Report from Sub group Epidemiology and DSS

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Models and Dss's in Europe

Status and new developments:

- All models are wrong but some are usefull
- 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

Models and Dss's in Europe… continued

- **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.

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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

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