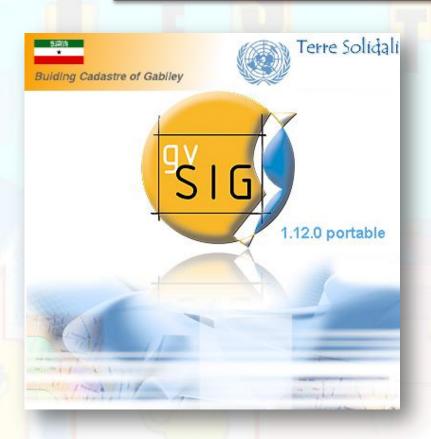


Building Technical Office of Gabiley with the extSomaliland gvSIG extension





Terre Solidali

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Maurizio Foderà: m.fodera@studiotopografia.it

Online May 23, 2016













MAIN OBJECTIVES

... is able to provide a precise measurement of interesting targets

... is easy to use and update regularly

... is fully developed with OS technology to ensure future sustainability

... can be highly customized and eventually translated in local languages

Provide the local partner with a GIS product that ...

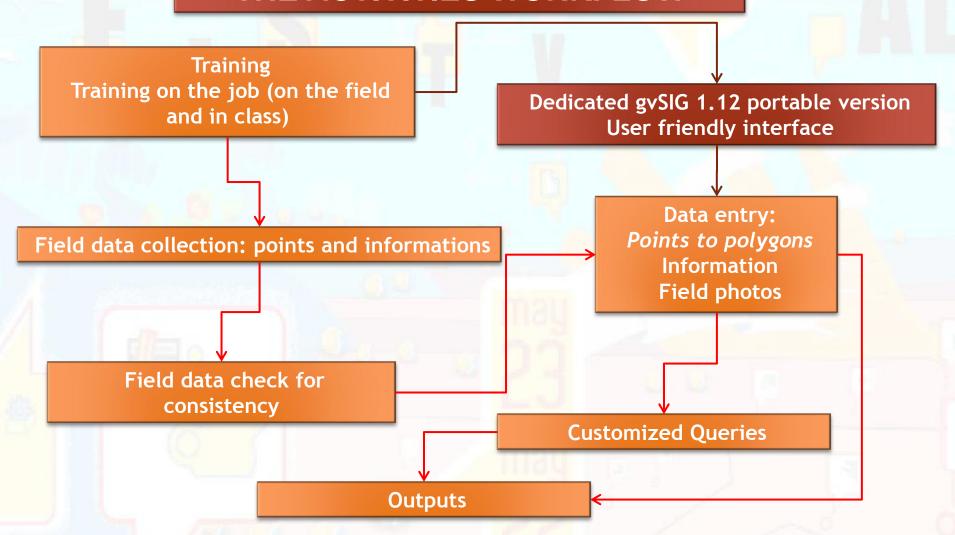
... can be replicated in other main similar neighboring environments

... can be linked with existing data/procedures





THE ACTIVITIES WORKFLOW

























GPS FIELD DATA COLLECTION

High precision geometric data collection with differential GPS



Easy-to-fill field forms for information data collection



AUTOMATION OF MUNICIPAL FINANCE AMF PHASE III



Institutionalisation of Financial & Information
Management Tools in Somalia

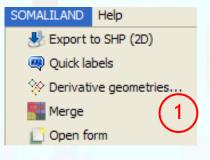
Polygon	ID (Office	e only)		Survey	or: G1□	G2□ D	ate/	/		
Plot no			Built □ Not built□ City: Gabiley District: Gabiley							
Building	descrip	douse otion: only hop, private	for Publi	ic Instit	tution o	Comme	ercial Activ	vities (hospital,		
Photo No			Apartment floor out of							
Wall ma	terial: Cer	ment 🗆 Bric	k □ Stone	□ W	ood 🗆 🛭	arth 🗆 (Other 🗆 _			
		n □ Wood [100				
	8535 835B	s living insid	5705.X5 No.				r□ Since	year:		
		Number	of person	s living						
Total	Total Total Male Female		Total Male		6.0	e <18 go school	Female <18	Female <18 go to school		
	Nu	mber of pe	rsons livii	ng in th	e house	– fam2 (if present)		
Total	Total Total Male Female		Total <18	Male <18		e <18 go school	Female <18	Female <18 go to school		
Mains	s electricit	y F	Piped wate	r	Roa	d Access	Impr	oved Sanitation		
YES □ NOT □ Y			S D NOT D		YES □ NOT □] YE	YES □ NOT □		
Broker□	l Manage		eeper⊡ So	oldier□	Doctor _E	Executi	ve Directo	□ Watchman□ r□ Secretary□		



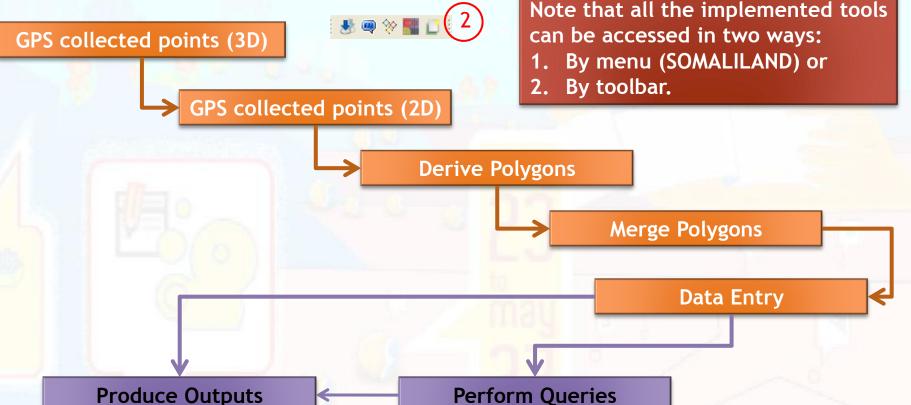




DEDICATED EXTENSION: EXTSOMALILAND



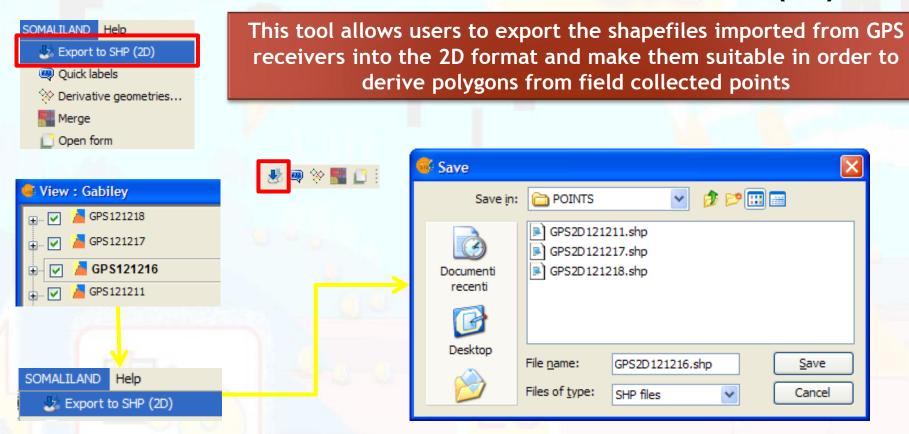
This extension supports the user during the whole workflow from the loading of field collected points, data entry, labelling and merge procedure in order to have only one final vector layer







SOMALILAND EXTENSION: EXPORT TO SHP (2D)



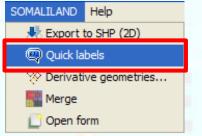
Since the very beginning of the procedure, it is very important to follow a strict rule on file naming.

Points coming from the GPS will be named as collected GPS+date (example GPS130402.shp).

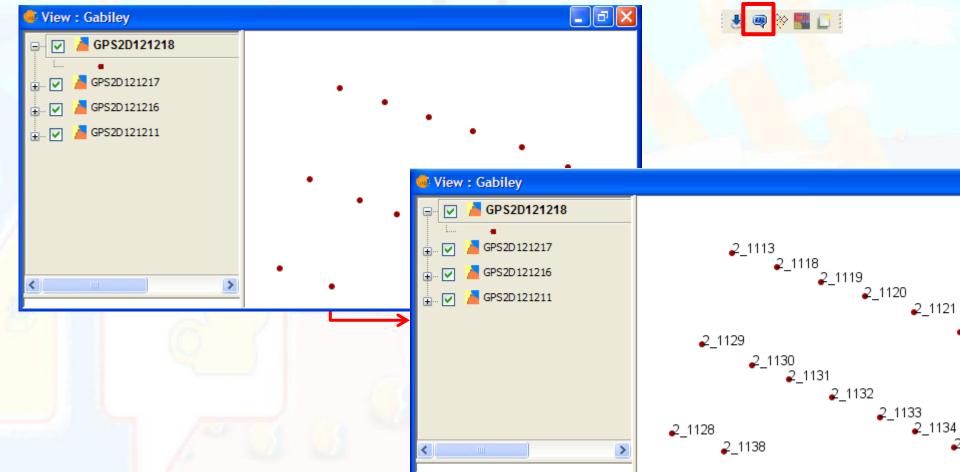
The corresponding 2D shapefile will be GPS2D130402.shp



SOMALILAND EXTENSION: QUICK LABELS



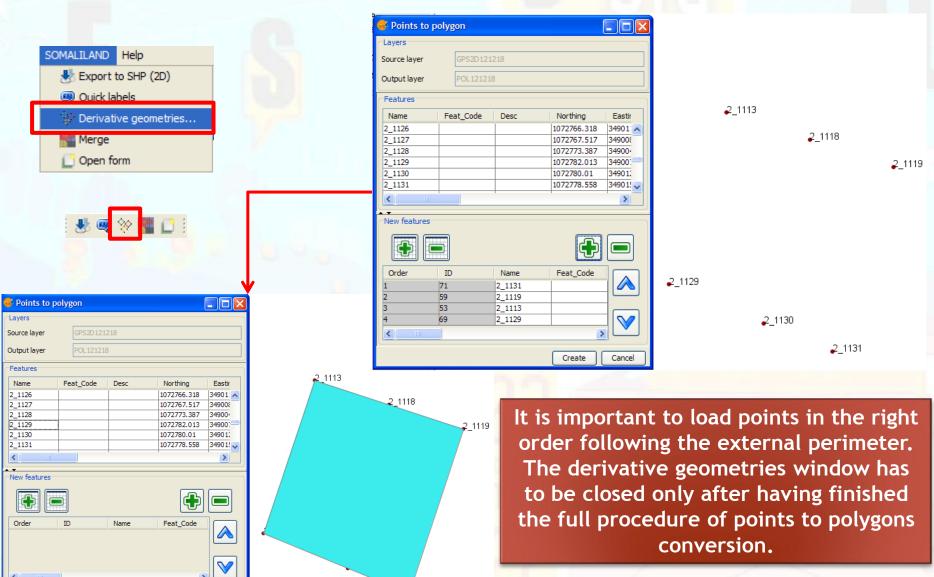
This tool allows to automatically label a vector layer using the values contained in the first column of its attribute table. It can be applied both to polygons as to points layers.





F E S T V AL

SOMALILAND EXTENSION: DERIVATIVE GEOMETRIES



1131





SOMALILAND EXTENSION: OPEN FORM

Building ID and area are automatically calculated.

Data entry is made easier through dropdown lists or checkbox

Building photo file can be selected and an automatic hyperlink is activated

NavTable standard tools are available also in this tool

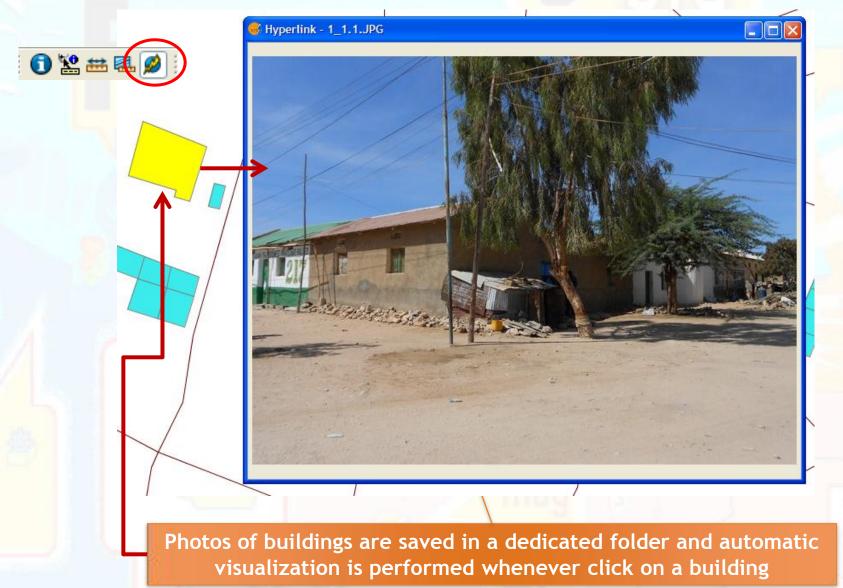
Building Cadastre of	f Gabiley		×								
Buiding Cadas	stre of Gabiley		Terre Solidali gismap								
Selected Select Always Zoom Fixed Scale											
Building Cadastre	of Gabiley		^								
General info											
Building ID	GAB-A-03-25-05	Gross Floor Area [m²]	122								
City GAB	Area A Sector	03 Block 2	25 Unit 05								
Surveyor	G1 🔻	Date (dd/MM/yyyy)	03/01/2014								
✓ Is it built?		Old building code									
Photo absolute path D:\GEBILEY\PHOTOS\GAB-A-03-25-05.JPG											
Building features											
Building type	Commercial Activities 💟	Building description									
Apartment floor	0	Main electricity									
Total floors	0	Piped water									
Wall material	Brick	Road access									
Roof material	Earth 💌	✓ Improved sanitization									

Old code field to make possible the link to already existing information



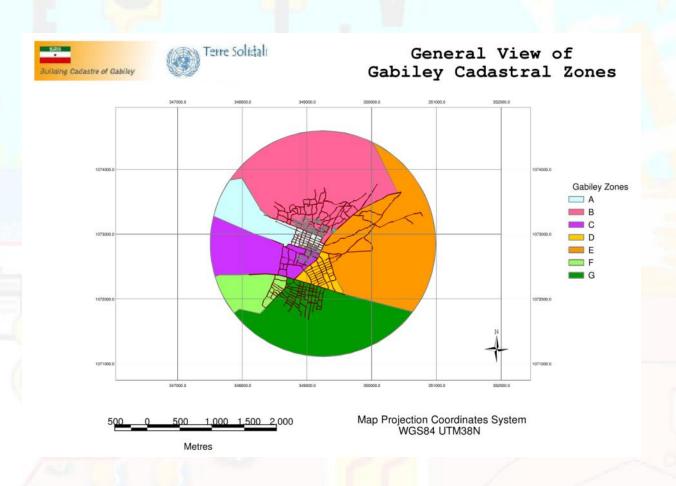


SOMALILAND EXTENSION: HYPERLINK



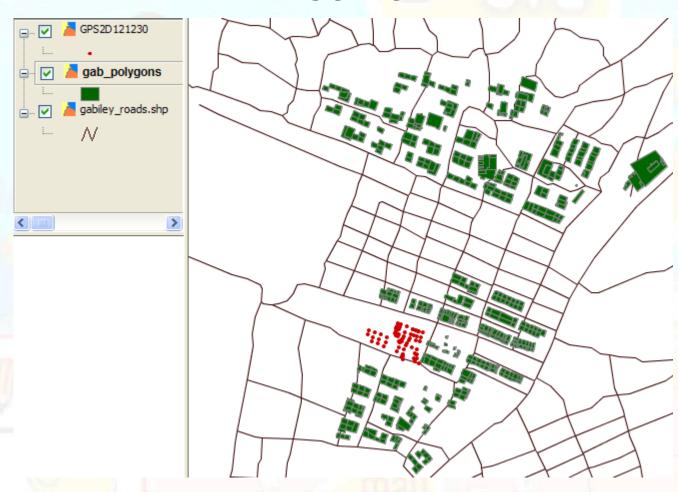
SOMALILAND EXTENSION: OUTPUTS

Production of Maps customized for subjects, size, scale and legend as well as spreadsheet tables (dbf or xls format)





RESULTS!



23 field survey days

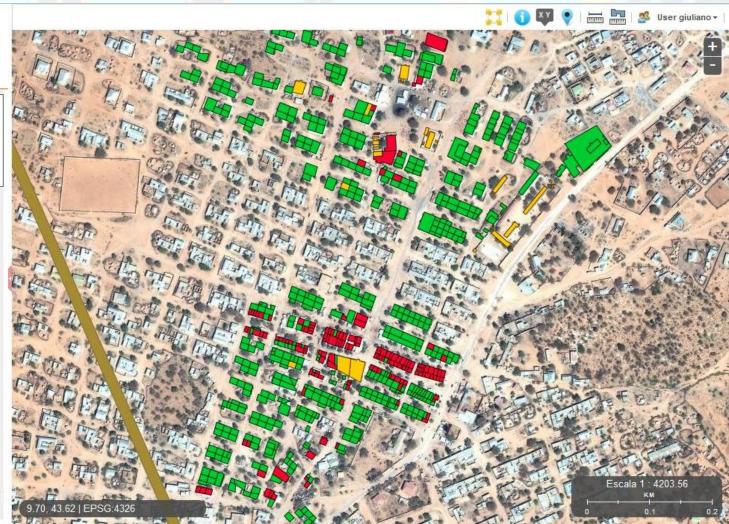
Almost 800 polygons created (± 15% total)



The future! WebGIS









Grazie... Thank you and enjoy with #GIS and #GPS ©