

# Modelling Tuber blight with PLANT-Plus



EuroBlight workshop
Bologna
2-5 May 2007
Presented by Jan Hadders





**Dacom Plant Service BV**, started in 1987 Emmen, The Netherlands (May 14)

Leading Provider in

Decision Support Systems

for crop management
with PLANT-Plus.

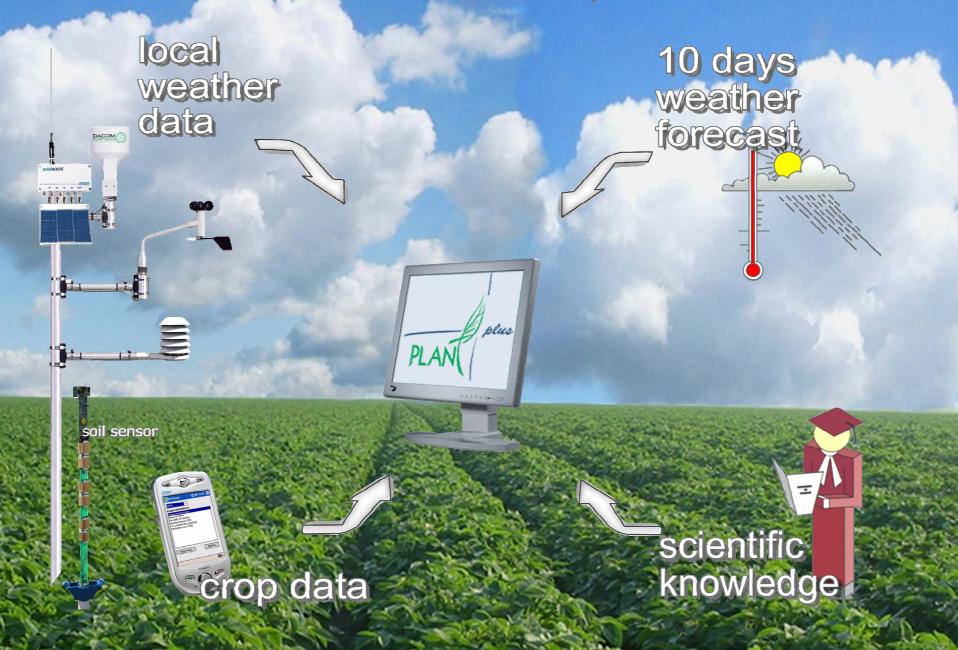


Our key words:

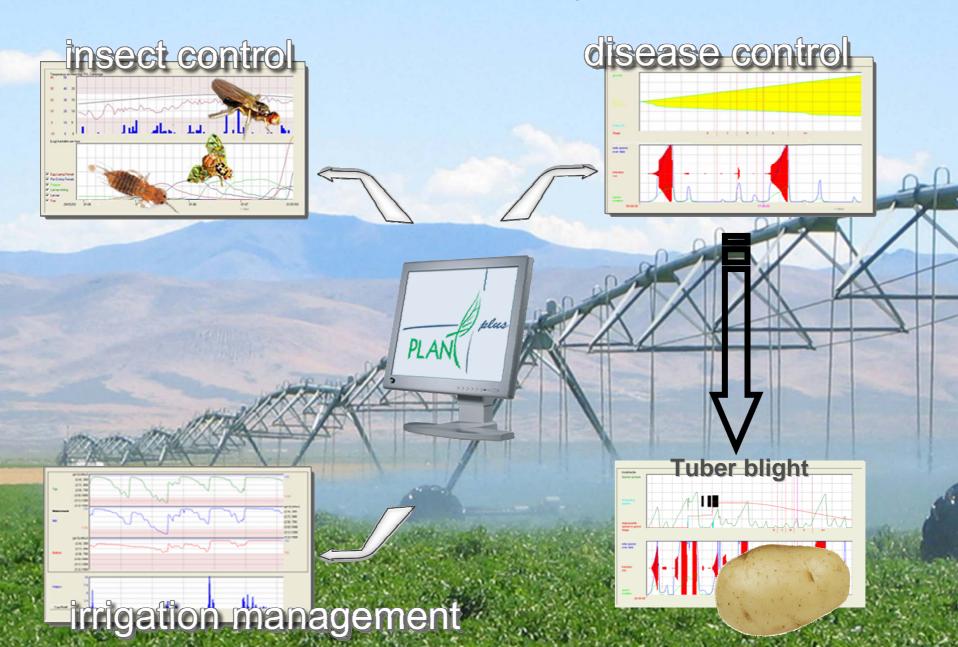
- -High quality of products and services
- -Adding value for the grower
- -Optimized use of resourses
- -Motivated team with a knowledge of the crop

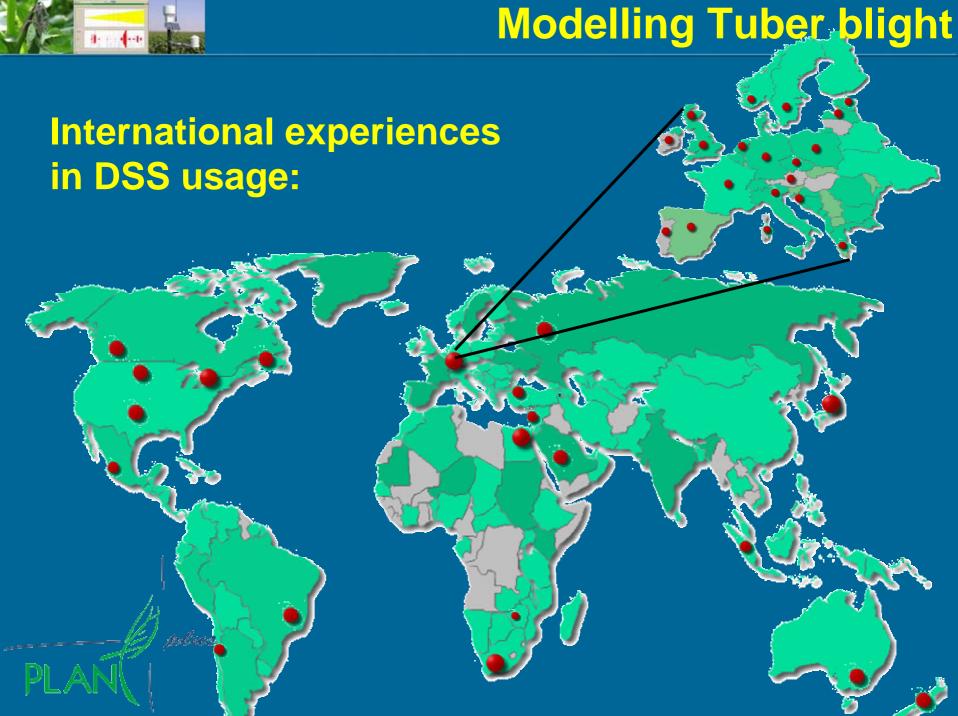
## Growing in confidence

#### PLANT-Plus input



#### PLANT-Plus output







Irrigatie Management

- Planning based on ETO modeling
- Monitoring on bases of sensors















#### Tuber blight Modelling Tuber blight

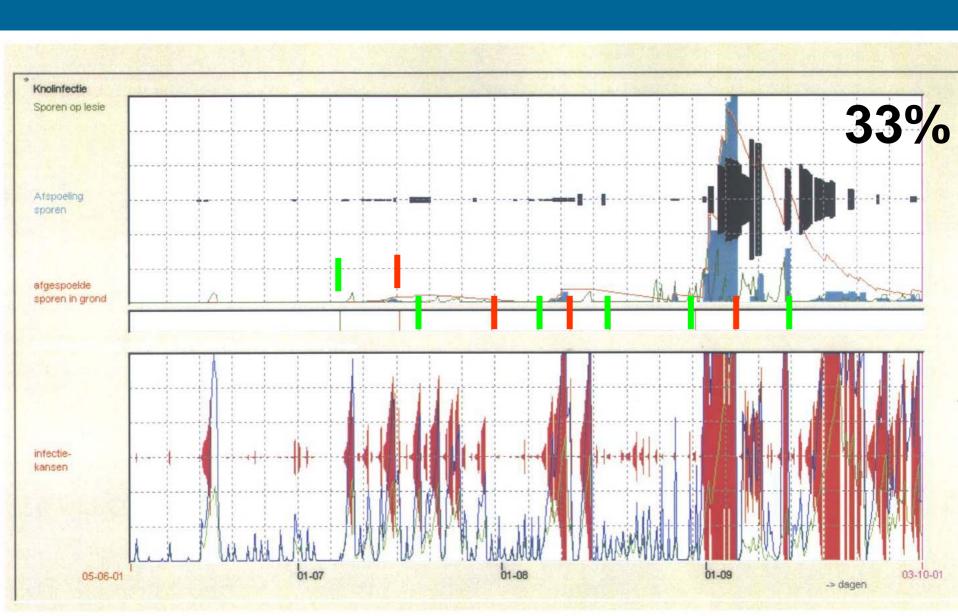




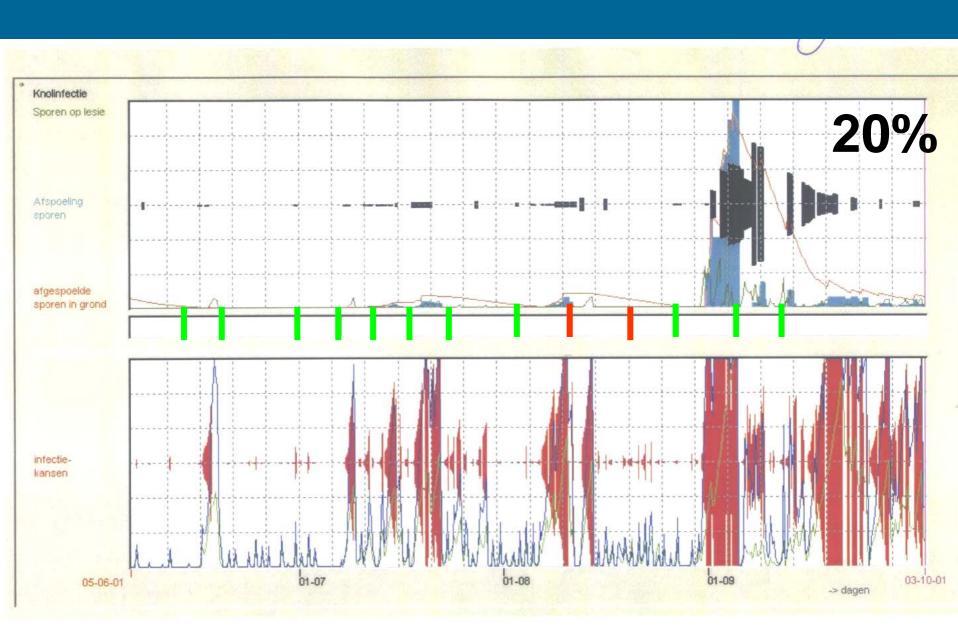


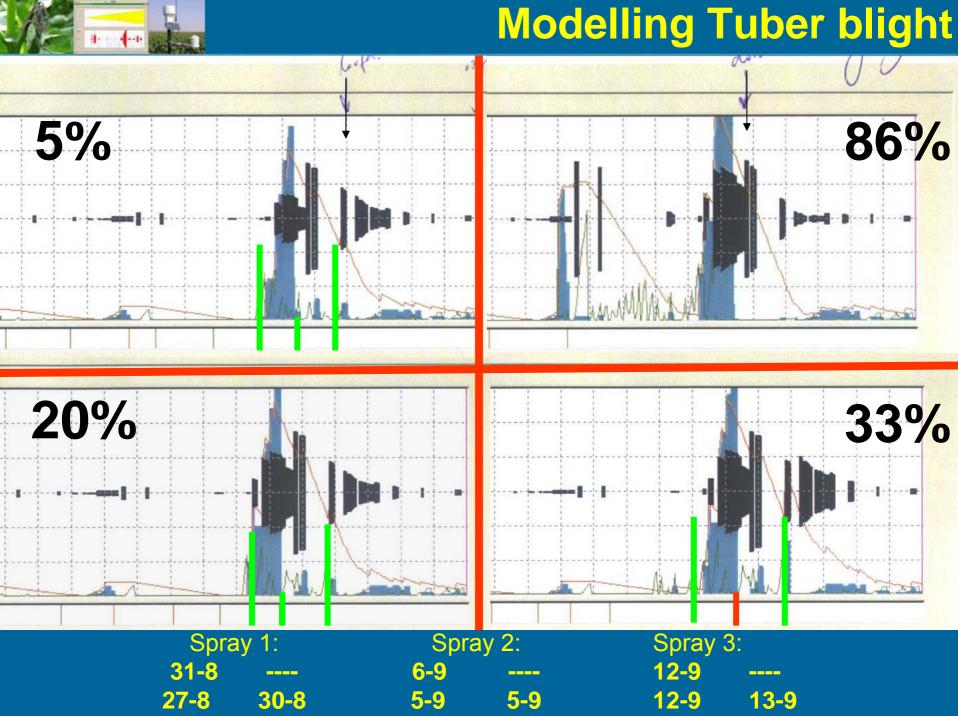














### Summary Tuber Blight Infection:

- Lesion to be present in the field
- Viable spores present
- Sufficient rain to get spores in suspension
- Sufficient rain to wash spores down the stem
- And into the soil near the tuber
- \_\_
- Viable spores in the soil near the tuber
- Sufficient period of tuber wettness.



## To get no Tuber Blight Infection:

- ΦNo infections / lesions present in the field
- ΦAll viable spores killed on lesions
- ΦAll vialbe spores killed on the way down the stem

Ф--

ΦHarvest tubers before period of tuber wettness.

```
(Φ means "OR")
```



### Conclusions on modelling

- Occurrence can be modelled reasonable accurate
- Quantity of occurrence difficult
- Model proved good research and analysing tool
- Effect fungicide treatment to be modelled
- Model available for use on "Akkernet"



## Modelling Tuber blight with PLANT-Plus





A grower should keep his crop clean of Late Blight;

It is the only way to be

Growing in confidence