



RP aggregation

- Method to overcome non feasibility for measurement of the inspected RP
- LUI of the selected RP should be interpreted
- LUI limits should match the adjacent LPIS RP boundaries
- What is a match?
- What is NOT a match?

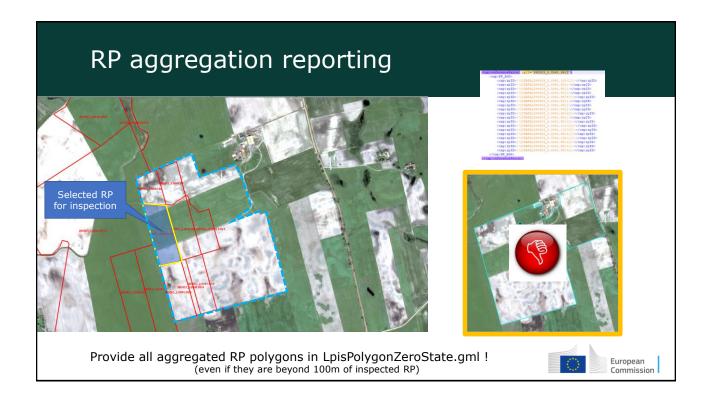


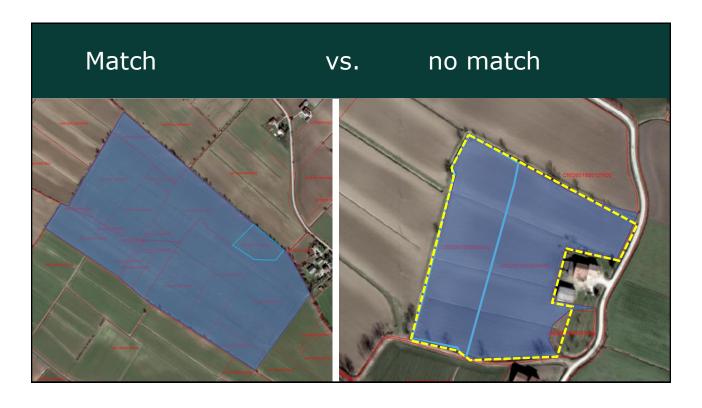
RP aggregation reporting

If RP aggregation is applicable, than report:

- RP FSM = true
- RP_MEA observed/measured in m2
- all LC classes found on aggregation
- area difference and % (agg ref sum)
- · classification correctness for aggregation
- possible contamination only for inspected parcel (+ point location)
- possible critical defect only for inspected parcel (+ point location)
- · possible cause of non-conformity







Content

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Congruency test application

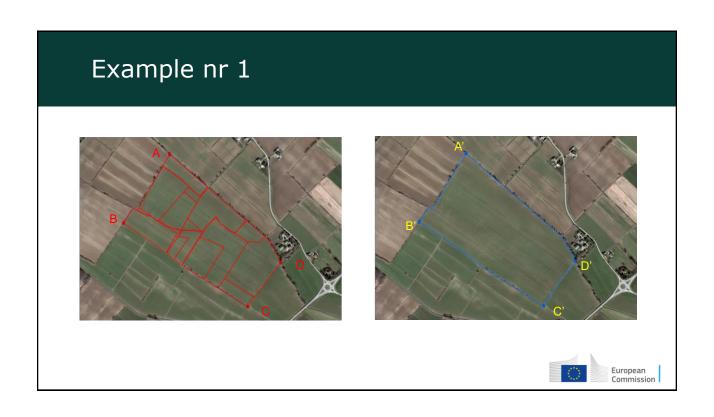
Application	What do we compare?	What do we need as an outcome?
Combined inspection	CAPI representation with GNSS measurement	a shift - to combine two measurements
Upkeep process	RP polygon with (most recent) imagery	scaling, rotation as a proof for change detection
ETS inspection – RP aggregation	RP polygons aggregation with ETS measurement	Validation of the aggregation



European

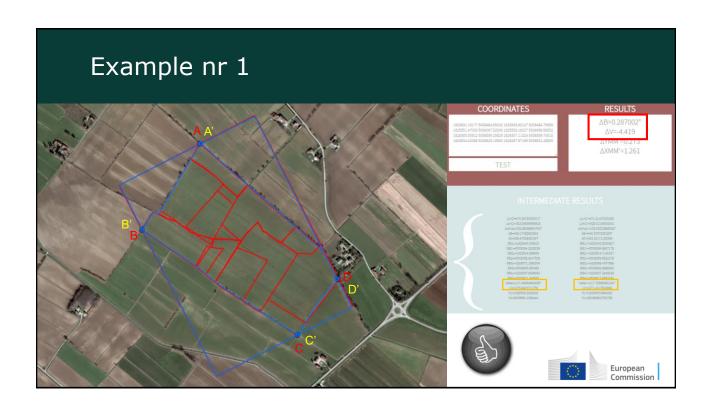
Commission

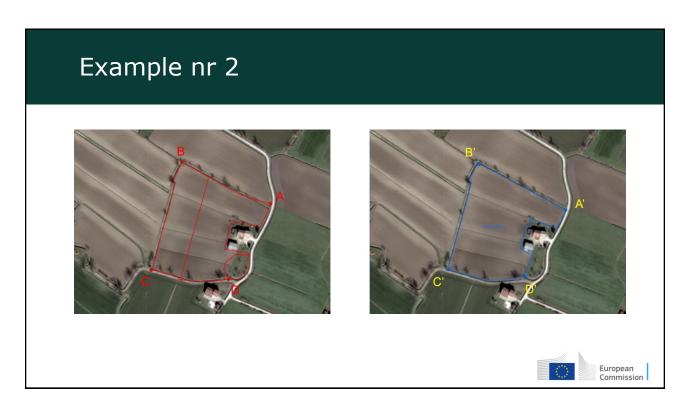
Methodology ETS measurement , 1. Identify 4 points on the first representation i.e. RP aggregation (ABCD) 2. Identify points second representation i.e. **ETS** measurement (A'B'C'D') 3. Calculate the AABB's* 4. Compare the results - validation AABB's The length of the vectors $(v_1 \text{ and } v_2)$ (< 2.5 m **) The angle of the vectors (β_1 and β_2) $(<1^{\circ}**)$ A tool available: https://lpis.jrc.ec.europa.eu/tools/congruency_test.php#data

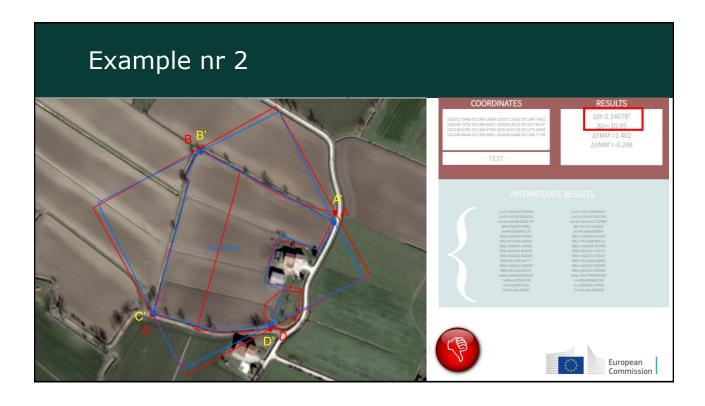


* axis aligned bounding box

** thresholds to be confirmed







Conclusion

- the congruency test as a RP aggregation validator
- applicable for parcels feasible for measurement and
 - for parcels with area-conforming result
- we continue to work on thresholds adoption



