# Importing countries and shape files in DHIS2.

This is a brief guide to import the Org unit and the information of shape files (OrgUnit coordinates) into DHIS2. A complete guide about the treatment of coordinated can be found at the dhis2 documentation.

The set of tools can be installed in any LINUX server using:

> sudo apt-get install gdal-bin

### importing coordinates.

The file must be converted into a GML which is the format that DHIS2 can import. To obtain a GML file apply the following steps:

1) [THIS STEP CAN BE SKIPPED] Reduce the size of the shape file. The file provided have too much points. This affects to the performance of some operations in DHIS2. For our needs, the number of points can be reduced without affect the quality of visualisation. The previous link explains the procedure for that using the website http://www.mapshaper.org.

2) Obtain the GML file with the following command

> ogr2ogr -f GML filename.gml filename.shp

3) filename.gml is a XML like file. In order to use the DHIS2 import GML utility, it is necessary to ensure that the identifiers of OrgUnits in the file match some identifiers of the Org Units loaded into the DHIS2 instance.

The identifier that we can use for that is the DHIS2 OU property CODE, which is loaded with the OU external code when importing the Org Units into DHIS2. Then we only need to change the right tag in the GML file:

· For countries:
change the <ogr:CNTRY\_CODE> tag to <ogr:CODE>
change the </ogr:CNTRY\_CODE> tag to </ogr:CODE>

· For 1st ADM level
change the <ogr:ADM1\_CODE> tag to <ogr:CODE>
change the </ogr:ADM1\_CODE> tag to </ogr:CODE>

· For 2nd ADM level
change the <ogr:ADM2\_CODE> tag to <ogr:CODE>
change the </ogr:ADM2\_CODE> tag to </ogr:CODE>

The changed tags (cntry\_code, adm1\_code, adm2\_code..) can change between the different sources where you extract the shapefiles. You need to find which is the tag refereeing to the orgUnit code. For example if you are importing a shapefile from Spain you new somehow to find an structure like <ogr:XXX>ESP</ogr:XXX> and then XXX needs to be swapped with CODE. If you are importing first administrative level of spain you need to fine somehow in the file <ogr:YYY>ESP.CAT</ogr:YYY> and then YYY needs to be swapped with CODE, and so on.