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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 an 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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