

COMMON AGRICULTURAL POLICY post-2020

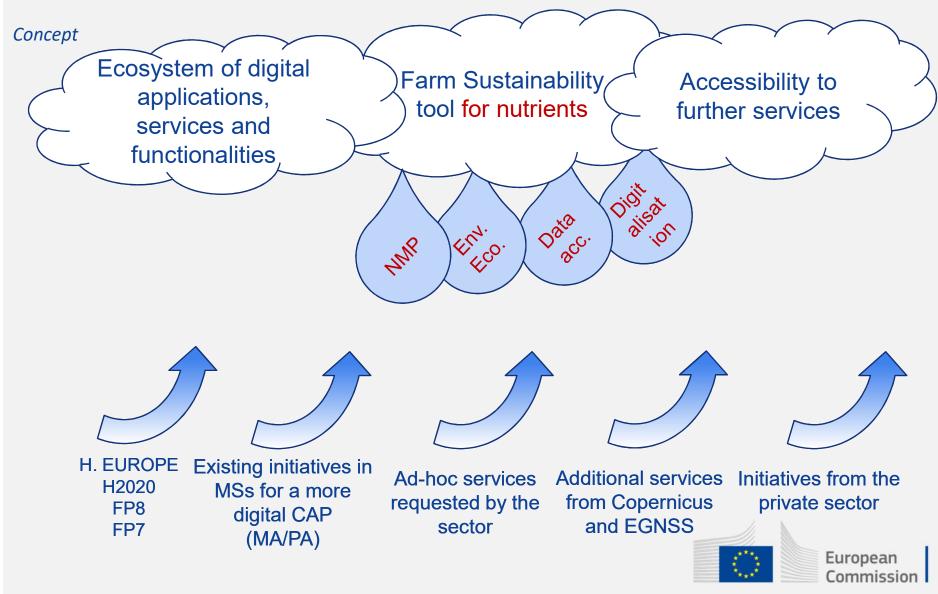
Farm Sustainability Tool for Nutrients - FaST

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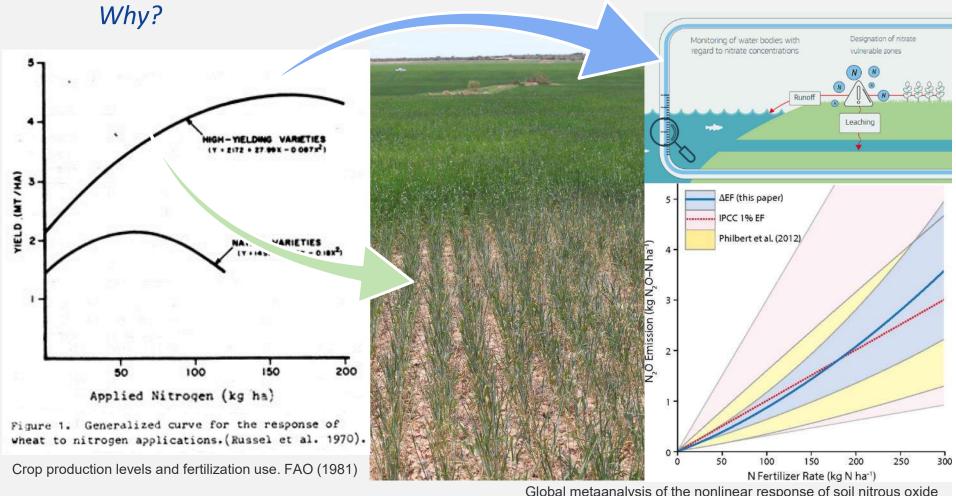
Co-creation, support and agronomic and agricultural benefits

GAEC 5 - Use of Farm Sustainability Tool for Nutrients



Digitalisation, economic and environmental benefits

GAEC 5 - Use of Farm Sustainability Tool for Nutrients



Global metaanalysis of the nonlinear response of soil nitrous oxide (N_2O) emissions to fertilizer nitrogen. Shcherbak et al. (2014). PNAS



European Commission

Digitalisation, economic and environmental benefits

GAEC 5 - Use of Farm Sustainability Tool for Nutrients *Why*?



- Win-win solution beyond compliance model (agronomic and simplification gains for farmers, environmental gains due to scale);
- Catalyst for on-farm innovation and digitalization, level-playing-field for all farmers.

Unique opportunity for small/medium farmers, reduce the gap/accessibility to digital tools compatible with more advanced tools

- Simplification of farmers' tasks (clear instruction, inclusion of nutrient-related legal obligations in one tool, no data entry duplication and minimum manual data input)
- **Change in approach**: no control/inspections on the actual follow-up of instructions or data inputted.



European Commission Farm Sustainability Tool for Nutrients – FaST The possible support of the Commission

Commission proposal for a Regulation on the new CAP post-2020 COM(2018) 392 Recital 22, Article 12.3 and ANNEX III

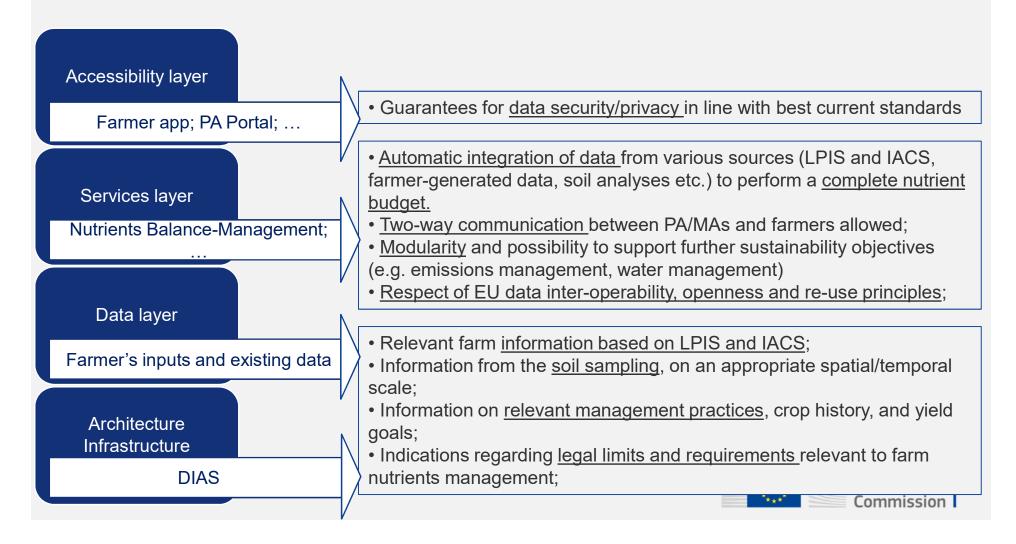
- Article 12.3: "<u>Member States shall establish a system</u> for providing the Farm Sustainability Tool for Nutrients [...] to beneficiaries, <u>who shall use the Tool</u>.
- The <u>Commission may support the Member States with the</u> <u>design of that Tool and with data storage and processing</u> services requirements."



Minimum requirements

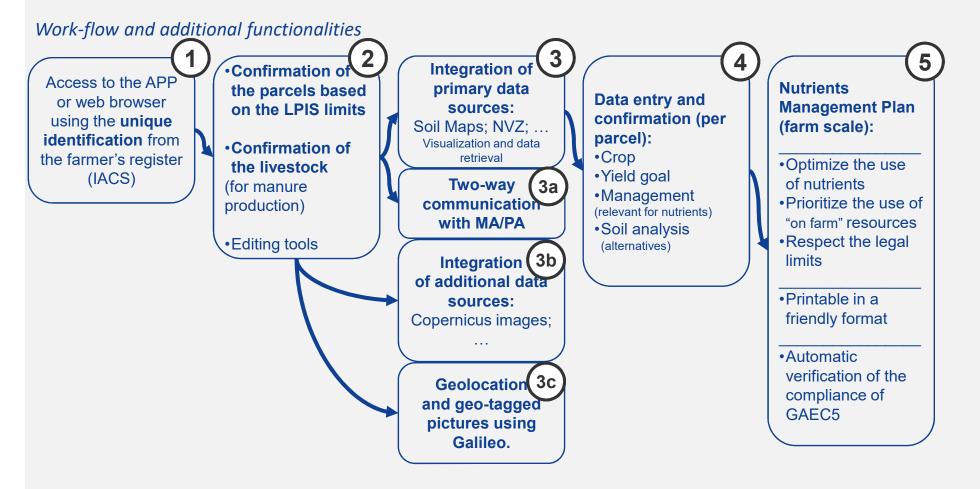
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Main characteristic of FaST as proposed in the Regulation on the new CAP post-2020 COM(2018) 392, Recital 22, Article 12.3 and ANNEX III



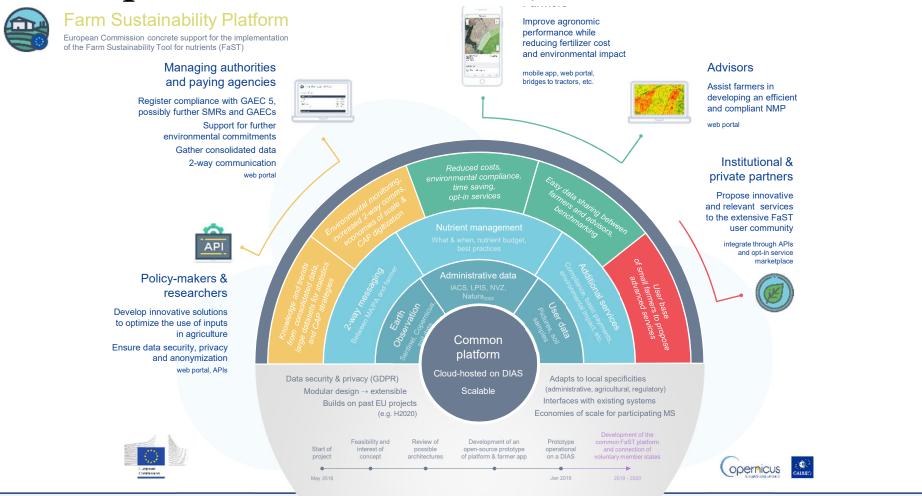
Level-playing-field for all farmers across EU

GAEC 5 - Use of Farm Sustainability Tool for Nutrients





Development of the FaST as a IT system



Demo version from the feasibility study

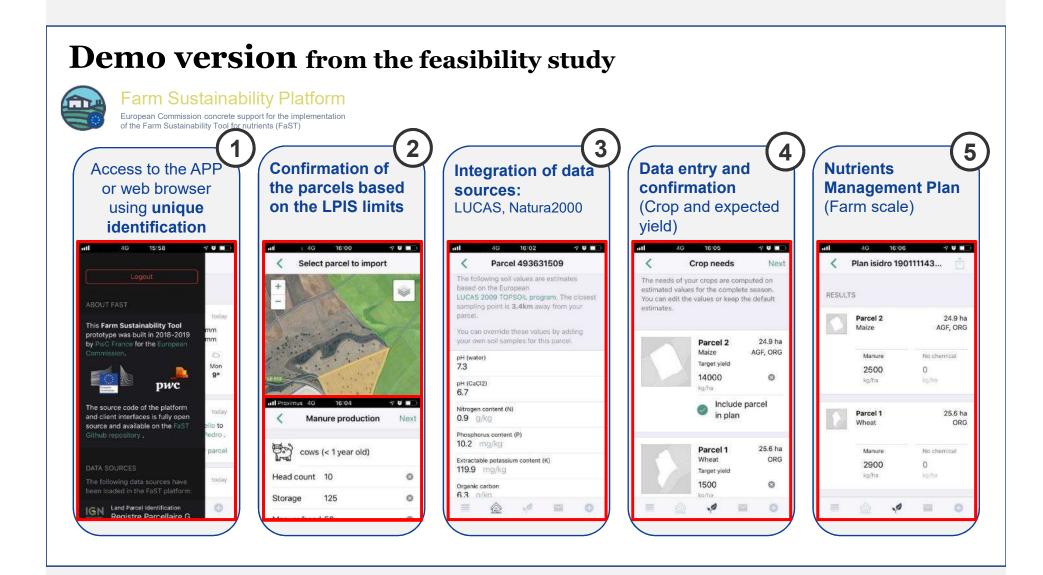


Farm Sustainability Platform

European Commission concrete support for the implementation of the Farm Sustainability Tool for nutrients (FaST)

Data

Farm edition	Add / remove parcel from LPIS layer View parcel soil data and proximity to water bodies, Natura2000 areas Edit farm livestock and parcel crops	
2-way messaging	Basic messaging between platform users Add / remove users' contacts	
Nutrient management planning	Data input journey implemented but plan calculations are not real/accurate Create multiple plans, activate / deactivate them	
Additional services	Sample services included for demo, only Sobloo Sentinel imagery is actually connected	
Weather	Weather forecast and historical data for farm	
Agricultural parcels (LPIS)	LPIS (France & Spain / Castilla y Leon)	IGN 🏭 🚥
Terrain	Hydrological network (France & Spain / CyL)	IGN 🏭 🔤
Environment	Natura2000 areas (Europe)	從
Soil	LUCAS Topsoil & Organic Carbon Content (Europe)	EUROPEAN COMMISSION
Satellite Imagery	Sentinel-2 True color layer (as served by Sobloo DIAS)	00
External APIs	Weather / geocoding (free accounts on commercial service	s) 🚺 🚅
Livestock & crop species	As extracted from EU regulations / websites	2.4 A



Take home ideas

Summary

Multiple benefits

- **Optimise the use of nutrients in all EU farms,** with immediate benefits in terms of farmer's income, soil and water quality, and emissions (mitigation);
- Simplification of the administrative tasks;
- Boosting the digitalisation of the sector and of the CAP, level-playing-field for all farmers

Minimum content

- LPIS/IACS information, legal limits relevant for nutrient management;
- Nutrient Management Plan, based on yield objectives and integration of data;
- **Two-way communication** between PA/MAs and farmers and modularity to support further sustainability objectives (e.g. emissions management, water management)

Change in approach:

- Farmers would use the FaST convinced about its real value added;
- The farmer's GAEC obligation in the proposal is limited to "use" = activation and data entry
- Farmers should not be subject to control/inspections on the data inputted and actual follow-up of instructions provided by the FaST.



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THANK YOU!

The FaST demo is available at the following addresses:

- <u>https://mobile.fast.sobloo.io</u>: farmer mobile application prototype, you should access this URL only through your smartphone, and then use the "Add to Home Screen" feature to actually install the app

