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How does broiler range use impact forage intake, outdoor excretion and gaseous emissions?

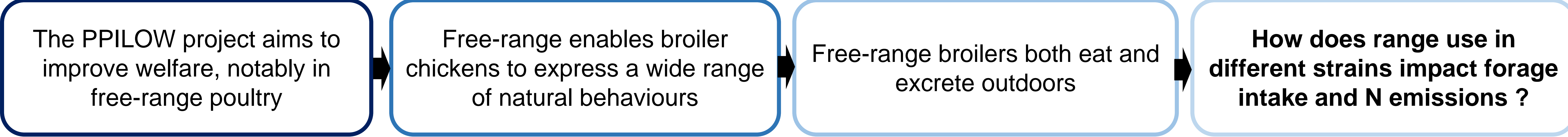


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Introduction:



Methods:

Radio Frequency Identification (RFID) to evaluate the time spent outdoors:
 On 100 males and 100 females

- No range use difference between males and females
- Projection of time spent outdoors per day on the whole population



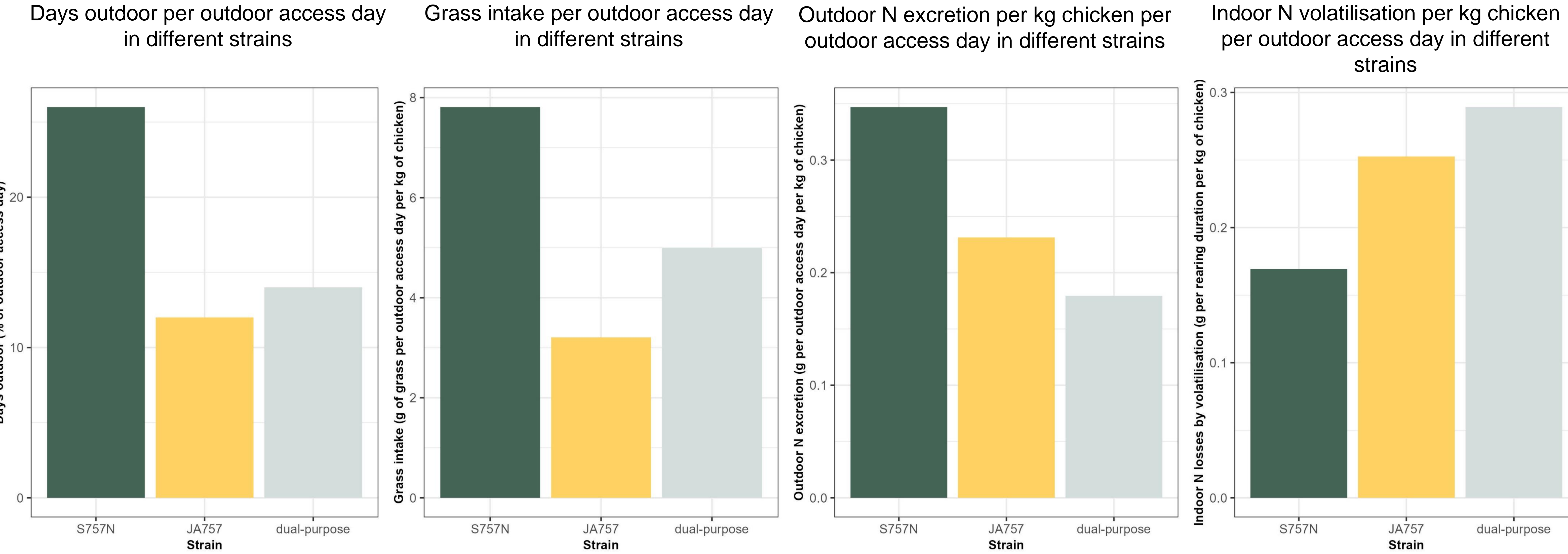
Strains S757N, JA757 and DP of average daily gains of 26 g/d, 36 g/d, and 16 g/d

Results:

Animal performances	S757N	JA757	DP
Slaughter age (days)	100	86	121
Outdoor access total time (days)	64	50	85
Number of animals at slaughter	648	656	656
Final body weight (kg)	2.6	3.2	1.9
Feed conversion ratio	3.25	2.73	3.93



C. Bonnefous, ©INRAE



S757N chickens spent about **twice as much time outdoors** as the other strains

S757N chickens consumed about **144% and 56% more grass** than the JA757 and DP chickens

Outdoor N excretions were about 50% and 93% greater in S757N chicken than those of JA757 and DP chickens

Indoor N volatilisation was about 33% and 41% lower in S757N chicken than in JA757 and DP chickens

Take home message:

