

# Analysis of the effects of uncertainties on agrometeorological models

Prof. Alberto Garinei

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# Agrometeorological models

Models using meteorological data to predict events in the agricultural sector which are relevant in the crop management

E.g.: models to predict development of plant diseases, or dangerous environmental conditions



Provide a helpful guidance in taking timely decisions and consequently boost the crop productivity

# Agrometeorological models: effects of uncertainties

- The outcome of these models is heavily dependent on the quality of the input data
- Even relatively small changes in the input data could drastically change the outcome of the model
- This aspect is usually neglected in real implementation of these models and in their actual use in the agriculture sector



- Taking into account the uncertainties of the inputs allows to add extra valuable information to models: they could tell not just if a certain event will happen but rather what is the odd that it will happen
- This could make such models more useful and also make easier the integration of the results with other sources of information