



Effects of the living environment on the behaviour of rabbits

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➤ Effects of the living environment on the behaviour of rabbits

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Context and objective

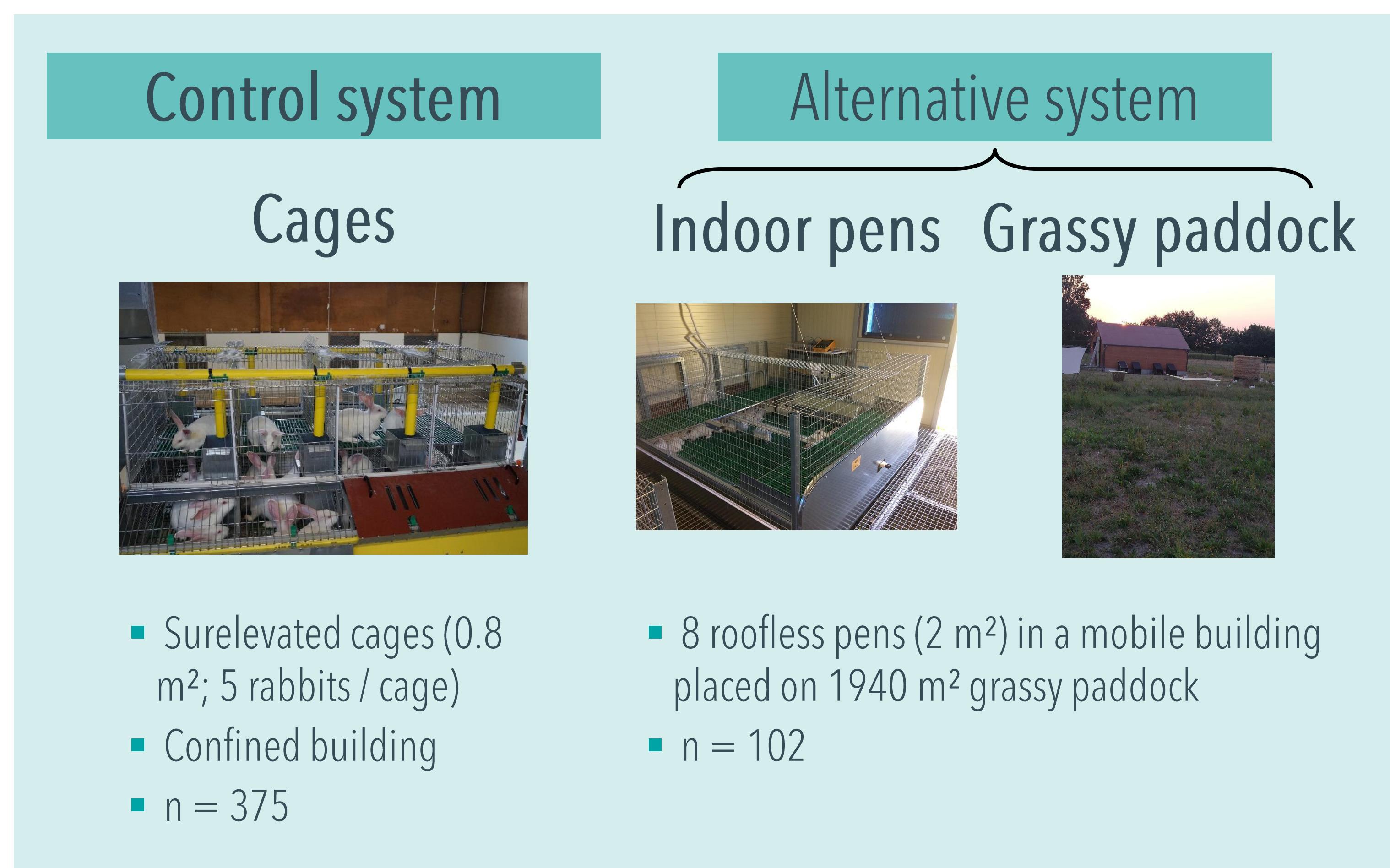
- Societal demand for improving welfare in livestock systems
- Citizens want animals to have access to the outdoor
- 95% of rabbits are raised indoors in wired cages



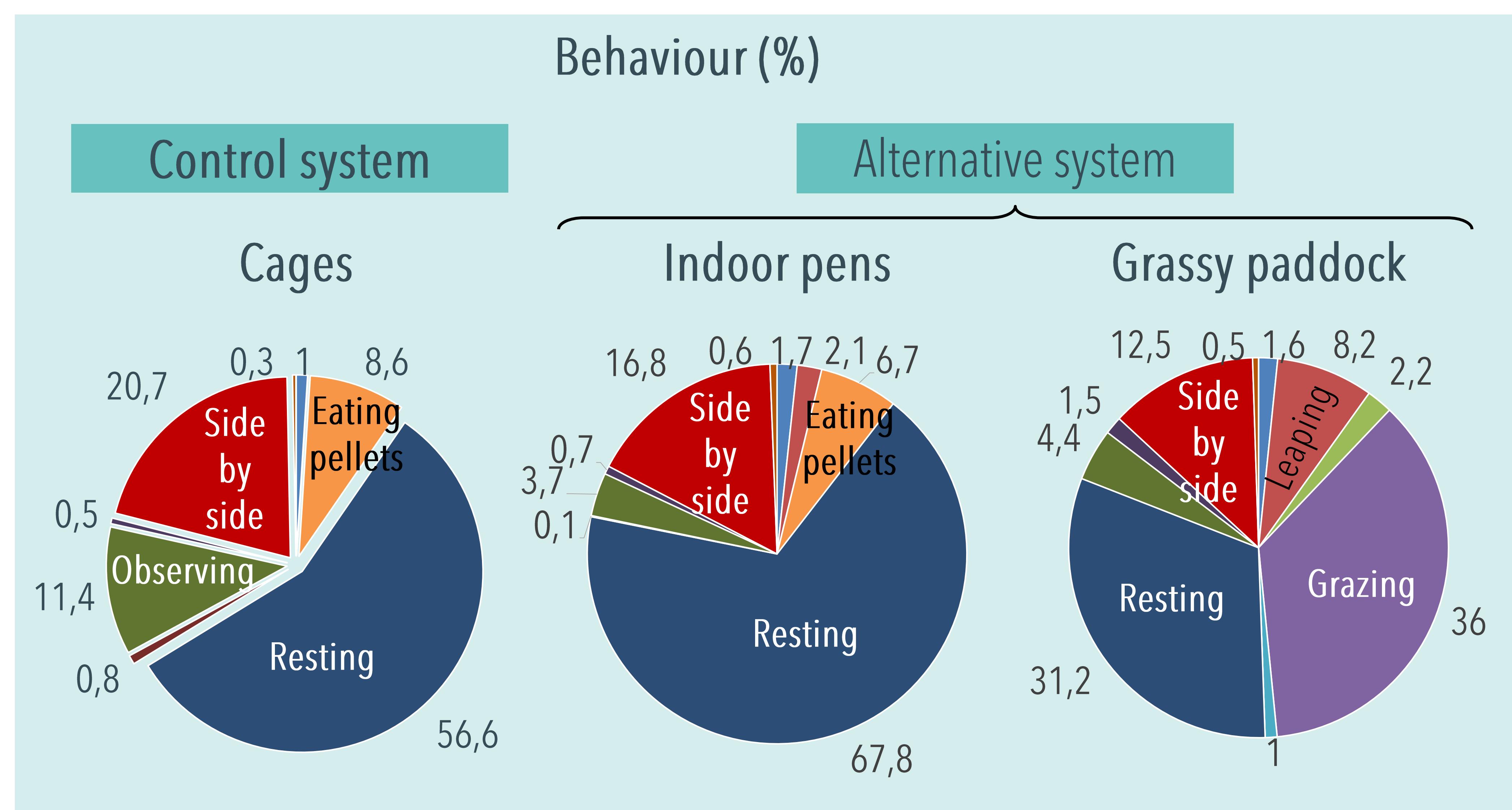
→ The trial aimed to study the effects of the living environment (cage vs indoor pen vs outdoor area) on the behaviour of rabbits

Method

- Animals: 477 rabbits weaned at 35 d. (two genetic lines)
- Period : summer 2022 ($t^{\circ} > 40^{\circ}\text{C}$)
- Observations: 45, 56 and 66 d., morning and afternoon
- Scan sampling (2 observers)
- Ethogram
 - Locomotion (walking, leaping, running)
 - Maintenance (grazing, eating, resting, gnawing)
 - Exploration (scratching, observing, standing up)
 - Social interaction (side by side, nose to nose)



Results



Statistical effects:

- Genetic line: NS except nose-to-nose
- Environment : $P < 0.001$ for all behaviour except walking, side-to-side and nose-to-nose
- Day : $P < 0.001$ except grazing, resting and growing
- Genetic line x environ^t : NS

High mortality : 24 % in the control system vs 49% in the alternative system ($P < 0.05$) due to excessive outside temperature

Conclusion

Access to a grassy paddock enabled

- A diversification of the behavioural repertoire
- A spatialisation of the living environment (differentiated use of space)
- A twilight behaviour
- To satisfy the rabbits' need to graze