



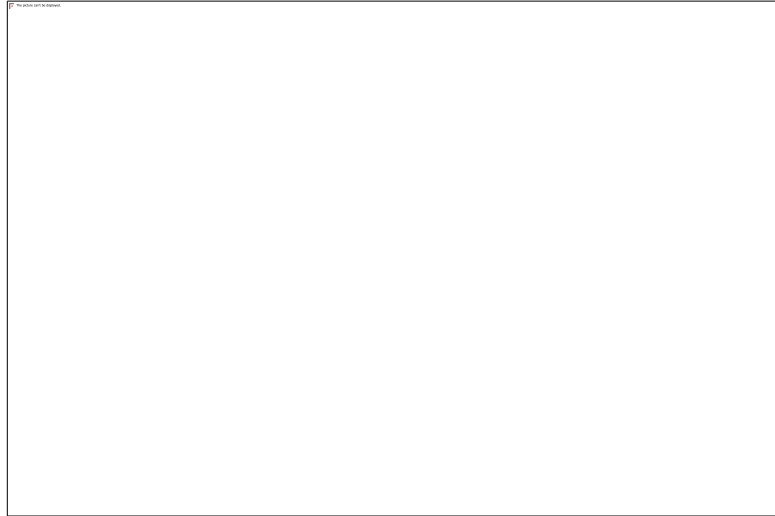
SWISS FUTURE FARM & MAIZE PRODUCTION IN SWITZERLAND

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28.02.2024



About myself



- Agricultural apprenticeship 2010-2013
- Agriculture studies 2015-2018
- Fendt Global Sales Engineering 2019-2021
- GVS Agrar Teamlead GVS FUSE &
• Representative Swiss Future Farm 2021-today

About GVS Agrar



GVS Agrar AG

- Focus on AGCO products
- Fendt Fulline, Massey Ferguson Fulline, Valtra



AGRAR Landtechnik AG

- Production & distribution of AGRAR agricultural machinery
- Distribution of the brands Krone, Zunhammer, Horsch, Monosem, etc.

About GVS Agrar

VALTRA

46 Dealerships



MASSEY FERGUSON

54 Dealerships



FENDT

51 Dealerships



SWISS FUTURE FARM



Tenant and operator of the farm



Provision of the machinery



Owner of the concept, technology access



Swiss Federal Competence Center for Agricultural Research

SWISS FUTURE FARM

- 81ha total, 50ha arable land, clay and sandy clay soil
- Making smart farming technologies for agriculture visible, tangible and understandable
- Field trials with machinery of the GVS Agrar & Agrar Landtechnik portfolio
- Future Strategy: economical and ecological farming strategies with reduced tillage methods

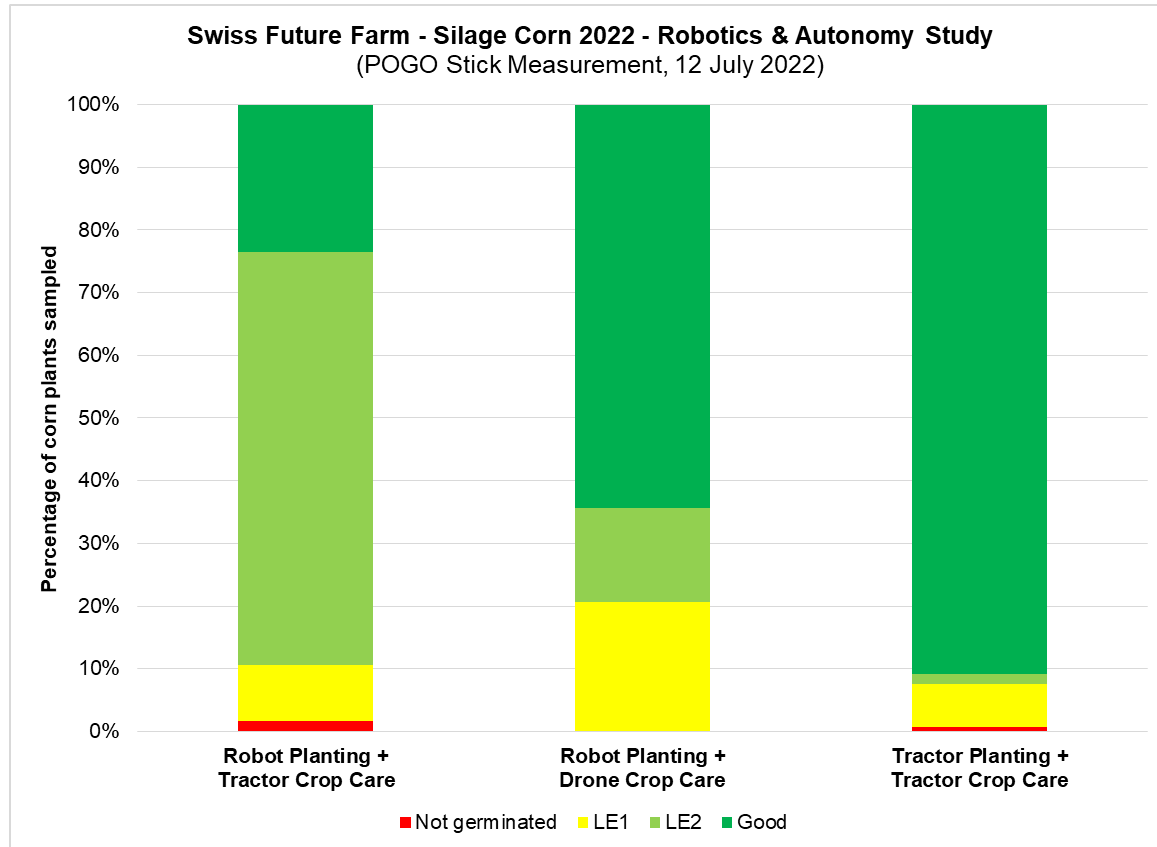


Robotics & autonomy study in maize



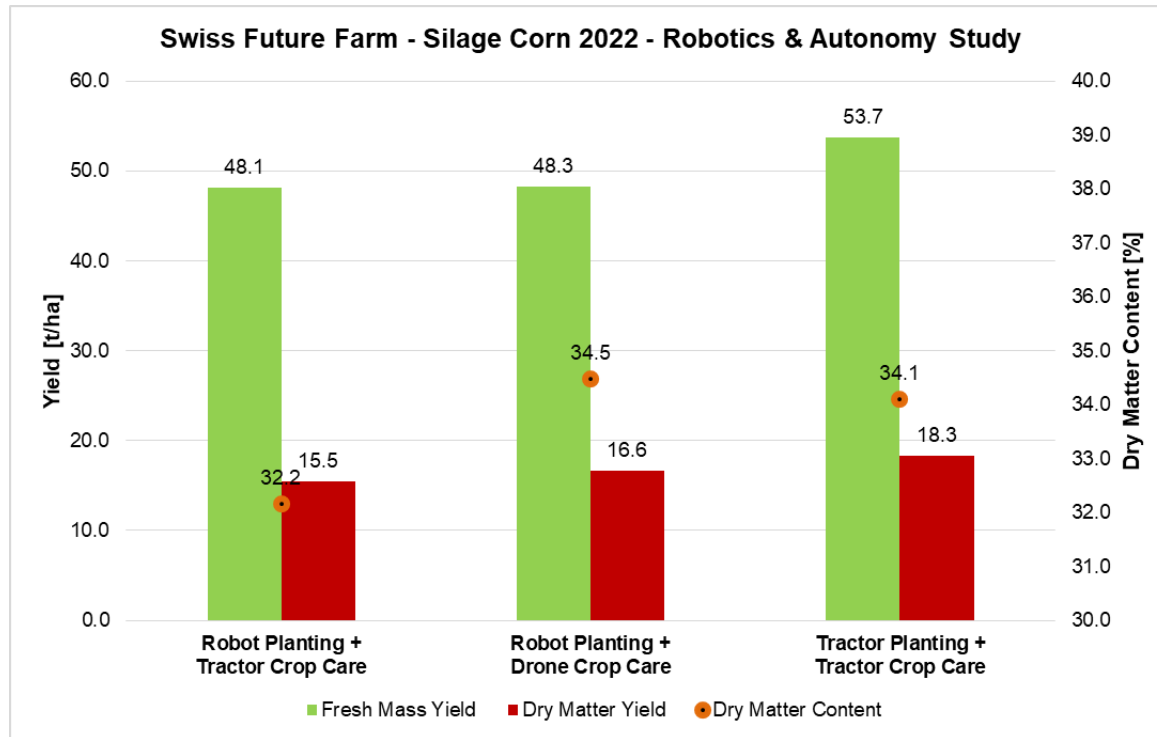
- Robotti carrier & Monosem NG Plus seeder
- Fendt 314 & Monosem NG Plus ME extend
- Drone for spraying / fertilizer spreading

Robotics & autonomy study in maize



- Retarded development of corn plants in the trials strip operated with robot planting
- Best crop development in the tractor planting strip
- Robot planting strip 1 with difficult soil conditions

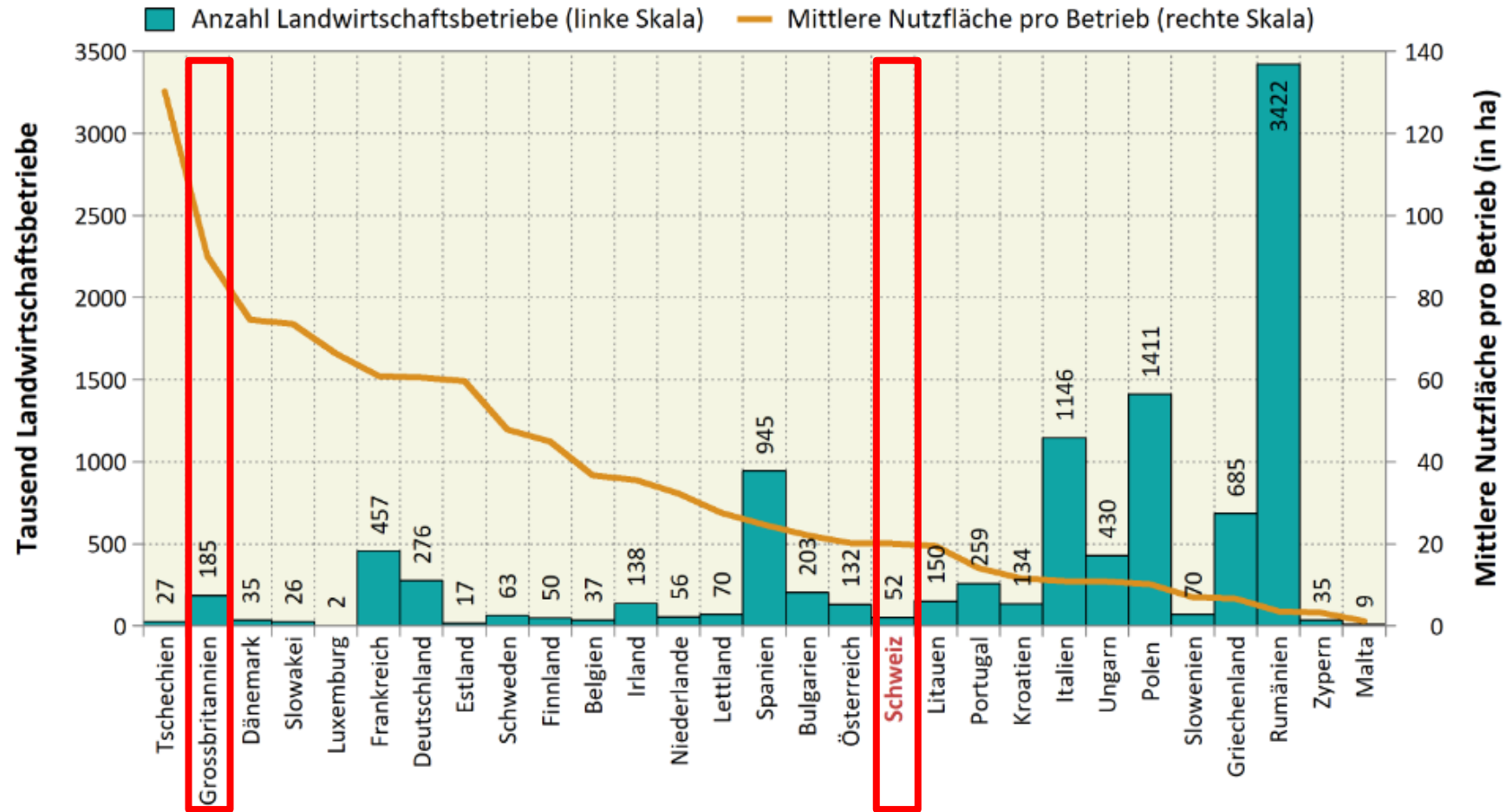
Robotics & autonomy study in maize



- 11% higher yield with standard equipment
- Robotti can't lift a heavier seeder what resulted in a lower seed placement quality in the dry clay soil
- Increased lift capacity of modern tractors has its reasons.
- Standard implements are adapted to standard tractors

Swiss Farmers compared to the EU

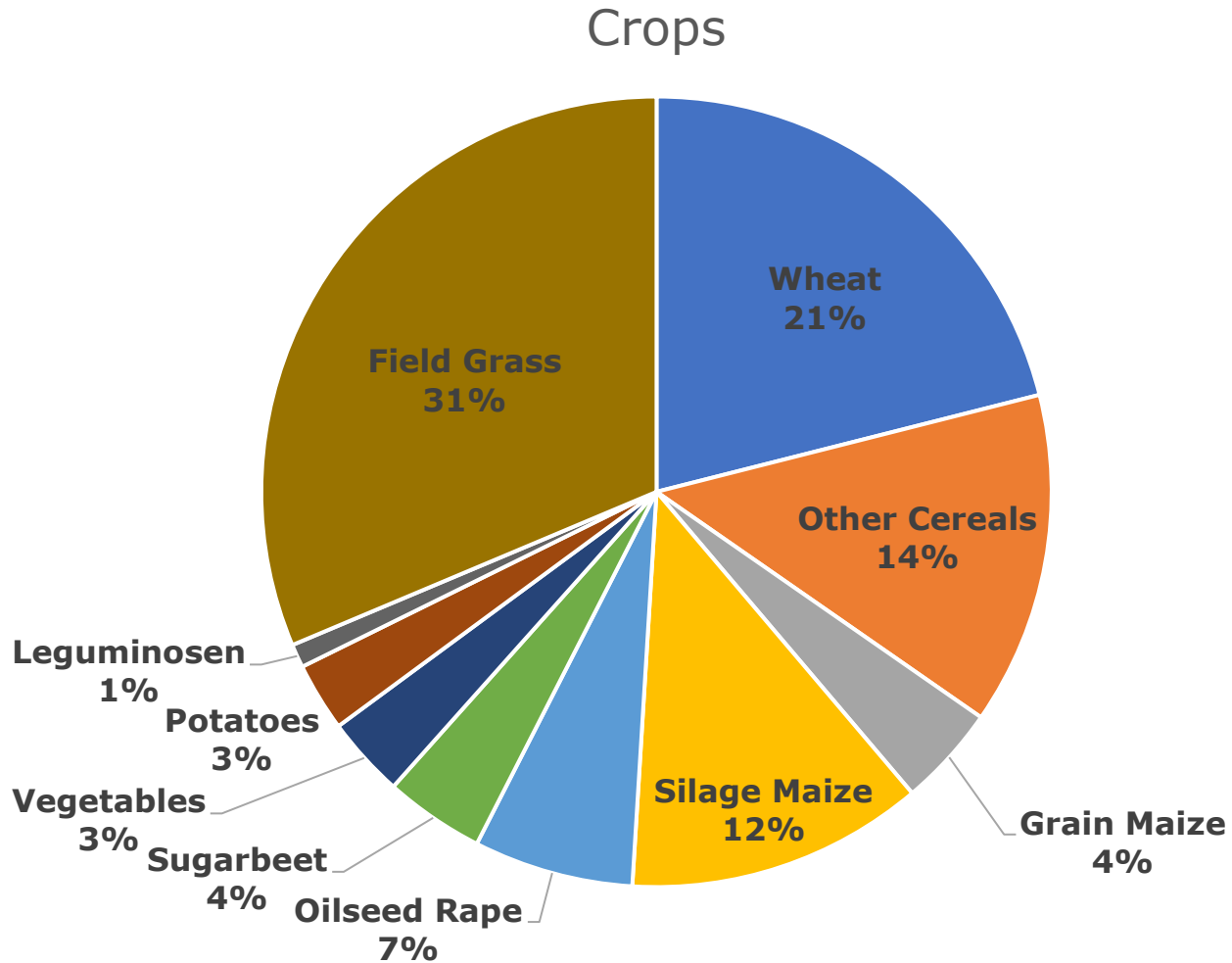
Strukturerhebung 2016



Quelle: EUROSTAT

07.10.2022 Agristat | 13.01

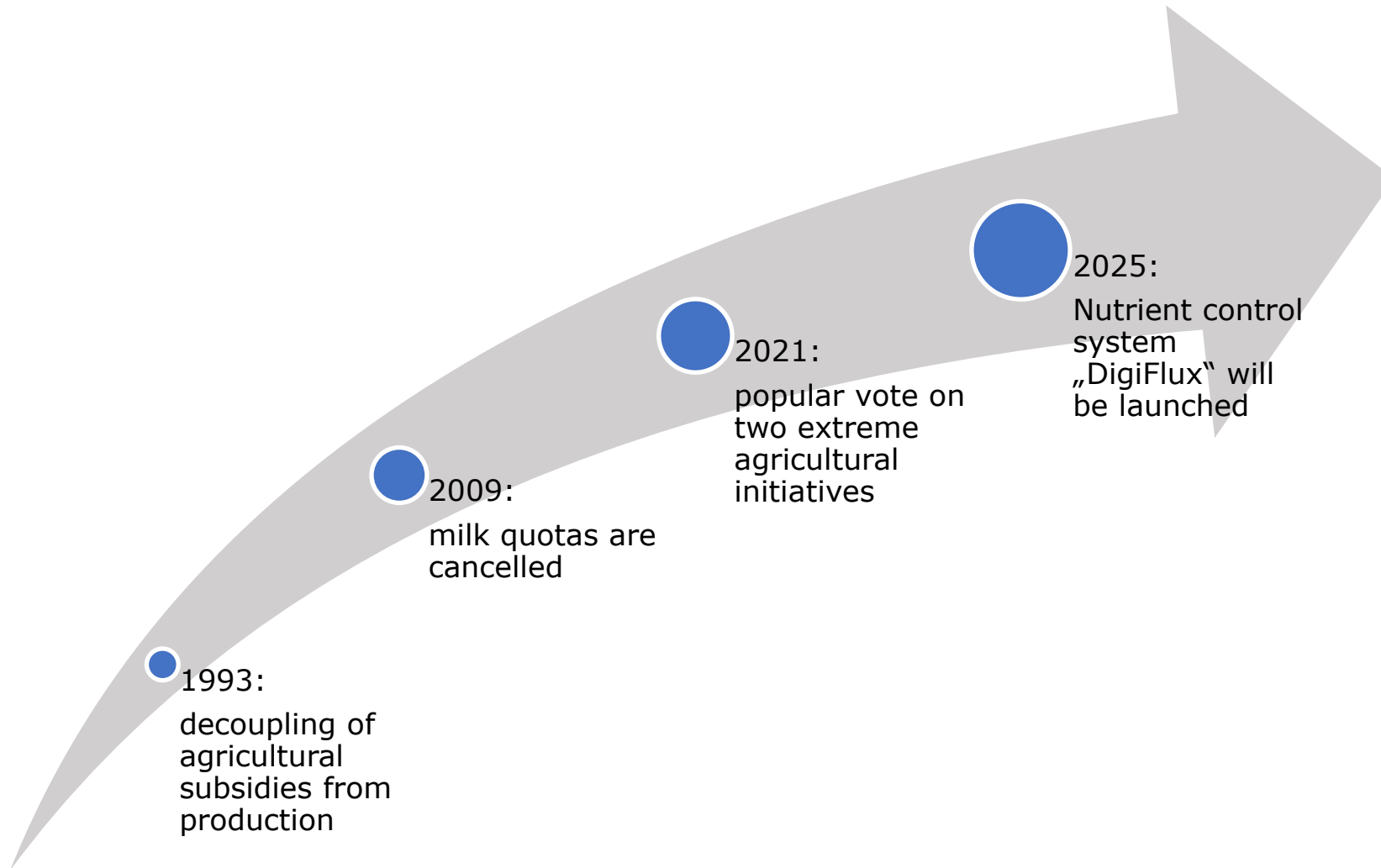
Arable land use



Typical crop rotation:

- 2 years Field Grass
- Maize
- Wheat
- Oilseed Rape / Sugarbeet / Potatoes
- Barley / Maize

Changes in the agricultural sector



Accumulation & needs of nutrients balance



140
kg/ha



110
kg/ha



140
kg/ha



100
kg/ha



Up to
180kg/ha

Up to 2023:

- Balance sheet must be maintained with 10% tolerance

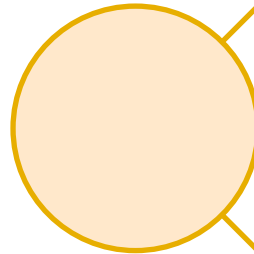
Up to 2025:

- Balance sheet must be maintained with 0% tolerance

From 2025 on:

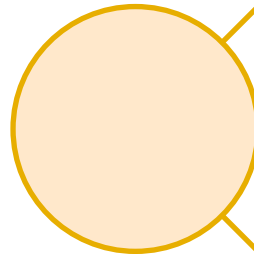
- buyers and sellers of nutrients must document amount, customer & date on the centralized DigiFlux Application

Where the future is heading?



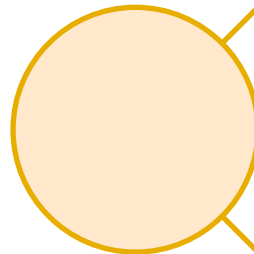
Limitation of fertilizer per field

- Soil differences
- Bureaucracy



Low-input production

- food self-sufficiency
- Less income or higher price?



Reduction of the livestock population

- Oversea import of cheap meat
- Less income



SEE YOU SOON ON THE
SWISS FUTURE FARM!

GVSAgrar

