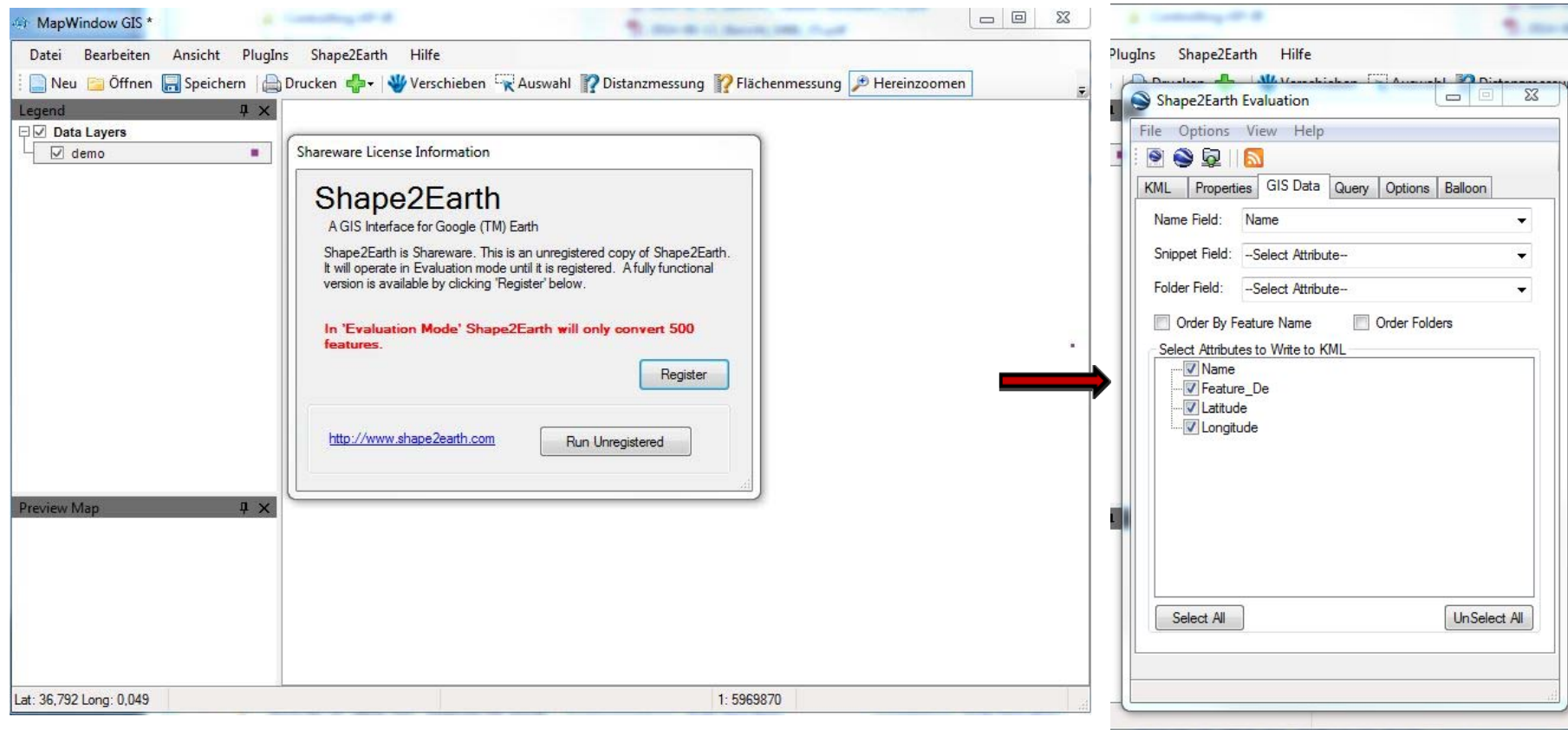
URL: [http://sourceforge.net/project/showfiles.php?group\\_id=146609](http://sourceforge.net/project/showfiles.php?group_id=146609)



# Export a shapefile from the GIS and convert with open source tools



## 2. Possibility - Shape2Earth4MapWindow-v1.55-setup.exe



→ Import \*demo\_shp2kml.kml\* into GoogleEarth



## Verification

1. Possibility: [demo3\\_Features\\_LayerToKML.kmz](#)

2. Possibility:

→ Start GoogleEarth application

→ Import \*demo\_shp2kml.kml\* into GoogleEarth



Thank you for your attention!