



Session **Data Governance:
How do Organizations deal with
Stewardship of Farmer Data?**

Title **dataHUB 360°: The high-speed data exchange
solution for dairy farming.**

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ICAR 2021 Présentation





Summary



Context



New architecture in the
Cloud



New solution to Exchange
data

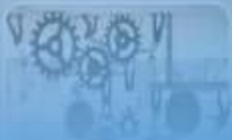


Challenge for the service
provider (MRO)





Context



Context



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Context

**Challenge to
follow the
farmer with the
news
technologie
for the MRO**



**Farming
Automation**



**New
generation
of the
breeder**



**More data
every day**



New architecture in the Cloud



New architecture in the Cloud



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New architecture in the Cloud



API : more connected to share information





New solution to exchange data

data **HUB**
360°

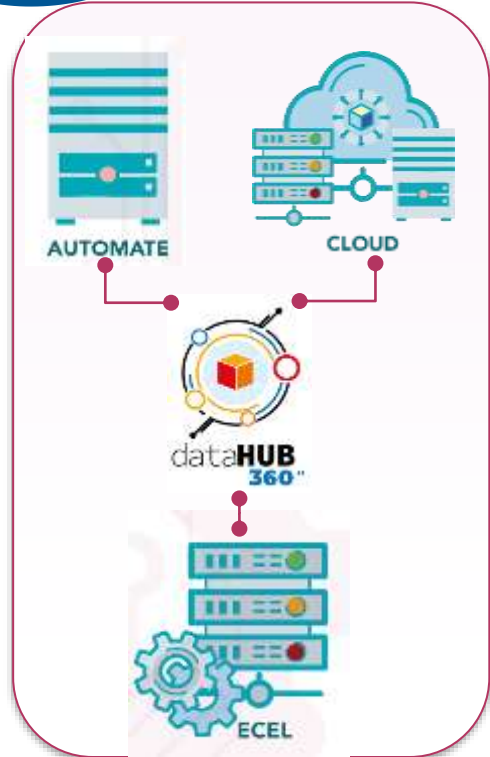


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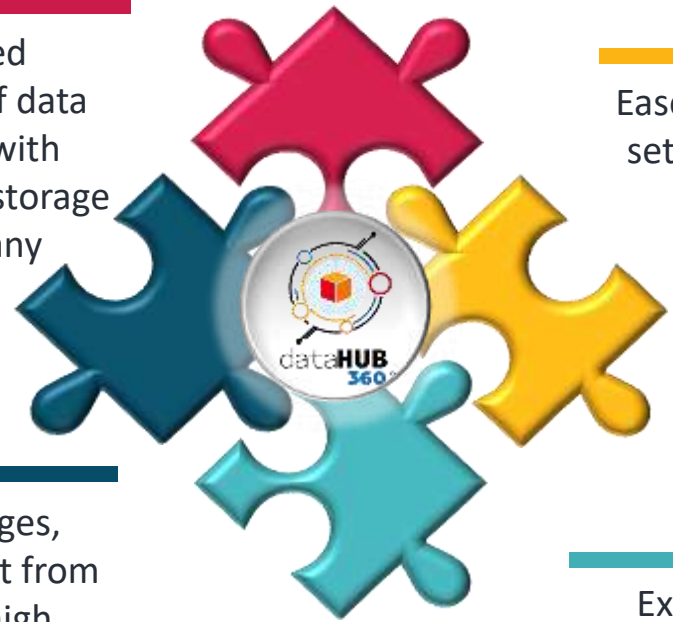
New solution to exchange data

DataHUB



Centralized monitoring of data exchanges with decentralized storage per company

Ease of use by remote setting and updating



Secure exchanges, informed consent from the breeder, high availability of the platform

Extension of the scope of data exchanged VS Ori-Automate



New solution to exchange data



Exchange data with the Cloud Manufacturer



*Batch
for each API*

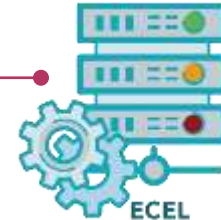


BATCH



dataHUB
WEB

*MRO or
dataBASE*



ECEL



WS FCEL

*WebService
Exchange data
with MRO*



dataHUB
APP



dataHUB
FLY

*WebService
Import/Export*

WS OA

Exchange data with Local converter (PC breeder)



dataHUB
360



dataHUB 360° Solution



DataFlow:

- Import data

Initialisation
Synchronisation

Every 5 minutes

- Export data

One time by day



Platform

- High speed data Exchange
- Multi-platform
- Bidirectional



Manufacturer

- API : Lely /Medria (SenseHUB in Progress)
- Local Converter : DeLaval / GEA / Boumatic/ SAC /AfiFarm
- Adapt each interface



Monitoring dataFLOW

- History Import data ,
- Detection of faulty connected automate



Situation in France with dataHUB 360° Solution



About the project in France

- Started in September 2018
- Operational in September 2019
- 42 MRO connected



Farm Connected

- 4078 automate connected
- 1600 with local converter
- 1100 API Lely
- 1200 API Medria



Data transfered

- Import: 670 K files
- Init: 1200 farm initialised
- Export: 790k files



Some screens of the solution

Navigation bar: dataHUB WEB, tracking of exchanges, farmers, Manager, administration, other, Lastest update 19:36, Seenovia, SAUNIER David SEENOVIA

Page Title: INSTALLATIONS Details by installation Period of 27/03/2021 to 06/04/2021

Type	Farms	Name	Last exchange	DATAHUB APP Versions	DATAHUB FLY Versions	Automate	Export (OA -> MRO)
17127005	EARL BOIS VLAIN		06/04/2021 10:46:02			ROBOT	LELY 06/04/2021 10:52:55

IMPORTATION : From MRO to the farm

Creation Date	File	Details	MRO	State
08/04/2021 08:58:07	LFR 17127005_2021040806004	08/04/2021 08:58:07		
04/04/2021 07:29:25	LFR 17127005_2021040318003	04/04/2021 07:29:25	19	
02/04/2021 20:54:29	LFR 17127005_20210402180038	02/04/2021 20:54:29	1	
01/04/2021 11:40:47	LFR 17127005_20210401180035	01/04/2021 11:40:47	1	
30/03/2021 21:22:21	LFR 17127005_20210330180042	30/03/2021 21:22:21	1	
28/03/2021 20:57:55	LFR 17127005_20210328180019	28/03/2021 20:57:55	1	

MRO Details

Animals	Milking	Calving	AI	Heat	PC	Dry Off	Activity	Body weight	undefine	Recovery Date	Acquittal Date	State
90	226	4	19	11819	226	06/04/2021 10:52:55	06/04/2021 10:52:55					
90	217	3	19	11543	217	06/04/2021 07:21:48	06/04/2021 07:21:48					
90	213	3	19	11489	213	05/04/2021 07:15:14	05/04/2021 07:15:14					
75	217	4	11393	217	04/04/2021 07:19:51	04/04/2021 07:19:51						
75	230	3	11489	230	02/04/2021 10:52:54	02/04/2021 10:52:54						
75	230	2	11543	231	01/04/2021 11:14:22	01/04/2021 11:14:22						

Annotations: 1 (Importation table), 2 (Export table), 3 (MRO table)

Footer: Show errors, Send Import file, Tracking updates, Comment, Search, Filter



Challenge for the service provider
(MRO)



(MRO)
Challenge for the service provider



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Challenge for the service provider (MRO)

For the breeder

- Avoid double entries
- Connected in real time
- Use the potential of software management
- Follow during new installation

For MRO

- Use the data of breeder sensor
- Milk qualification
- Monitoring the milk meter
- Automatisation of milk performance

Next step

- Export more data , feed, health,...
- Développement news tools
- Link to goat and beef breeder

