Models and Dss’s in Europe

Status and new developments:

- All models are wrong but some are useful
- Use of GIS and spatial interpolation in DSS’s
- Russian DSS used over a large acre-age in Russia
- France: Mileos
- DSS’s for organic production in France and Germany
- Euroblight platform
  - Compare results for core algorithms (research) range of years and locations (weather driven)
  - List of Dss’s available in Europe
    add links to relevant Euroblight papers & ppt’s
Knowledge gaps:

• Phenotypic data to update models not available

• First infection: models assume inoculum comes from tubers. Include oospores?
  – 8 – 10% tuber infection in conventional production, more in organic production
  – Situation seems to be stable and is more or less under control with the current systems

• Tuber infection: mostly only foliar problems attacked, no specific advice for tuber infection

• Cultivar resistance is treated differently by the systems:
  – Intervals are adapted, dose rates are adapted
  – Reliable data are difficult to obtain,
  – Concerns on stability

• → Better quantification of early inoculum sources
• → Better knowledge on sources of inoculum: sources outside the field versus sources inside/close to the field.
EU pesticide package

- National action plans, implement IPM

- How to implement using DSS’s?
  - Combination of best practices
  - DSS as a part of a larger system keeping track of farm operations (1 system only)
  - DSS can play a role in optimization and justification of applications and keeping track of inputs
  - Use of DSS’s should be promoted, also with respect to the EU directive
  - Write an information sheet / paper at EU level to inform EU policy makers: availability, possibilities, limits, contributions to directive
Euroblight in a global context

- Euroblight has attracted global attention (envy?)
  - Eucablight database has global attention
  - Way Euroblight works (open communication, social network)

- Interest to establish “Latin Blight”, “Asia Blight”, etc
  - ChinaBlight: www.china-blight.net (Google translate)
    - Information
    - General weather based disease forecasts (adjusted MISP)
    - Simple DSS for farmer use (CIP derived Questionnaire)

- HOW?
  - Learn from approach taken in the past
  - Provide data for:
    - Host Database
    - Pathogen databases
    - Control strategies & fungicide
    - Fungicide table