



Food and Agriculture  
Organization of the  
United Nations

FAO and the Enhanced transparency framework

# LOGIC TOOL: TOOL FOR DEVELOPING LAND REPRESENTATION INFORMATION FOR GHG ESTIMATES IN THE LULUCF SECTOR

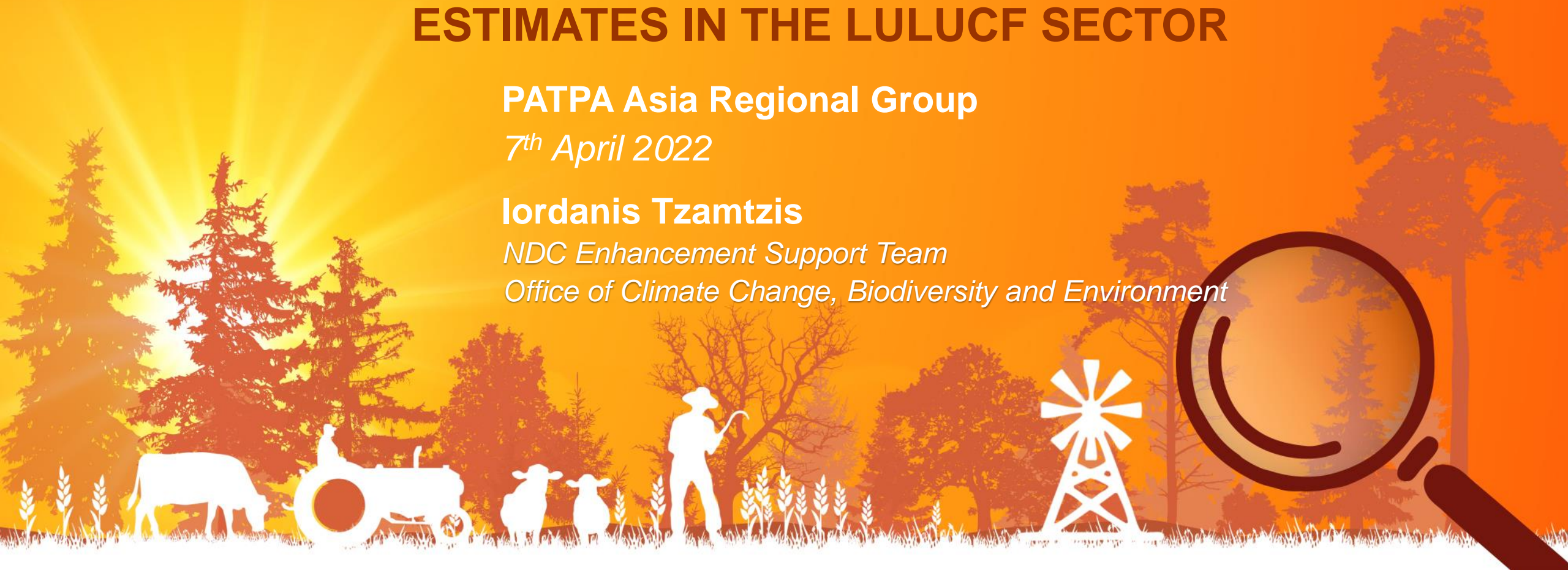
**PATPA Asia Regional Group**

*7<sup>th</sup> April 2022*

**Iordanis Tzamtzis**

*NDC Enhancement Support Team*

*Office of Climate Change, Biodiversity and Environment*



# FAO LoGlc tool (rel.1.2.en.1) | objective

- ❑ The analysis of countries' land area information for the purpose of land representation for national GHG inventories in the LULUCF sector





# FAO LoGlc tool (rel.1.2.en.1) | characteristics

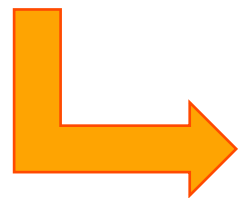
- ☐ *Beta version*
- ☐ excel-based, dynamic & user-friendly application which uses a step-by-step approach to guide the user sequentially from uploading the input data to exporting the final results
- ☐ Utilizes country information as input data obtained with the use of the FAO Collect Earth tool or other software applying similar approaches, namely land-use classification based on sampling approach at a plot level



# FAO LoGlc tool (rel.1.2.en.1) | characteristics

- ❑ Works with any country-specific land-use stratification scheme

One of the main challenges countries face is the collection of land-use information for longer time-series, especially for previous years



- ❑ Built-in functionality for 'backasting'/'forecasting' & gap-filling to ensure a consistent time series (provided that certain requirements are met)



# FAO LoGlc tool (rel.1.2.en.1) | outputs

- ❑ all necessary information for land representation to develop the GHG inventory for LULUCF sector & report in CRTs GHGs as adopted at COP26 (dec. 5/CMA.3) (annual area analysis, 20-years area analysis, land-use conversion matrices)





# FAO LoGlc tool (rel.1.2.en.1) | input data requirements

The tool utilizes country information to develop the land representation

However, certain rules & requirements apply to the structure of the input data

The user must ensure that the content of the 'input file' respects specific requirements before being inserted into the tool



It refers to both the format & the content of the input data



# FAO LoGlc tool (rel.1.2.en.1) | input data requirements

- ✓ It is an excel-based tool, therefore the input file should also be in an excel format
- ✓ It has been designed to work with input data on land-use using the FAO Collect Earth tool, or other software applying similar approaches, namely land-use classification based on a sampling approach which provides land-use information at the plot level



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	PLOT ID	REGION	SOIL	ECO ZONE	CLIMATE ZONE	AREA	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
2	1	Abuja	HAC	SCs	1	6	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	
3	2	Abuja	HAC	SCs	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	
4	3	Abuja	HAC	SBSH	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	
5	4	Abuja	HAC	SBSH	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	
6	5	Abuja	HAC	SBSH	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	
7	6	Abuja	HAC	SBSH	1	6	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	
8	7	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	
9	8	Abuja	HAC	SBSH	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	
10	9	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	
11	10	Abuja	HAC	SBSH	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	
12	11	Abuja	HAC	SBSH	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	
13	12	Abuja	HAC	SBSH	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	
14	13	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	
15	14	Abuja	HAC	SBSH	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	
16	15	Abuja	HAC	SBSH	1	6	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	
17	16	Abuja	HAC	SBSH	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	
18	17	Abuja	HAC	SBSH	1	6	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	
19	18	Abuja	HAC	SBSH	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	
20	19	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	
21	20	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	
22	21	Bizerte	HAC	SCs	1	6	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	
23	22	Abuja	HAC	SBSH	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	
24	23	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	
25	24	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	
26	25	Abuja	HAC	SBSH	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	

- ✓ the 'input file' should contain the information on land use for all plots & for all available years for the area of interest



# FAO LoGlc tool (rel.1.2.en.1) | input data requirements

- ✓ starting year of the GHG inventory period (GHGIP)  $\leq 2005$
- ✓ number of years for which land-use information is available (at plot level)  $\geq 16$

(e.g., if 2000 is the starting year, the input file needs to contain land-use information until 2015)

X11	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	PLOT ID	REGION	SOIL	ECO ZONE	CLIMATE ZONE	AREA	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
2	1	Abuja	HAC	SCs	1	6	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	
3	2	Abuja	HAC	SCs	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	
4	3	Abuja	HAC	SBSh	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	
5	4	Abuja	HAC	SBSh	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	
6	5	Abuja	HAC	SBSh	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	
7	6	Abuja	HAC	SBSh	1	6	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-OL	TC-OL	TC-OL	TC-OL	
8	7	Abuja	HAC	SBSh	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	
9	8	Abuja	HAC	SBSh	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	
10	9	Abuja	HAC	SBSh	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	
11	10	Abuja	HAC	SBSh	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	
12	11	Abuja	HAC	SBSh	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	
13	12	Abuja	HAC	SBSh	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	
14	13	Abuja	HAC	SBSh	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	
15	14	Abuja	HAC	SBSh	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	
16	15	Abuja	HAC	SBSh	1	6	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	
17	16	Abuja	HAC	SBSh	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	
18	17	Abuja	HAC	SBSh	1	6	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	
19	18	Abuja	HAC	SBSh	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	
20	19	Abuja	HAC	SBSh	1	6	P-AL	P-AL	P-AL	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	
21	20	Abuja	HAC	SBSh	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	
22	21	Bizerte	HAC	SCs	1	6	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	
23	22	Abuja	HAC	SBSh	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	
24	23	Abuja	HAC	SBSh	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	
25	24	Abuja	HAC	SBSh	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	
26	25	Abuja	HAC	SBSh	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	
		PLOT LIST																					



# FAO LoGlc tool (rel.1.2.en.1) | input data requirements

exact column structure, order & heading name, with no blank columns between

Same column length

X11																									
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W		
1	PLOT ID	REGION	SOIL	ECO ZONE	CLIMATE ZONE	AREA	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015			
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3	2	Abuja	HAC	SCs	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	TC-GI	TC-GI	TC-GI			
4	3	Abuja	HAC	SCs	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP			
5	4	Abuja	HAC	SCs	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP			
6	5	Abuja	HAC	SCs	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP			
7	6	Abuja	HAC	SBSH	1	6	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI			
8	7	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL			
9	8	Abuja	HAC	SBSH			AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-			
10	9	Abuja	HAC	SBSH			AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-			
11	10	Abuja	HAC	SBSH			AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-			
12	11	Abuja	HAC	SBSH			AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-			
13	12	Abuja	HAC	SBSH			AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-			
14	13	Abuja	HAC	SBSH			AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-			
15	14	Abuja	HAC	SBSH	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-			
16	15	Abuja	HAC	SBSH	1	6	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI			
17	16	Abuja	HAC	SBSH	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA			
18	17	Abuja	HAC	SBSH		6	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL			
19	18	Abuja	HAC	SBSH		6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA			
20	19	Abuja	HAC	SBSH		6	P-AL	P-AL	P-AL	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI			
21	20	Abuja	HAC	SBSH		6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL			
22	21	Bizerte	HAC	SBSH		6	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA			
23	22	Abuja	HAC	SBSH		6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-			
24	23	Abuja	HAC	SBSH		6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL			
25	24	Abuja	HAC	SBSH		6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL			
26	25	Abuja	HAC	SBSH	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA			

mandatory

If columns B-E  
not available →  
random values

Mandatory name  
for the excel  
sheet containing  
the input data

Column	Name	Content
A	PLOT ID	The plot ID
B	REGION	The administrative region the plot falls in
C	SOIL	The soil zone the plot falls in
D	ECO ZONE	The ecological zone the plot falls in
E	CLIMATE ZONE	The climate zone the plot falls in
F	AREA	The area the plot represents. The unit is the one defined by the user
G	[Year X (starting year of GHGIP)]	The land-use classification of the plot for the starting year of GHGIP (e.g., 2000)
H	[Year X+1]	The land-use classification of the plot for the second year (e.g., 2001)
...	[Year X+n]	The land-use classification of the plot for the year X+n



# FAO LoGlc tool (rel.1.2.en.1) | input data requirements

exact column structure, order & heading name, with no blank columns between

Same column length

X11																				
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	S	T	U	V	W
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3	2	Abuja	HAC	SCs	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	TC-GI	TC-GI	TC-GI	TC-GI
4	3	Abuja	HAC	SBSH	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AL	P-AL	P-AL	P-AP	P-AP	P-AP	P-AP	
5	4	Abuja	HAC	SBSH	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AL	P-AL	P-AL	P-AP	P-AP	P-AP	P-AP	
6	5	Abuja	HAC	SBSH	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AL	P-AL	P-AL	P-AP	P-AP	P-AP	P-AP	
7	6	Abuja	HAC	SBSH	1	6	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	AT-	AT-	AT-	TC-OL	TC-OL	TC-OL	TC-OL	
8	7	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	TC-GI	TC-GI	TC-GI	P-AL	P-AL	P-AL	P-AL	
9	8	Abuja	HAC	SBSH	1	6	AT-	AT-	AT-	AT-	AT-	AT-	TC-GI	TC-GI	TC-GI	AT-	AT-	AT-	AT-	
10	9	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	
11	10	Abuja	HAC	SBSH	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	
12	11	Abuja	HAC	SBSH	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	
13	12	Abuja	HAC	SBSH	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	
14	13	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	
15	14	Abuja	HAC	SBSH	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	
16	15	Abuja	HAC	SBSH	1	6	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	
17	16	Abuja	HAC	SBSH	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	
18	17	Abuja	HAC	SBSH	1	6	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	
19	18	Abuja	HAC	SBSH	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	
20	19	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	
21	20	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	
22	21	Bizerte	HAC	SCs	1	6	TF	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	
23	22	Abuja	HAC	SBSH	1	6	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	AT-	
24	23	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	TC-GI	TC-GI	TC-GI	TC-GI	
25	24	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	
26	25	Abuja	HAC	SBSH	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	

country specific nomenclature for plot classification

mandatory to separate the main land-use category & the land-use subcategory using a dash ("-"), without leaving a space between

Main LU categories <= 6

PLOT LIST

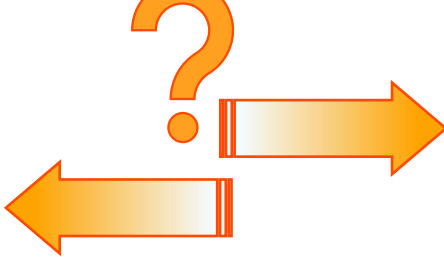
country specific nomenclature for plot classification

mandatory to separate the main land-use category & the land-use subcategory using a dash ("-"), without leaving a space between

Main LU categories <= 6



# FAO LoGlc tool (rel.1.2.en.1) | built-in functionalities

- ❑ IPCC approach 2 for land representation & 20 years default transition period
  - ❑ provides for gap-filling, back-casting & fore-casting
  - ❑ all 3 functionalities are implemented automatically by the tool, as part of the respective step (no need from the user to take any additional action)
  - ❑ all 3 functionalities refer only to the information regarding the plot land-use category/subcategory classification
  - ❑ gap-filling: the input file is 'gap-filled' when it contains gap in the time series between starting & the last year (noting that the '16-year' rule for the minimum time series is respected), e.g. if the input file contains plot information for years from 2000 to 2015 and for the year 2017, 2016 years is gap-filled copying plot information from previous year
- 





# FAO LoGlc tool (rel.1.2.en.1) | built-in functionalities

- ❑ back-casting: develops a plot time series for 20 years prior to the starting year of the GHGIP, e.g. if starting year = 2000, the back-casting is done back to 1980. Consequently, provides a consistent time series of plot information (land-use changes) for the number of years needed (20 years IPCC default) in order to accurately estimate the associated carbon stock changes in the GHGI starting year
- ❑ implemented using a random & iterative approach, plot by plot & year by year, starting from the closest year to the starting year (i.e., X-1)
- ❑ It is based on the type & frequency of the 'land-use status' of the plots as observed in the input file. This analysis is done automatically with the insertion of the input file
- ❑ a fixed number of iterations (z) is applied. In the *beta* version z=10



# FAO LoGlc tool (rel.1.2.en.1) | built-in functionalities

- ❑ each iteration results in an annual area information per land-use category/subcategory change for all possible combinations of land-use categories/subcategories, given the land-use categorization applied by the country
- ❑ finally, the average annual areas of land-use changes for each possible combination of land-use category/subcategory of the 'z' iterations is estimated
- ❑ Fore-casting: similar to the back-casting. Starting from closest year to the last year of the input file onward. Only difference → fore-casting is done for a period of years in a way that the latest year of the GHGIP is either equal to the 'current year minus two' or equal to the 'last year plus five' (i.e., fore-casted years cannot be more than five), whichever is lower



# FAO LoGlc tool (rel.1.2.en.1) | interface

LoGlc tool (rel. 1.2.en.1)

Dashboard | About | Settings

Main

01. INPUT DATA 02. ANALYZE INPUT DATA 03. ANNUAL AREA ANALYSIS 04. 20 YEARS AREA ANALYSIS 05. LAND-USE CONVERSION MATRICES

Country Profile Regions Land-Use Subcategory Soil Zone Climate Zone Ecological Zone

ATTRIBUTE

- Country full name
- Total country area
- Number of plots
- 1st year of raw data
- Last year of raw data
- Initial imported plots list count
- Number of regions
- Number of soil zones
- Number of ecological zones
- Number of climate zones
- Number of land-use categories sets
- Category/subcategory delimiter
- Country short name
- Number of top-level land-use categories
- Number of land-use subcategories
- Area unit

Land-use category mapping

IPCC Top-level land-use categories legend

SN	LAND-USE CATEGORY	CODE
1	Forest Land	FL
2	Cropland	CL
3	Grassland	GL
4	Wetlands	WL
5	Settlements	SL
6	Other Land	OL

Country LU Category Count Country LU Category to Pair

CONFIRM

Save

0% Completed Year processing

0% Overall Completed Iteration processing

LU pair processing

(1) Main tool tabs containing different functionalities

(2) Main buttons to perform each step

(3) Dashboard's tabs presenting country-specific information based on input data

(4) Country profile window, with country information

(5) 'Edit window'/save button for inserting country name & area unit

(6) 'Mapping' window for mapping the country-specific terms for land-use categories with 6 IPCC default land-use categories (2<sup>nd</sup> step)

(7) IPCC LU categories window (IPCC main LU categories' coding, for mapping with the country-specific terms)





# FAO LoGlc tool (rel.1.2.en.1) | interface

LoGlc tool (rel. 1.2.en.1)

Dashboard | About | Settings

Main

01. INPUT DATA | 02. ANALYZE INPUT DATA | 03. ANNUAL AREA ANALYSIS | 04. 20 YEARS AREA ANALYSIS | 05. LAND-USE CONVERSION MATRICES

Country Profile | Regions | Land-Use Subcategory | Soil Zone | Climate Zone | Ecological Zone

ATTRIBUTE

- Country full name
- Total country area
- Number of plots
- 1st year of raw data
- Last year of raw data
- Initial imported plots list count
- Number of regions
- Number of soil zones
- Number of ecological zones
- Number of climate zones
- Number of land-use categories sets
- Category/subcategory delimiter
- Country short name
- Number of top-level land-use categories
- Number of land-use subcategories
- Area unit

Land-use category mapping

IPCC Top-level land-use categories legend

SN	LAND-USE CATEGORY	CODE
1	Forest Land	FL
2	Cropland	CL
3	Grassland	GL
4	Wetlands	WL
5	Settlements	SL
6	Other Land	OL

Country LU Category Count  Country LU Category to Pair

CONFIRM

Save

0% Completed

0% Overall Completed

Year processing

Iteration processing

LU pair processing  /

(8) LU categories mapping counters (categories needed & remaining)

(9) Confirmation button for final mapping between country-specific terms & IPCC LU categories

(10) Step progress bar

(11) Process progress bar

(12) Annual area analysis actions counters (3<sup>rd</sup> step)

(13) Notification window

✓ The user starts from 1st step & continues with the rest of the steps

✓ To start with a new step, the tool firstly must complete the previous step



# FAO LoGlc tool (rel.1.2.en.1) | interface

The screenshot shows the FAO LoGlc tool interface (rel. 1.2.en.1) with the following numbered annotations:

- 1: Dashboard | About | Settings menu
- 2: Main navigation bar with tabs: 01. INPUT DATA, 02. ANALYZE INPUT DATA, 03. ANNUAL AREA ANALYSIS, 04. 20 YEARS AREA ANALYSIS, 05. LAND-USE CONVERSION MATRICES
- 3: Country Profile, Regions, Land-Use Subcategory, Soil Zone, Climate Zone, Ecological Zone tabs
- 4: List of attributes on the left, including Country full name, Total country area, Number of plots, 1st year of raw data, Last year of raw data, Initial imported plots list count, Number of regions, Number of soil zones, Number of ecological zones, Number of climate zones, Number of land-use categories sets, Category/subcategory delimiter, Country short name, Number of top-level land-use categories, Number of land-use subcategories, and Area unit.
- 5: Save button
- 6: Land-use category mapping area
- 7: IPCC Top-level land-use categories legend table
- 8: Country LU Category Count input field
- 9: Country LU Category to Pair input field
- 10: Progress bar for Year processing (0% Completed)
- 11: Progress bar for Iteration processing (0% Overall Completed)
- 12: Progress bar for LU pair processing (0% Completed)
- 13: CONFIRM button

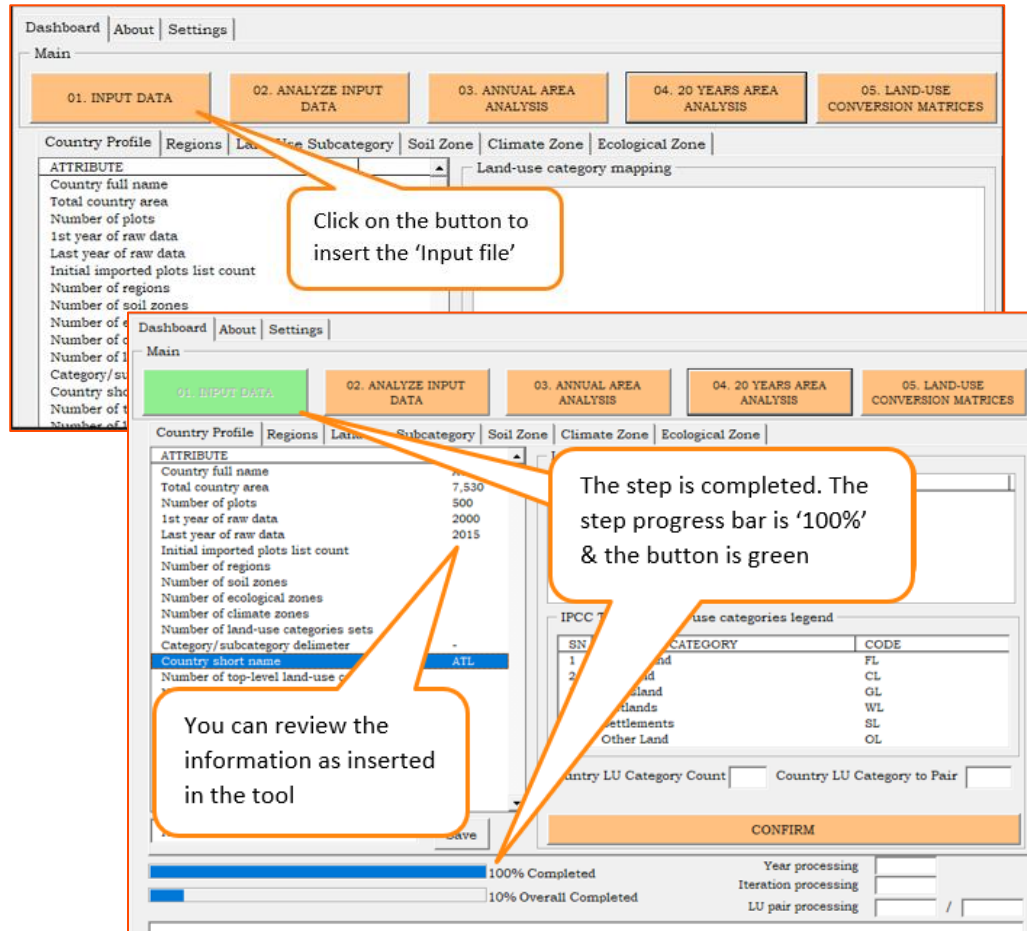
SN	LAND-USE CATEGORY	CODE
1	Forest Land	FL
2	Cropland	CL
3	Grassland	GL
4	Wetlands	WL
5	Settlements	SL
6	Other Land	OL

## 5 STEPS

Step	Name	Description
1	INPUT DATA	Inserting input file/data in the tool Necessary automatic control checks on input file structure Gap filling (if necessary)
2	ANALYZE INPUT DATA	Complete analysis & control checks of input data & its structure Mandatory mapping of LUC country-specific terms with IPCC default LUC
3	ANNUAL AREA ANALYSIS	Development of annual area analysis data, after the application of back-casting & fore-casting
4	20 YEARS AREA ANALYSIS	Development of 20 years area analysis data
5	LU CONVERSION MATRICES	Construction of LU conversion matrices Results with final outputs are exported



# FAO LoGlc tool (rel.1.2.en.1) | interface



Dashboard | About | Settings

Main

01. INPUT DATA 02. ANALYZE INPUT DATA 03. ANNUAL AREA ANALYSIS 04. 20 YEARS AREA ANALYSIS 05. LAND-USE CONVERSION MATRICES

Country Profile | Regions | Land Use Subcategory | Soil Zone | Climate Zone | Ecological Zone

Click on the button to insert the 'Input file'

ATTRIBUTE

ATTRIBUTE	Value
Country full name	
Total country area	7,530
Number of plots	500
1st year of raw data	2000
Last year of raw data	2015
Initial imported plots list count	
Number of regions	
Number of soil zones	
Number of ecological zones	
Number of climate zones	
Number of land-use categories sets	
Category/subcategory delimiter	
Country short name	ATL
Number of top-level land-use categories	

You can review the information as inserted in the tool

The step is completed. The step progress bar is '100%' & the button is green

CONFIRM

100% Completed

10% Overall Completed

## Step 1

- Click step 1 to insert the Input File (orange/green colors indicate steps not completed/completed). The tool does not allow to perform a step unless the previous step is completed
- Wait until the step progress bar gets to 100% & the button of step 1 changes its color to green
- You can review the information 'recognized' by the tool from the input data in this step. However, the complete analysis of the input data is done in step 2
- You can enter country name & area unit
- Continue with step 2





# FAO LoGlc tool (rel.1.2.en.1) | interface

Dashboard | About | Settings | Main

01. INPUT DATA | 02. ANALYZE INPUT DATA | 03. ANNUAL AREA ANALYSIS | 04. 20 YEARS AREA ANALYSIS | 05. LAND-USE CONVERSION MATRICES

Country Profile | Regions | Land-Use Subcategory | Soil Zone | Climate Zone | Ecological Zone

Country full name: Atlantis  
Total country area: 7,530  
Number of plots: 500  
1st year of raw data: 2000

Land-use category mapping

SN	NATIONAL TERM	DEFAULT LAND USE CATEGORY
1	TC	2 CL
2	P	3 GL
3	AT	6 OL
4	TF	1 FL
5	E	5 SL
6	TH	4 WL

90% Completed  
20% Overall Completed

LoGlc Tool Info : You have to manually map country's Land-Use Categories and IPCC Top level LU categories

A notification for taking an action is given

## Step 2

- step 2 requires additional action from the user before completed
- map the national terms for main LUCs with the IPCC LUCs using windows (1) & (2) & click the 'CONFIRM' button (3)
- For the mapping, left click on the national LUC (1) and then left double click on the respective IPCC LUC (2)
- To undo a mapping, left double click on the relevant national LUC (1)
- In the example provided, the mapping is as follows: TF=FL, TC=CL, P=GL, TH=WL, E=SL, AT=OL



# FAO LoGlc tool (rel.1.2.en.1) | interface

Dashboard | About | Settings

Main

01. INPUT DATA 02. ANALYZE INPUT DATA 03. ANNUAL AREA ANALYSIS 04. 20 YEARS AREA ANALYSIS 05. LAND-USE CONVERSION MATRICES

Country Profile | Regions | Land-Use Subcategory | Soil Zone | Climate Zone | Ecological Zone

ATTRIBUTE	
Country full name	Atlantis
Total country area	7,530
Number of plots	500
1st year of raw data	2000
Last year of raw data	2015
Initial imported plots list count	
Number of regions	22
Number of soil zones	1
Number of ecological zones	4
Number of climate zones	3
Number of land-use categories	26

Land-use category mapping

SN	NATIONAL TERM	DEFAULT LAND USE CATEGORY
1	TC	2 CL
2	P	3 GL
3	AT	6 OL
4	TF	1 FL
5	E	5 SL
6	TH	4 WL

IPCC Top-level land-use categories legend

SN	LAND-USE CATEGORY	CODE
1	Forest Land	FL
2	Cropland	CL
3	Grassland	GL
4	Wetlands	WL
5	Settlements	SL
6	Other Land	OL

Country LU Category Count: 6 Country LU Category to Pair: 0

Dashboard | About | Settings

Main

01. INPUT DATA 02. ANALYZE INPUT DATA 03. ANNUAL AREA ANALYSIS 04. 20 YEARS AREA ANALYSIS 05. LAND-USE CONVERSION MATRICES

Country Profile | Regions | Land-Use Subcategory | Soil Zone | Climate Zone | Ecological Zone

SN	DESCRIPTION
1	Abuja
2	Bizerte
3	Sousse
4	Bamako
5	Dakar
6	Harare
7	Khartoum
8	Lilongwe
9	Beja
10	Buenos Aires
11	Santiago
12	Dhaka
13	Jendouba
14	Manila

## Step 2

- The analysis of the input data is completed. You can review the relevant information in the 'Country Profile'

- You can review the complete lists for Regions, Land-Use Subcategory, Soil Zone, Climate Zone & Ecological Zone as they have been produced by the tool based on the input data



# FAO LoGlc tool (rel.1.2.en.1) | interface

Dashboard | About | Settings

Main

01. INPUT DATA | 02. ANALYZE INPUT DATA | 03. ANNUAL AREA ANALYSIS | 04. 20 YEARS AREA ANALYSIS | 05. LAND-USE CONVERSION MATRICES

Country Profile | Regions | Land-Use Subcategory | Soil Zone | Climate Zone | Ecological Zone

ATTRIBUTE

Country full name	Atlantis
Total country area	7,530
Number of plots	500
1st year of raw data	2000
Last year of raw data	2015
Initial imported plots list count	
Number of regions	22
Number of soil zones	1
Number of ecological zones	4
Number of climate zones	3
Number of land-use categories sets	26
Category/subcategory delimiter	-
Country short name	ATL
Number of top-level land-use categories	6
Number of land-use subcategories	23
Area unit	ha

Save

Land-use category mapping

SN	NATIONAL TERM	DEFAULT LAND USE CATEGORY
1	TC	2 CL
2	P	3 GL
3	AT	6 OL
4	TF	1 FL
5	E	5 SL
6	TH	4 WL

IPCC Top-level land-use categories legend

SN	LAND-USE CATEGORY	CODE
1	Forest Land	FL
2	Cropland	CL
3	Grassland	GL
4	Wetlands	WL
5	Settlements	SL
6	Other Land	OL

Country LU Category: ATL

Country LU Category to Pair: 0

Monitor the progress of the process

92% Completed

20% Overall Completed

Year processing: 2000

Iteration processing: 3

LU pair processing: 295 / 501

## Step 3

- All actions in this step are automatically performed by the tool & no additional action is required from the user
- You can monitor the progress of the process (years processed, iterations completed) in the bottom right corner
- Back-casting/fore-casting is implemented
- When the step is completed, you can move to step 4





# FAO LoGlc tool (rel.1.2.en.1) | interface

Dashboard | About | Settings |

Main

01. INPUT DATA | 02. ANALYZE INPUT DATA | 03. ANNUAL AREA | 04. 20 YEARS AREA | 05. LAND-USE CONVERSION MATRICES

Country Profile | Regions | Land-Use Subcategory | Soil Zone | Climate Zone | Ecological Zone

Land-use category mapping

Country LU Category Count: 6 Country LU Category to Pair: 0

CONFIRM

Atlantis

100% Completed

80% Overall Completed

Year processing: 1981

Iteration processing: 10

LU pair processing: 501 / 501

ATTRIBUTE

Country full name	Atlantis
Total country area	7,530
Number of plots	500
1st year of raw data	2000
Last year of raw data	2015
Initial imported plots list count	-
Number of regions	22
Number of soil zones	1
Number of ecological zones	4
Number of climate zones	3
Number of land-use categories sets	26
Category/subcategory delimiter	-
Country short name	ATL
Number of top-level land-use categories	6
Number of land-use subcategories	23
Area unit	ha

Land-use category mapping

SN	NAT	DEFAULT LAND USE CATEGOR
1	TC	2 CL
2	P	3 GL
3	AT	6 OL
4	TF	1 FL
5	E	5 SL
6	TH	4 WL

Land-use category mapping

SN	LAND-USE CATEGORY	CODE
1	Forest Land	FL
2	Cropland	CL
3	Grassland	GL
4	Wetlands	WL
5	Settlements	SL
6	Other Land	OL

## Step 4

- All actions in this step are automatically performed by the tool & no additional action is required from the user
- Land representation information applying the 20 years IPCC default transition period is implemented
- When the step is completed, you can move to step 5



# FAO LoGlc tool (rel.1.2.en.1) | interface

Dashboard | About | Settings

Main

01. INPUT DATA 02. ANALYZE INPUT DATA 03. ANNUAL AREA 04. 20 YEARS AREA 05. LAND-USE CONVERSION MATRICES

Country Profile | Regions | Land-Use Subcategory | Soil Zone | Climate Zone | Ecological Zone

Land-use category mapping

SN	NATIONAL TERM	DEFAULT LAND USE CATEGORY
1	TC	2 CL
2	P	3 GL
3	AT	6 OL
4	TF	1 FL
5	E	5 SL
6	TH	4 WL

SN	LAND-USE CATEGORY	CODE
1	Forest Land	FL
2	Cropland	CL
3	Grassland	GL
4	Wetlands	WL
5	Settlements	SL
6	Other Land	OL

Country LU Category Count: 6 Country LU Category to Pair: 0

CONFIRM

Atlantis Save

Both the step & process progress bars are 100%

Notification on the outputs' location appears

100% Complete 100% Overall C

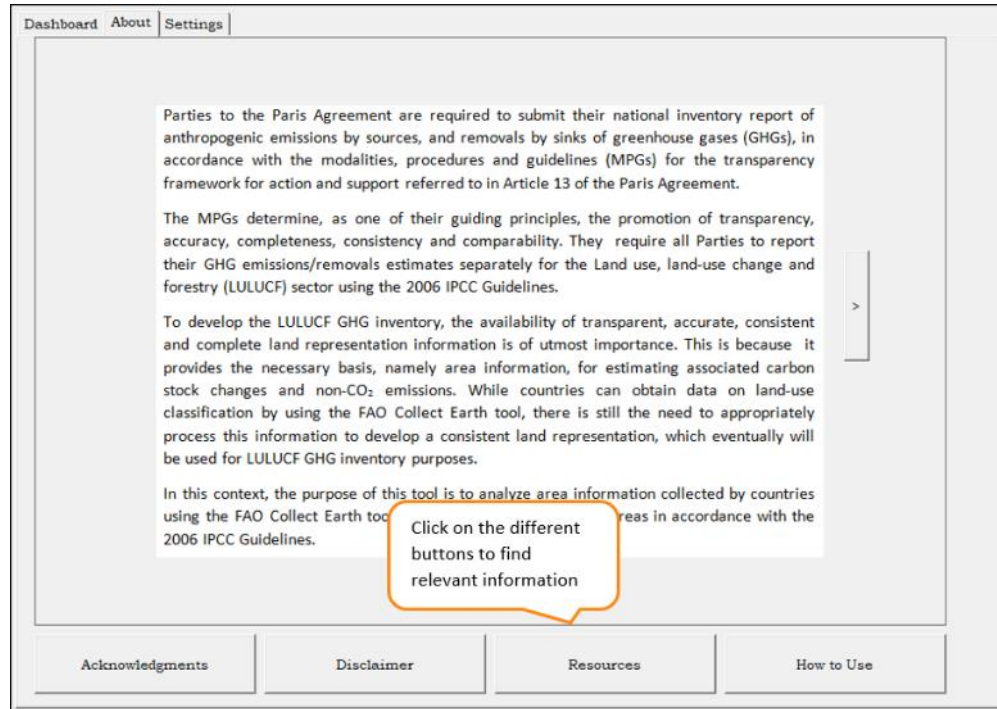
Results have been saved to >LoGlc Results.xls< in LoGlc Tool's path.

## Step 5

- It is the last step of the entire process
- All actions in this step are automatically performed by the tool & no additional action is required from the user
- Once the process is completed, the output file is exported



# FAO LoGlc tool (rel.1.2.en.1) | interface



## About

- You can find more information related to the tool Acknowledgments, Disclaimer, Resources, How to Use





# FAO LoGlc tool (rel.1.2.en.1) | outputs

- ❑ The output file contains final results of the land representation for the area of interest
- ❑ They are saved in an excel file & can be used as activity data to develop the GHG inventory for the LULUCF sector as well as to report in the CRTs
- ❑ This version of the tool does not make any conversion in the units → may be needed to convert the units of the output data for either GHG emissions/removals estimates or for reporting in CRTs (e.g., areas in the CRTs are reported mainly in kilo hectares)

## INPUT DATA ORIGINAL

- It is the input file with the input data, as inserted by the user in the tool

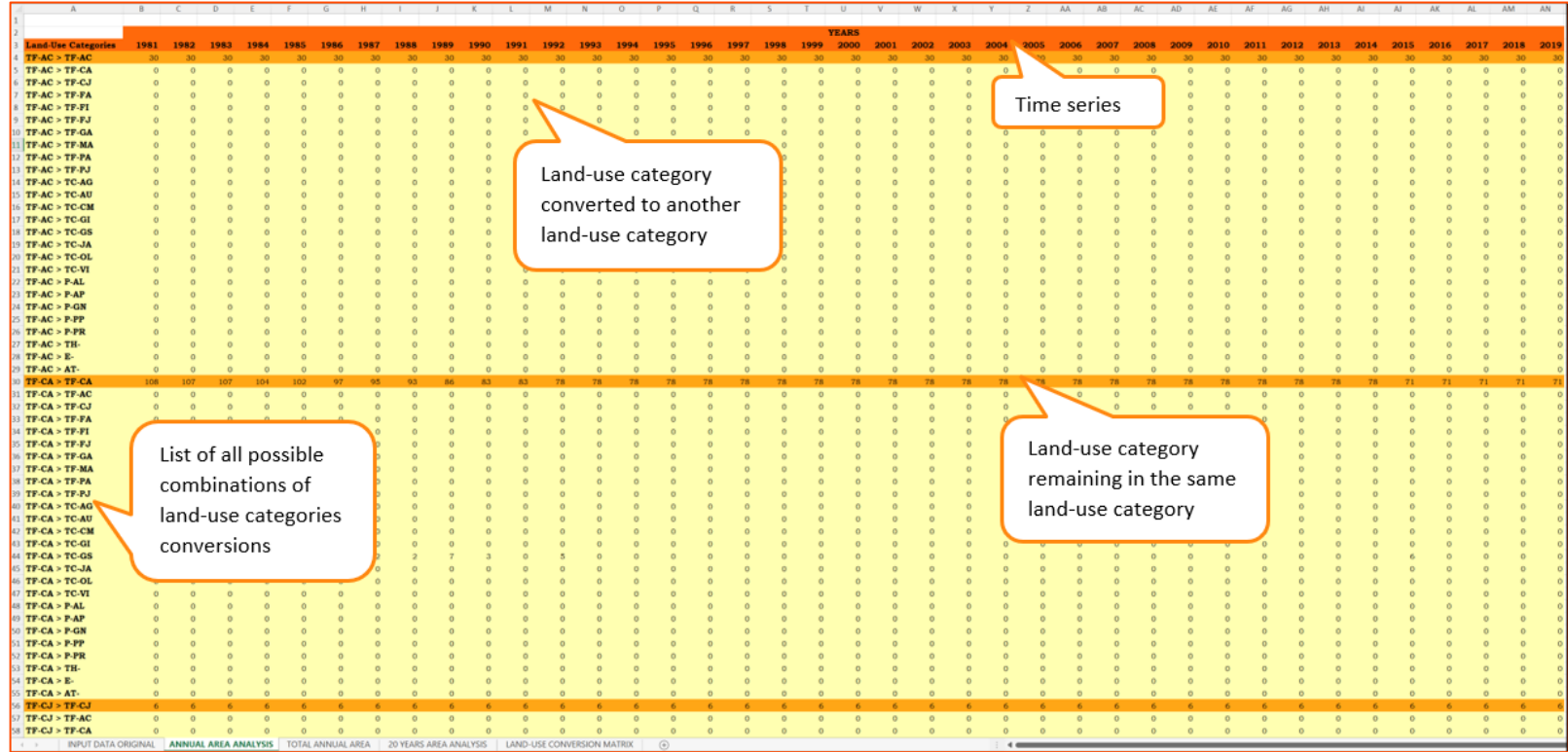
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	PLOT ID	REGION	SOIL	ECO ZONE	CLIMATE ZONE	AREA	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
2	1	Abuja	HAC	SCs	1	6	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI
3	2	Abuja	HAC	SCs	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL
4	3	Abuja	HAC	SBSH	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP
5	4	Abuja	HAC	SBSH	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP
6	5	Abuja	HAC	SBSH	1	6	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP
7	6	Abuja	HAC	SBSH	1	6	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI
8	7	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL
9	8	Abuja	HAC	SBSH	1	6	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT
10	9	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL
11	10	Abuja	HAC	SBSH	1	6	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT
12	11	Abuja	HAC	SBSH	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA
13	12	Abuja	HAC	SBSH	1	6	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT
14	13	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL
15	14	Abuja	HAC	SBSH	1	6	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT
16	15	Abuja	HAC	SBSH	1	6	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI
17	16	Abuja	HAC	SBSH	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA
18	17	Abuja	HAC	SBSH	1	6	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
19	18	Abuja	HAC	SBSH	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA
20	19	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL
21	20	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL
22	21	Buzette	HAC	SCs	1	6	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA	TF-PA
23	22	Abuja	HAC	SBSH	1	6	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT
24	23	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL
25	24	Abuja	HAC	SBSH	1	6	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL
26	25	Abuja	HAC	SBSH	1	6	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA
27	26	Abuja	HAC	SBSH	1	6	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT
28	27	Sousse	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
29	28	Sousse	HAC	SBSH	2	24	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI
30	29	Sousse	HAC	SBSH	2	24	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP
31	30	Sousse	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
32	31	Sousse	HAC	SBSH	2	24	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
33	32	Sousse	HAC	SBSH	2	24	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI
34	33	Bamako	HAC	SBSH	2	24	TC-AU	TC-AU	TC-AU	TC-AU	TC-AU	TC-AU	TC-AU	TC-AU	TC-AU	TC-AU	TC-AU	TC-AU	TC-AU	TC-AU	TC-AU	TC-AU
35	34	Bamako	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
36	35	Bamako	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
37	36	Bamako	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
38	37	Dakar	HAC	SCs	2	24	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA	TC-JA
39	38	Dakar	HAC	SCs	2	24	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI
40	39	Bamako	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
41	40	Dakar	HAC	SBSH	2	24	TC-GI	TC-GI	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
42	41	Bamako	HAC	SBSH	2	24	TF-AC	TF-AC	TF-AC	TF-AC	TF-AC	TF-AC	TF-AC	TF-AC	TF-AC	TF-AC	TF-AC	TF-AC	TF-AC	TF-AC	TF-AC	TF-AC
43	42	Bamako	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
44	43	Bamako	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
45	44	Bamako	HAC	SBSH	2	24	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT
46	45	Dakar	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
47	46	Hassett	HAC	SBSH	2	24	TH	TH	TH	TH	TH	TH	TH	TH	TH	TH	TH	TH	TH	TH	TH	TH
48	47	Hassett	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
49	48	Bamako	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
50	49	Dakar	HAC	SBSH	2	24	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT
51	50	Buzette	HAC	SCs	1	6	P-GN	P-GN	P-GN	TF-FJ	TF-FJ	TF-FJ	TF-FJ	TF-FJ	TF-FJ	TF-FJ	TF-FJ	TF-FJ	TF-FJ	TF-FJ	TF-FJ	TF-FJ
52	51	Hassett	HAC	SBSH	2	24	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP
53	52	Dakar	HAC	SBSH	2	24	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP	P-AP
54	53	Dakar	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
55	54	Hassett	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
56	55	Dakar	HAC	SBSH	2	24	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL	P-AL
57	56	Hassett	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
58	57	Hassett	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
59	58	Dakar	HAC	SBSH	2	24	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP	P-PP
60	59	Hassett	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
61	60	Hassett	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
62	61	Hassett	HAC	SBSH	2	24	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI
63	62	Hassett	HAC	SBSH	2	24	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL	TC-OL
64	63	Hassett	HAC	SBSH	2	24	TH	TH	TH	TH	TH	TH	TH	TH	TH	TH	TH	TH	TH	TH	TH	TH
65	64	Moscow	MAP	CRS	5	24	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI	TC-GI
66	INPUT DATA ORIGINAL						ANNUAL AREA ANALYSIS				TOTAL ANNUAL AREA				20 YEARS AREA ANALYSIS				LAND-USE CONVERSION MATRIX			



# FAO LoGlc tool (rel.1.2.en.1) | outputs

# ANNUAL AREA ANALYSIS

- Annual areas for LUCs remaining in the same LUC & for LUCs converted to another LUC for all possible combinations based on the information provided with the input data
- It covers the whole GHGIP and the back-casted years
- It can be used to estimate carbon stock changes associated with annual changes (e.g., initial change in biomass carbon stocks due to land-use change)





# FAO LoGlc tool (rel.1.2.en.1) | outputs

## TOTAL ANNUAL AREA

- Total annual areas for all land-use subcategories
- Covers the whole GHGIP
- It can be used to report data in CRT4.A - 4.F

	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1		YEARS																			
2	Land-Use Categories	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
3	TF-AC	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
4	TF-CA	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	71	71	71	71	71
5	TF-CJ	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
6	TF-FA	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
7	TF-FI	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
8	TF-FJ	56	56	56	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
9	TF-GA	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
10	TF-MA	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
11	TF-PA	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
12	TF-PJ	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
13	TC-AG	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
14	TC-AU	191	191	191	198	198	198	198	198	245	245	258	268	271	290	290	284	284	288	286	281
15	TC-CM	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	32	32	40	52	62
16	TC-GI	1093	1093	1046	1040	1040	1040	1040	1040	1040	1040	997	997	977	964	964	964	960	954	943	940
17	TC-GS	77	77	77	77	77	77	77	54	54	30	30	6	0	0	0	6	6	6	6	6
18	TC-JA				295	295	295	295	318	295	318	318	342	342	342	342	342	339	338	338	
19	TC-OL				1064	1064	1064	1064	1064	1070	1070	1094	1094	1107	1107	1107	1114	1116	1117	1118	
20	TC-VI				13	13	13	13	13	13	19	26	26	26	26	26	26	26	26	26	
21	P-AL	220	220	220	213	213	213	213	213	207	200	200	200	200	194	194	194	193	191	190	
22	P-AP	1125	1149	1142	1142	1142	1142	1142	1142	1119	1166	1142	1166	1190	1190	1190	1190	1189	1192	1189	
23	P-GN	95	95	95	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	
24	P-PP	165	142	142	142	142	142	142	142	142	142	142	118	94	94	94	94	92	92	90	
25	P-PR	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	
26	TH-	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	
27	E-	176	176	176	176	176	176	176	176	176	200	200	200	200	200	200	201	204	209	214	
28	AT-	1991	1991	1991	1991	1991	1991	1991	1991	1991	1943	1943	1943	1943	1943	1943	1943	1936	1932	1932	
29	Total Area	7530	7530	7530	7530	7530	7530	7530	7530	7530	7530	7530	7530	7530	7530	7530	7530	7530	7530	7530	7530





# FAO LoGlc tool (rel.1.2.en.1) | outputs

## 20 YEARS AREA ANALYSIS

- Cumulative areas, applying 20 years IPCC default transition period for LUCs converted to another LUC for all possible combinations of LUCs based on the information provided with the input data
- Covers the whole GHGIP
- It can be used to estimate carbon stock changes using cumulative areas (e.g., carbon stock changes in biomass pool, soil organic matter pool)
- It can be used to report data in CRT4.A - 4.F

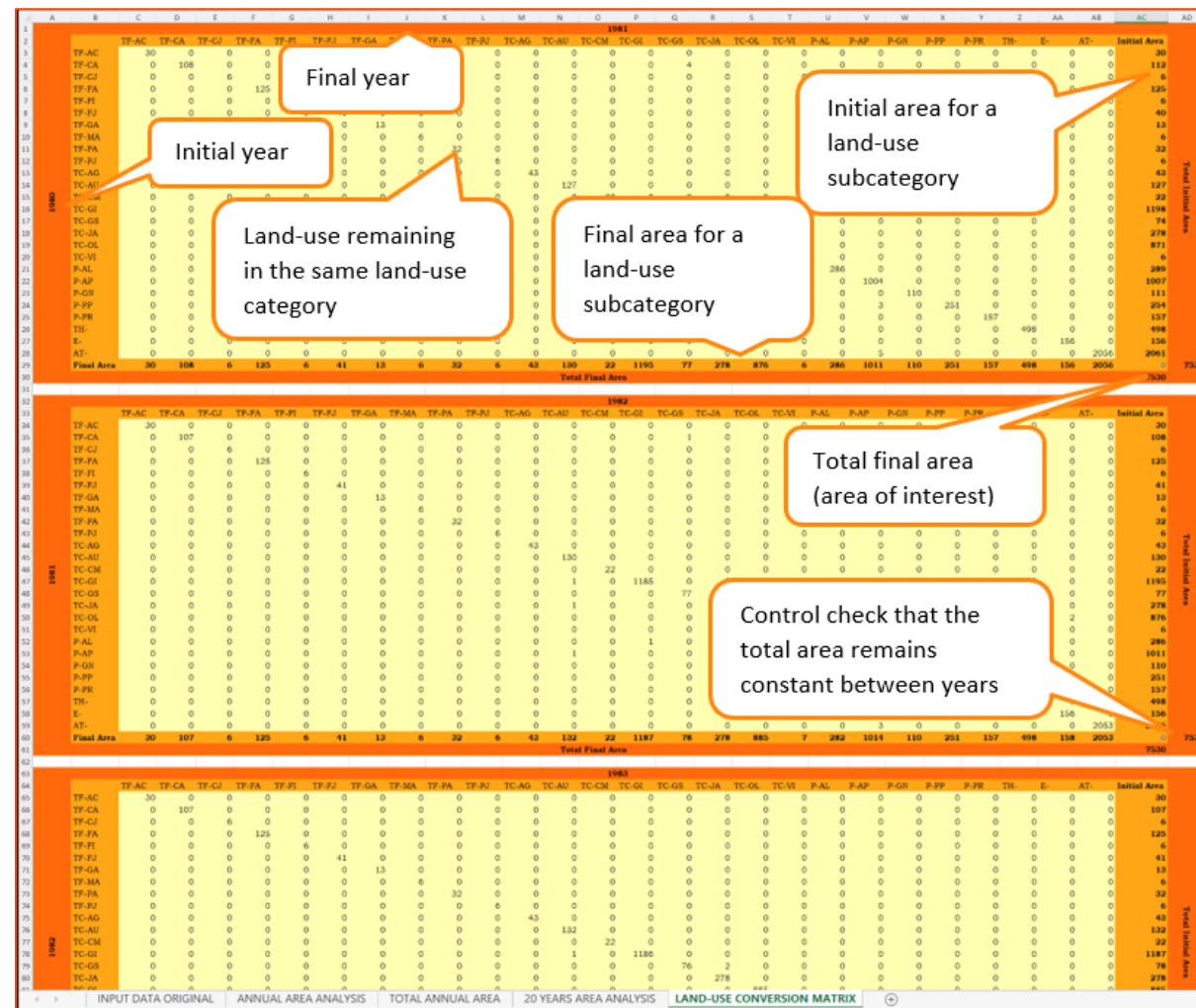
Land-Use Categories	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
TF	360	360	360	367	367	367	367	367	367	367	367	367	367	367	367	360	360	360	360	360
TF > TF	345	345	345	346	346	346	346	347	349	349	354	354	354	354	357	350	350	351	353	353
TF-AC > TF-AC	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
TF-CA > TF-AC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-CJ > TF-AC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FA > TF-AC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FI > TF-AC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-GA > TF-AC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-MA > TF-AC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-PA > TF-AC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FJ > TF-AC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-CA > TF-CA	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
TF-AC > TF-CA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-CJ > TF-CA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FA > TF-CA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FI > TF-CA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FJ > TF-CA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-GA > TF-CA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-MA > TF-CA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-PA > TF-CA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FJ > TF-CA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-CJ > TF-CJ	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
TF-AC > TF-CJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-CA > TF-CJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FA > TF-CJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FI > TF-CJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FJ > TF-CJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-GA > TF-CJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-MA > TF-CJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-PA > TF-CJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FJ > TF-CJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FA > TF-FA	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
TF-AC > TF-FA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-CA > TF-FA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-CJ > TF-FA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FI > TF-FA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FJ > TF-FA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-GA > TF-FA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-MA > TF-FA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-PA > TF-FA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FJ > TF-FA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FI > TF-FI	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
TF-AC > TF-FI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-CA > TF-FI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-CJ > TF-FI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FA > TF-FI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FJ > TF-FI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-GA > TF-FI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-MA > TF-FI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-PA > TF-FI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FJ > TF-FI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FJ > TF-FJ	40	41	41	42	42	42	42	42	45	45	49	49	50	50	52	52	52	53	55	55
TF-AC > TF-FJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-CA > TF-FJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-CJ > TF-FJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FA > TF-FJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-FI > TF-FJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-GA > TF-FJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TF-MA > TF-FJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



# FAO LoGlc tool (rel.1.2.en.1) | outputs

## LAND-USE CONVERSION MATRIX

- Land-use conversion matrices for the annual changes for all LU subcategories
- Covers the whole GHGIP & back-casted years
- It can be used to report in CRT4.1 & in the NID



# FAO LoGlc tool (rel.1.2.en.1) | next steps



- Collecting comments from expert review
- Performing improvements
- Releasing next version of the LOGIC tool

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# FAO and the Enhanced transparency framework

[www.fao.org/climate-change/our-work/what-we-do/transparency/](http://www.fao.org/climate-change/our-work/what-we-do/transparency/)

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*Thank you !*

