

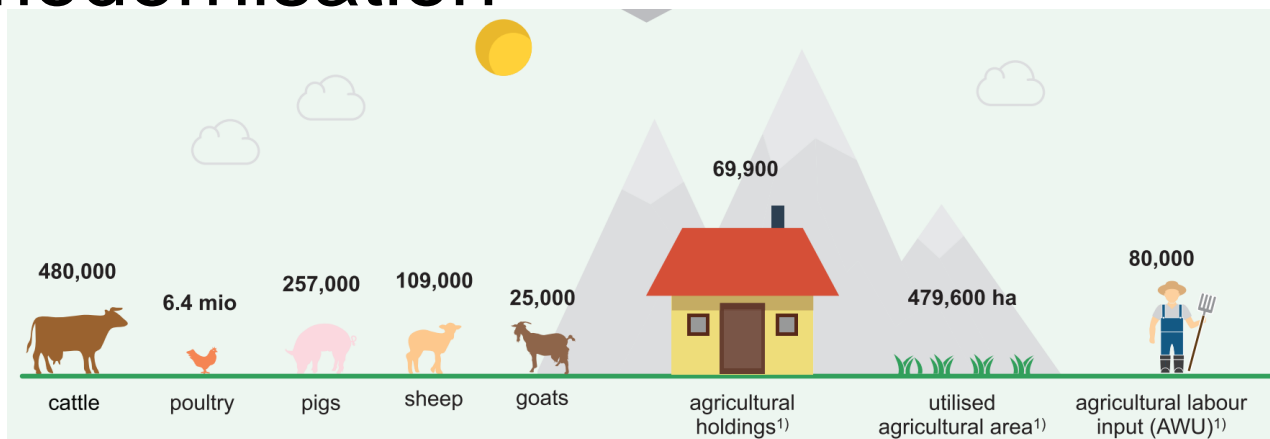


Modernisation of Agricultural Statistics in Slovenia

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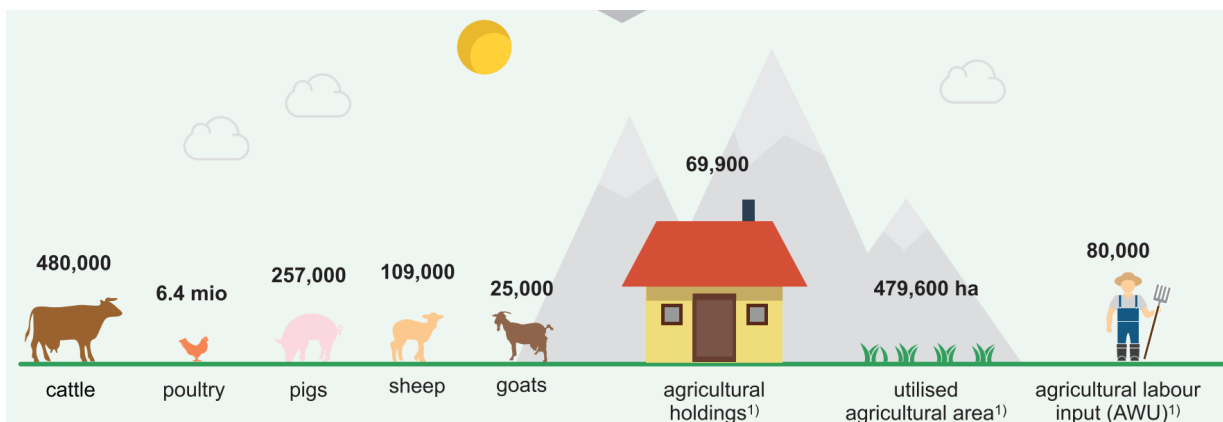
Agricultural Census 2020

- Administrative census
- Register data integration
 - Tabular
 - Geospatial
- Project on modernisation



Agricultural Census 2020

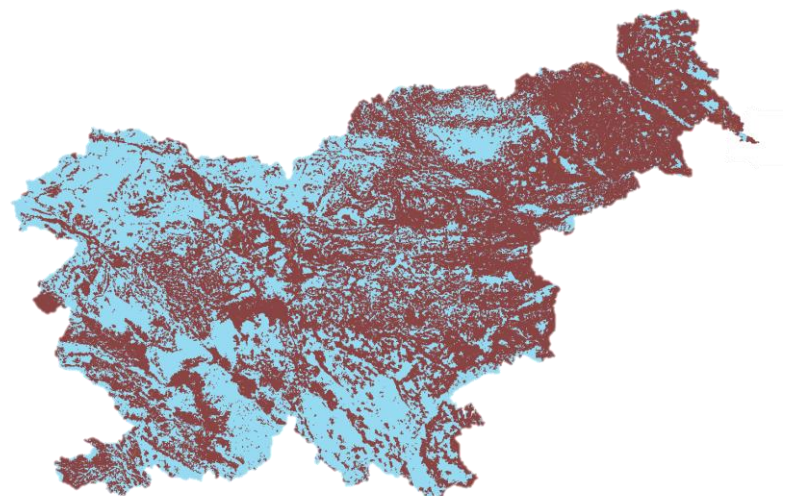
- Ownership of agricultural land
- Land structure
- Crop rotation analysis
- Rough grazing
- Irrigable land



Geospatial data

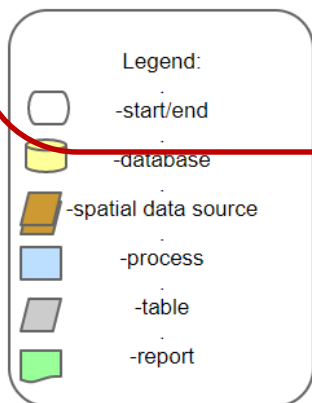
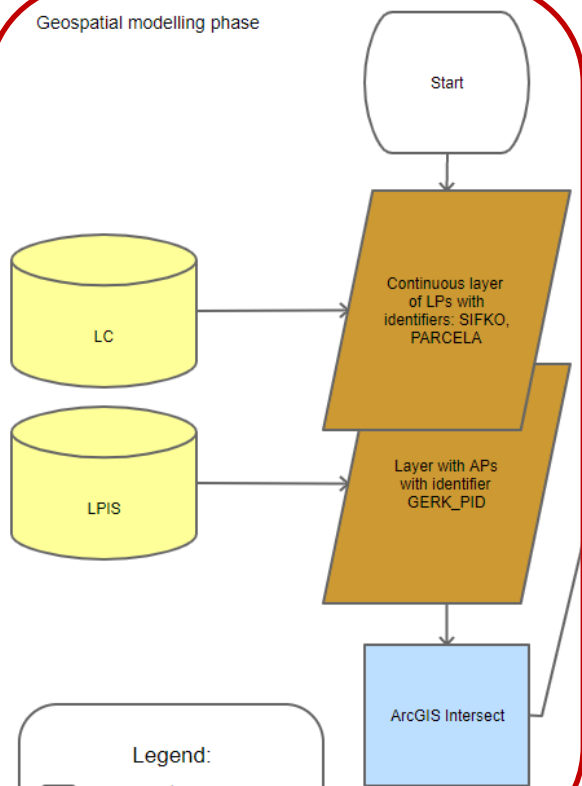
- LPIS-Land Parcel Identification System
 - Agricultural plots
- Land cadastre
 - Land parcels

OBJECTID *	Shape *	GERK_PID	AREA	RABA_ID	Z_AVG	NAGIB_AVG	Shape_Length	Shape_Area
1	Polygon	5843723	144,6331	1230	37,388	7	82,741399	144,633109
2	Polygon	4924153	872,0172	1100	88,142	22	231,506804	872,017209
3	Polygon	4754733	2379,6051	1230	212,191	11	199,117846	2379,605133
4	Polygon	4754735	322,2853	1230	256,948	5	75,66479	322,285319
5	Polygon	4881483	471,1585	1211	127,561	30	112,867387	471,158509
6	Polygon	5683550	525,8092	1300	495,658	12	113,872471	525,809165
7	Polygon	5683571	498,0408	1131	447,446	5	189,750076	498,040776
8	Polygon	5655769	1119,8007	1300	454,668	8	191,071748	1119,800657
9	Polygon	4064857	3154,0833	1230	89,269	13	318,801192	3154,083289
10	Polygon	6026397	410,6126	1100	335,693	2	116,104546	410,612646
11	Polygon	6026401	140,5769	1222	330,17	7	58,38463	140,576865
12	Polygon	6026429	1403,2301	1610	38,714	7	296,404953	1403,230141
13	Polygon	6097705	343,9156	1300	482,871	12	74,571947	343,915623
14	Polygon	4049038	10471,7409	1300	429,703	15	756,523629	10471,740878
15	Polygon	4045011	3499,1316	1100	64,109	8	254,114434	3499,131626
16	Polygon	4045014	628,6875	1230	66,161	3	96,675979	628,687516
17	Polygon	4045018	324,2983	1230	62,089	10	148,54916	324,298322
18	Polygon	6045523	4764,9037	1300	497,776	17	374,977565	4764,903740

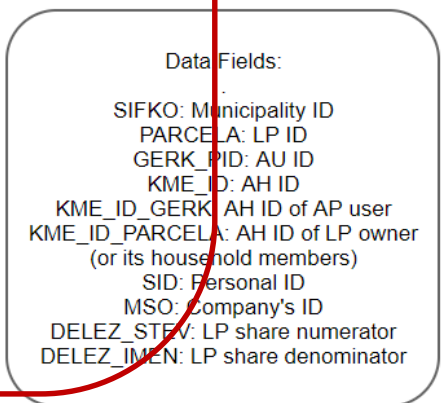
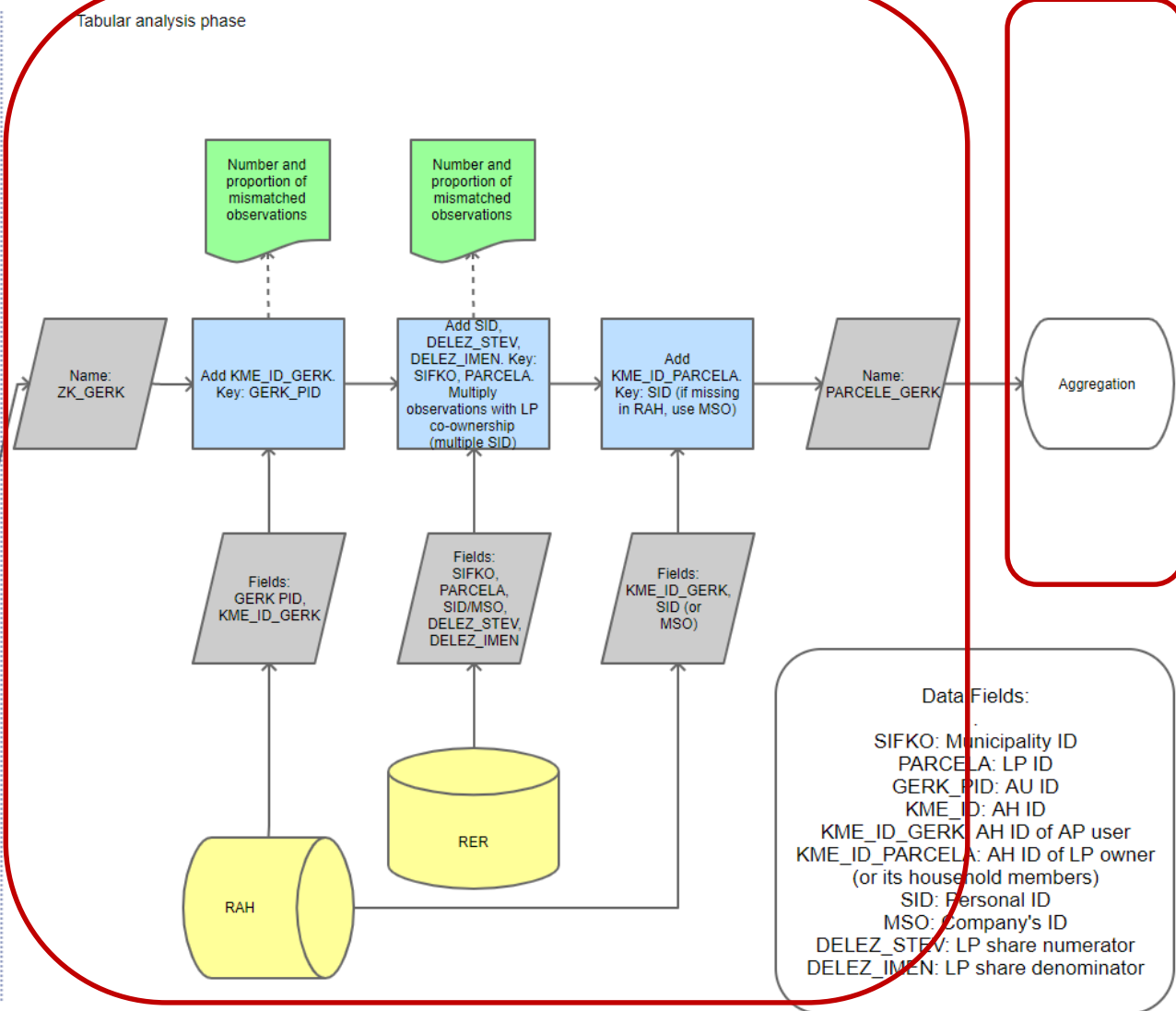




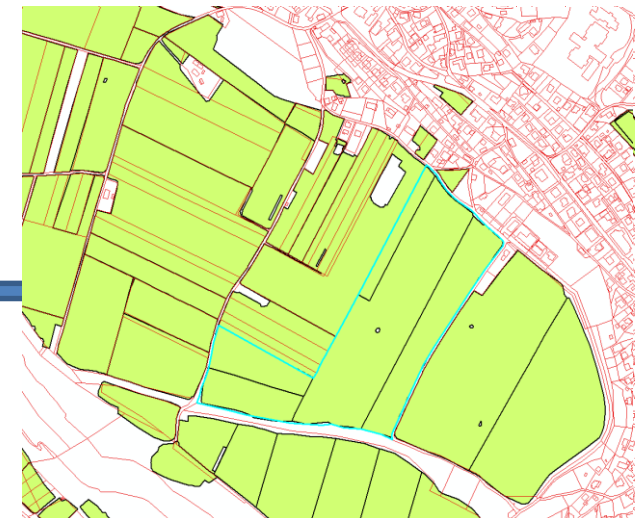
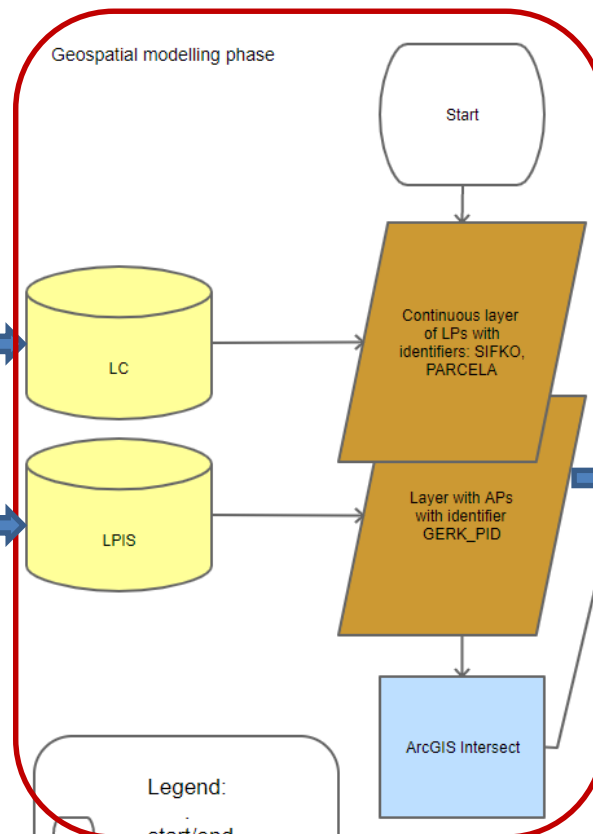
Geospatial modelling phase



Tabular analysis phase



Geospatial modelling phase

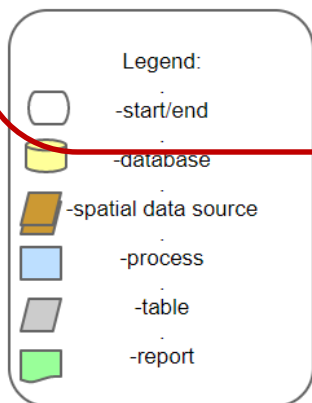
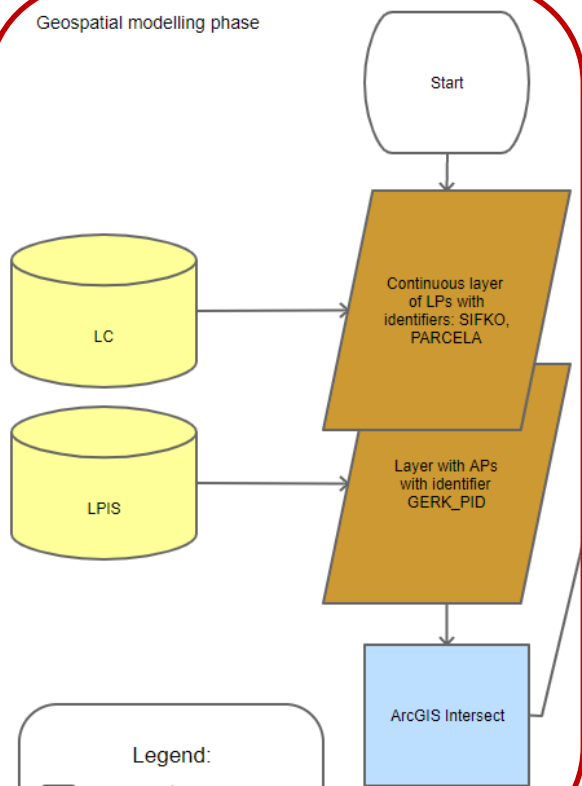


Legend

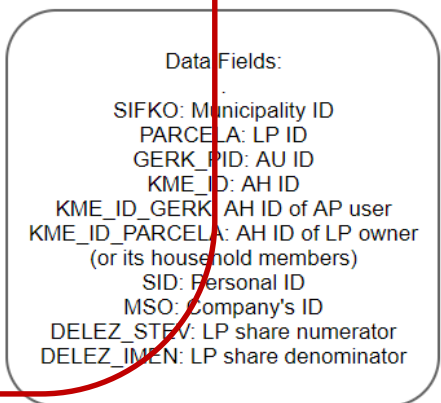
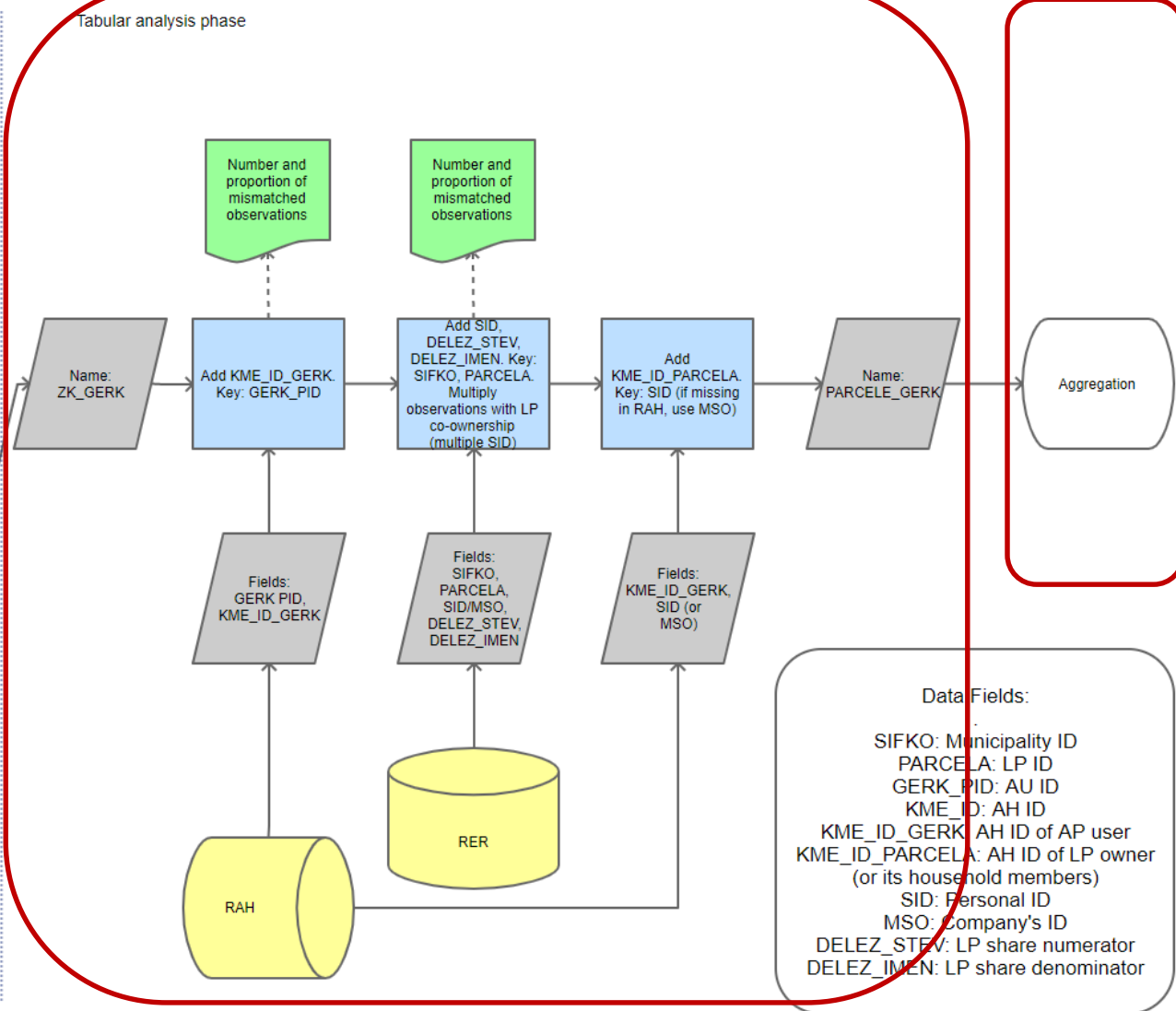
- Land Parcel
- Agricultural Plot



Geospatial modelling phase



Tabular analysis phase

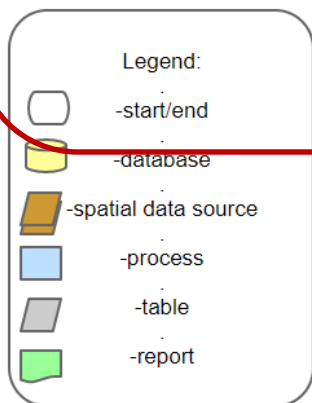
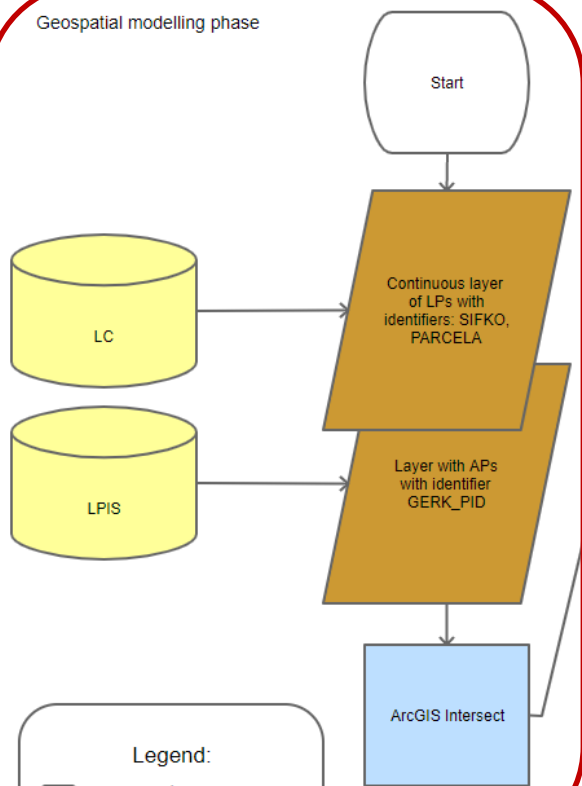


Tabular analysis phase

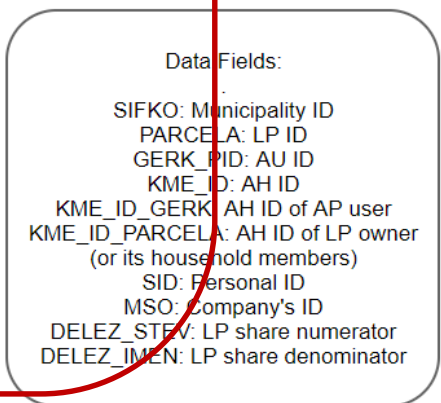
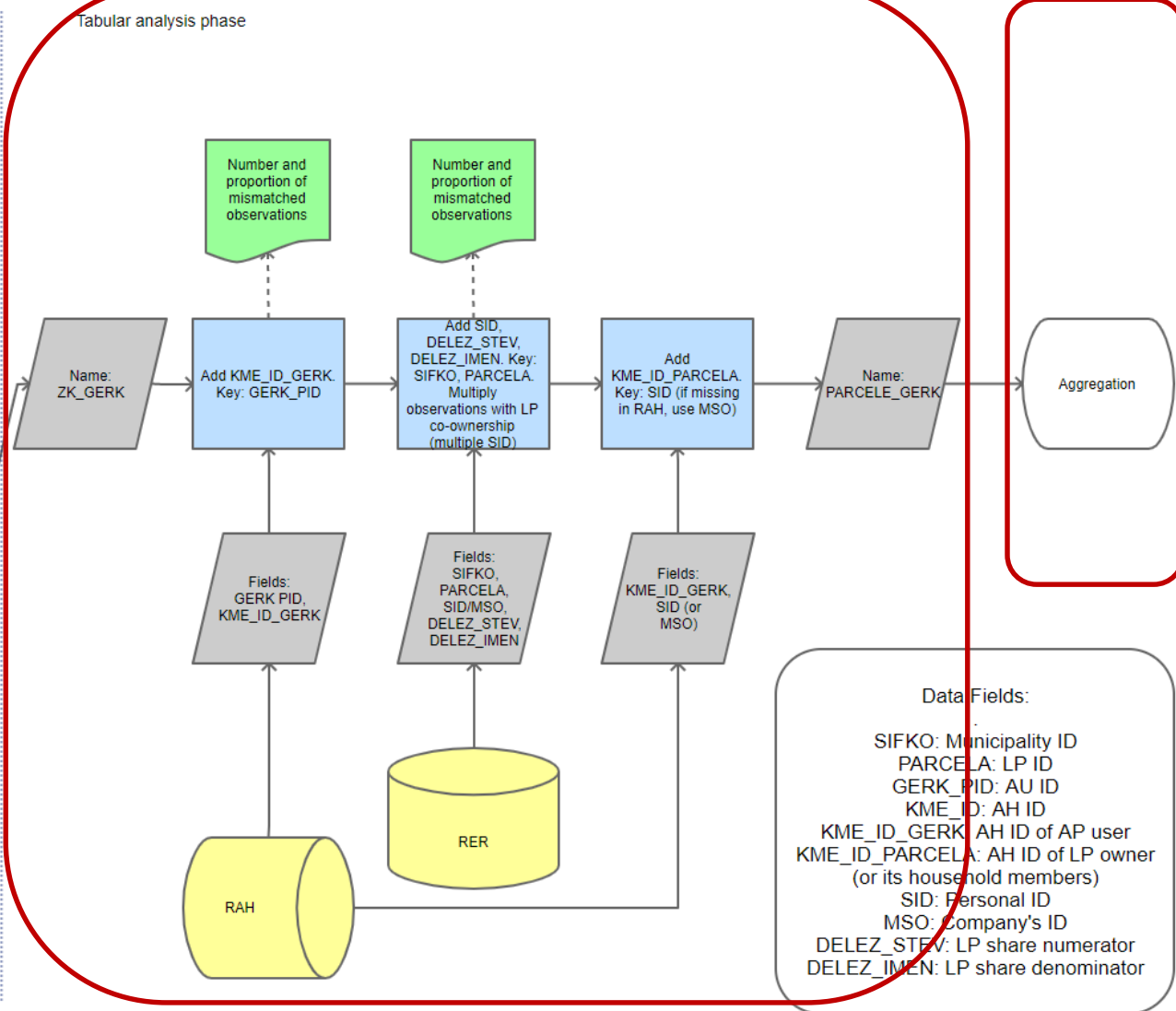
- Register of Agricultural Holdings:
 - Agricult. Plot (AP) users and
 - their household members
- Real Estate Register
 - Land parcel (LP) owners
- Is LP owner the same as AP user?



Geospatial modelling phase

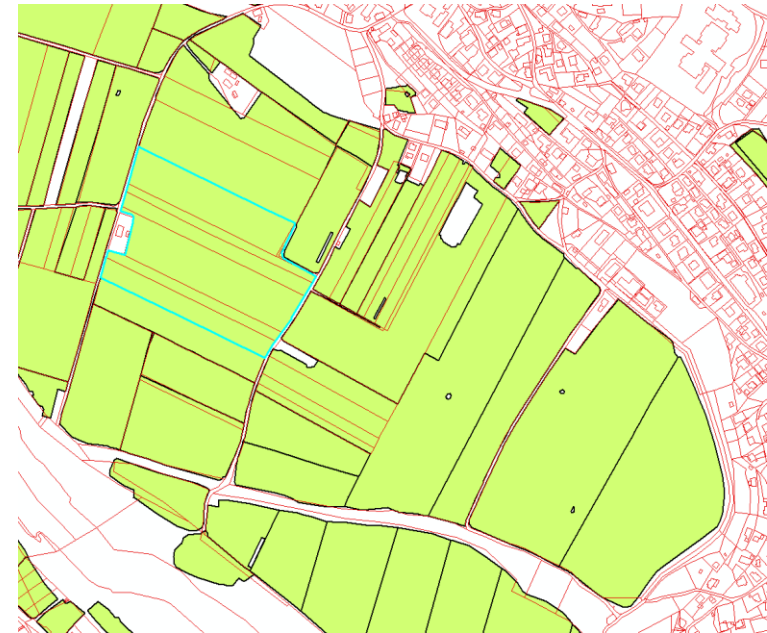


Tabular analysis phase



Aggregation

1. By land parcel
2. By agricultural plot
3. By agricultural holding



Ownership share	LP Minimal share	LP Major share	LP Real share
AP Minimal share	Aggregation 1	Aggregation 4	omitted (illogical)
AP Major share	Aggregation 2	Aggregation 5	omitted (illogical)
AP Real share	Aggregation 3	Aggregation 6	Aggregation 7

Validation

- Compare with AC 2010, FSS 2013 & 2016
 - Frequencies (on country level)
 - Areas (on country and agricultural holding level)
- Most comparable approach
- Aggregation 1: minimal share of LP and AP
- < 5% difference

Conclusions

- Enables full capture at any time
- No respondent burden
- High precision
 - Plots instead of holdings
 - Land use differentiation
- Various aggregation possibilities
- Reusable



Thank you!

Comments, questions?