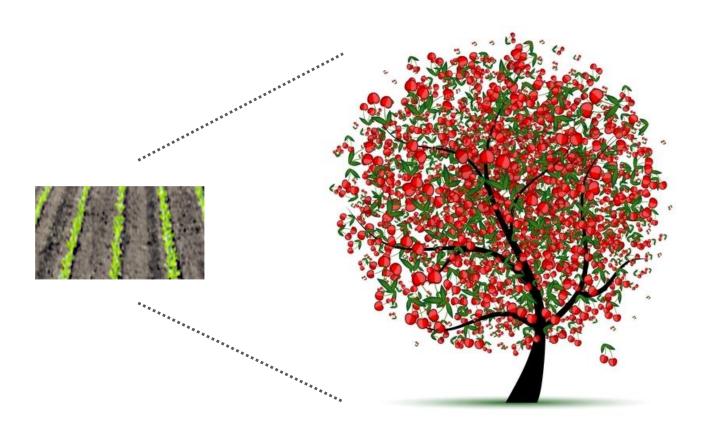


Less is more

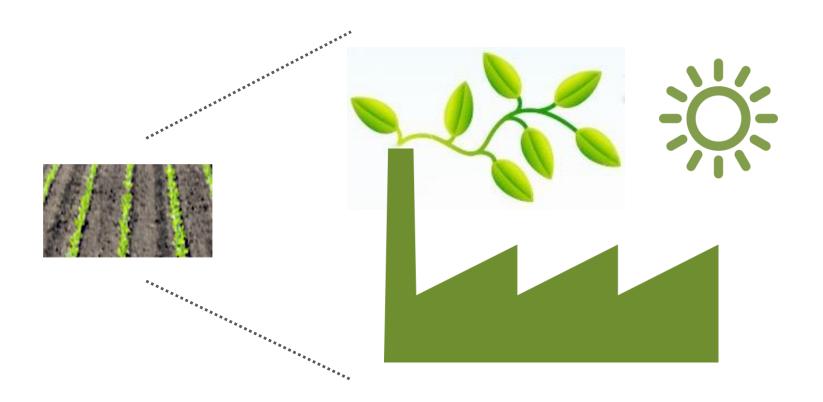
Elke Van Asbroeck Managing Director







- 1. Healthy plant today
- 2. Even healthier in future



- 1. Risks properly controlled
- 2. SVHCs progressively replaced
- = AIM AUTHORISATION (art 55)





Exposure is well controlled

Opportunities to further reduce emissions





Description R&D history

Opportunities to find even better solutions





Balance of impacts "use -applied-for" vs "non-use"

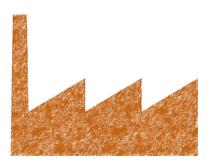
Need?



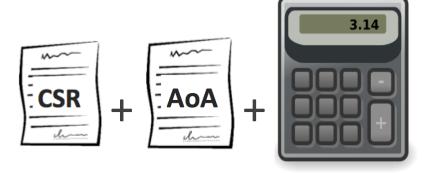
When



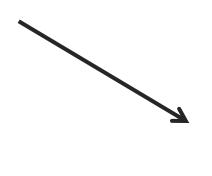












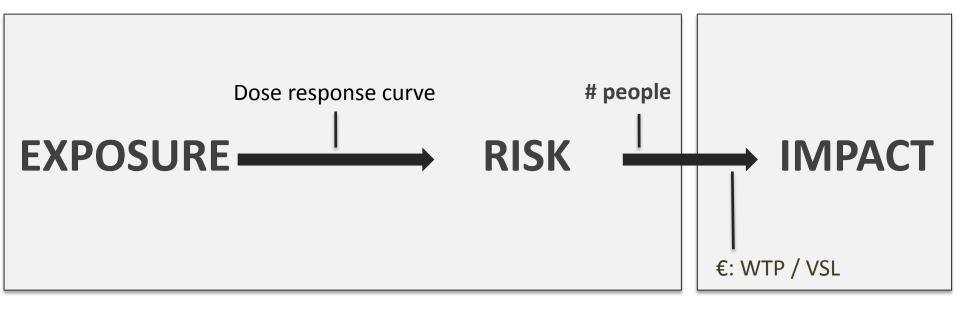






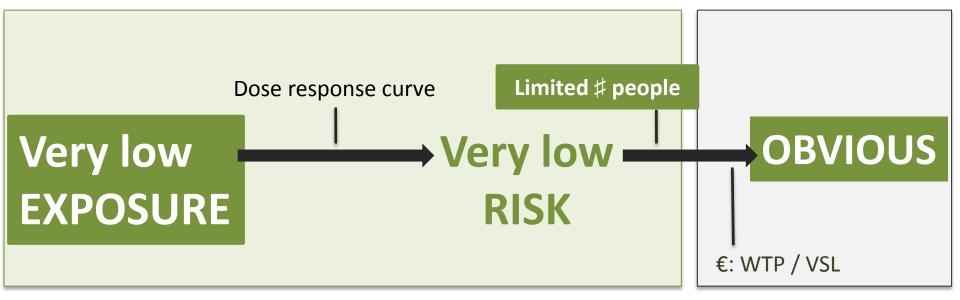








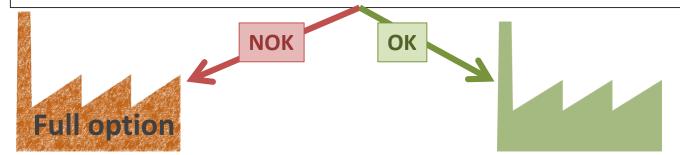




Crit. 1: No consumer exposure and

Crit. 2: Excess risk of all exposure groups < X and

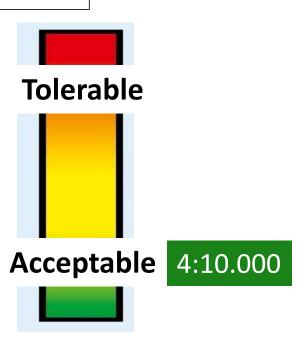
Crit. 3: Excess risk man-via-env < X





What Excess Risk (X) is acceptable?

Comparison 1: German model



Comparison 2:





excess risk of 1:100



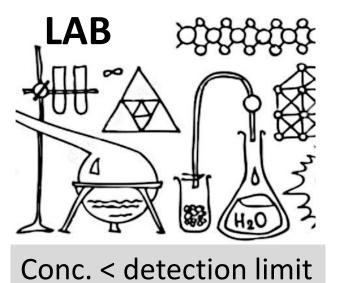
Reality Check

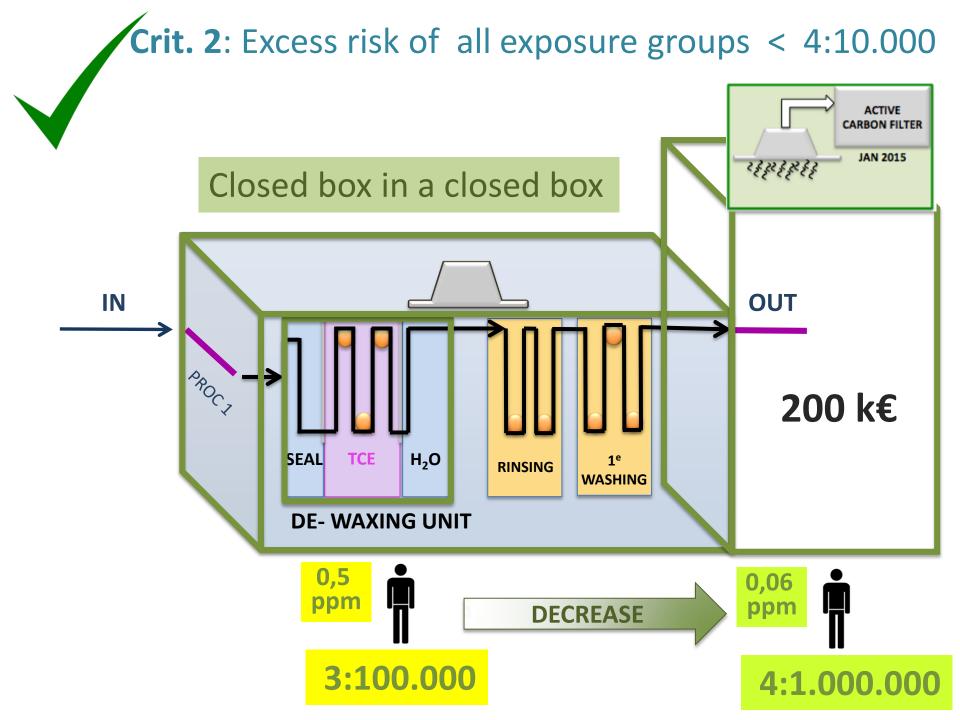




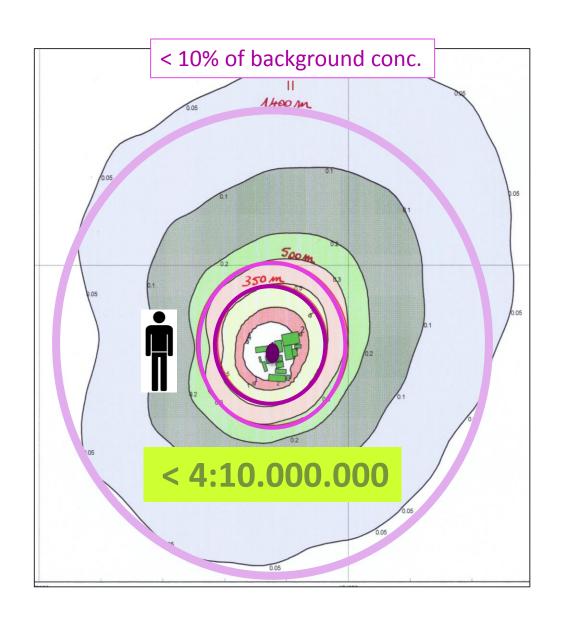
Crit. 1: No consumer exposure

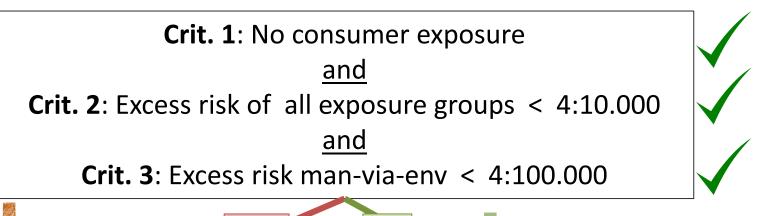


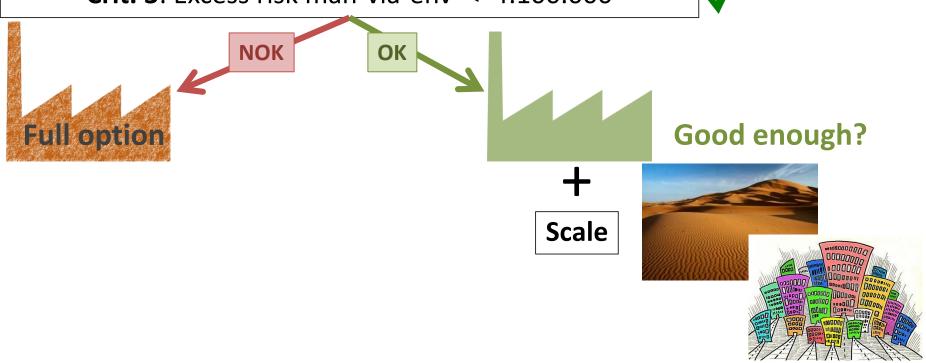


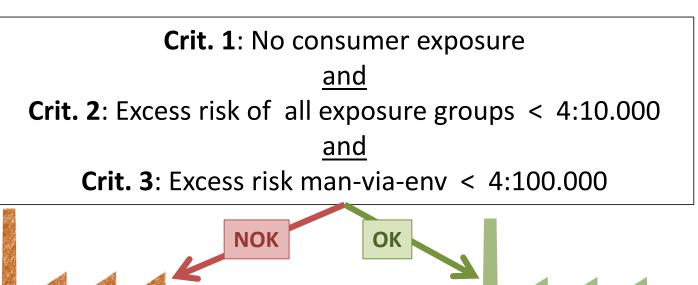


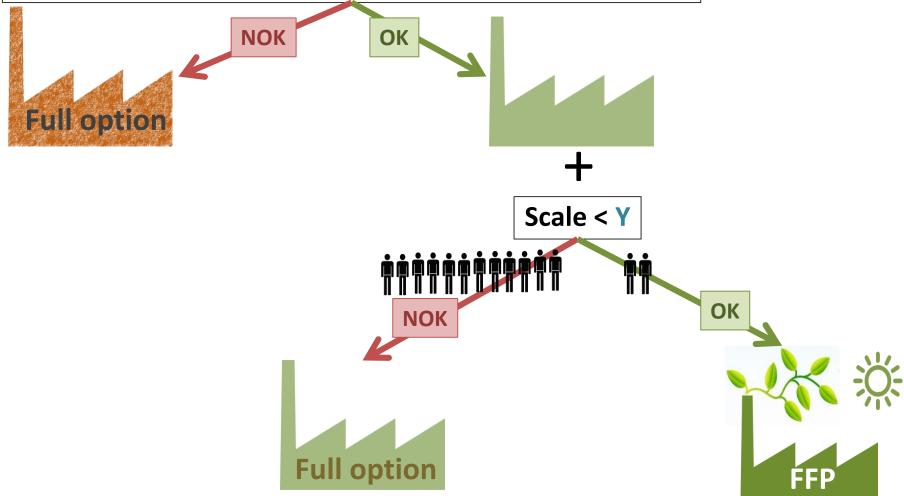
Crit. 3: Excess risk man-via-env < 4:100.000











Scale < Y

(excess risks x people) < Y

What is realistic?

Let's take a plant with

- 100 workers
- 1.000 neighbours

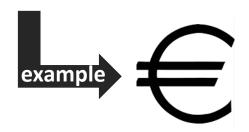
x 4: 10.000 y = 0.04 y = 0.04

Scale < Y

(excess risks x people) < Y

$$Y = 0.08$$

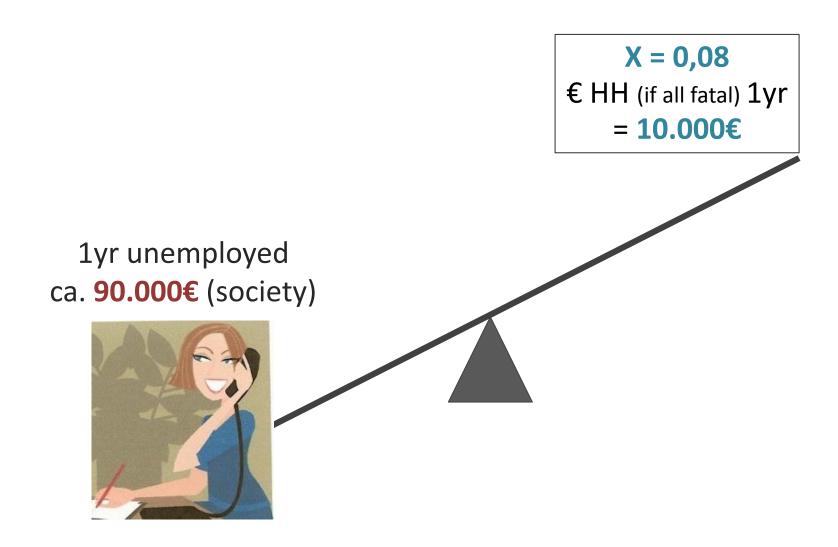
Is this high or low???



HH (if all fatal) cost = $0.08 \times 5m$ € = 400.000€



HH (if all fatal) cost for 1yr= 10.000€





Reality Check



Crit. 4: Scale



40

• 100 workers

52.000

• 1.000 neighbours

0,08 based on plant with

Scale VLISCO

= risk x people

= extremely low x 52.000

= 0,0184 << 0,08



Crit. 1: No consumer exposure

<u>and</u>

Crit. 2: Excess risk of all exposure groups < **4:10.000**

<u>and</u>

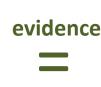
Crit. 3: Excess risk man-via-env < 4:100.000

<u>and</u>

Crit. 4: Σ (excess risks x # people) < Y









Why? AoA



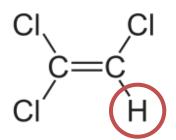


Description R&D history

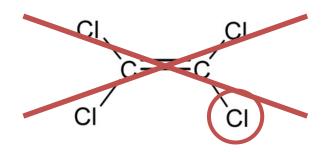
Opportunities to find even better solutions



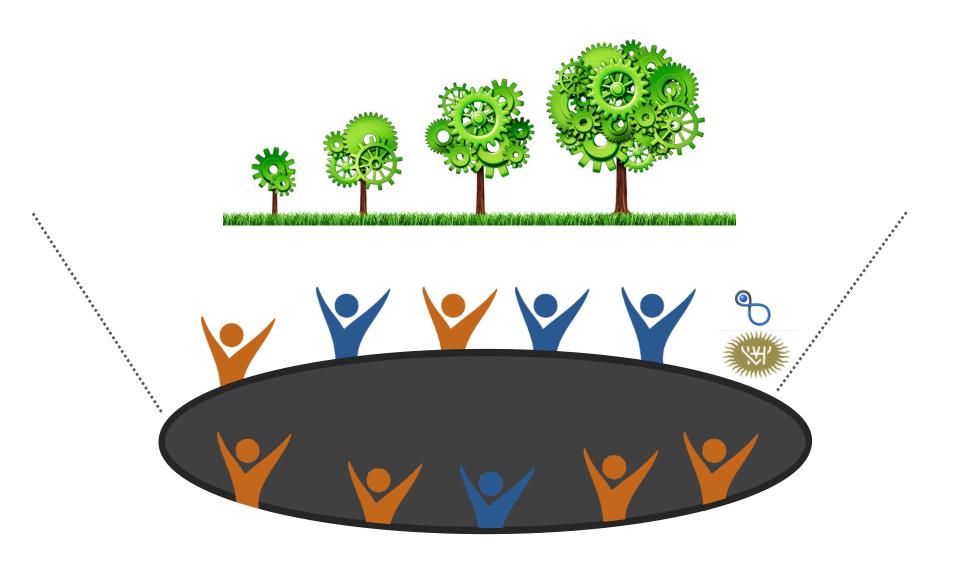
















- ✓ Analytical method + Detection limit
- Mass balance
- Procedures (ref.)
- Equipment (minimization emissions)
- ✓ Man-via-env.
- ✓ No consumer exposure



✓ Process description



- Functional criteria
- Long to short list
- Short list assessment
 Risk / techn. & econ. feas / avail.
- Future R&D plan
- Ranking
- ✓ Non-use scenario





✓ Market / Sales

Supply chain

Human health impact

Environmental impact

Economic Impact

Social Impact

✓ Wider Econ. Impact

Distributional Impact

/ Compare Benefits & risks

Length review period





- Analytical method + Detection limit
- Mass balance
- Procedures (ref.)
- Equipment (minimization emissions)
- ✓ Man-via-env.
- ✓ No consumer exposure



✓ Process description



- Functional criteria
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/ Market / Sales

Supply chain

Human health impact

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Compare Benefits & risks

Length review period





- Analytical method + Detection limit
- Mass balance
- Procedures (ref.)
- Equipment (minimization emissions)
- ✓ Man-via-env.
- ✓ No consumer exposure
- # people exposed



✓ Process description



- Functional criteria
- Long to short list
- Short list assessment
 Risk / techn. & econ. feas / avail.
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- ✓ Non-use scenario





/ Market / Sales

Supply chain

Human health impact

/ Environmental impact

/ Economic Impact

/ Social Impact

/ Wider Econ. Impact

/ Distributional Impact

/ Compare Benefits & risks

Length review period



How can you support improvement?



Realistic Dose response curve / DNEL

- ✓ Timing! As of inclusion in Annex XIV
- ✓ For all endpoints



List of required elements



Clear dossier quality standard



Fast decision making

✓ Business certainty

30% cost reduction





Quality label best in class



Concise to evaluate for RAC/SEAC



Drives improvement













Passion

to drive improvement together with our clients

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