

## ? Is it possible to find Merino rams that are more efficient and emit less GHG?



**1**  
Agroecological Breeding  
Objectives and criteria



Automatic feeding & weighing platforms  
42 d

**2**  
Reference population (growing)  
930 records  
1,962 animals 2019-2021

**3**  
Estimation of parameters & BV



PAC  
x2 records

**4**  
Ram's distribution  
Evaluation of commercial flocks

GIBBSF90  
 $V_{ijklm} = CG_i + BT_j + DA_k + age_l + a_m + e_{ijklm}$

Genetic Correlations

	RFI	F. intake	O <sub>2</sub>	CH <sub>4</sub>	CO <sub>2</sub>	GFW
RFI	<b>0.27</b>	0.79	0.37	0.64	0.50	0.05
Feed intake	0.75	<b>0.38</b>	0.68	0.88	0.77	0.13
O <sub>2</sub>	0.15	0.45	<b>0.26</b>	0.57	0.97	-0.13
CH <sub>4</sub>	-0.02	0.28	0.57	<b>0.23</b>	0.66	0.06
CO <sub>2</sub>	0.11	0.44	0.93	0.64	<b>0.27</b>	-0.15
GFW (wool)	0.01	0.24	0.26	0.18	0.27	<b>0.41</b>

Genetic trends for RFI & reduction of GHG emission

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