The final solution

Hop/Skip/Jump results

Blanket spraying infestation information

Surveillance information

Modelling movement from initial probability

Probability of infestation factor for in low yield

Risk map for low yield

High yield households

Can we estimate that
we have removed close to
everything?
When the probability to get something
over the whole map is under one we should be good!

General Risk map

Probability of infestation in high yield

Selection strategy for low yield

Probability of being positive
and expected uncovered high yield
depending on number of selected houses
ui, vi, qi

Overall evaluation on the next 20 years

Current optimization criterium:
- minimize moves in next month
if movement slow
= maximize positive found in next month

Simulation of control and possible yield

Maximize expected reward for next month

Inspection of the houses of the week