Potato Blight going mobile

Cyprus, May 13 2013, Jan Hadders, Dacom BV
Potato Blight going mobile

Agenda presentation:

✓ Introduction
✓ Collecting data
✓ The model
✓ The apps
✓ Summary
✓ Conclusion
supporting farmers, suppliers and processors at optimizing the yield and level of sustainability......

By providing innovative, intelligent sensor & IT systems and advisory services

‘YOU CAN ONLY EXPECT THE BEST FROM THE INVENTORS OF AGRI YIELD MANAGEMENT’

Jan Hadders, the Netherlands

Leading Agri Yield Management
Dacom International

Subsidiaries, dealers, agents, direct customers
Customers & Partners in Business
Dacom Mobile

✓ Collecting data

- Scientific knowledge and expertise
- Climate: forecast & sensor data
- Products: basic data & values

Dacom Mobile Solutions:
- Insect control
- Disease control
- Irrigation management
- Fertilizer management

Webserver

Leading Agri Yield Management
Crop-R: Geo Crop Recording
Geo Crop Recording by smart phone
The model
**Sporulation:**
- Between 5°C and 30°C
- Optimum 18°C
- Release and spreading

**Die-off:**
- Infection:
  - Free water is necessary
  - Penetration in epidermis / damage
  - Min. Temp.: 6°C, max.: 30°C
  - Optimum: 18°C - 20°C.

---

**Dacom Phytophthora advice module in Windows**
Testing Dacom models

Comparison of the Dacom Late Blight warnings with standard practice of farmer in 14 trial sites all over USA
The Dacom systems reduces application frequency by 46% compared to the standard application.

The results:

Number of Spray Applications 2002-2005

<table>
<thead>
<tr>
<th>Institution</th>
<th>DACOM</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tulelake valley</td>
<td>4.8</td>
<td>7.7</td>
</tr>
<tr>
<td>Prosper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University of Idaho</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NDSU North Dakota</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michigan Stat University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hancock EXP Station (WI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University of Wyoming</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NDSU North Dakota</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hancock EXP Station (WI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Syngenta ERTC (NY) LB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Syngenta ERTC (NY) ESB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oregon State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University of Idaho</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NDSU North Dakota</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hancock EXP Station (WI)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Dacom Yield Manager

The apps

**PROCEDURE MOBILE AVAILABILITY**

- **Scientific knowledge and expertise**
- **Climate: forecast & sensor data**
- **Crop: soil & field data**
- **Products: basic data & values**

- **Updating advice every hour**

**Dacom Solutions**

- Insect Control
- Disease Control
- Irrigation Management
- Fertilizer Management

**Webserver**
Dacom Yield Manager

HOW IT WORKS

Welcome and Sign in (1x)

Advice explained

Advice explained

Weather Planner

Contact fungicide recommended

Last updated: May 6, 12:15

Last updated: May 10, 12:15

Last updated: May 10, 12:15
Dacom Blight APP’s

FREE Late Blight APP

Risk development Phytophthora infection region SE-Drenthe, processed on May at 21:31

Yesterday  Today  Tomorrow

None  None  None

Dacom costum advice

Infection mapping APP

record infection
Mobile presentation of Phytophthora advice

- Farmer friendly
- Crop information based on geographic system
- Sensor systems for automatic background data
- A sophisticated model to calculate the advice
  - 20 years intensive experience (*multi million requests*)
- Low threshold with smart phone presentation

Key is **KISS**
Conclusion

Dacom Yield Manager:
smart Phytophthora advice based on a sophisticated, reliable model.
opens a wide user base