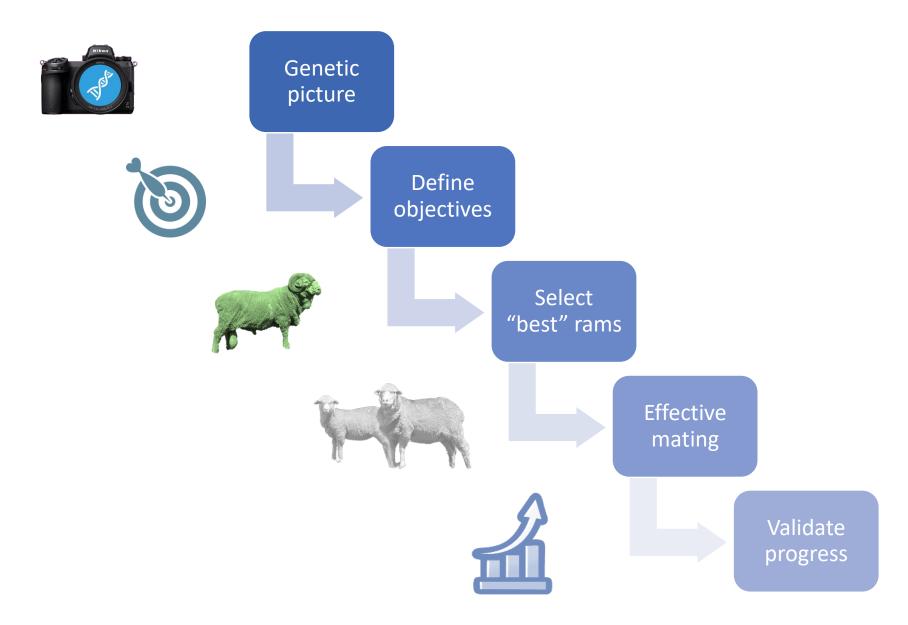






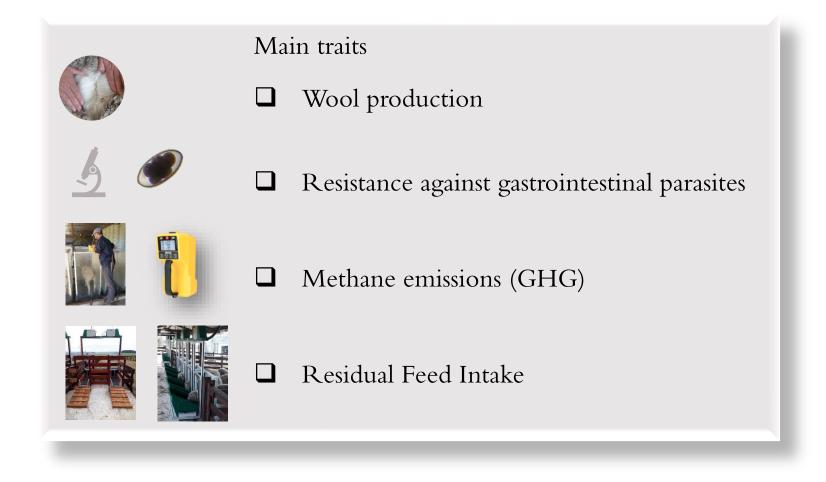


Predictomics applied to Regenerative agriculture



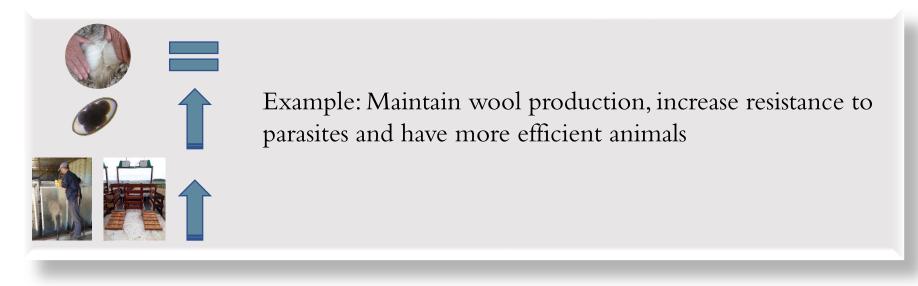


Take a picture of the genetics of the commercial farm: draw the baseline



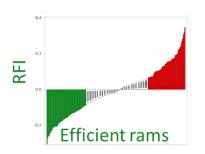


Based on the picture and LCA analysis define traits to improve or maintain genetic level





Select the "best" rams



- >1100 animals evaluated (>500 rams) for Feed Intake and CH4 emissions
- Reference population (nucleus) very close to commercial population
- Rams & semen dosses available with breeding value for main traits
- ☐ More efficient animals have 23% less feed intake and 6% less CH4



## Effective mating



- ☐ Incorporation of the new genetics into the flock: directly or by own multipliers
- ☐ Speed up replacement rate





## Validate progress



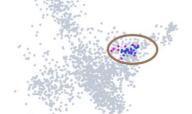
At the end of the project, estimate average breeding value for mian traits of rams used

or take a new genomic picture (multipliers)

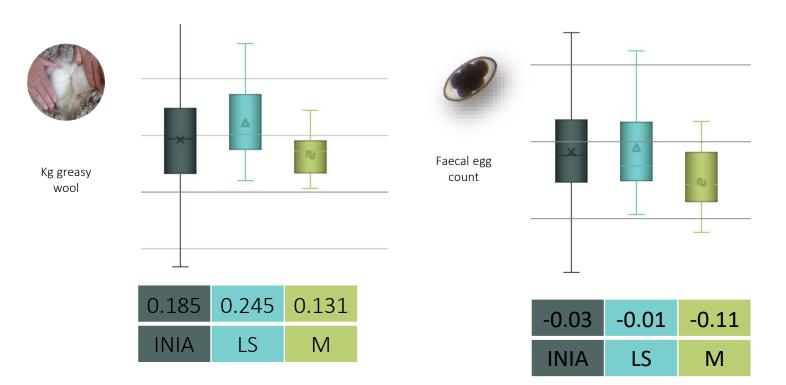


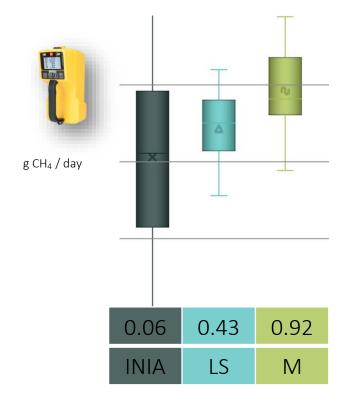
## Where are we now?





- We demonstrate that genotyped (nucleus) animals are close to commercial populations
- The genetic level for main traits in these populations can be estimated with very good accuracy



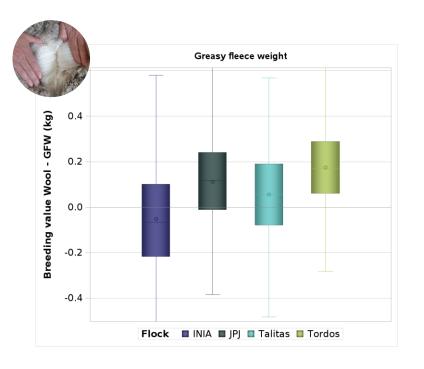


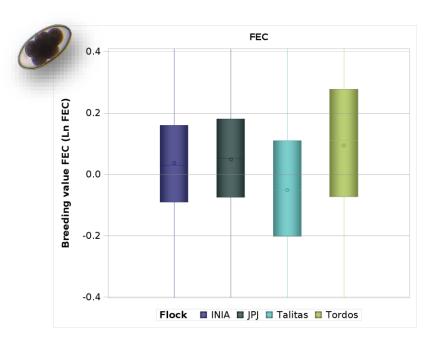


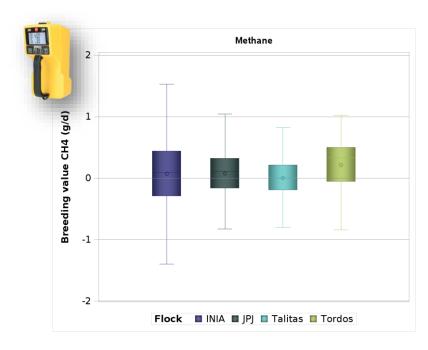




## Results for genomics evaluation (stud-flocks part of project)







Prod.	Flock	n *
Otegui	La Magdalena	1,890
Perez Jones**	La Aguada	1,658
de Brum	Talitas	2,915
INIA	Glencoe	5,514

<sup>\*</sup>Animals evaluated with accuracy>0.1 for CH4

<sup>\*\*</sup> former Los Manantiales