

National Paying Agency under the Ministry of Agriculture Blindžių Str. 17, 08111 Vilnius, Lithuania, tel. (+ 370 5) 252 6999, fax. (+370 5) 252 6945 www.nma.lt

Experience with Sen4CAP in Lithuania

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Outline

- 1. Main goals for Sen4CAP results
- 2. 2020 claim year with Sen4CAP
- 3. Reduced fieled visits with Sen4CAP
- 4. Lessons learned
- 5. Link with NIVA project





Main goals for Sen4CAP results

- Pilot the monitoring approach as much as possible
- Monitor the main activities/requirements
- Assess the quality of the algorithms
- Assess the timing of the data and its correlation with the existing IACS workflows





LET'S CREATE A PROSPEROUS COUNTRY TOGETHER!

2020 CY with Sen4CAP

- Agreed on the transmission of declaration dataset and the receipt of Sen4CAP results
- 2. Dates adjusted to inspections timeline
- Differnce between planed and the actual date with results upload
- First results delay caused of testing cloud mask toolbox Sen2COR, better results with MAJA

- Maries

Version	Declaration dataset reception date	% of parcels	In situ data	All algorithms results	Algorithms results			Comments
					L4A	L4B	L4C	
1	Previous year data set	100%		01/04	+			Land cover classification by customized configuration file (crop grouping by land cover) L4A Results uploaded to FTP 14/05
2	Previous year data set	100%		01/05	+			Land cover classification by customized configuration file (crop grouping by land cover) L4A Results uploaded to FTP 27/05
3	04/05 (Real upload date – 14/05)	40% (12/05 107971 parcels – 10%)		13/05	+			Land cover classification by customized configuration file (crop grouping by land cover+ winter crop type) L4A Results uploaded to FTP 11/06
4	18/05 (skipped)	60%		27/05		+		L4B Results uploaded to FTP 30/06 with 28/05 declared parcels
5	01/06 (Real upload date – 01/06)	80% (28/05 545282 parcels – 50%)	27/05	10/06	+	+		In situ data for spring/ winter crops L4A Results uploaded to FTP 26/06; L4B to FTP 30/06
6	15/06 (Real upload date – 15/06)	90% (10/06 819063 parcels – 73%)	10/06	24/06		+		In situ data for Grasslands indicating mowing/grazing L4B to FTP 01/07
7	01/07(Real upload date – 02/07)	95% (30/06 1173502 parcels – 98%)		08/07	+	+	+	L4A Results uploaded to FTP 13/07; L4B to <u>FTP 16/07</u> (OLD) L4B to <u>FTP 29/07</u> (ALL parcels); L4C to <u>FTP 09/02</u>
8	22/07 (Real upload date – 24/07)	100%	15/07	29/07		+	+	In situ data for Catch crop (PS), fallow land, spring (nitrogen fixing crops), grasslands(mowing/grazing) L4B to FTP 18/08; L4C to FTP 09/02
9		100%		12/08	+	+	+	L4A Results uploaded to <u>FTP 17/09</u> ; L4B to <u>FTP 18/08</u> ; L4C to <u>FTP</u> 15/09
10		100%	12/08	02/09		+	+	In situ data for Catch crop (IS), spring/ winter crops L4B to FTP 15/09; L4C to FTP 15/09;
11		100%	22/09	21/10		+	+	In situ data for Catch crop (IS), (PS)



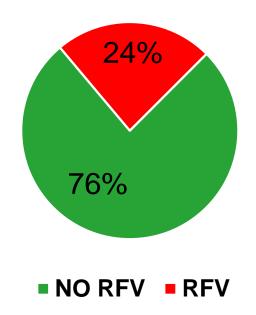


OTSC 2020 campaign - reduced RFV by using Sen4CAP results

- First time Sen4CAP results L4A, L4B after validation used to confirm compliance without field visit
- CwRS images to measure area
- First time the failed grass mowing parcels and falsely declared arable
 land parcels checked and identified on whole LT territory

OTSC 3% Sample						
	Reduced RFV					
	RFV fields	fields				
Crops	7945	36159				
Grasslands	2742	11849				

44104 OTSC FIELDS SUMMARY









Lessons learned – a big step forward

- Used 2020 Sen4CAP L4A and L4B results at operational level for SAPS controls.
- Simulated 50-250 Euro threshold calculations according provided compliance results from Sen4CAP.
- Geopedia visualization tool on web browser helped to introduce CbM approach to Ministry of Agriculture and farmers.
- Increased knowledge of Sentinel data usage in practice by attending live training workshops.
- Trained skills on requirements writing and it is useful for in house projects and international projects like NIVA, DIONE, ENVISION.







Lessons learned – what should be improved

- In case when grassland detected instead of arable land or vice versa, those parcels are not transferred to other product for further observation of land cover related activities.
- Tracking parcel's "life- cycle" information over the different product periods is not addressed.

 There is a need to re-check historic observation values of the parcel.
- The reliable results of grassland maintenance observations are strongly affected by grazing activity (parcels observed as not compliant).







Sen4CAP results at the beginning of declaration – link with NIVA project

Link with NIVA Use Cace 2 Prefilled application – NPA lead

Check if any results form Sen4cap crop/land cover type, activity monitoring:

- can be gathered at the beginning of declaration
- can be available during declaration period as preliminary crop type or activity data
- analyse at what concrete time and of how much quantity (crop types/ parcels/area/farmers).

Version	GSAA as input data	Results date	Results
1	2019	01/04	Arable land, Grassland, Permanent Crops, Follow
2	2019	01/05	Arable land, Grassland, Permanent Crops, Follow
3	2020 – 10% parcels	15/05	Arable land, Grassland, Permanent Crops, Follow, Winter crops, Winter rape
4	2020 – 50%	10/06	Crop type

At the beginning of declaration perform preliminary checks and control declaration of:

- 1. Permanent grasslands on arable land;
- 2. Winter crops with other crops;
- 3. Winter rape with other crops;





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THANK YOU FOR YOUR ATTENTION

