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**Standardization in smart
agriculture – the process
already started**

The future of farming – The facts

- The agricultural sector is facing enormous challenges to feed the 9.6 billion people by 2050.
- Challenge: How can we feed the exploding world population in the future in a sustainable, cost-effective and environmentally friendly way?
- We need to change the food systems of our planet to feed all these people - international standards are a key element of these systems.

(Source: ISOfocus 2017)

Smart Agriculture – Standards are essential

- International standards set the language for commonality and are developed by global experts.
- Worldwide accepted standards will contribute to a sustainable, cost-effective and environmentally friendly production of agricultural products. Governments can reference an International Standard rather than developing their own laws and regulations. This avoids that various standard are developed.
- International standards help deliver a more profitable and sustainable agricultural production by equipping farmers with new technologies, the right knowledge and information, and mechanisms to gain fair access to markets.

Standardization in smart agriculture – the process already started

- The ISO-Standard for BUS-Systems - ISO 11783: Allows the farmer to connect devices of different equipment manufacturers to 'talk' to each other.
- ISO-Standard for drones – ISO 21384: The farming area can be precisely mapped by drones.



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Standardization in smart agriculture –the process is unstoppable

- ISO/TC 307 “*Blockchain and distributed ledger technologies*” was founded in 2016, with 8 projects under development.
- Proposal for a International Workshop Agreement (IWA) on “Professional Farmer Organization”, which will define essential characteristics for professional farmer organizations to participate in the market system provided by the Netherlands in February 2018.



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