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"Challenges and applied technologies in the field"

Smart agriculture technologies provide :

A. Improving farming management

1. Irrigation and fertigation system automation and remote control
2. Pest forecast and agronomy decision support
3. Plant nutrition control
4. Improving agronomy and digital farming by posting sensors data automatically
5. Control execution of farm management

Smart agriculture technologies provide :

Farming Economy :

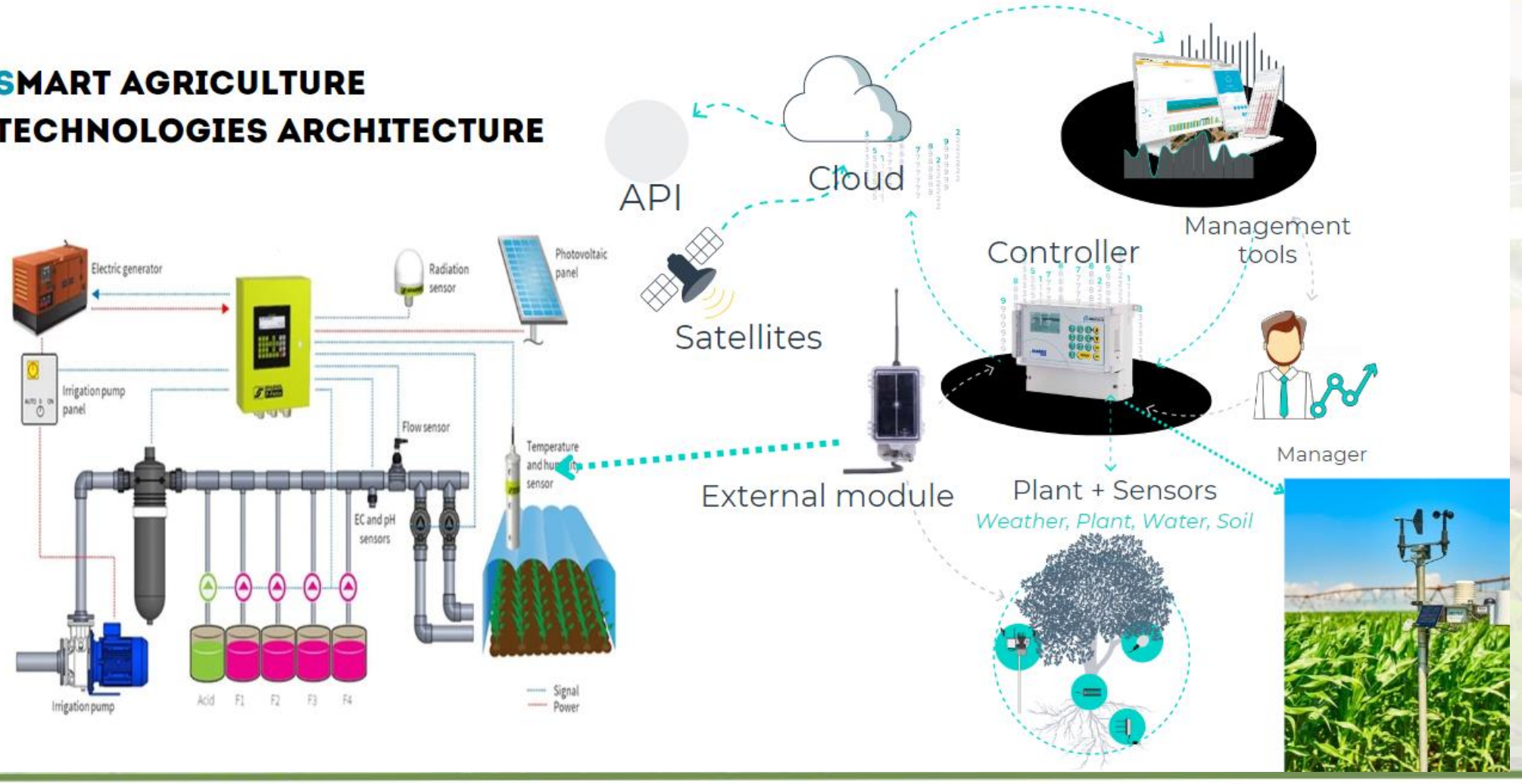
6. Water and power resource economy
7. Reduce fertilizer use
8. Improve the product quality, increase production yield
10. Reducing the production cost
11. Increase the farmers' income

Smart agriculture technologies provide:

B. In light of EU Green Deal perspective

12. Reducing nitrogen trace in fruits
13. Improve soil and microbiota
14. Reducing the greenhouse gas emission
15. Preserve groundwater pollution
16. Reducing resource use (water, electricity, fertilizers, chemicals)

SMART AGRICULTURE TECHNOLOGIES ARCHITECTURE



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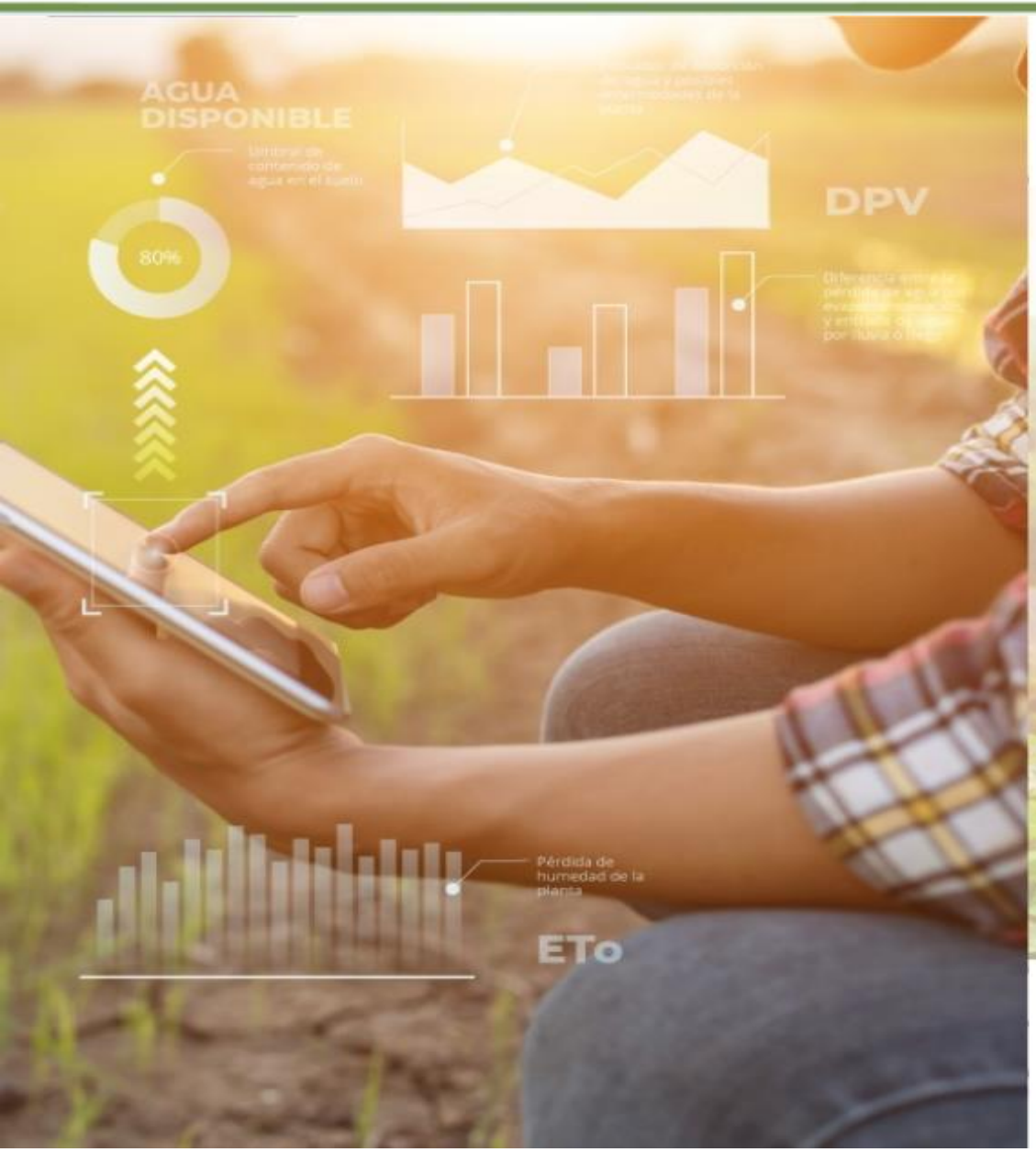

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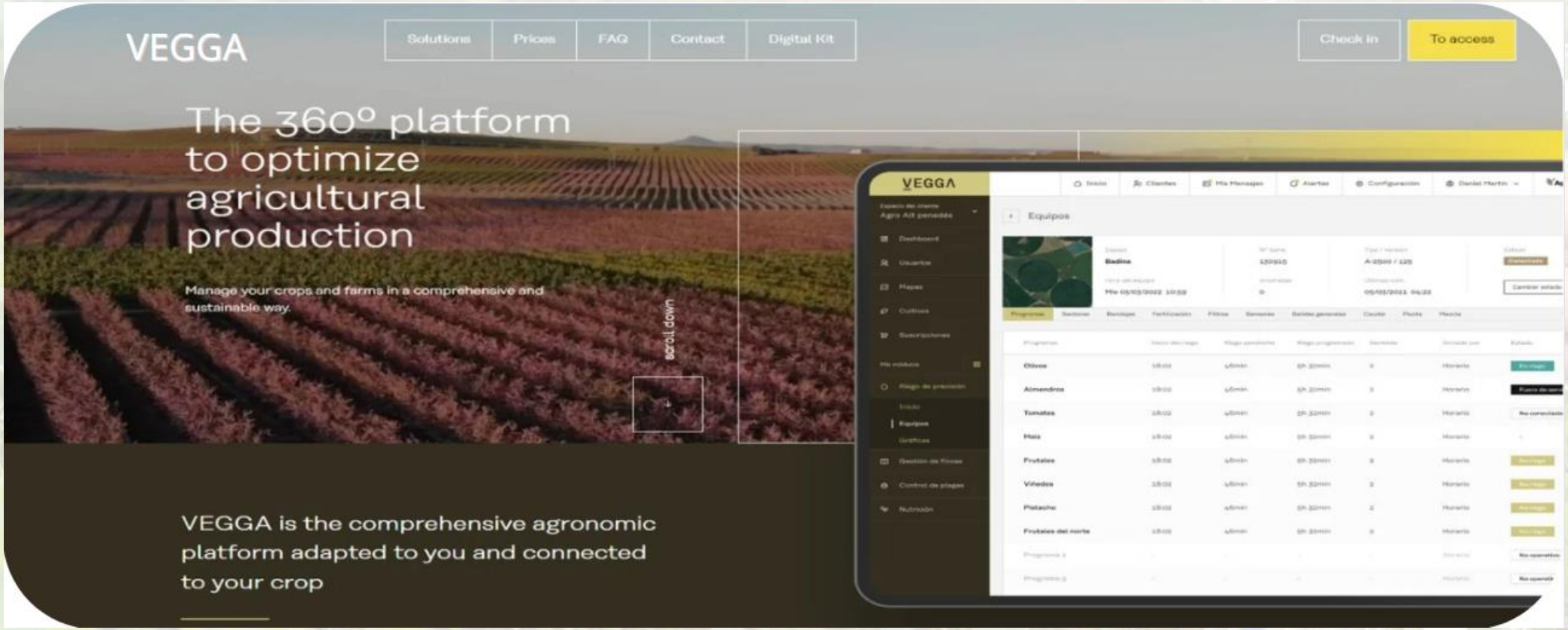
Unification with agronomic and digital farming platform



Challenges :

1. Accuracy of some sensors
2. AI and big data technologies to be developed
3. Compatibility different equipment and platforms with each other
4. Unification of all precise agriculture technologies in one equipment and Platform

Challenges :

5. Farmers' information and education
6. Some agronomists are not willing to take the initiative to digital tools
7. Investment cost is acceptable for medium and large-scale farmers but needs subsidy the small-scale farmers.

Thank you !

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