

# An effective strategy to obtain very rapidly the Red Palm Weevil decline in areas planted with ornamental palms

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# Main constraints to obtain the rapid decline of the RPW: an efficient collective organization and the costs

- The disperse management of the RPW has led to a general failure, excepted in few places (Canary Islands, Tanger, Ceuta)



# Why the different components of area-wide control strategy are not implemented

- Frequent inspection and trapping: poorly implemented although efficient and low cost if palms owners and gardeners were mobilized and trained.



Classical Preventive Treatment: rarely implemented because too difficult to apply and too expensive (each 3 weeks and by soaking targeted zones not easy to reach).

RPW eradication in the infested palms: no implemented or too late because costly and wrong management of the wastes.



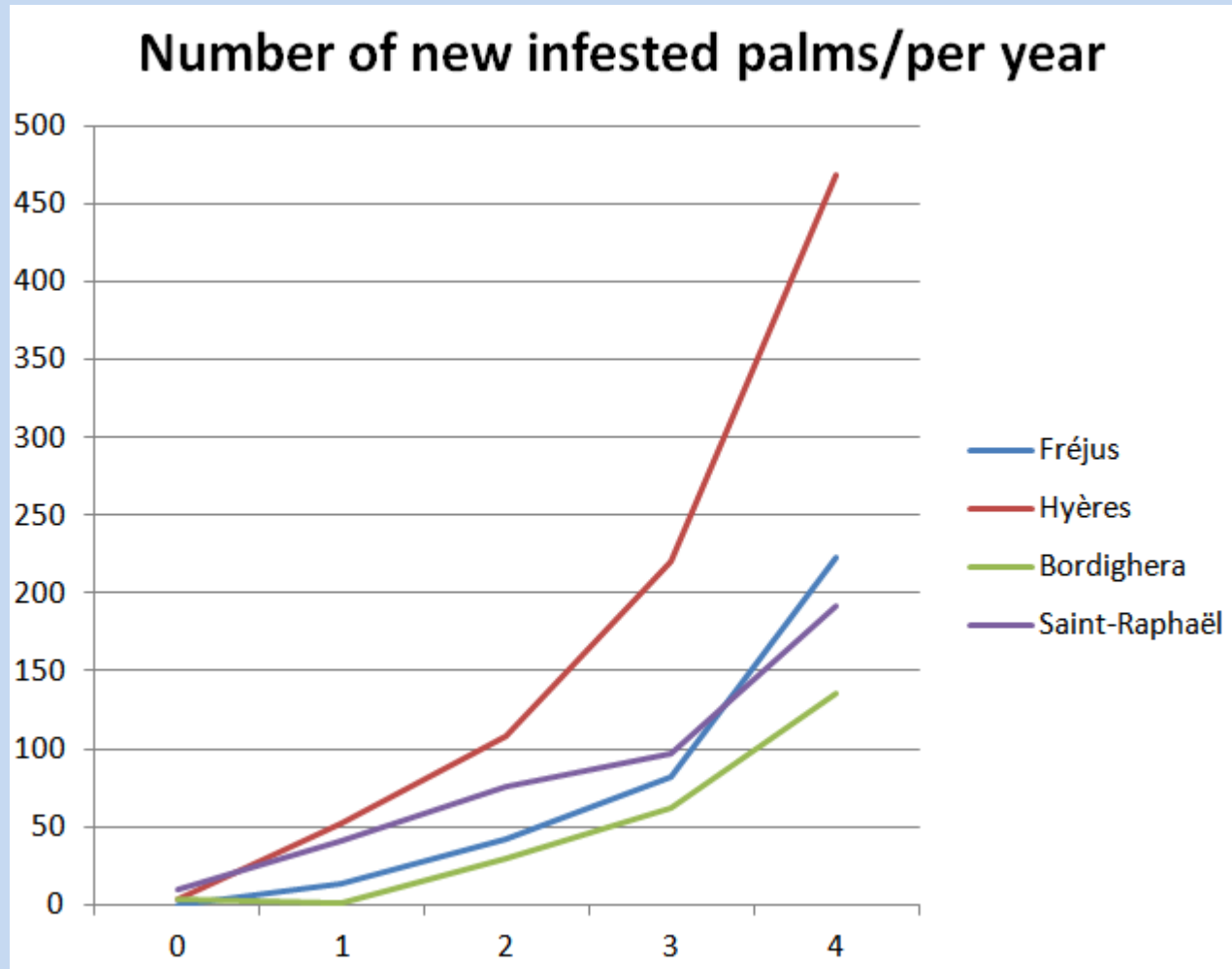
Larvae are not xylophagous: they can't survive in drying tissues



# Consequences: palms with an explosive RPW proliferating and dispersal capacity are everywhere



# Consequences of lack of collective strategy: doubling of the number of infested palms each year



# A technique to simplify and reduce considerably the cost of the preventive treatments

See Susi  
Gomez  
presentation

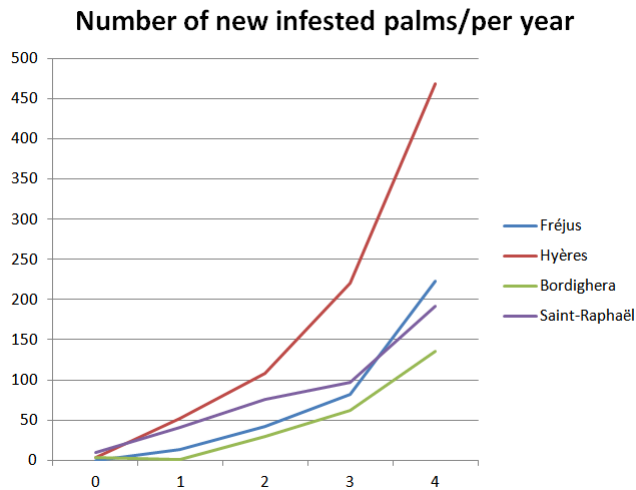


When similar EMA formulation available, cost divided by 20 compared with soaking treatments

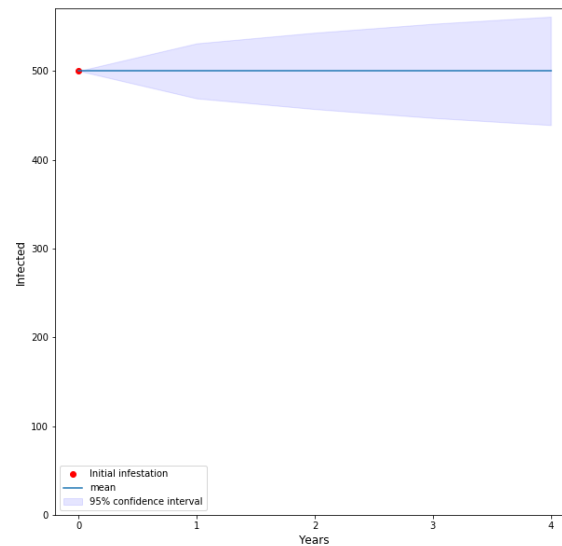
- The objective: to obtain the rapid decline of the RPW by facilitating and reducing considerably the implementation of one of the component of the IPM strategy.
- To stop as soon as possible the implementation of chemical preventive treatments

# How campaigns of collective preventive treatments can lead to the rapid decline of the RPW ?

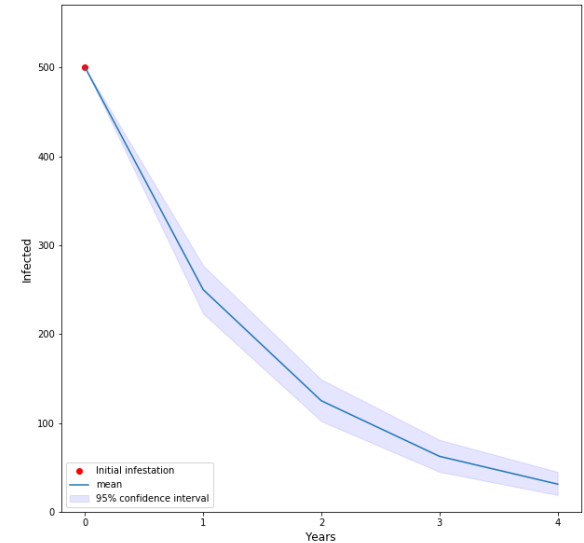
Evolution of the number of new infested each year



No treatment



50% of the palms treated

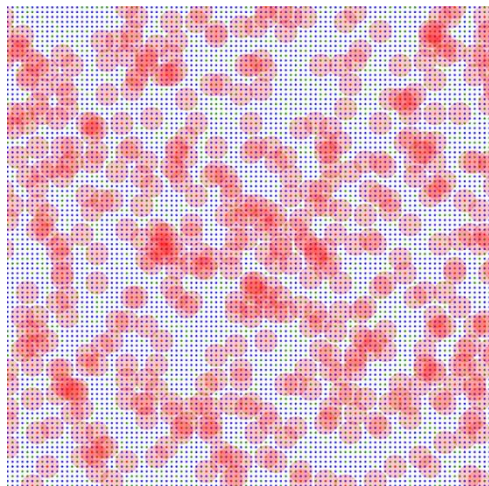
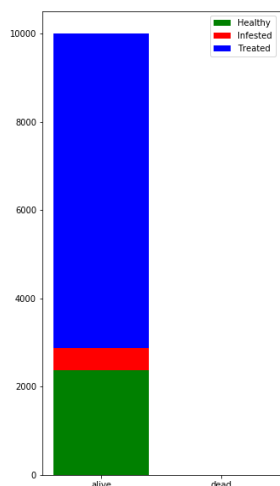


75% of the palms treated

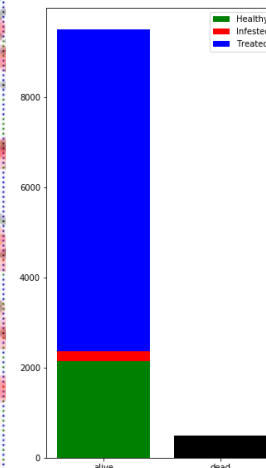
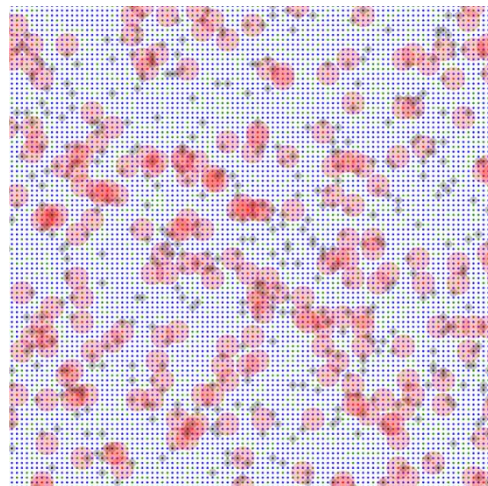
Scenario based on a binomial distribution with a confidence interval of 95%



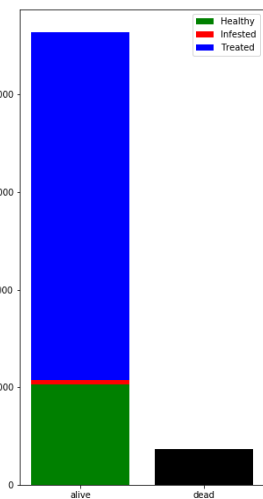
# Rapid regression of the number of infested palms and of the number and surface of potentially infested areas (red circles)



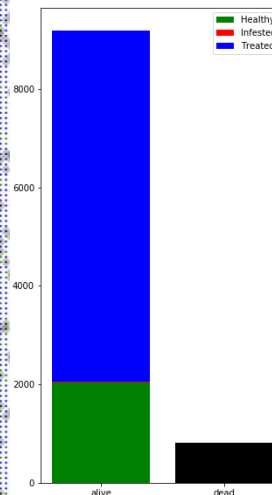
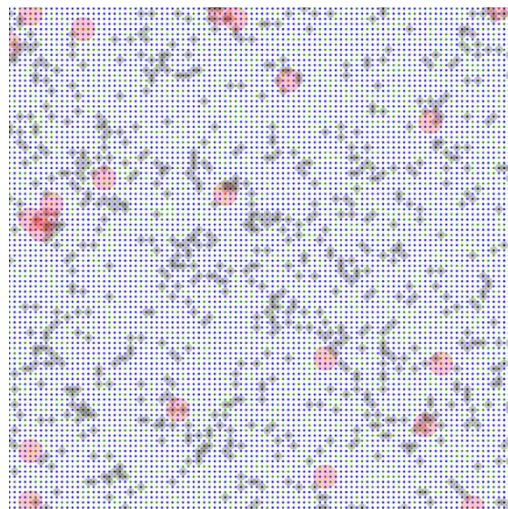
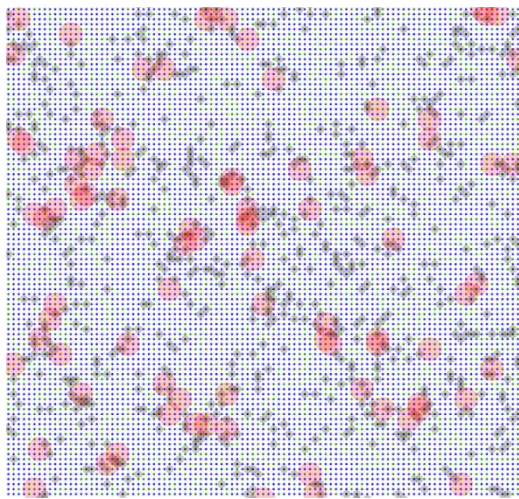
Year 0



Year 1

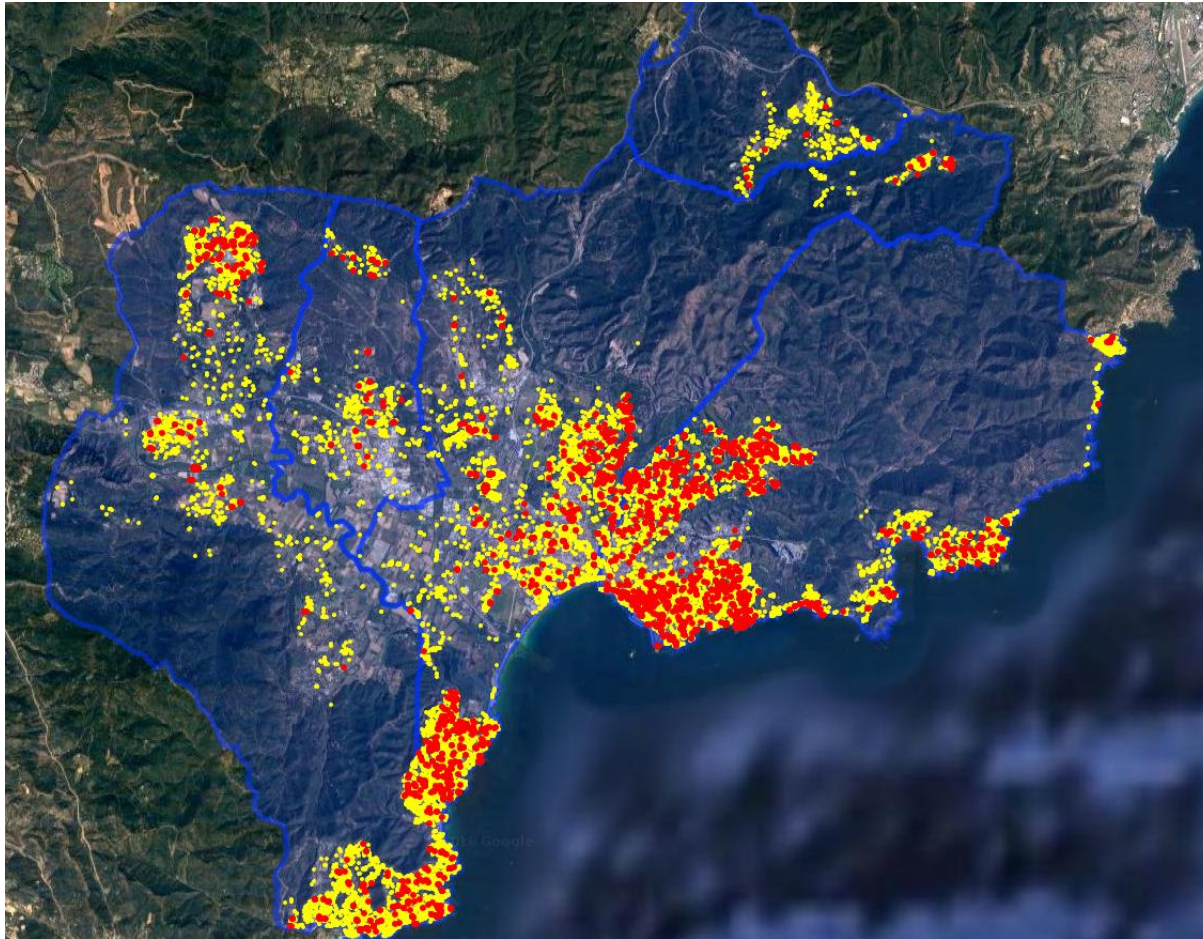


Year 2



Year 3

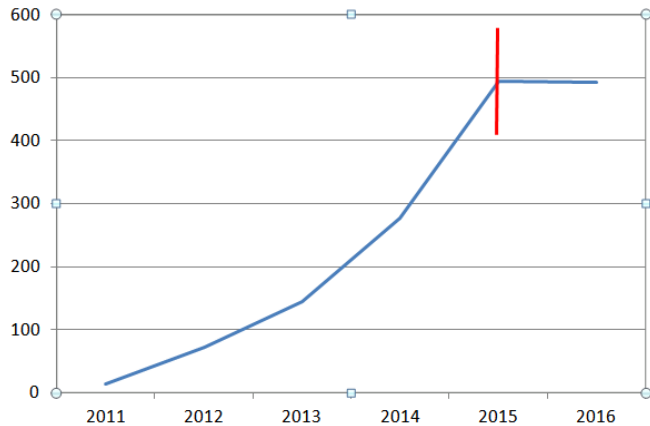
# Strategy adopted by a group of municipalities in the French Riviera



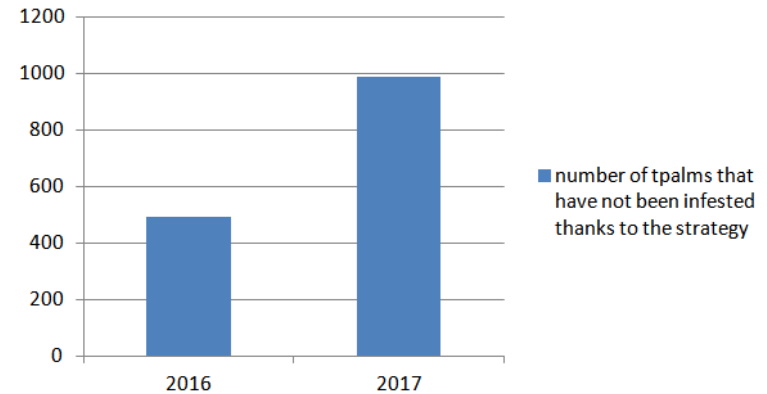
Cooperation between a group of 5 municipalities (CAVEM) and a palms owners association (Propalmes 83) with the support of the PPO.  
Around 50% of the palms injected the first year.

# Results

### Evolution of the number of new infested palms (CAVEM)



### Efficiency of the strategy

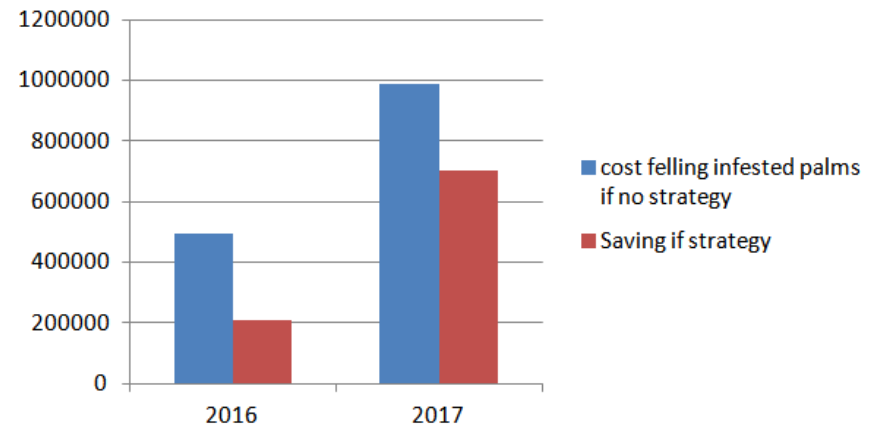


% of treated palms to reach rapidly 75%. Plus effect of 500 traps and of new municipal regulation to oblige the owners to sanitize or cut the infested part of the infested palms.

➡ Rapid decline still quicker.

But remains to convince quickly the surrounding municipalities and to apply an area-wide approach.

### Cost/benefit



**Thank you**

