



HELLENICDAIRIES S.A.



InUse

Hellenic Dairies InUse application:

What if machines could talk?



HELLENIC DAIRIES GROUP

From a small village Dairy ...



...to No1 Dairy in SE Europe!





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MEET THE COMPANY

The Fastest Growing Dairy in Greece

No1 Dairy
in SE Europe

337mil
kg milk
collection

1275
employees

367mil
Euros in Sales *

5
Production
sites

Presence in
47 countries

** for 2019*



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MEET THE COMPANY

Production Sites

GREECE
Trikala
Yogurt, Cheese



GREECE
Larisa
Milk, Butter, Juices



GREECE
Xanthi
UHT Milk, Yogurt



ROMANIA
Brasov
Milk, Yogurt, White Cheese



BULGARIA
Silven
Yellow Cheese



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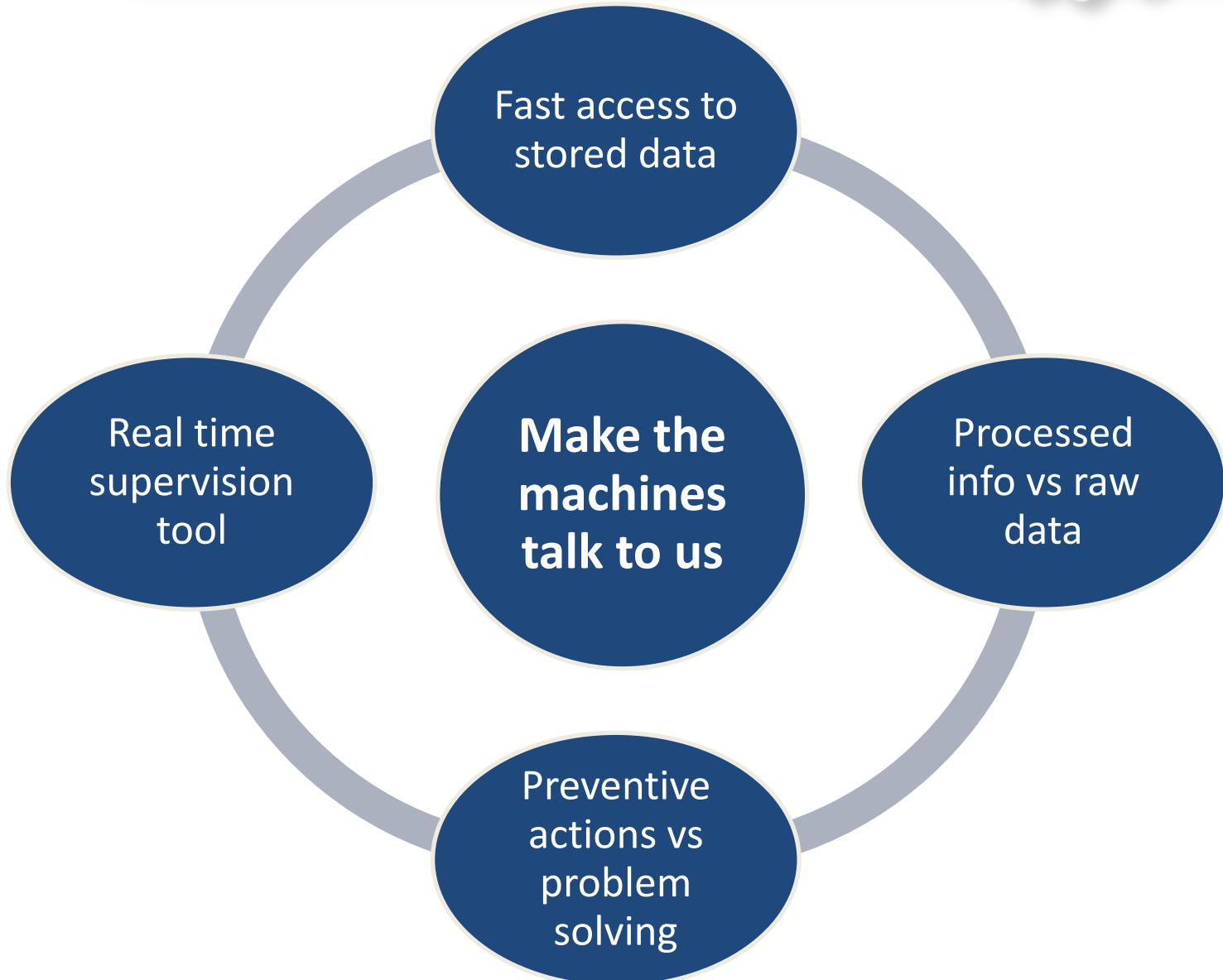


BULGARIA
Silven
Yellow Cheese



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The Challenge

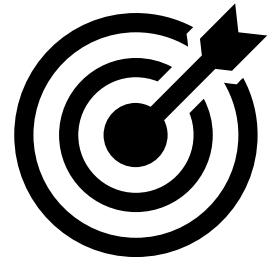




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Goals of InUse Project

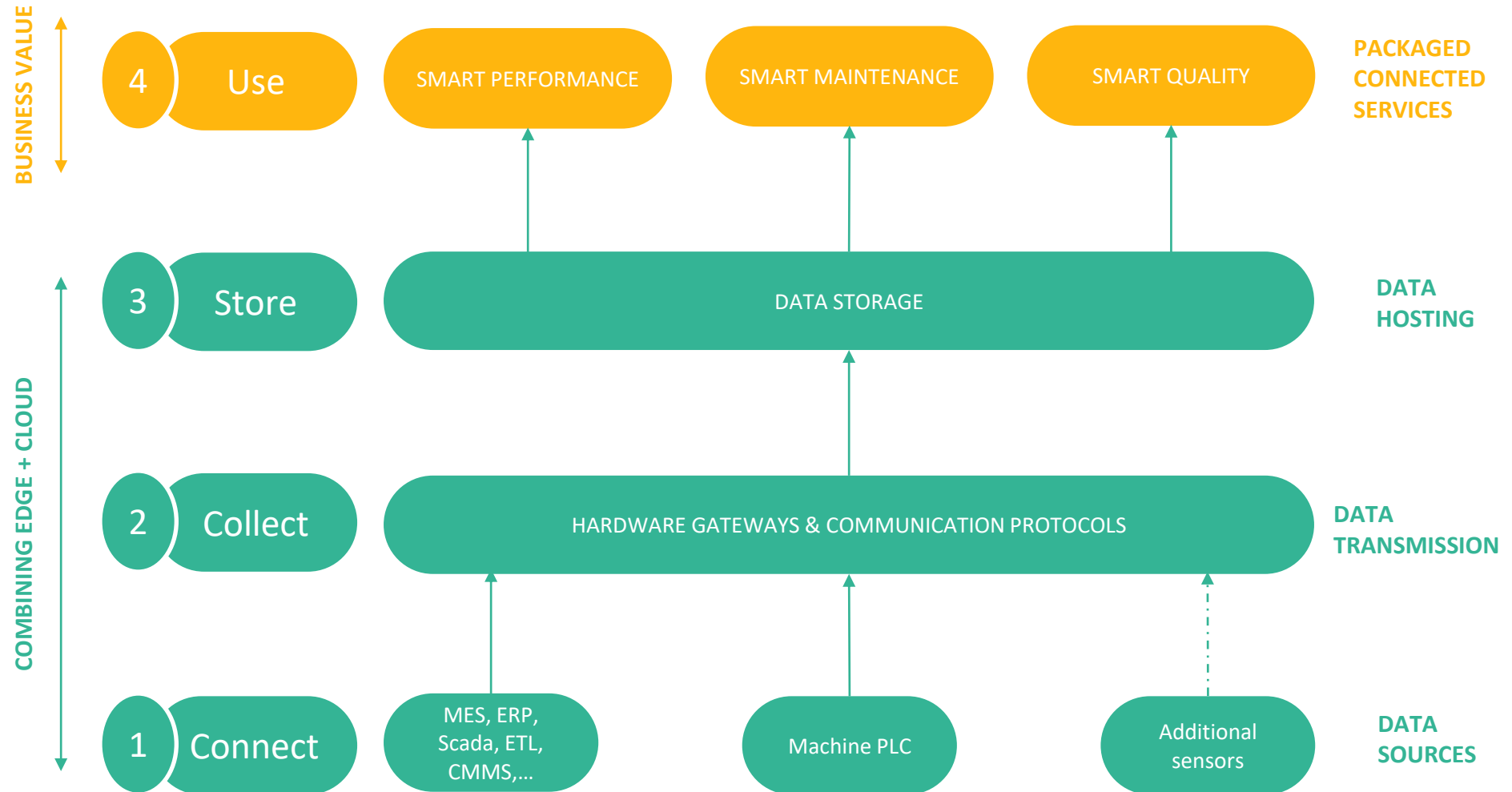
- Supervision tool → Provide a global view of the production
- Data reliability → Increase accuracy of analysis
- Decision making → Accelerate identification of best action to deliver
- Traceability → Track and trace better the production info
- Optimization → Increase global plant performance
- User-friendly → Simplify the job of the people





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Raw data transformed into connected services





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Benefits - Productivity





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Benefits - Traceability

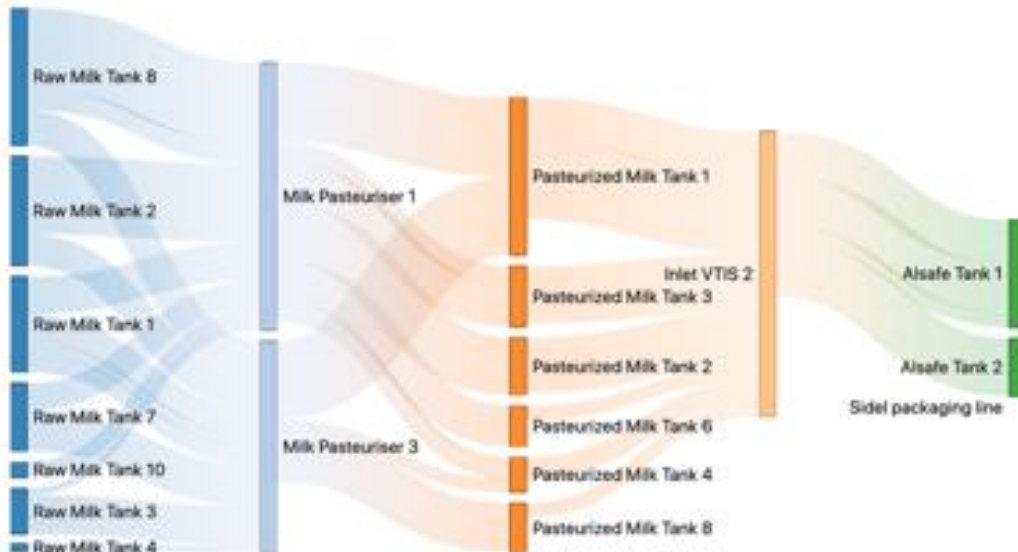
Packaging Department

Production

Production line n°	4
Line last CSP (jwcn)	07 Feb 2020 18:32
Production Start Date	08 Feb 2020 05:41
Production End Date	08 Feb 2020 19:53
Production Duration	14 h 12
Line next CSP (jwcn)	08 Feb 2020 19:53
Filler production (jwcn)	84,423 bottles

Quality Analysis Finished

Material	Type	Test	Avg value	Target Min	Target Max
Lapte 3,5% grasime 1,5 lt Pilos	Chemo Sample	Fat	3.56	3.40	3.60
Lapte 3,5% grasime 1,5 lt Pilos	Product Sample	pallets weight	814.12	806.30	817.30
Lapte 3,5% grasime 1,5 lt Pilos	Chemo Sample	Protein	3.42	3.00	3.60



Fast collection of data from many sources to provide an automatic traceability report with info including:

- Production general data
- Recipe details
- Quality of finished product
- Process & packaging critical data

Take-away: InUse simplified and accelerated a procedure that used to take hours.



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Benefits - Efficiency

Reduction of water consumption and time during cleaning of equipment

InUse calculates the balance of used material during production.

InUse enables further analysis of loss root causes to reach a predictive plan of actions.

Reduction of milk and packaging material losses

Paper-less procedures for the operators saved them time and effort



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Key Take-Aways

- Modern machines generate and store a huge amount of data. What we still need is a user-friendly way to access them.
- Better production supervision leads to optimization of every aspect of food manufacture.
- True and accurate data directly from the source is a priceless input in the process of decision-making.
- Connectivity allows us to move from an industry model that is based on stand-alone machines to a well-synchronized system of connected production units (machines → lines → departments → plants).



Thank you!