



Inventory of Methods and Tools

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Inventory of methods and tools

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INVENTORY OF METHODS AND TOOLS



Purpose:

- **Aim:** To create a comprehensive inventory of existing methods and tools used in the design and implementation of CAP Strategic Plans in Member States.
- **Knowledge Transfer:** Support the transfer of knowledge, skills, and capabilities to end users across Member States.

Output:

- **Inventory of Methods and Tools Report:** Published in September 2023.
- **Online Inventory of Methods and Tools:** Accessible to stakeholders via the Tools4CAP project website.
- **Continuous Monitoring and Updates:** Includes continuous monitoring for new methods and tools, with next scheduled updates in December 2026.

INVENTORY OF METHODS AND TOOLS



Categorisation of methods and tools

Stakeholder needs assessment tools

Stakeholder needs assessment tools are tools based on qualitative methodologies that enable the involvement of multiple actors in the decision-making process.



Policy choices supporting tools

This category of tools encompasses tools based on different methodological approaches, but which have been developed in response to rapidly changing policy goals and instruments, and where data might be lacking or where no prior knowledge exists. They are based on logical solutions and facilitate decision making process.



Policy analysis tools for evidence-based decisions

These tools serve for generating (scientific or empirical) evidence through the analysis of policies, either ex-ante or ex-post, to inform decision-making, hence underpinning evidence-based policymaking.



Monitoring and data collection tools

These tools provide the necessary information for the realisation of the annual performance report, reporting both qualitative and quantitative information on the implementation of the CAP Strategic Plan by reference to financial data and to output and result indicators, including at regional level where relevant.

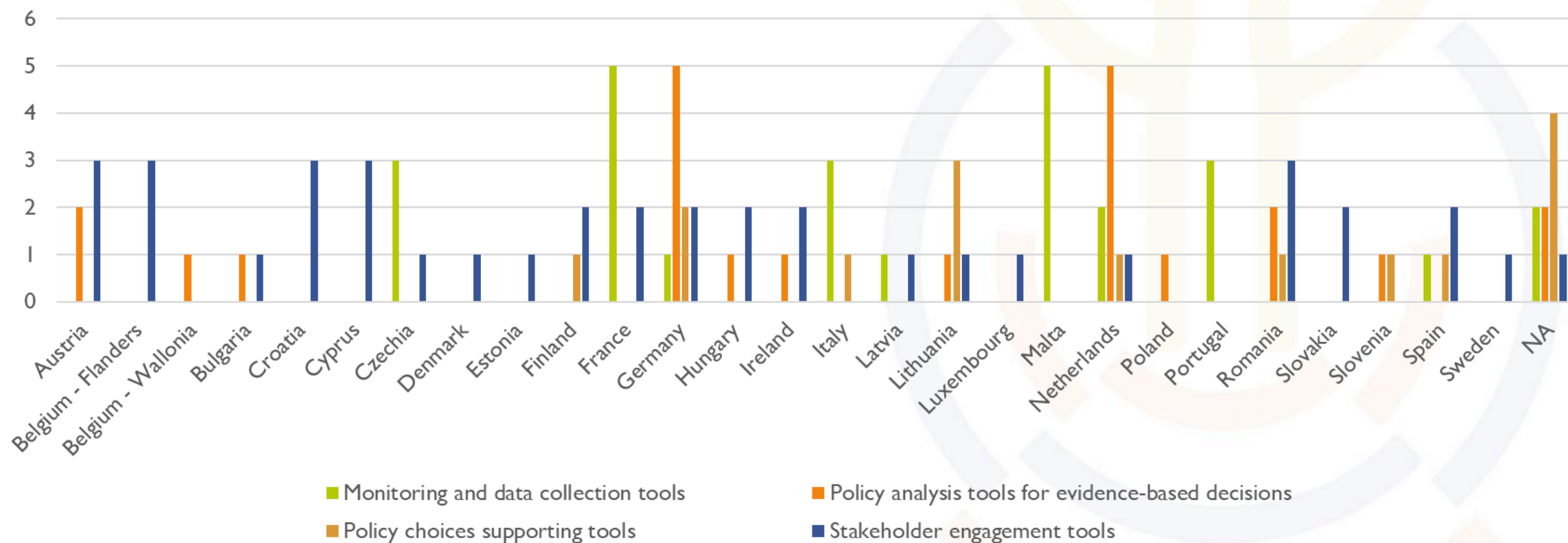


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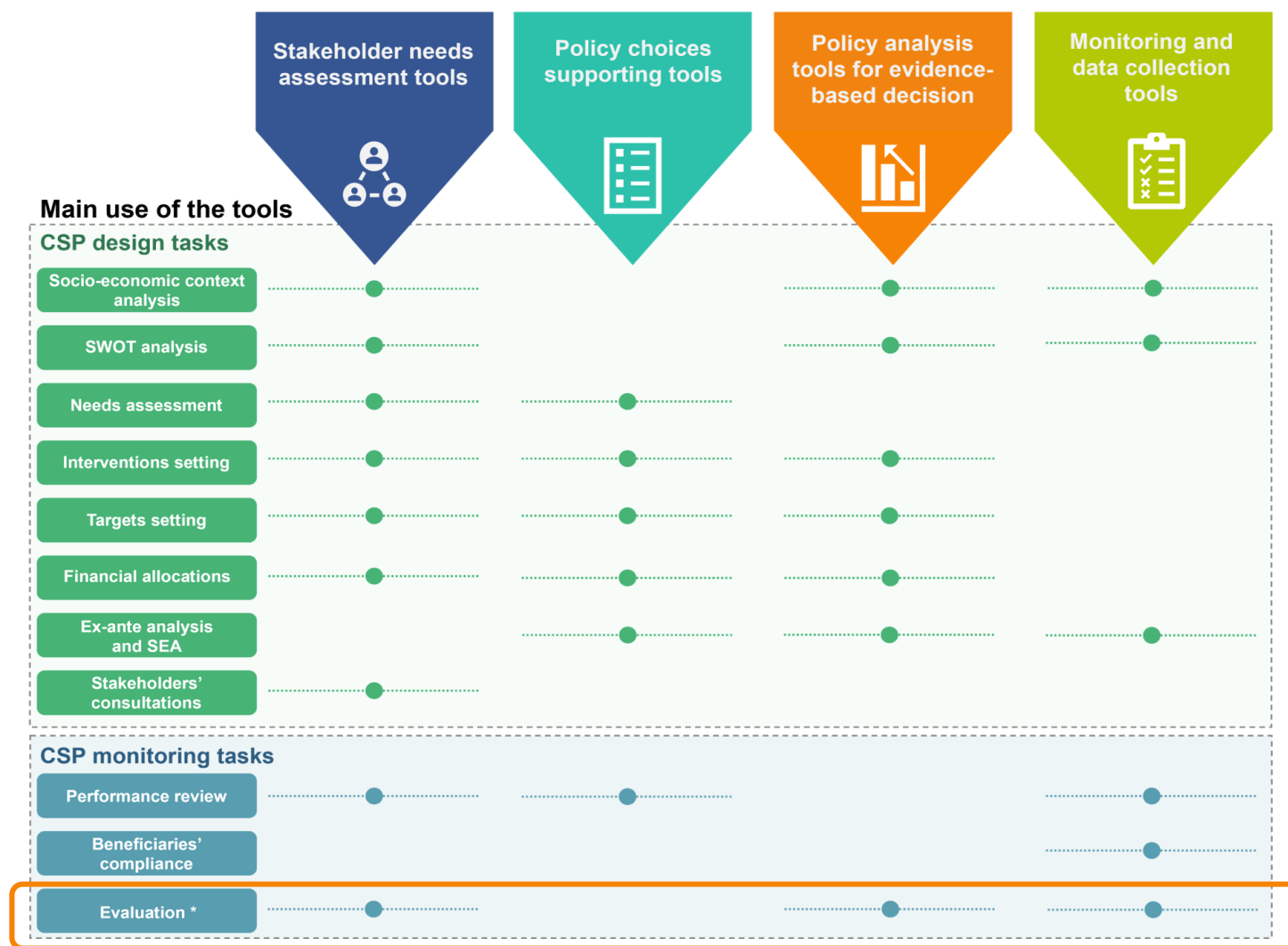
Overview of methods and tools:

- 89 Tools collected across all MS



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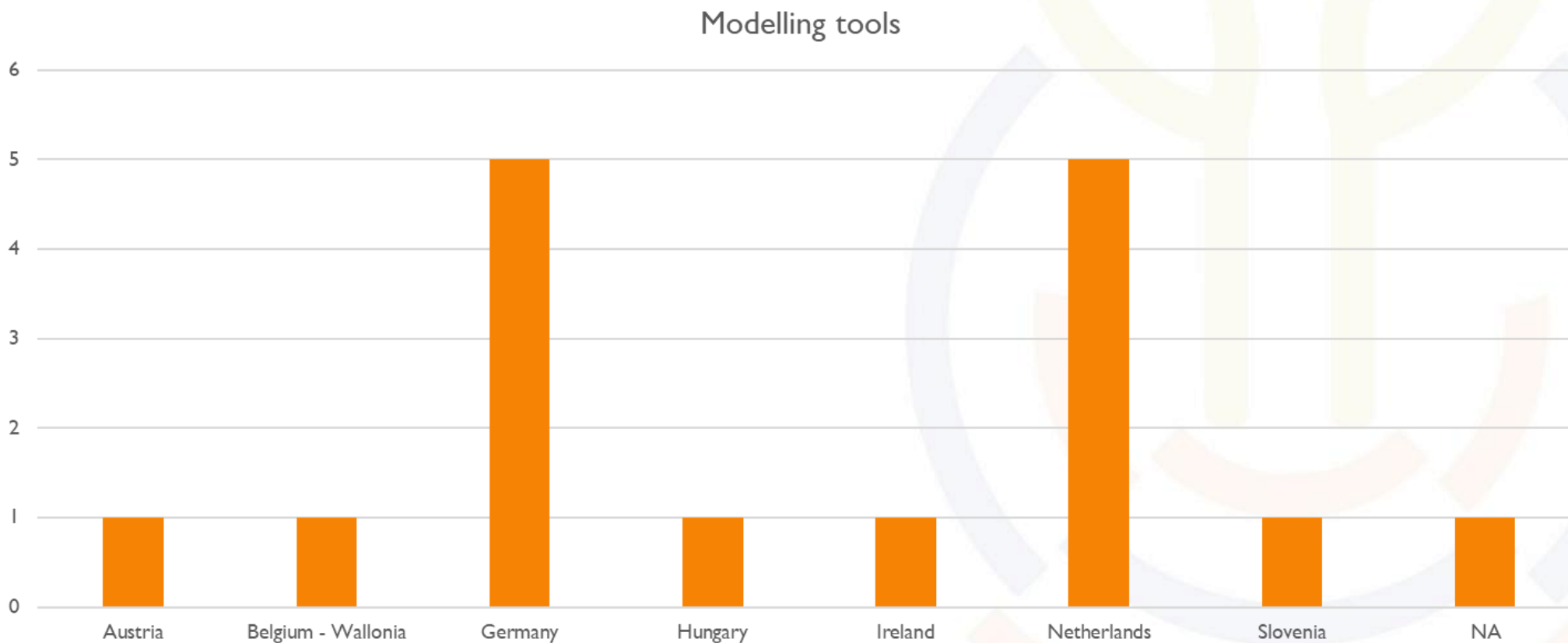
Links to CSP Design and Monitoring Tasks



INVENTORY OF METHODS AND TOOLS



Use of modelling tools



MODELLING TOOLS FOR EX-POST EVALUATION



Why using modelling tools?

- Provide quantitative indicators of the baseline
- Provide quantitative information on flows (trade but also possibly other flows) at different scales, commodity production, consumption, and prices, along with economic indicators like GDP and employment and environmental indicators like nutrient pressure.
- Often, such tools are multi-dimensional consistent with each other and the existing databases, allowing a qualitative assessment of the different assumptions made and results.
- Allows dynamic systems where many intertwined factors about the evaluated policy are being targeted to affect outcomes in numerous ways
- Modelling allows to connect different modelling modules
- It's rarely used on its own: restricting evaluation to a single method will not capture the complexity of the system we are operating in.

MODELLING TOOLS FOR EX-POST EVALUATION



TOOLS
4CAP

What indicators can you model?

Economic indicators

- **Farm level models** effectively cover farm income indicators, but **risk management integration** remains a challenge.
- **Modelling competitiveness** is well covered while **investment support** and **asset renewal** modelling need improvement.
- **Farmers' position in value chains** is only partially covered, with ongoing efforts to model organic output and forward pricing.

Environmental indicators

- **Climate mitigation measures** are well-covered while **renewable energy at farm level** remains a gap.
- **Soil management** is addressed by very few models.
- **Biodiversity indicators** require better data integration and enhanced modelling capabilities.

Social and rural indicators

- Addressing **structural change**, **rural poverty**, and **job growth** remains difficult due to the **lack of relevant data** in sectoral models.
- **Health and food safety** indicators are emerging but constrained by **data availability**.

FARM INCOME INDICATORS



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Models	1. Ensuring Viable Farm Incomes			
	Farm income	Income Volatility	Use of Risk Management Tools	Redistribution between farm types
Models identified for case studies				
Model 1. Joint models chain: Farm-Dyn, AGMEMOD, Eco-scheme Farm simulation tool (NL)	Green			
Model 2. CAPRI	Green	Green	Red	Light Green
Model 3. SiTFarm model	Green	Light Green	Light Green	Light Green
Model 4. Experimental evaluation methods	Light Green	Light Green	Light Green	Light Green
Model 5. GLOBIOM-CZE	Light Green	Red	Red	Red
Other models included in inventory of Task 2.1				
MAGNET	Orange	Red	Red	Red
MITERRA	Red	Red	Red	Red
FAPRI Ireland Model	Green	Red	Red	Red
FARMIS (DE)	Green	Green	Red	Green
IFM-CAP	Green	Green	Green	Green
KOBALAMI (NL)	Light Green	Red	Red	Red

Source: Tools4CAP 2024 (red = "impossible or very costly"; orange = "expensive or challenging extension"; light green = "feasible, straightforward extension"; green = "already covered")

COMPETITIVENESS INDICATORS



Models

2. Increasing Competitiveness (Productivity)

	Market shares	Age of Asset	Technology Adoption	Investment support
Models identified for case studies				
Model 1. Joint models chain: Farm-Dyn, AGMEMOD, Eco-scheme Farm simulation tool (NL)	Green	Green	Green	Green
Model 2. CAPRI	Green	Red	Light Green	Light Green
Model 3. SiTFarm model	Red	Light Green	Green	Red
Model 4. Experimental evaluation methods	Light Green	Red	Light Green	Light Green
Model 5. GLOBIOM-CZE	Green	Red	Green	Light Green
Other models included in inventory of Task 2.1				
MAGNET	Green	Red	Red	Orange
MITERRA	Red	Red	Red	Red
FAPRI Ireland Model	Red	Red	Red	Red
FARMIS (DE)	Green	Red	Green	Light Green
IFM-CAP	Red	Red	Green	Light Green
KOBALAMI (NL)	Red	Red	Red	Green

Source: Tools4CAP 2024 (red = “impossible or very costly”; orange = “expensive or challenging extension”; light green = “feasible, straightforward extension”; green = “already covered”)

CLIMATE MITIGATION



Models

4. Agriculture and Climate Mitigation

	Farm GHGs	GHGs per ha	Carbon Sequestration	Ammonia emissions per farm	Farm ammonia per ha	Renewable Energy per farm
Models identified for case studies						
Model 1. Joint models chain: Farm-Dyn, AGMEMOD, Eco-scheme Farm simulation tool (NL)	Green	Green	Green	Green	Green	Orange
Model 2. CAPRI	Light Green	Green	Green	Light Green	Green	Red
Model 3. SiTFarm model	Green	Green	Orange	Red	Red	Red
Model 4. Experimental evaluation methods	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
Model 5. GLOBIOM-CZE	Light Green	Green	Green	Light Green	Green	Red
Other models included in inventory of Task 2.1						
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MITERRA	Light Green	Green	Green	Light Green	Green	Red
FAPRI Ireland Model	Green	Green	Red	Red	Red	Red
FARMIS (DE)	Green	Green	Light Green	Green	Green	Red
IFM-CAP	Green	Green	Light Green	Green	Green	Red
KOBALAMI (NL)	Orange	Orange	Green	Orange	Orange	Red

Source: Tools4CAP 2024 (red = “impossible or very costly”; orange = “expensive or challenging extension”; light green = “feasible, straightforward extension”; green = “already covered”)

MODELLING TOOLS FOR EX-POST EVALUATION



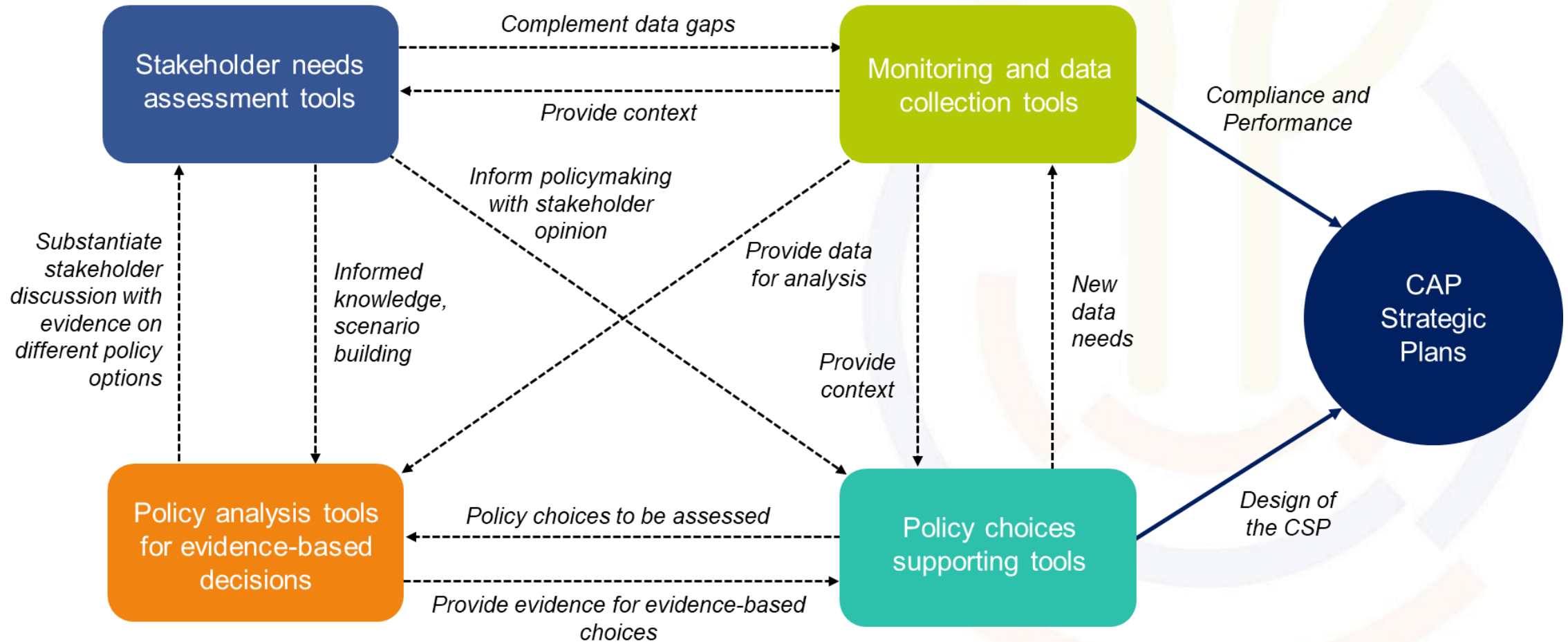
Who can do modelling?

- All tools are currently maintained, developed, and applied by research institutes
- This requires long-term investment to sustain and align the development of tools with policy changes
- Some MS developed a “culture” in establishing relationships with the modelling community
- Capacity, awareness training on tools capability and use need to be further strengthened

INVENTORY OF METHODS AND TOOLS




Category Complementarity



INVENTORY OF METHODS AND TOOLS

Online Inventory of Methods and Tools





An inventory of existing methods and tools used for the design, implementation and monitoring of CAP Strategic Plans has been collected through a combination of extensive desk research and interviews with relevant actors at the local, national and EU level across EU Member States. Updates for this inventory will take place over the course of the Tools4CAP Project. Continuous monitoring will be conducted to enrich the inventory with new methods and tools introduced by Member States, approaches used in previous programming periods, and relevant tools from science and third countries that have not yet been implemented in the EU.

[LEARN MORE!](#) [PROVIDE FEEDBACK](#)

- Select Member State - Stakeholders needs assessment - Select Subcategory - - Select Relevant Task -

Tool name	Member State	Category	Subcategory	Relevant tasks
Discussion Conference	Cyprus	Stakeholders needs assessment tools	Workshops and conferences	CSP Design: Intervention Setting
Workshops, Conferences, Working Groups	Romania	Stakeholders needs assessment tools	Workshops and conferences	CSP Design: Needs Assessment CSP Design: Socio-Economic Context Analysis CSP Design: SWOT Analysis
Focus Groups (External)	Cyprus	Stakeholders needs assessment tools	Focus groups and meetings	CSP Design: Intervention Setting CSP Monitoring: Performance Review
Questionnaires for collecting feedback from Technical Working Group (TWG) members	Romania	Stakeholders needs assessment tools	Online consultations and surveys	CSP Design: Financial Allocations CSP Design: Intervention Setting
E-savjetovanje (e-consultations)	Croatia	Stakeholders needs assessment tools	Online consultations and surveys	CSP Design: Stakeholder Consultations
Working Group	Slovakia	Stakeholders needs assessment tools	Focus groups and meetings	CSP Design: Needs Assessment CSP Design: Stakeholder Consultations

SiTFarm tool (Slovenian typical farm model tool)

Rationale of use

The SiTFarm tool stands out as the singular tool in Slovenia designed for nuanced analyses at various agricultural levels, ranging from individual agricultural holdings to broader sectors. Given its robust capability to perform multilevel analyses and connect with other models, it serves as an invaluable asset for in-depth agricultural study

Functioning

The tool facilitates scenario analyses of different measures' potential impacts at varying agricultural levels. It examines direct payments, evaluates voluntary measure uptakes, and integrates a methodological approach rooted in mathematical programming. Primarily, it centers its analytical focus on the production plan. The tool includes 145 typical agricultural holdings (model farms), which are representative for a larger number of actual farms. It combines a complex system of model calculations of the Agricultural Institute of Slovenia, which is a rich source of economic data in particular, as well as technological data and functions for production activities that enter into the production plan at the farm level. The focus was on measures of the first pillar DP (coupled and decoupled), SOP measures and also LFA measures. Different conditions, payment amounts, thresholds, envelope distribution ratios etc. were also tested. The tool was used for scenario analysis of various variants of interventions during the preparation of the strategic plan.

Types of outputs

Outputs encompass a myriad of indicators — economic (e.g. revenues, budget support, variable costs, gross margin), technological (e.g. intensity of cultivation, the scale of production and processing, the amount of the necessary labour by individual work phases, the utilisation of cultivated areas), and environmental (e.g. carbon footprint, use of phytopharmaceuticals, fuel consumption per unit of production, use of mineral fertilisers). These indicators offer insights for individual farms, as well as groups of farms and the entire aggregate.

Relevant CAP objective

The tool is used to address predominantly CAP objective of fair farm income searching for scenario with more equal gross margin per unit of labour engaged comparing different sectors.

Sources

<https://repozitorij.uni-lj.si/tzpisGradiva.php?id=135226>, <https://repozitorij.uni-lj.si/tzpisGradiva.php?id=135226>

<http://ojs.aas.bf.uni-lj.si/index.php/AAS/article/view/2116/496>,
<http://www.dlib.si/details/URN:NBN:SI:DOC-IDZPTR6S>

Tool name

SiTFarm tool (Slovenian typical farm model tool)

Category

Policy analysis tools for evidence-based decisions

Subcategory

Simulation models

MS

Slovenia

Author or owner

Owner: Biotechnical faculty University of Ljubljana (UL), Chair for agricultural policy, economics and law (prof. Jaka Žgajnar)

Implemented by

Relevant tasks

CSP Design: Financial Allocations
CSP Design: Intervention Setting

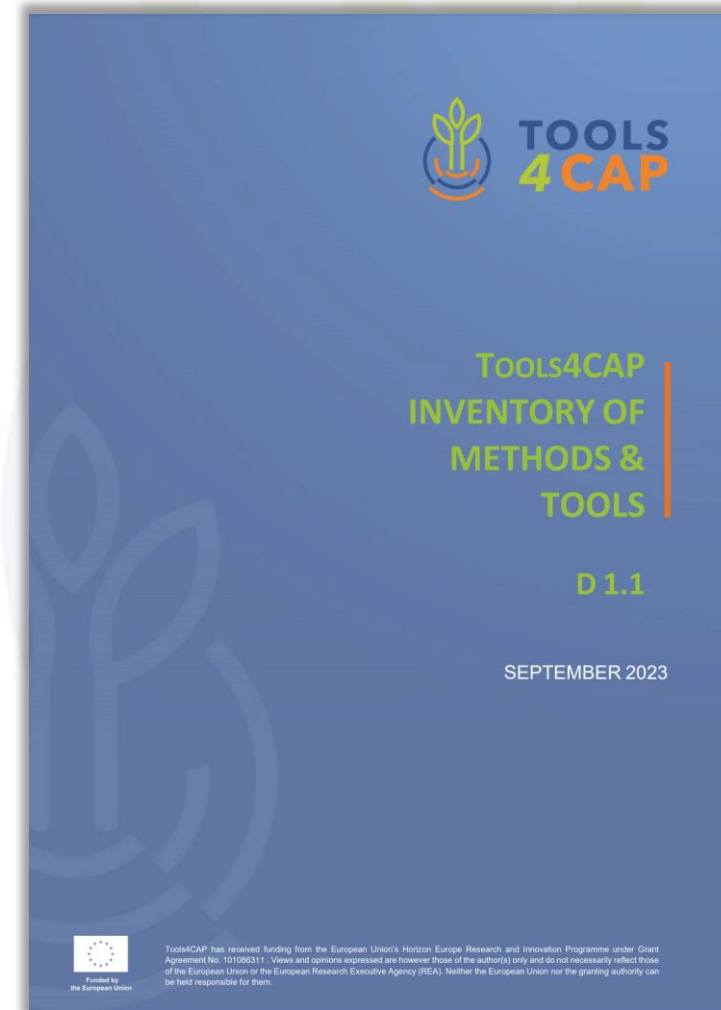
INVENTORY OF METHODS AND TOOLS

Inventory of Methods and Tools Report



The screenshot shows the TOOLS4CAP website's Publications page. The header includes the TOOLS4CAP logo, social media icons, and a "GET INVOLVED" button. The navigation bar lists "ABOUT TOOLS4CAP", "CASE STUDIES", "PUBLICATIONS", "TOOLS", "TOOLS4CAP ACADEMY", and "GET INFORMED". The page title is "Publications". A green box with a plant icon and the word "Publications" is on the left. To its right, a text block explains that the page contains relevant documents and results. Below this, a "Category" dropdown menu is set to "Nothing selected", with a "Clear filters" button. A table lists publications with columns for Title, Date, Categories, and Download links.

↓ Title	Date	Categories	Download
D1.1 Inventory of methods & tools used by Member States	2023-10-11	Deliverable	Download
D1.2 Tool4CAP conceptual framework	2023-10-11	Deliverable	Download
D7.1 Kick-off Meeting Report Tools4CAP	2023-07-13	Deliverable	Download
D7.3 Ethical and gender	2023-07-13	Deliverable	Download
D7.4 Open-Science and Data Management Plan	2023-07-13	Deliverable	Download
Get involved in Tools4CAP	2023-07-27	Infographic	Download
Tools4CAP Academy	2023-05-26	Infographic	Download



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