



ORGANICS EUROPE YOUTH EVENT



Organic And You(th)
Building Resilient Food Futures



in collaboration with



Digitalisation of an Organic Dairy Farm in Turkey

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Veterinarian and Dairy Owner



Our Dairy

- 70 years old
- Producing Organic Milk for 20 Years
- Milking 300 Cows – 750 Cattle in Total
- Produce Our Own Crops for Our Own Animals
- Above 200 Hectares

Why Do We Digitalise?

- Sustainability (Environmental and Economic)
- Improving Quality
- Improving Welfare
- Improving Health
- Eliminating Human Error

Challenges?

- Higher Initial Cost
- Data Security
- Need of Skilled Workers
- Complexity

Our Digitalisation Journey

What have we done?

- Digital Milking Parlour
- Manure Scrapers and Separation
- Automated Feed Pushing
- Air Ventilation
- Collars for Cows
- Infrastructure for Watering
- Solar Panels

In process

- Robotic Milking
- Fully Autonomous Feed Preparing

Future plans

- Fully Autonomous Feed Delivery
- AI Controlled Watering
- Biogas Plant
- Plant Health Analysis with Drones
- Electric Tractors

Digital Milking Parlour



Manure Scrapers and Separation



Automated Feed Pushing



Air Ventilation



Collars for Cows



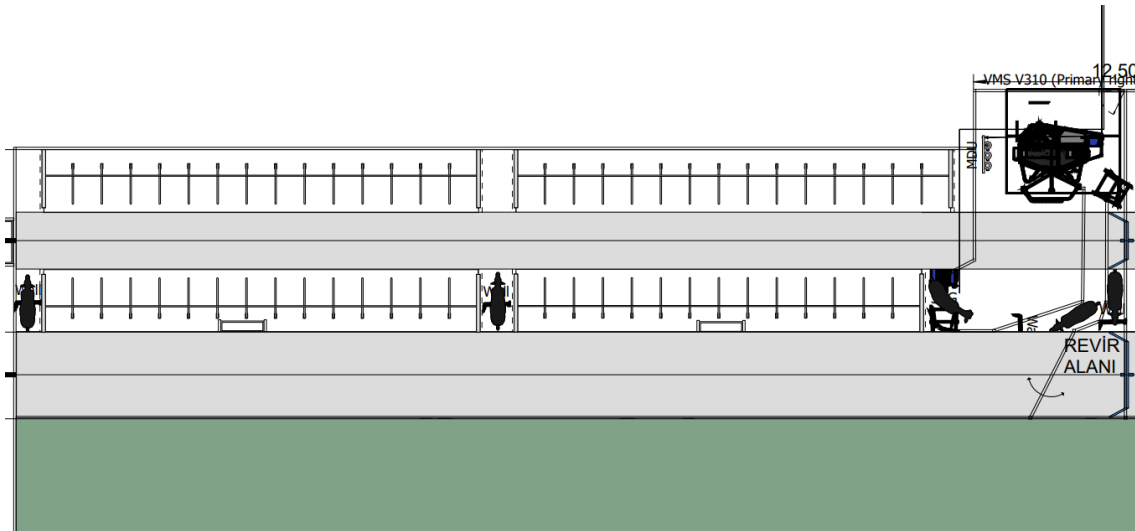
Infrastructure for Watering



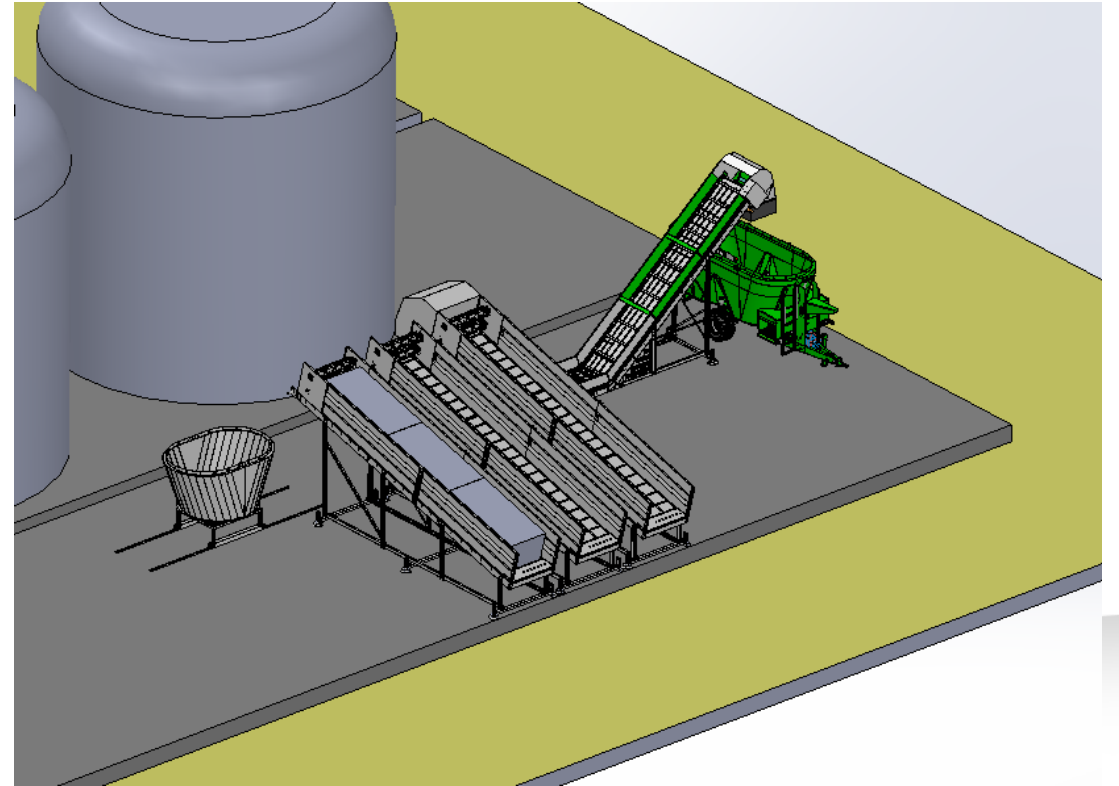
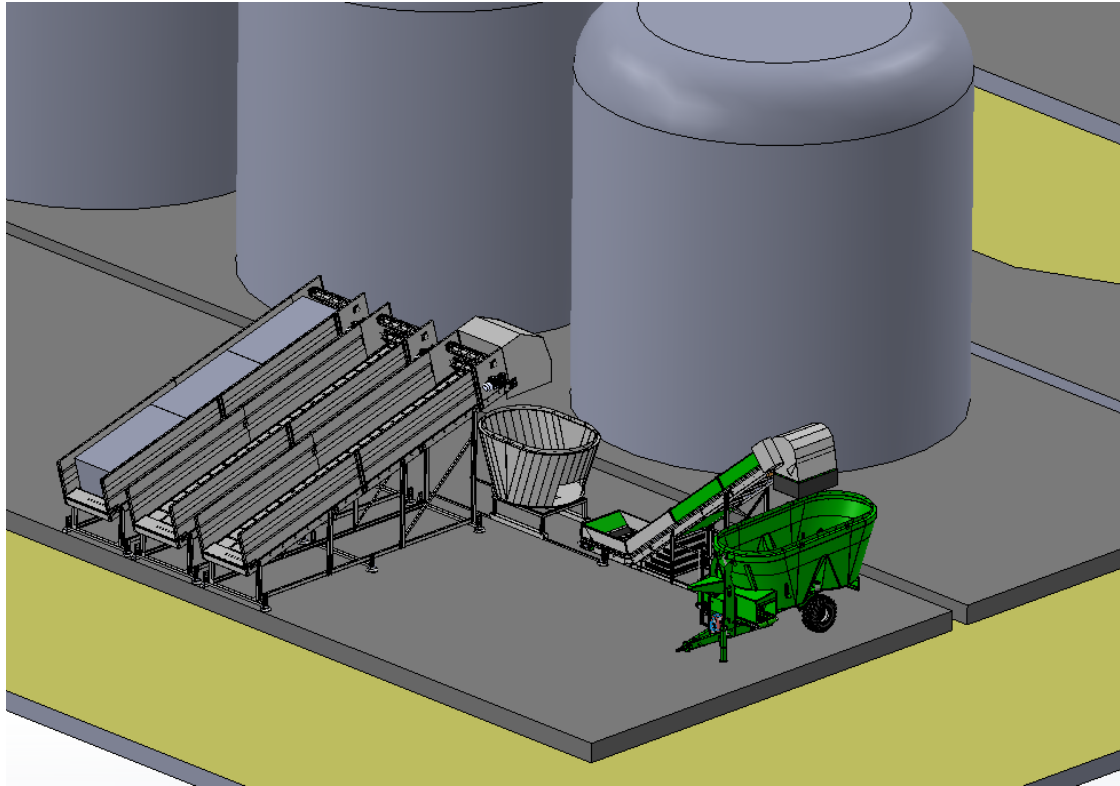
Solar Panels



Robotic Milking



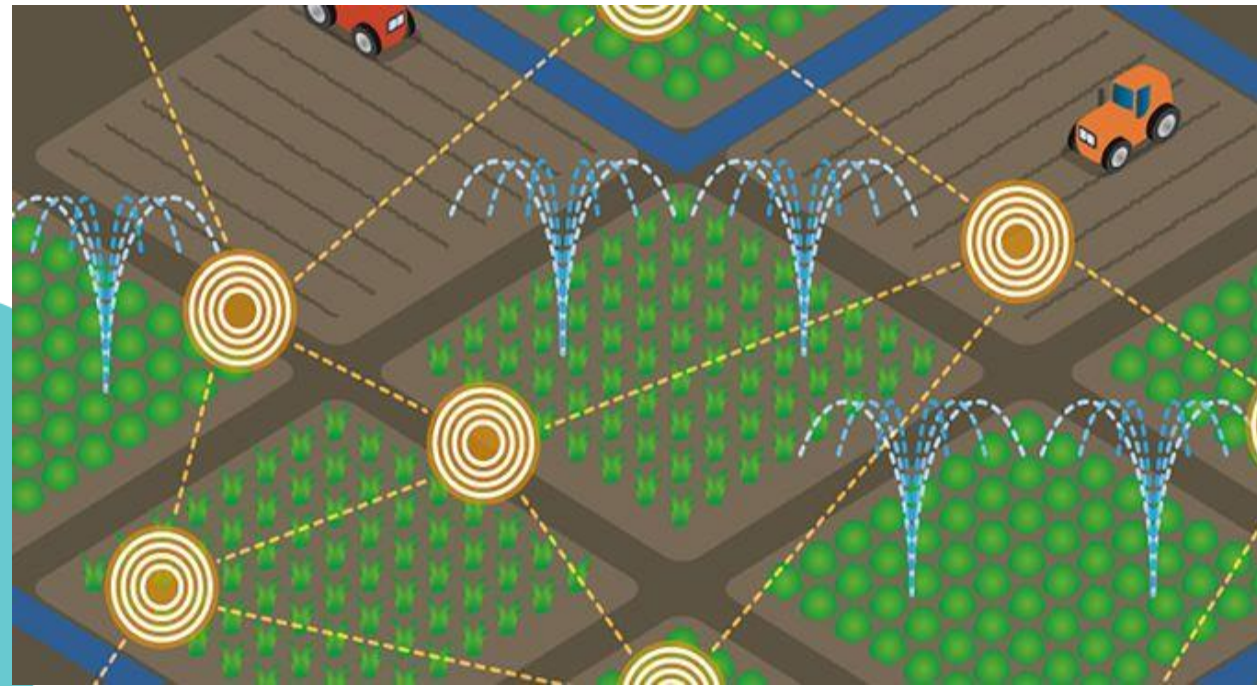
Fully Autonomous Feed Preparing



Fully Autonomous Feed Delivery



AI Controlled Watering



Biogas Plant



Plant Health Analysis with Drones



Electric Tractors



Role of Organic

- Early Detection of Diseases
- Sustainability
- Higher Quality
- Traceability and Transparency
- Documentation and Reporting Needs
- Reducing Waste

Conclusion

Digitalisation is not an option for dairy industry anymore. But how we do it and our aim to do it will make the difference.

In organic perspective, digitalisation may help us be environmentally and economically even more sustainable. Farmers need to think through step by step and if possible use local manufacturers if possible.



Thank You for Listening!

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