



Summer Course

Feed Efficiency in Meat Sheep
An example of dataset



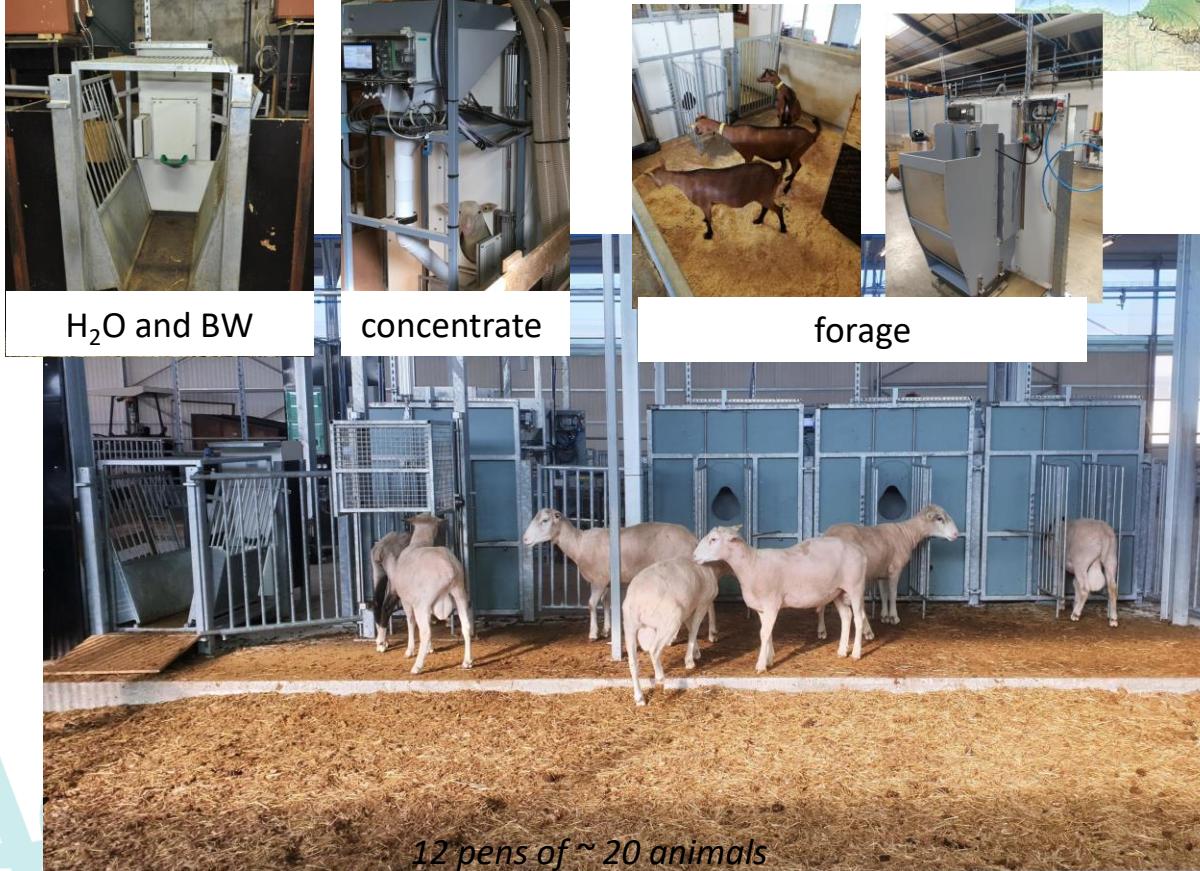
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Grant Agreement n°772787

> INRAE facilities

Recording of feed intake

Bourges experimental unit

- Dairy goats
- Meat sheep



La Fage experimental unit

- Dairy sheep
- Meat sheep



48 Individual troughs

> INRAE dataset

At the experimental INRAE unit in Bourges



« old-fashion » Automatic Concentrate Feeder

Have been used at INRAE from the early 1990s until 2021.

Each visit is recorded : in duration and quantity

→ Daily feed intakes

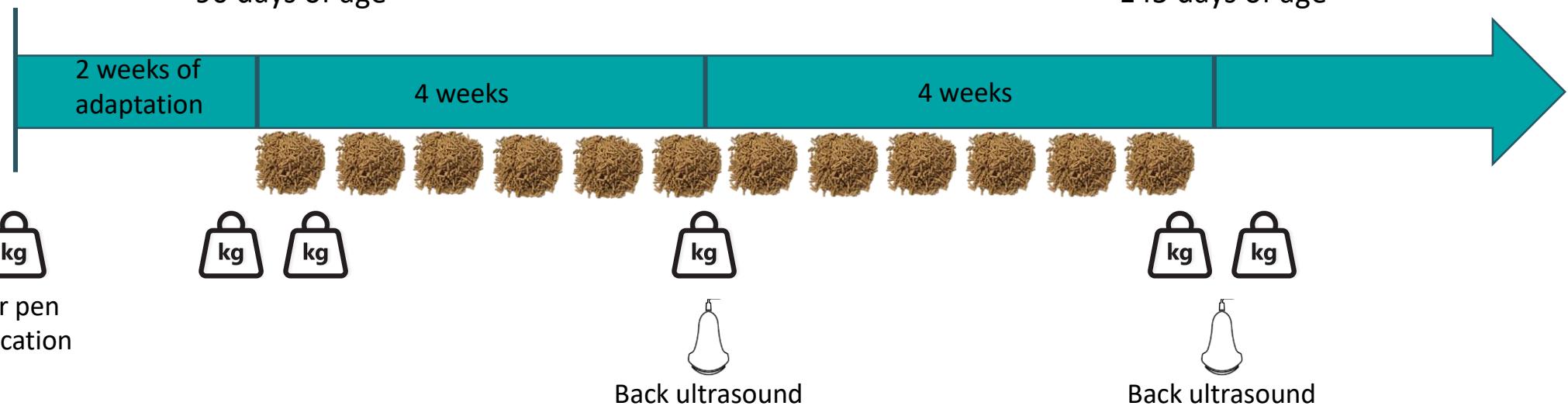
> INRAE dataset

Protocol

~75 days of age

~ 90 days of age

~ 145 days of age



Without feed recording : national protocol to select on meat traits in main meat sheep breeds.
At least : 50 lambs phenotyped in the same batch.

> INRAE dataset

Structure of the dataset

951 Animals phenotyped from 2009 to 2016

PERFORMANCE TABLE

sex	year	pen	rearing	Body weights Start and End of the control		ADG	Muscle depth at half and end of the control		Backfat thickness at half and end of the control		numero_animal
				BW_S	BW_E		MD_HC	MD_EC	BFT_HC	BFT_EC	
M	2010	7	3	35.85	55.1	320.8	2.45	2.63	5.7	6.1	3016
M	2010	3	3	37.7	57.35	327.5	2.76	2.92	5.5	6.1	3017
M	2010	6	3	29.45	49.35	331.7	2.68	2.75	6.5	6.9	3018
M	2010	6	3	32.05	51.95	331.7	2.9	2.94	6.6	7.5	3019
M	2010	5	3	37.7	59.15	357.5	2.48	2.62	6.5	7.1	3020
M	2010	6	3	30.8	48.95	302.5	2.37	2.7	5.8	6.2	3021
M	2010	3	2	42.35	64	360.8	2.89	2.79	7.3	8.2	3023
M	2010	5	3	36.6	54.55	299.2	2.37	2.61	6.3	6.2	3025

Litter size * rearing
mode * nb reared

INRAE dataset

Structure of the dataset

ACF TABLE	date_s	heure_s	Quantity ingested per visit	Duration of the visit	numero_animal	
	03DEC09	37517347	279	720	3016	 One observation per visit
	03DEC09	37529695	170	278	3016	
	03DEC09	37530976	111	160	3016	
	03DEC09	37535715	149	384	3016	
	03DEC09	37546688	165	423	3016	
	03DEC09	37547133	31	121	3016	
	03DEC09	37550779	151	468	3016	
	03DEC09	37563005	132	565	3016	
	03DEC09	37571003	120	256	3016	
	03DEC09	37577357	124	369	3016	
	04DEC09	37584856	140	320	3016	



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