MINISTRY OF AGRICULTURE







Supporting agricultural policy with cooperation and administrative data Zsombor PÁLL economic analyst

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Content





Cooperation between Ministry of Agriculture and Hungarian Central Statistical Office,

integration of domestic policy data demand into data collections

Use of credit register data to replace data collection

Development of IT system related to CAP





Cooperation between Ministry of Agriculture and Hungarian Central Statistical Office, integration of domestic policy data demand into data collections

Cooperation: integrated farm statistics (IFS)





Integration of policy demand

Ministry: coordination of consultations with stakeholders (chamber of agriculture, sectoral associations, public authorities, research institutes)

Review of questionnaire

Communication with farmers

Administrative data

Cooperation: integrated farm statistics (IFS) data topics



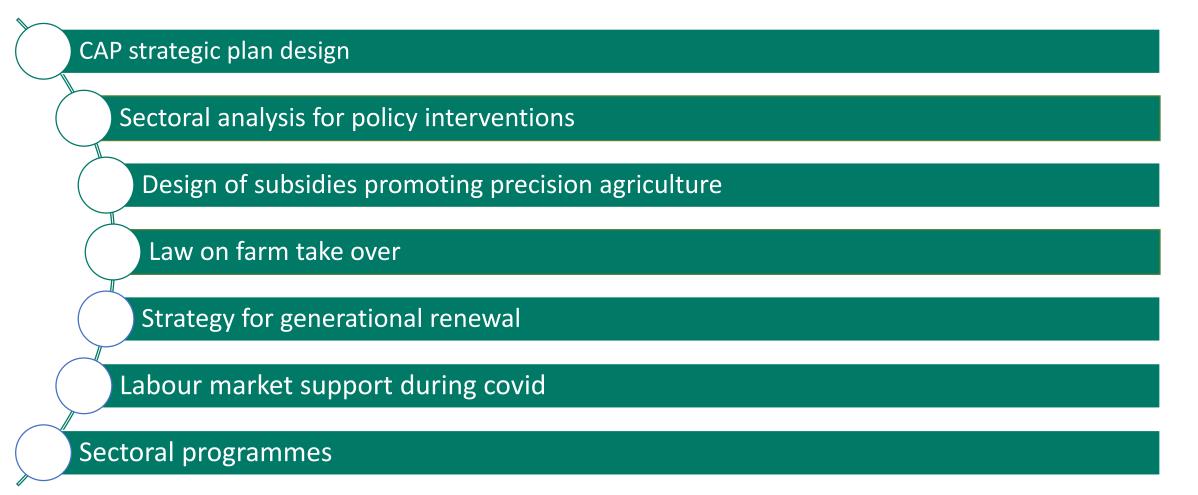




Cooperation: integrated farm statistics (IFS) policy application



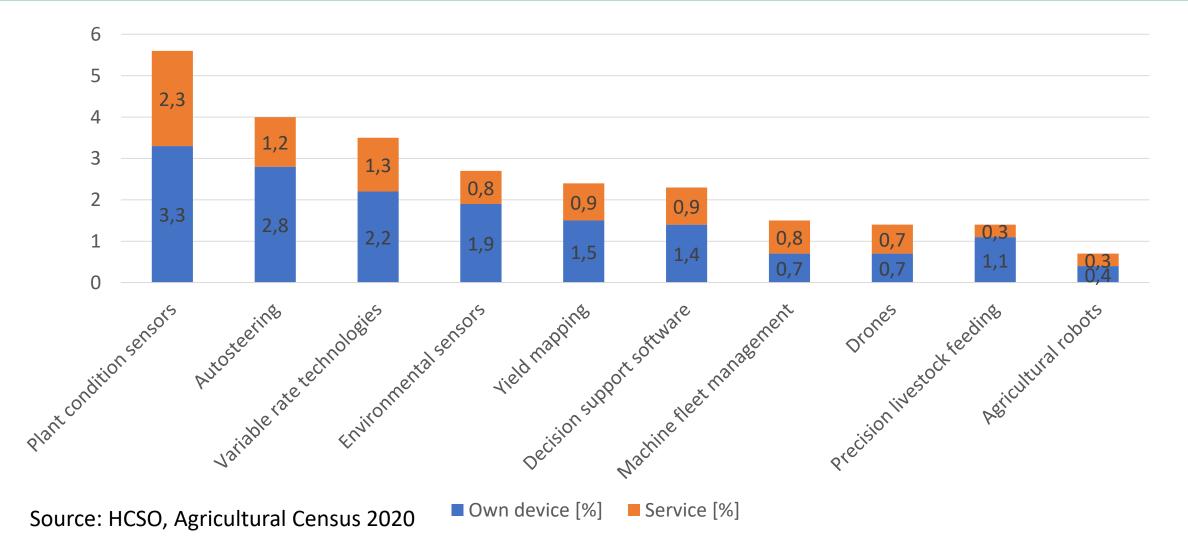




Share of farms using precision agriculture devices in 2020 (%)







Use of precision agriculture devices according to SO size classes in 2020 (%)





Standard output size calss	Decision support software	Yield mapping	Machine fleet manage ment	Autost	Variable rate technologies	Environ mental sensors	Plant condition sensors	livestock	Agricult ural robots	Drones
Without standard										
output	2	2	2 1	. 1	. 1	. 1	. 3	1	. 1	1
<4 000 euros	1		L 1	. 1	. 1	. 1	2	1	. 0	1
4 000–14 999										
euros	2	2	2 1	. 2	. 3	3 2	2 6	1	. 1	1
15 000–99 999										
euros	4	ļ.	1 2	9	8	3 5	5 12	2	. 1	2
100 000–499 999										
euros	10) 11	L 9	32	20	13	3 19	4	. 2	7
500 000– euros	26	5 22	2 32	2 48	36	5 29	17	14	3	12

Use of precision agriculture devices according to farm types in 2020 (%)

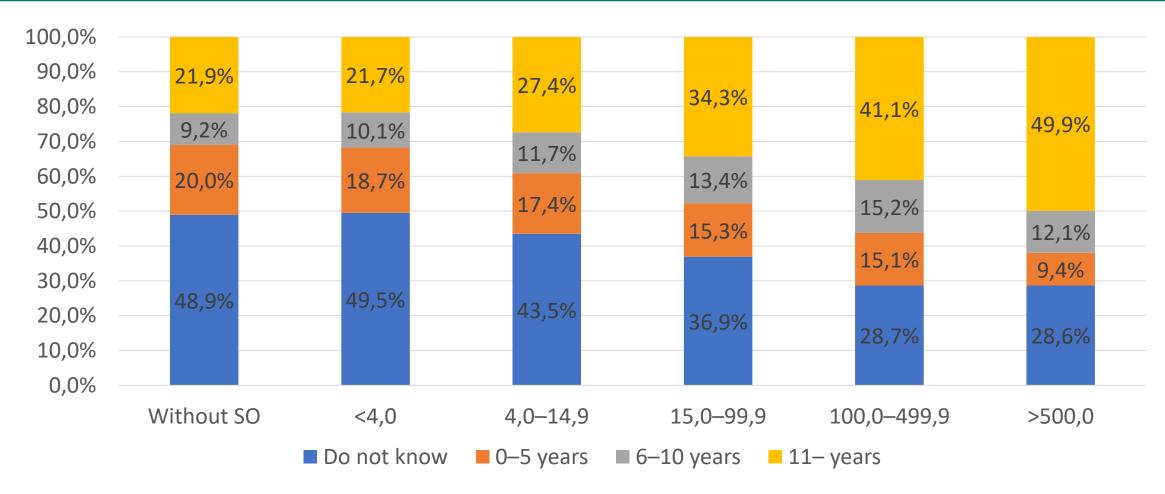




	Decision support software	Yield mapping			Variable rate technologies	Environ mental sensors	Plant condition sensors	Precision livestock feeding	Agricultu ral robots	Drones
Arable land	3	4	2	8	6	4	. 8	1	1	2
Horticulture	2	. 3	1	2	. 4	5	8	1	1	1
Plantations	2	. 2	1	1	. 2	3	7	0	0	1
Dairying, beef and sheep	2	2	2	2	2	2	. 3	4	. 1	1
Pig and pultry	1	1	1	1	1	1	. 1	. 2	0	1
Mixed cropping	3	3	1	4	5	3	7	2	1	2
Mixed animal										
husbanrdy	2	. 2	1	1	. 2	2	. 2	2	0	1

Share of farms according to standard output size classes (1000 euros) and planned active years of the manager (%)

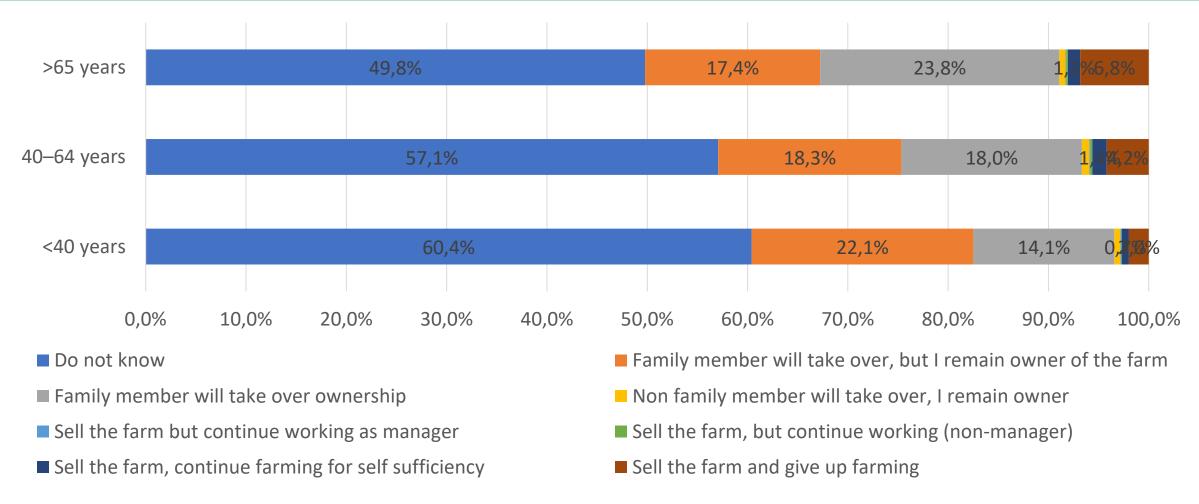




Share of farms according to age classes and generational renewal plans in 2020











Use of credit register data to replace data collection

Use of credit register data to replace data collection





Credit data collection since 2015, quarterly frequency, data providers: commercial banks

Central Bank of Hungary operates a register, commercial banks provide data on each credit contract, since 2020

Cooperation between Ministry, Institute of Agricultural Economics and CBH to use register data since 2020

Objective: decrease administrative burden, more comprehensive data

Quarterly data provision

Data protection: individual data anonimous, only technical identifiers

Gradual improvement of data quality, extension of register data

Members of the project









Database for agro economy



Professional support, coordination, management



Data collection,

processing, quality control

Data on credit

contracts

Structured databese, analysis, quality control

Credit register data: main data types





Legal form

Main activity (NACE)

SME categories

Credit attributes (objective, currency, market vs. subsidized loans)

Stock and new lendings, number of enterprises

Interest rate

Comparison of statistical and credit register data





Statistical data collection

- Credit stock and new lendings
- Aggregated data
- No data on credit size
- No data on credit duration
- Preferential loans total
- Main activity: predifined groups based on NACE08

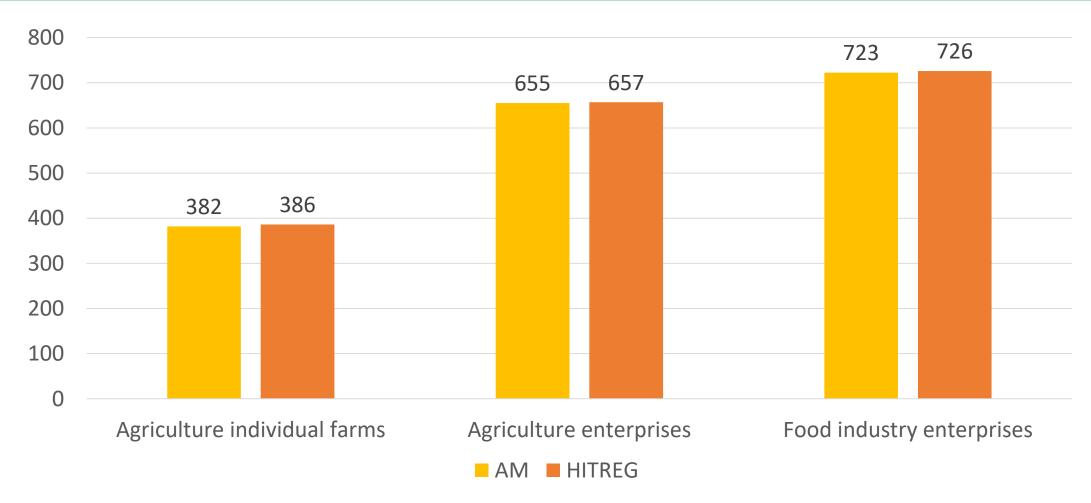
Credit register

- •Credit stock, new lendings, enterprise number, interest rate
- Micro data (credit contracts)
- Data on credit size and its distribution
- Data on credit duration available
- Detailed data on preferential loan schemes
- Main activity: detailed data NACE08 4 digit

Statistical vs. Credit register data in Q2 2023







Source: Institute of Agricultural Economics based on Central Bank of Hungary, Ministry of Agriculture

Comparison of register and statistical data in Q2 2023, agricultural enterprises





	AM	HITREG	Difference
	Million		
Arable land	237 330	230 599	-6 731
Animal husbandry	280 491	282 053	1 562
out of which poultry	87 335	87 009	-326
pig	94 676	95 295	619
cattle	90 477	92 320	1 843
Horticulture	47 198	46 883	-315
out of which vegetables	28 098	34 637	6 539
other	90 073	89 668	-405
Total	655 092	656 746	1 654

Source: Institute of Agricultural Economics based on Central Bank of Hungary, Ministry of Agriculture

Credit register data: experiences and outlook





Long project: use of administrative data demands time, iterative steps and good cooperation

Reduction of administrative burden: ministry will give up data collection in 2024

Wider range of data: much more attributes are available, more comprehensive picture on credit markets

Next steps: identification of data to be published, stakeholder consultations





Development of IT system related to CAP

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Objective: fulfil EU data provision obligations and meet domestic data needs

Data for Monitoring and evaluation

Implementation of CAP strategic plan

Evaluation, policy analysis, inform minister (executive data needs)

Development of IT system related to CAP: data for analysis, executives





Thematic working groups with stakeholders (e.g. ministry, paying agency, external experts)

Identification of data needs and calculation methods

Investment subsidies (mainly natural quantities, e.g. hectare of new greenhouse or piece of tractors)

Classifications: SMEs, election districts, wine regions, farm type

Data according to size categories of beneficiaries and of investment

Development of IT system related to CAP: data for analysis, executives





Categorization of investment: type: (e.g. machinery, building, plantation, renewable energy, IT), sub-type: e.g. building: greenhouse, storage, cold store...)

Capacity, technical parameters

CAP I. and II. pillar interventions categorized same way

Application: policy evaluation, analysis of agricultural investments, investment data production

Thank you for your attention!

