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Regional training workshop on geographical information system for energy planning



GRID Geneva Data and metadata collection guidelines

Data need explained

Dakar, 12 August 2014



# Data need explained

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The list is impressive, but we only need to access existing data

**Priorities are given** 

				UNIGE needs	
DATA TYPE	POTENTIAL SOURCE	DESCRIPTION	FORMAT	score: 3	UNKS E supplementary infos
				fundamental, 2	
			This is usually shapefile with	usoful	$\overline{}$
	International, national and		This is usually shape life with associated database in (excel.		Any paper map containing non
1.0 Base Map Data	departments responsible for	The map data are the datasets showing the various geographic features with their			GIS information, digitized and
	keeping map data.	metadata (such as the map projection parameters)	access or sql) or other format as indicated: Raster (georeferenced		geore fer enced
			francia sed: na scer (gleore renced		
Regional/district boundaries	Various Survey	This shows the boundary of the various regions/countiesies with	maps in shp (Shapefile), excel,		
with attributes	Departments/Town &	their names and coordinates as well as map projection	access, word etc	3	Admini strative boundaries
	Country Manning	information. Data are usually polyeon features digicting the extent			
Towns / communities with	Statistical Service / Survey	These data will show the location of the various towns and	maps in shp (Shapefile), excel,	3	Location of the various towns and communities + their Electrification
attributes	Departments/Town &	communities in aparticular district. They are usually points features	access, word etc		
Road Network with Attributes	Survey Departments/Highway authority/Ministries in	These are datasets that show the various surface routes such as verhicular and rail lines. They are usually polyline or polygon	maps in shp (Shapefild), excel,	,	Road and rail network (possibly
NAME OF THE PARTY	Charas	features. The hierarchy of the networks will not be strictly adhered	access, word etc		with hierarchy)
Road infrastructures	Survey Departments/Highway	Road and rail infrastructures (turnel, bridge, train station)			
Road infrastructures	authority/Ministries in	Road and rail infrastructures (tunnel, bridge, train station)	Vector (point)	3	Aded by UNG:
	Respective Survey	These are data showing structures with interests in commercial			Commercial buildings, public,
Infrastructure and its	Departments/Town &	buildings and public facilities including small and medium scale	maps in shp (Shapefile), excel,	3	enterprises, school, hospitals, +
Attributes	Country Planning	enterprise set c.	access, word etc		their Electrification
					Status (Flactnified & Inflactnified)
Waterhodies	Respective Survey	These are data that will show the various water bodies within a	maps in shp (Shapefile), excel,	3	lake, rivers (possibly with
Table 300m	Departments/Town &	region. Their names and location should be present	access, word etc		hierarchy), wetlands
	Country Plannine Ministry of Agriculture, Soil,				
	crop and or rock research		maps in shp (Shapefile), excel,		Land use induding Industrial,
Land use	institutes, district	These datasetor layer will keenly show familiands either irrigated or not (size of familiands and locations) and other commercial lands	access, word etc; Raster files are	3	commercial and transport units, port and airport areas, Wine, dump and
	assemblies, and national	not (size of farmlands and locations) and other commercial lands	also fine (GeoTiff, ASQI, etc)		arport areas, rivere, damp and construction sites
	denortments for Agriculture				
2.0 Demographic Data					
Population	National Statistical offices	Court of People in Towns / communities	excet access		Reputation per regional /district boundaries, including urban/nural
Population	/Gensus Offices	Course of People III Towns / Communicati	occut, access	1	subdivisions
3.0 Social services Data					
Health	Health Ministry/Statistical	Hospitals and clinics with and without access to electricity	excel, access, word, maps in shp	3	
наки	Service	respects and carries with and without access to end next	(Shapefile), etc	-	
Education	Ministry in charge/Statistical	Basic & Secondary schools with and without access to electricity	excel, access, word, maps in shp	3	
	Services		(Shapefile), etc		
Portable Water	Water Companies / Statistical	Towns/Communities with and without access to potable water	excel, access, word, maps in shp	2	
	Services Communications Ministry		(Shapefile), etc		
ICT	Telecom Industries, Ministry	Availability and powering of telecommunication systems at	maps in shp (Shapefile), excel,	2	
	in Charge, District Assemblies	community levels (e.g. e-care, repeater stations)	access, word etc		
4.0 Economic activities Data					
Business Enterprises	Ministry in charge/Statistical	large, Micro and small scale enterprises with and without access to	maps in shp (Shapefile), excel,	3	
	Services	efectricity.	access, word etc		
Income or Gross Domestic	Ministry in charge/Statistical	Income or GDP per regional/district boundaries	excel, access	3	Aded by UNIGE
Product (GDP) 5.0 Access to Electricity	Services				nan njurtus
	Ministry of Energy;		Maps in .shp (Shape file), excel,		
Electricity Transmission Network	Electricity/Power Companies,	Network map from National To local levels	Maps in .shp (Sha perhle), excel, access, word etc	3	ı l
	Energy Commissions		access, word ex		
	Ministry of Energy;		Maps in .shp (Shapefile), excel,		
Electricity substations	Electricity/Power Companies,	Substation map from National To local levels	access, word etc	3	
	Energy Commissions				
Electricity production site	Ministry of Energy;	location and type of production (thermal, solar, hydro,)	Vector (point)		l
Lacustry production sale	Electricity/Power Companies,	w.s.s.s.r. and sype or production (overnee, sour, nydro,)	recta (pont)		Aded by UNIGE
	Energy Commissions Ministry of Energy;				
Hydro stations		tocations of Mini and small hydro dams	Maps in .shp (Shapefile), excel,	3	
	Energy Commissions		access, word etc		
Access to Thermal energy	Energy Ministry,	towns/communities with access to thermal energy (e.g. Ovens,			
/mechanical power (Animal,	Electricity/Power Companies,	stoves, boilers)/mechanical power (e.g. diesel engines for grinding	maps in shp (Shapefile), excel,	3	
engine)	District Assemblies, Statistical	mils)	access, word etc		
6.0 Access to Cooking Fuels	Sanica Dan	-			
(Technology (LPC DAYA)		This excludes Electricity			
Number & Location offuel	Ministry of Energy, Energy		maps in shp (Shapefilé, excel.		
	Commissions, National	Number and Location of LPGS tations		3	
stations	Petroleum Authorities		access, word etc		
	Statistical Service Dept.,		maps in shp (Shapel Id), excel,		
Household level access	Ministry of Energy, Energy	Households using LPG	access, word etc	2	
	Commission				$\vdash$
Improved stoves distribution	Statistical Service Dept.,	Harris Marie	maps in shp (Shapefile), excel,	2	l l
improved stoves distribution	Ministry of Energy; UNDP;	Households with a coass to improved stoves	access, word etc	1	
	Energy Commission				

# 6 main categories

Base map data

**Demographic Data** 

**Social services Data** 

**Economic activities Data** 

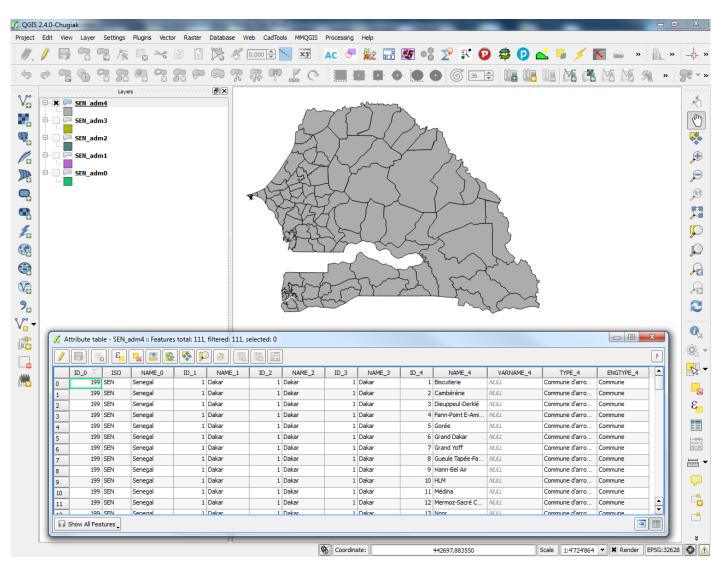
**Access to Electricity** 

Access to Cooking Fuels /Technology (LPG DATA)

# Base map data

### Regional/district boundaries with attribute

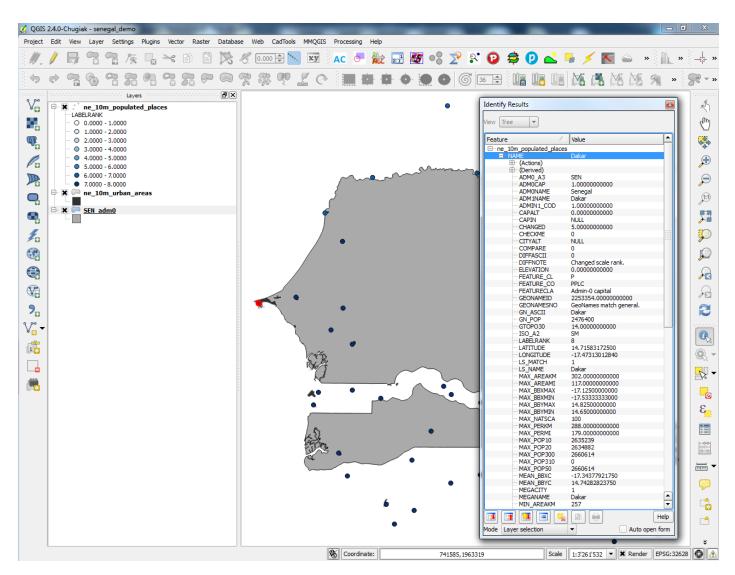
Administrative boundaries at the lowest level available



# Base map data

#### Towns/communities with attributes

Possibly with hierarchical information



# Base map data

**Road Network with Attributes** 

**Road infrastructures** 

**Infrastructure and its Attributes** 

**Water bodies** 

Land use

# Demographic Data

**Population** 

# Social services Data

Health

**Education** 

Potable Water

**ICT** 

# Economic activities Data

**Business Enterprises** 

**Income or Gross Domestic Product (GDP)** 

# Access to Electricity

**Electricity Transmission Network** 

**Electricity substations** 

**Electricity production site** 

**Hydro stations** 

Access to Thermal energy /mechanical power (Animal, engine)

**Energy consumption** 

# Access to Cooking Fuels /Technology (LPG DATA)

Number & Location of fuel stations

Household level access

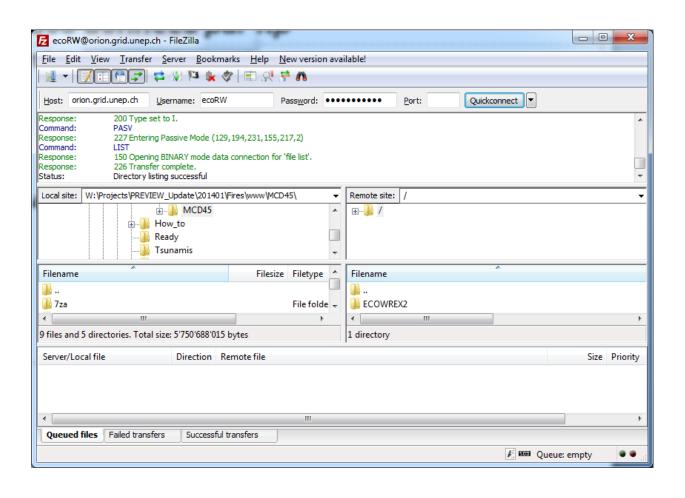
Improved stoves distribution

# Partage des données par ftp

ftp: orion.grid.unep.ch

**Read and Write** 

Read only





# Thanks

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