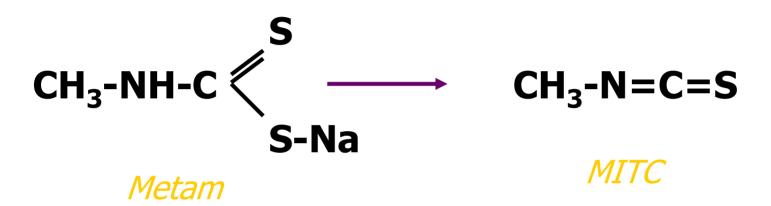


Jean-Michel Rabasse

TAMINCO n.v.

## Metam-sodium chemistry



MITC is the active ingredient

#20 times more effective than methyl-bromide



### APPLICATION conditions of success

- MS and MITC don't move easily in soil
  - #to provide a good distribution of the product within the soil layer to be disinfected
- Good application = good efficacy
  - #soil conditioning
  - #to locate the product close to the pest to control
- Adapt the equipment to the local conditions
  - **#**injection or drip-irrigation



### Suitable techniques of application

### **Mix - injection**





### **Drip-fumigation**







## Metam-sodium Injection + mixing



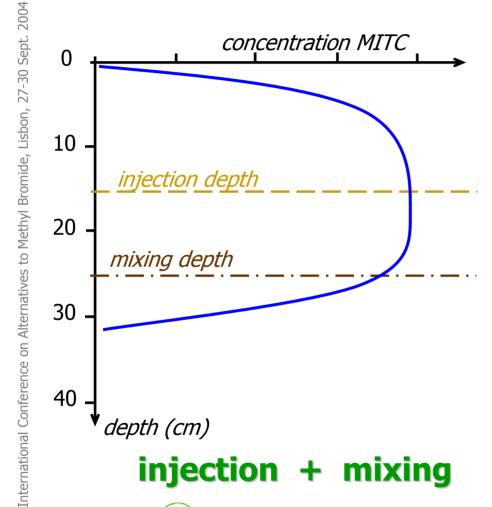


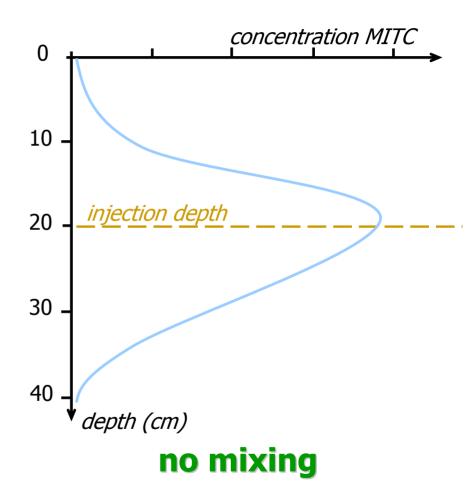
# Injection + Mixing - OLIVER



## **APPLICATION**

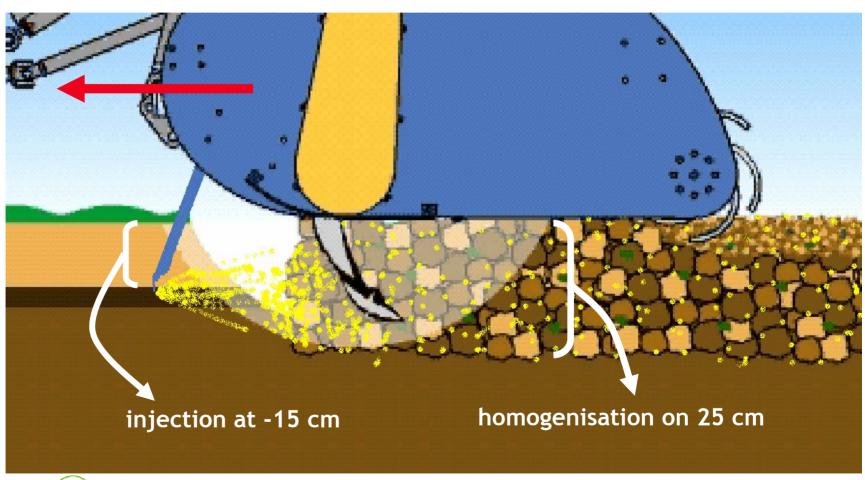
# injection







### Injection + mixing with rotating spades





# Injection Goose feet & Fan spray nozzles



fan spray







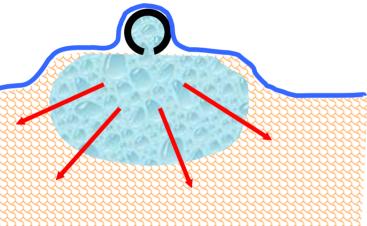


### APPLICATION

### drip-fumigation

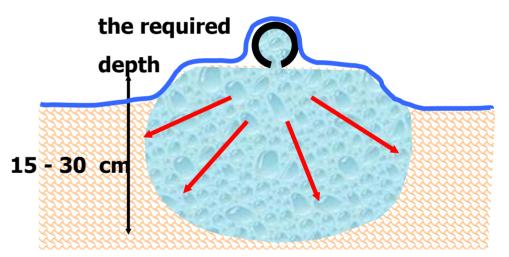
**NEMASOL** diluted

1-5% in water



10-40 mm of dilution

in order to reach



**INCORPORATION** with water front



Methyl Bromide, Lisbon, 27-30 Sept. 2004

### **APPLICATION**

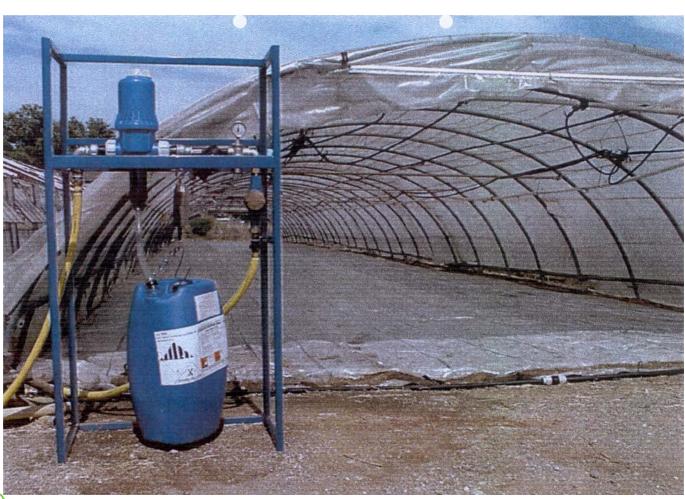
### drip-irrigation

- increase number of dripping-holes
  - ⊯ lines 50 cm apart
  - # dripping-hole each 30 cm on the line
- keep soil humid 1-2 weeks before
- apply enough water to reach the depth to be desinfected, but not more



Usable indoor and outdoor

# Drip-irrigation re-usable device





# Drip-irrigation re-usable device





# **Drip-irrigation**

### re-usable device





# Drip-irrigation - melon





# Drip-irrigation - Strawberry



## STRAWBERRY - Trials in Spain

SUMMARY of 3 years trials	Increase of the marketable yield			
	1997	1998	1999	Average 97-99
METAM 1.200 l/ha drip irrig. + plastic mulch	12,8%	23,0%	17,1%	17,6%
METAM 1.200 I/ha injected + plastic mulch			17,1%	17,1%
METAM 600 I/ha drip irrig. + plastic mulch	5,8%	11,9%		8,9%
METAM 1.200 I/ha drip irrig. + water seal	6,2%	11,7%	11,9%	9,9%
MetBr 500 kg/ha + VIF	10,4%	22,5%	15,5%	16,2%

Metam-sodium at 1.200 l/ha is a viable alternative to methyl-bromide for the control of nematodes and soil fungi on strawberry.



# STRAWBERRY France — cost €/ha

