EIP-AGRI Seminar

New skills for digital farming

5-6 February 2020 – Aranjuez, Spain

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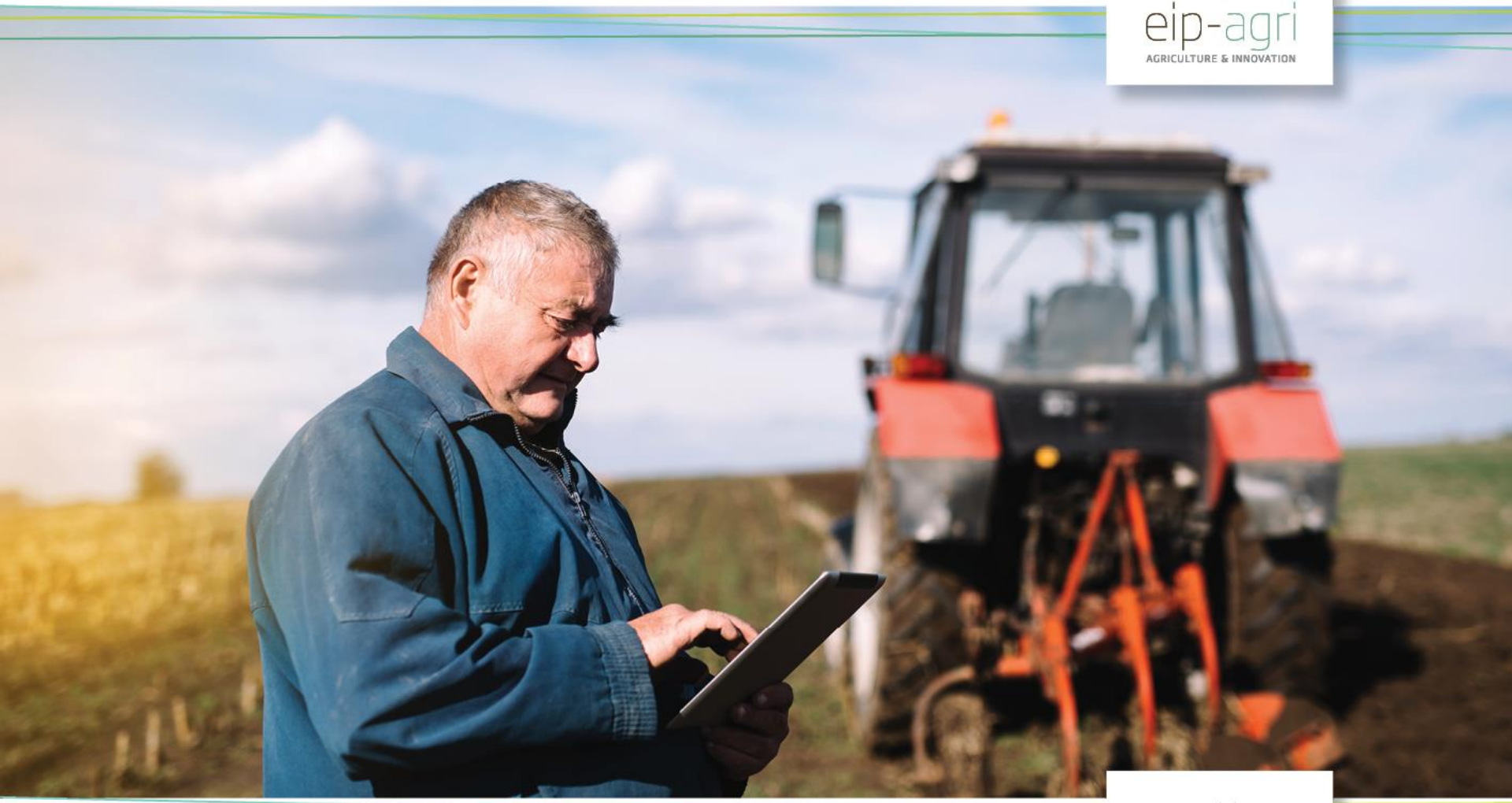

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Programme

THURSDAY 6 FEBRUARY 2020

08:15 – 08:45 Registration for day 2

08:45 – 09:10 Introduction to the day

Session 2: How do we move forward?

09:10 – 10:45 Developing skills for digitalisation: An inspirational journey

Presentations by: *George Beers (NL), Miguel Cordero (ES), Beatrice Dingli (FR), Thomas Engel (DE), Hubert Gerhardy (DE), Lotte Ipsen (DK), Tom Kelly (IE), Gintare Kucinskiene (Lt), Hercules Panoutsopoulos (GR), Tetiana Pavlenko (DE), Jürgen Vangeyte (BE)*

10:45 – 11:15 Coffee break

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THURSDAY 6 FEBRUARY 2020

11:15 – 12:30 Tools and approaches for skills development in the farming sector: Breakout session

12:30 – 12:50 Feedback from the discussion

12:50 – 13:00 Closing of the seminar

Kerstin Rosenow, European Commission, DG AGRI

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Developing skills for digital farming: An inspirational journey

Seminar: 'New skills for digital farming'
Aranjuez, Spain
5-6 Febraury 2020

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3. Linking up with agricultural knowledge and innovation systems (AKIS)

An innovation 'ecosystem' to support upskilling (for all)

Challenge: short-term, isolated interventions. For wider impact: **linking up the relevant actors** (farmers, advisers, researchers, trainers, service providers, public administrations,…), **resources,** and establishing **synergies among existing tools.**

Added value of **European projects.**

Advisers and service providers are key to build this 'ecosystem'. But they need to upskill too (**train the trainer**).

Examples:

- H2020 SmartAgriHubs (George Beers)
- The Netherlands, Facilitating farmers' skills development (*Caroline van der Weerdt*)
- Portugal, HUB4AGRI Digital Innovation Hub for Agriculture (Maria Margarida Segard)
- H2020 Fairshare (Tom Kelly)
- H2020 I2Connect (*Miguel de Porras*)
- John Deere training activities (Thomas Engel)
- LIFE - F3: Farm Fresh Fruit (Lars T. Berger)

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LINKING UP WITH AGRICULTURAL KNOWLEDGE AND INNOVATION SYSTEMS (AKIS)

Thomas ENGEL
John Deere training activities
Germany

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New skills for digital farming

Dr. Thomas Engel
Manager Technology Innovation Strategy

JOHN DEERE

Role of Machinery Manufacturers

- Machines are key enablers for digital transformation
- Sensors on machines to detect actual soil and crop information (weed recognition, amount of biomass, nutrient status, pests, diseases)
- Yield mapping for success control of variable rate applications
- Communication protocols and cloud connectivity to facilitate data flow

Role of Service Providers

- Farmers typically need support to transfer raw data into valuable information
- Service providers can offer additionally site specific information using soil sensors, drones and EO satellite data
- Transfer of the data into application maps for seed, fertilizer and pesticides is key for success

Training methods and activities

- Systems need to be as intuitive as possible
- Mainly traditional instructor led training for dealers
- Dealers need to support customers and need also basic agronomic knowledge
- Train-the-trainer approach to increase the footprint of the training
- Remote Display Access is using on-demand learning techniques for coaching and support of the customer
- Farmer testimonials are important (lead farms)

Precision Farming Benefits for Farmers

- Better productivity and profitability of the farm
- Automation on the machines improves operator comfort
- Lower CO_2-footprint and water contamination with nitrate and pesticides
- Improvement of public image of farming
- Use of Hi-Tech can attract young people for farming and keep them in rural areas


JOHN DEERE