



6th INTERNATIONAL BIOCIDAL CONGRESS

17-20 November 2022

Asteria Kremlin Palace Hotel - Antalya

6th International Biocidal Congress

EDUCATION AND TRAINING

BERTRAND MONTMOREAU

Overview of the main European Regulations

- ▶ **EU Regulation BPR 528/2012** the aim is to find the right balance between efficiency (toxicity) and risk (toxicity)
- ▶ **Market authorisation is delivered for 10 years only if we match .**
- ▶ **CLP regulation**



EN 16 636
Standard

CEPA
protocol

The 22 product types

- ▶ PT4 Desinfectant
- ▶ PT8 Wood protection in buildings
- ▶ PT14 Rodenticides
- ▶ PT18 Insecticides

Training professional is critical

- ▶ The biocide regulation has introduced the notion of Pest trained professional.
- ▶ Product authorisation are selecting uses which are exclusively dedicated to pest trained professional :
 - ▶ Rodent baiting outside building
 - ▶ Burrier
- ▶ But there is no regulation on education and training
- ▶ European norm EN 16636:2015 concerning Pest management services has listed the Requirements and competences to be a pest professional .

Site Inspection and monitoring



A diagnosis of the situation, and of potential infestation shall be communicated to the client including :

Detection and identification of the pest species

The level and localisation of their presence

The local factors which would favour further proliferation

Preventive measures to prevent further proliferation

Evaluation of previous interventions

Risk assessment

When considering alternative treatment strategies the PCO shall consider :

- the nature & structure of the premises, activities performed at the site
- the client's attitude to risk (nature of pests, probability of presence &/or proliferation)
- potential impact of the intervention on the environment & non-target species.



Pest management plan & bait location

5.6

5.6. Pest management plan definition

The PCO shall propose a pest management plan: define the appropriate strategy, a timetable of actions, adapted to the type of client/industry & any relevant local factors.

The pest management plan shall be adapted to different situation :

The presence of pest , which one, where, how many (low, medium or high level of infestation) = Monitoring + bait.

No pest but a high risk of future infestation = permanent baiting has to be considered and documented

No pest and no favourable factors for a proliferation of pest = Monitoring is the best practice.



IPM Integrated Pest Management

- ▶ Risk assessment
- ▶ Pest identification
- ▶ Monitoring and assessing pest numbers and damage
- ▶ Guidelines for when management action is needed
- ▶ Preventing pest problems and recommendations
- ▶ Using a combination of biological, cultural, physical/mechanical and chemical management tools
- ▶ After action is taken, assessing the effect of pest management and issue recommendations
- ▶ Report and record.

The main issues In urban pest:

- ▶ 3 urban pests to control:
- ▶ Rats Keep them underground
 - ▶ Do not let the first visitor in !
 - ▶ Do not feed them
- ▶ Prevention is more efficient than pest control
- ▶ Prevention means proofing, cleaning, monitoring

The main issues In urban pest:

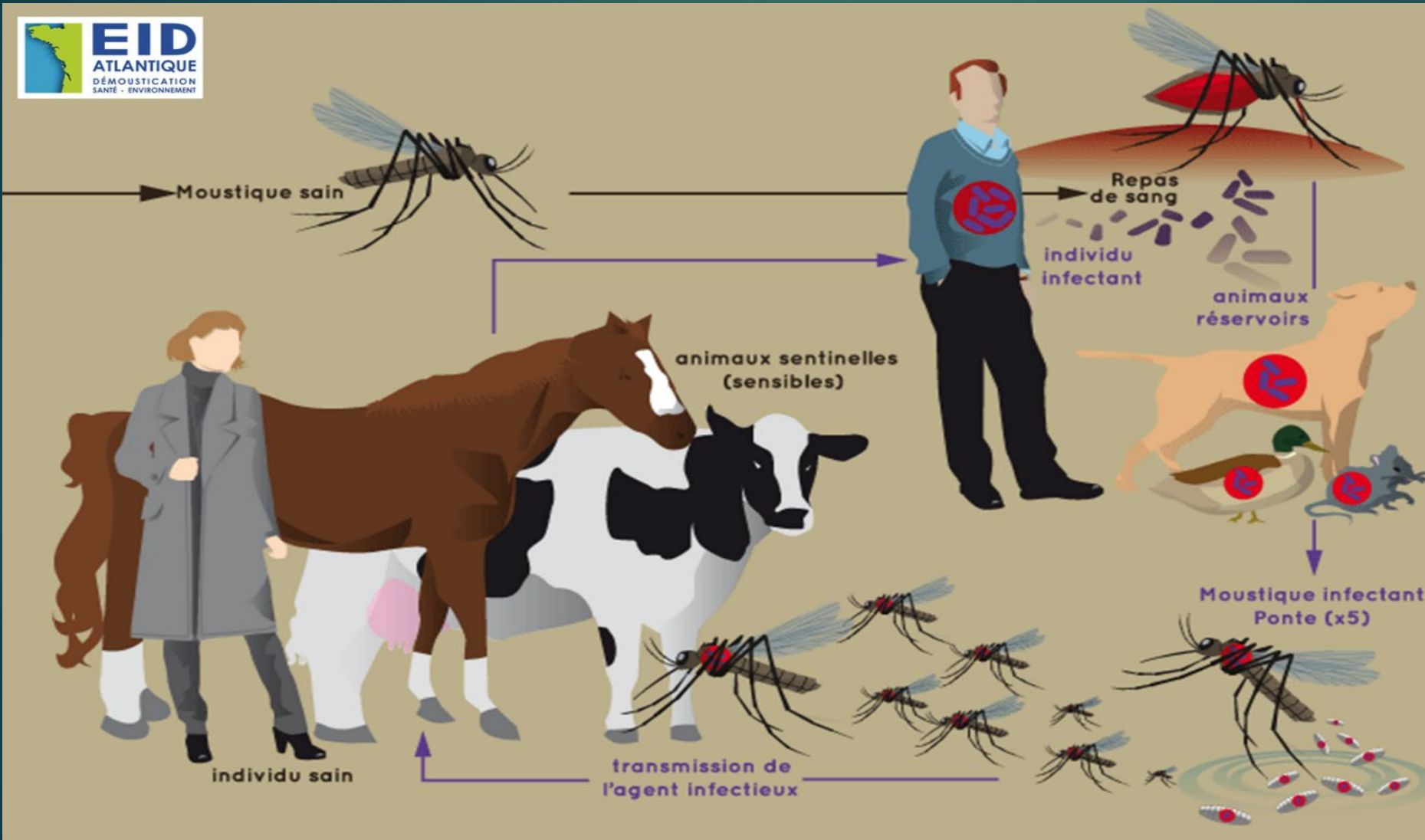
▶ Bed bugs

- Do not bring them back home
- Do not move anything from the room and call a specialist
- Alternative solutions are generally more efficient than Biocide
- Dog detection has to be considered when you have a suspicion

Mosquitoes Aedes :

do not provide the nest in your garden

- use repellent of last generation. (Icaridine)



General Approach on urban pest control and IPM

Integrated Pest Management

▶ 3 technics to develop

➤ Monitoring

➤ Glue trap

➤ IoT



➤ Trapping

➤ Biocontrol products (micro or macro organism)

Biocontrol use your local friends

▶ Coccinelle



▶ Chrysope



▶ Syrphé



General Approach on urban pest control and IPM

Integrated Pest Management

▶ **3 human resources**

➤ **Attract operators**

➤ **Protection of operators and public**

➤ **Loi Labbé**

➤ **Education and training**

Education and training

- ▶ Danger of products, risk assessment. Toxicity, letal dose.
- ▶ Risk mitigation measure, personal protection equipment, Specific uses, restriction of use for specific population (amateurs)
- ▶ Specific uses dedicated to pest trained professional users. Attitude in case of emergency
- ▶ Storage, disposal of toxic products. IPM Integrated Pest Management
- Set action threshold
- ▶ Pest Identification and monitoring Pest prevention Pest control
- ▶ Rodents biology. Rodents monitoring and control
- ▶ Actions authorized only for trained professional users.
- ▶ Insects and arthropods biology and pest management
- ▶ Some species will be addressed : Mosquitoes (*Aedes albopictus*), *Vespa velutina*, *Blattella germanica* and *Cimex*.

General Approach on urban pest control IPM Integrated Pest Management and Education

- ▶ **3 human resources**

- **Attract operators**

- **Protection of operators and public**

- **Education and training**

- **Thank you**

- **b.montmoreau@air9.info**