SUSTAINABLE TECHNOLOGY EVENT

EUROPEAN GREEN DEAL AND SUSTAINABLE FOOD SYSTEMS

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EU Green Deal

GREEN DEAL

Farm to Fork Strategy

Sustainable food production systems (fair, healthy and environmentally-friendly)

- Reduce chemical pesticides by 50%
- Reduce fertilisers by 20% and restore soil ecosystems
- 50% reduction in antimicrobials for farm animals
- 25% of land under organic farming
- 10% of agricultural land brought under high diversity landscape features

EU Biodiversity Strategy

Halt/ Reverse ecosystem degradation. Put biodiversity on 2030 path to recovery.

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New CAP Eco schemes

Examples of agricultural practices covered by eco-schemes:

- Agro-ecology, e.g. cover cropping
- Carbon farming: Conservation agriculture and residue management
- Erosion management
- Precision Farming – nutrient management, input reduction
- Integrated Pest Management practices, e.g. mechanical weed control
- Husbandry/Animal Welfare: Friendly housing conditions, space, enrichment, shade, sprinklers, ventilation and animal health prevention and control – reducing need for antimicrobials

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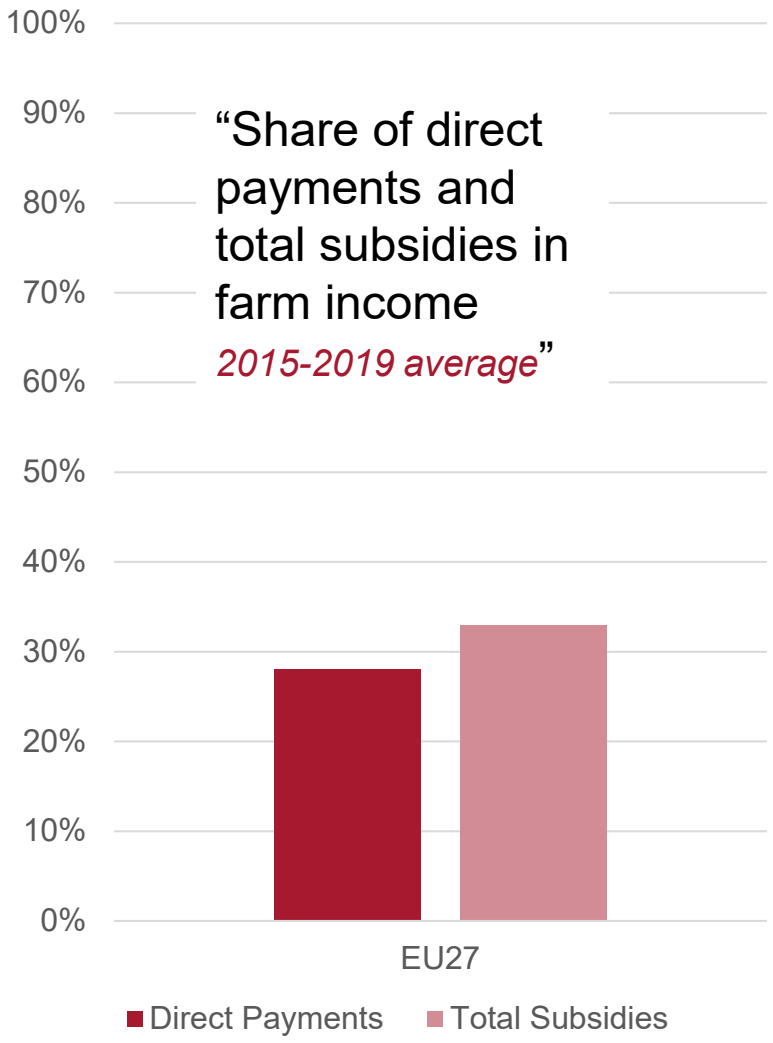
SUBSIDIES REMAIN IMPORTANT TO EU FARM INCOME



"Share of direct payments and total subsidies in farm income
2015-2019 average"

- Subsidies provide support to 7 million beneficiaries
- 1/3 of the EU budget: €387 Bn
- Subsidies as a % of farm income varies based on farm size and enterprise
- Subsidies are transitioning towards smaller farms and younger farmers and green schemes
- Farmers currently experiencing strong commodity prices – and as a result strong farm incomes
- Benefits partially offset by increased cost of inputs

Source: EUROSTAT

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PRECISION AG TECH IS A CRITICAL PART OF THE SOLUTION

- New targets set out under the Biodiversity and Farm to Fork strategies will drive greater uptake of sustainable farming practices and will build long term resilience to the EU farming system
- There is still a high degree of reliance on subsidies to maintain farm incomes
- New CAP subsidies will align with sustainable farming practices under Eco schemes, which farmers will have to adopt.
- Farm digitisation and technology such as Precision Farming are viewed as key enablers on achieving sustainable food systems and addressing climate change.

Guidance Technologies

Precise machinery movement within and between fields to reduced overlapping resulting in lower input use and fuel and enables PA application.

Sensing Technologies

Use sensors to receive information from the field (before, during and after crops) extract the data useful for any kind of PA application

Responsive Technologies

Responsive technologies use the data produced by sensing technologies to minimize and optimize inputs required by the crop to grow

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