

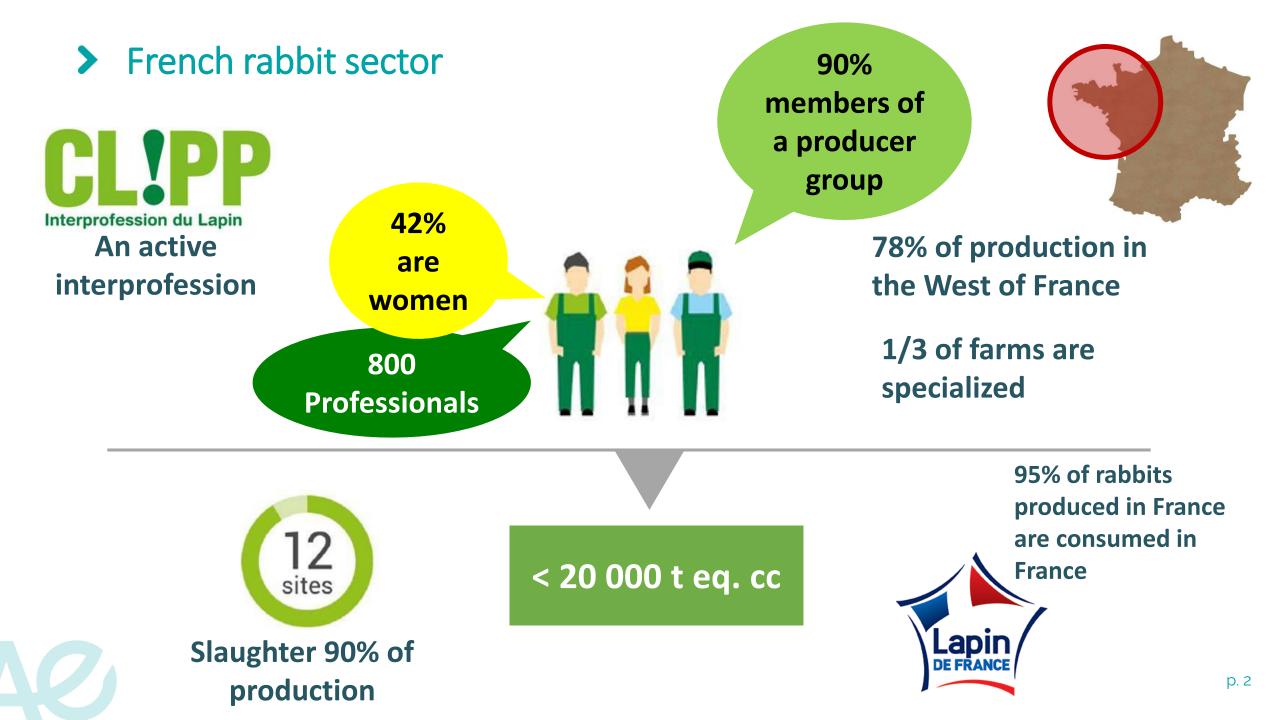


## Round Table 2

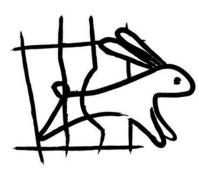
Rabbit housing - new farming systems with the regulations and social demand? Chairman: L. Maertens (Belgium)

## France: situation, methods, research, prospects Fortun-Lamothe L.





- Regulations and social demand?
- Regulation and social demands concerning <u>animal welfare</u>



"End the Cage Age" European Citizens' Initiative Citizens want the animals have an access to the outdoor

- Others subject no considered here
  - Antibiotic use
  - Price and quality : loi EGALIM in France
  - 50% of sustainable products, in particular with a sign of origin and quality (SIQO), in meals served in public restaurants\* from 1 January 2022
  - Alternative systems

## > Situation in France concerning housing systems

## Currently :

- ≈ 95 % of rabbits housed in cages (50% are polyvalent for "duo management")
- ≈ 4 % of rabbits housed in pens, floor pens or elevated cages (platform)
- <1% organic production (mobile cages fixed pen on grassland)
- The sector had set itself an ambitious objective:
  to reach 25% of the production from alternative systems by 2022

The objective will not be met but the situation is changing significantly



## > Private solutions currently available : for fatteners only !

#### Indoor system with large ground pens



Photo : CPLB

Photo : Terra

## Lapin et bien (≈ 15 farms)

## Cuniloft (<5 farms)

Hybrid housing combinating indoor elevated pen + winter garden



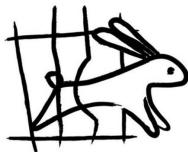
Photo : wisium

Wellap (1 farm)

## > No private known solution for females !

For females there is several questions:

- Possibility of « duo management » ??
- Large and enriched housing for jumping, standing up, gnawing....
- Grouping for social interactions



"End the Cage Age" European Citizens' Initiative

Within the Living Lab Project, NGO people said that "the grouping of rabbit does" not enter in the "end the cage age" area

The first step is therefore to offer a more spacious and enriched living environment for the females at an acceptable economic cost



## > Prospects in the French rabbit sector

## **EVALAP Project = state-funded recovery plan**

## Development and deployment of an interprofessional charter of good practices in rabbit farming

welfare + hygiene ( $\rightarrow$ VHD)



> Research projects at INRAE on welfare subject

## > Explore a gradient of system

- ♦ Indoor  $\rightarrow$  outdoor
- Specialized livestock systems = farms for meat production only
   to
- Agroecological systems: integrated crop-livestock integration for additionnal services to meat production

## Implements various research approaches

- Disciplinar research projects
- Pluridisciplinar research projects
- Open innovation = with non academic partners

Research projects at INRAE : indoor ground pen (<u>under consideration</u>)

#### For genetic studies

**For fatteners** 

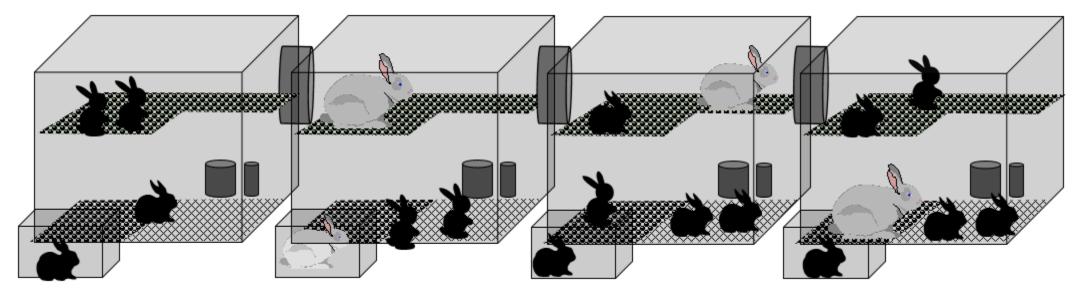


Photo L. Maertens



Research projects at INRAE : indoor large partitioned pens

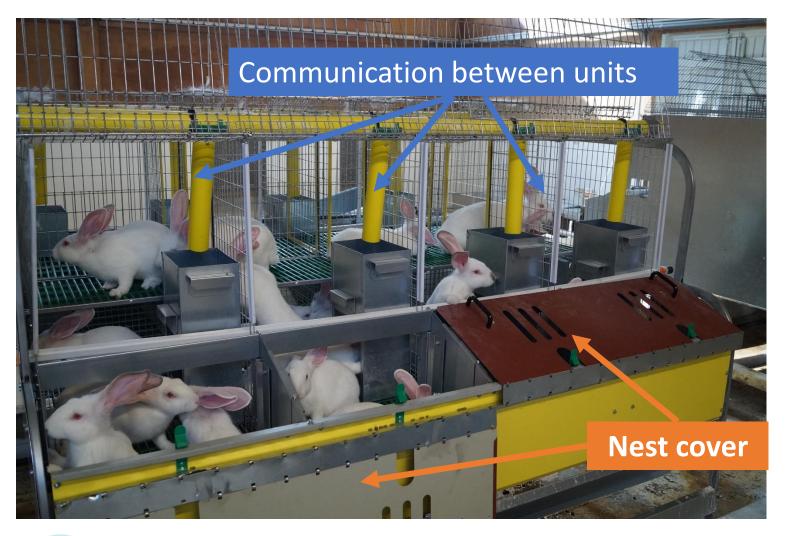
#### Four individual housings connected via hatches



For fatteners and reproductive females



## Research projects at INRAE : indoor large partitioned pens



Currently tested in commercial farms with « duo mamangement » in the Living Lab Lapin project

Improved natural behaviours

- Stand up
- Gnawing
- Jumping
- Hiding
- + Comfort (floor)
- Compatible with « duo managment »
- Easy transformation from individual to group housing

## Is it a cage or not ??



"End the Cage Age" European Citizens' Initiative

## Research projects at INRAE : with outdoor access

### **Currently for fatteners only**



Photo : M. Fetiveau (inrae)



See poster tomorrow: Fetiveau et al.

Fetiveau et al., 2021. Effect of access to outdoor grazing and stocking density on space and pasture use, behaviour, reactivity, and growth traits of weaned rabbits. Animal, 15 : 100334 See poster tomorow

#### **Improved natural behaviours**

- Grazing
- ✓ Stand up
- Jumping
- ✓ Running...

#### Climatic cumfort

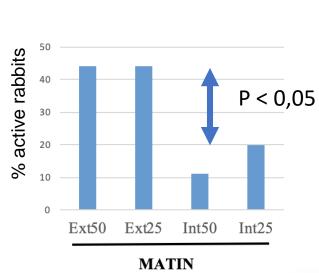
Parasitism ??? (weak effect for the moment)

## Research projects at INRAE : with outdoor access

Four experimental groups: Group size (50 vs 25) Access to outdoor : Yes or no

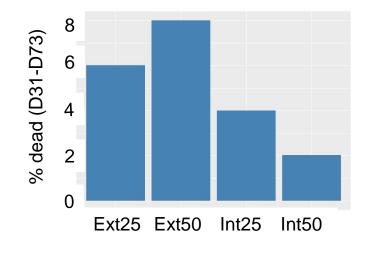


Photo : M. Fetiveau (inrae)

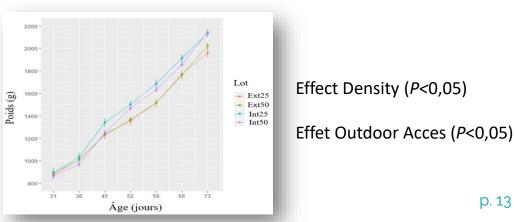


✤ Behavior

#### Mortality (P<0.1)</p>



#### ✤ Growth



p. 13

## > Research projects at INRAE : studies on organic production





Photo : T. Gidenne



Photo : T. Gidenne

Studies on farms or experimental unit by T. Gidenne et al. concerned feeding, health and performance (smartphone application developped) <u>but not animal welfare</u>

😑 💎 🎽 🧂 12:13

## Research projects at INRAE : integration tree-livestock apple tree-rabbit Project in progress by Savietto et al.



#### **Two housings testes**

Mobile cage

Fix pen

Services evaluated : meat production, Weed control, soil fertility, animal welfare, etc.) Possible dis-services: rabbit damage on apple trees, attraction of predators, disease for rabbits (copper poisoning)





# Than you for your attention

