



# TOPPS

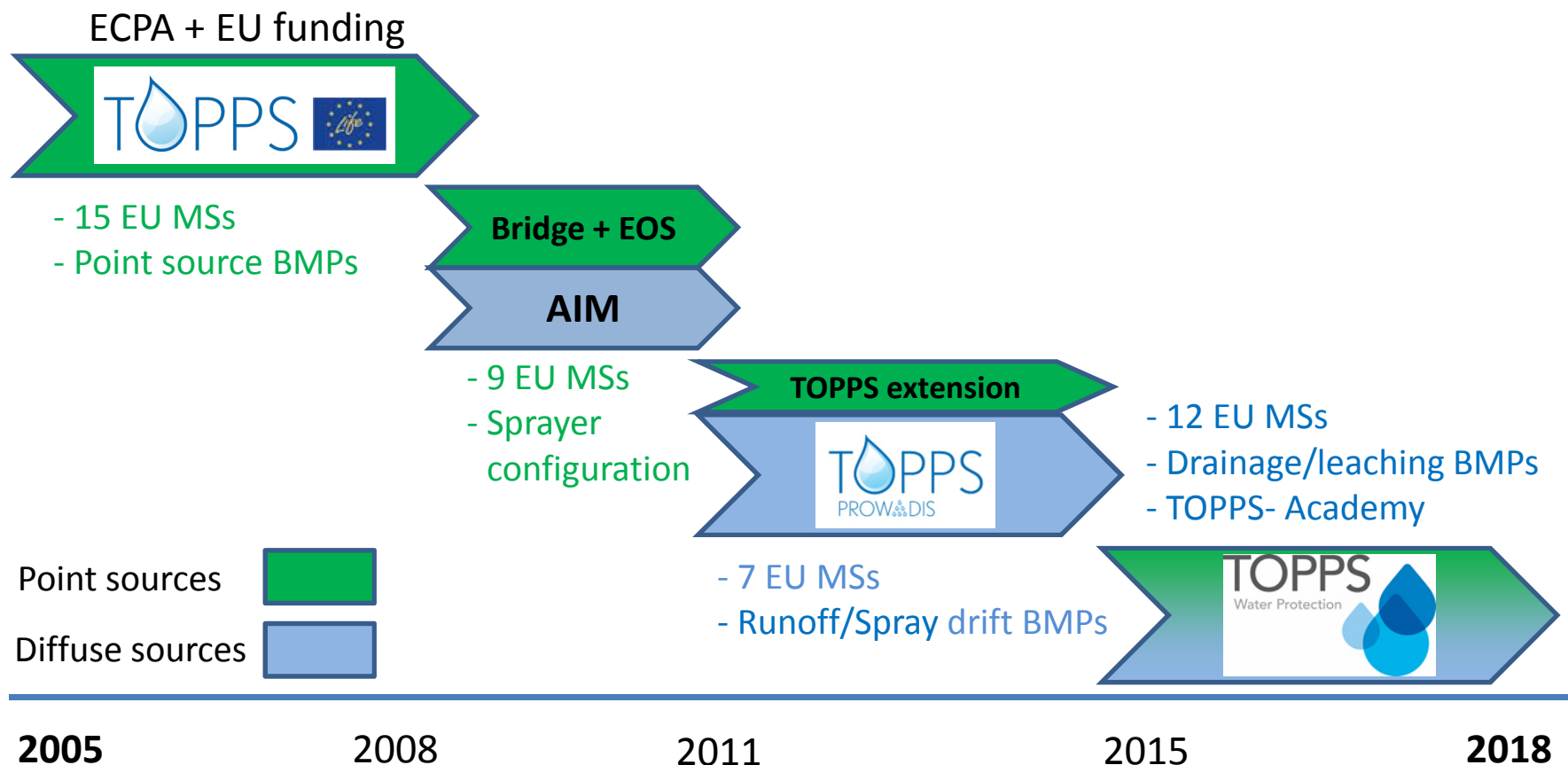
## Concept & Achievements

TOPPS stakeholder workshop  
Nov 14th 2018 Brussels  
Manfred Roettele  
TOPPS-project manager



# TOPPS - Water Protection projects

## 13 years with about 7 mio € investments



**Train Operators to Promote best Practices & Sustainability**



# TOPPS develops Best Management Practices (BMPs) and tools to protect water with **European** partners

Special technical and local expertise



Complementary skills  
From farm advice to Science



KNOWLEDGE CENTRE FOR AGRICULTURE

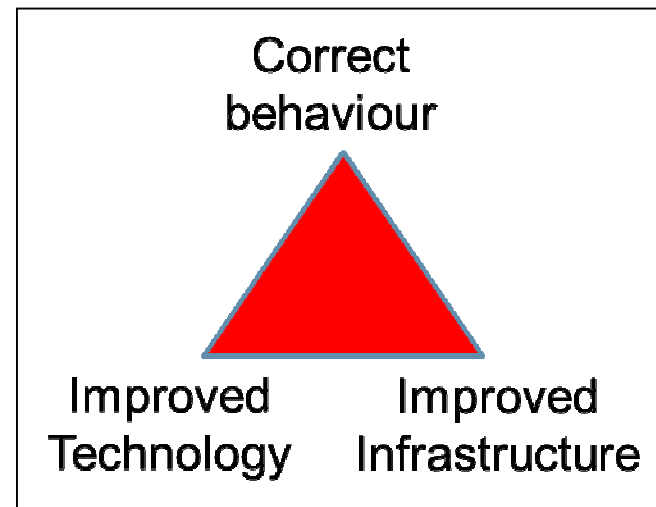
Development of local water protection competences



## TOPPS - Focus on water protection BMPs and dissemination

### BMPs = Diagnosis + Measures

- BMP – development follow the strategic triangle
- Most important is the operator
- Technologies and infrastructure are enablers for risk reduction



**EACH STEP IN THE CROP PROTECTION PROCESS OFFERS MEASURES TO REDUCE RISK**

# TOPPS – BMPs now cover the main PPP entry routes into water

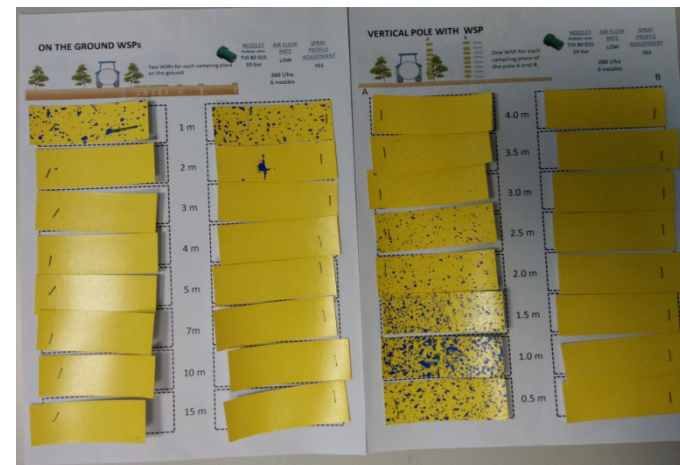
- Point sources
  - Runoff / Erosion
  - Spray drift
  - Drainage and Leaching
- 
- References in NAP's
  - Used in trainings
  - Consistent recommendations
  - Broad acceptance in EU



## Direct face to face interaction:

Theory + Practice  
Trainings/Presentations

Up to now  
78 T Farmers / Advicers  
10 T by local sponsors  
with TOPPS partners



## Indirect interaction:

Publications > 500

Decision tools, Pictures,  
Videos

Local + central websites,  
Online tools

Emmission scan (online point  
source checklist)

[www.TOPPS-life.org](http://www.TOPPS-life.org)

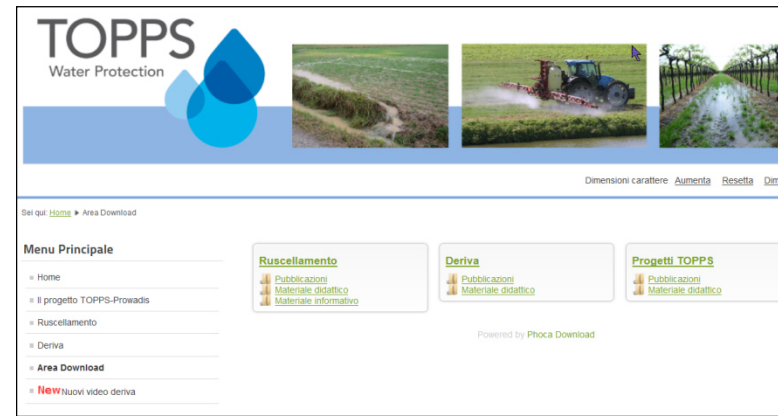
[www.TOPPS-drift.org](http://www.TOPPS-drift.org)

[www.TOPPS-eos.org](http://www.TOPPS-eos.org)

**yearly visits of 80T**

New cooperation with CEMA

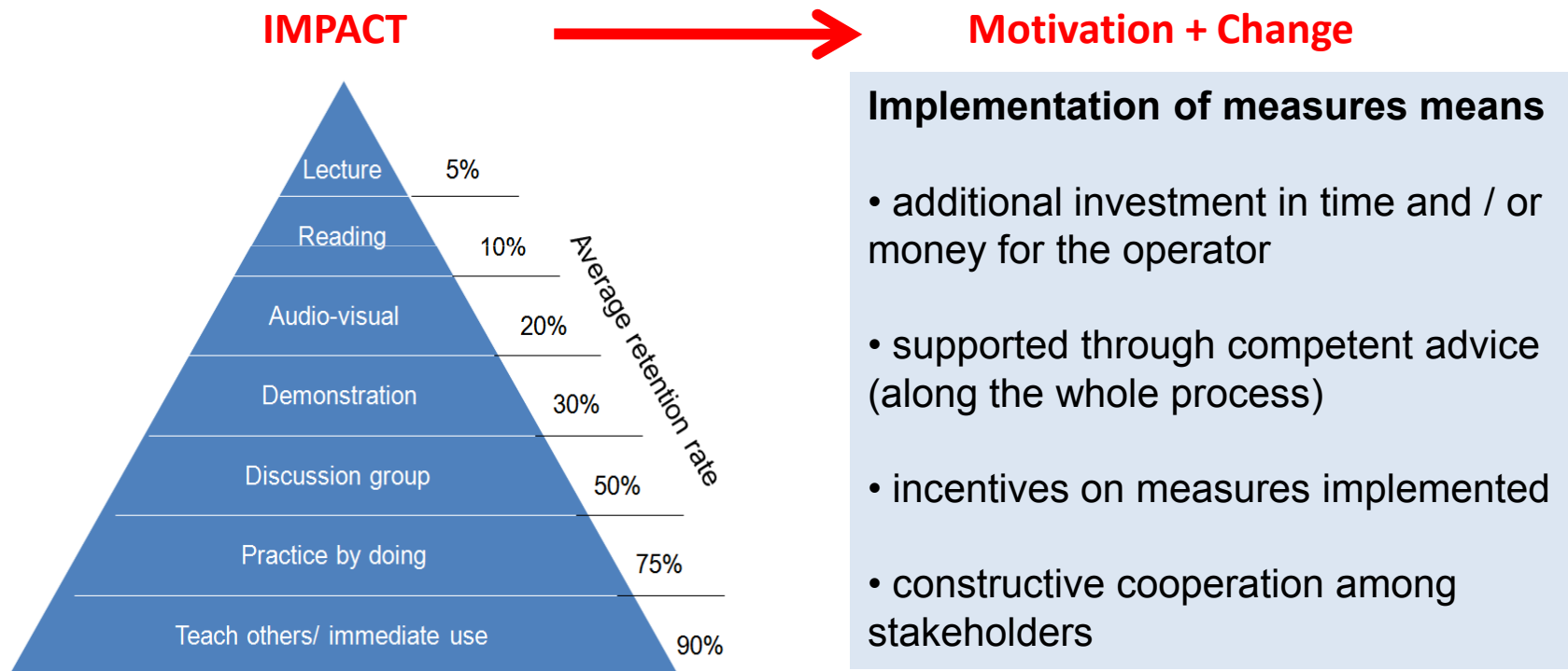
[www.STEP-water.org](http://www.STEP-water.org)



<http://www.topps.unito.it/>



## TOPPS increased awareness for water protection but implementation remains the challenge !

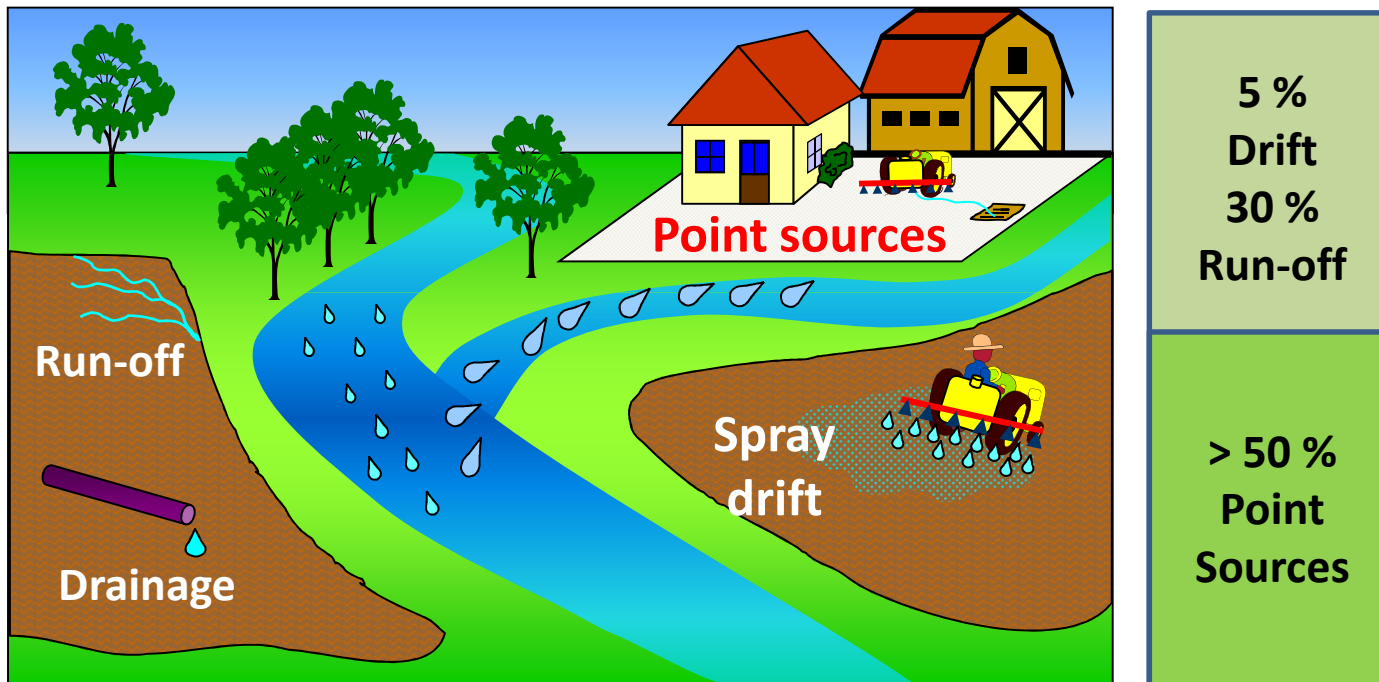


Source: National Training Laboratories, Maine, USA

## ... what makes a training effective ?



## TOPPS highlights the significance of the entry routes of pesticides to water.



- Perception often does not reflect these facts.
- If problems are identified, then solutions can be found!

# Conclusions

Pesticide losses to water can...

- largely be **avoided for point sources**
- and **significantly reduced for diffuse sources**

Correct behaviour of the operator is essential:

- Access to (TOPPS) BMPs and advice from competent advisors
- Improved technological solutions and infrastructure often necessary





We would like to acknowledge the support of the **EU Life programme** for the launch and initial funding of the TOPPS project, and the expert input and contributions of the **TOPPS project partners**.

*Thanks for your attention*