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# Masterplan Phytophthora

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The Dutch knowledge network for integrated late blight control in potatoes

Jan Buurma and Bas Janssens



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# Outline

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- Challenge end 1990s
- Arable Farmers Union
- Historical Review 1999-2010
- Effects of Masterplan
- Knowledge Infrastructure
- Division of Tasks/Subjects
- Competing Advisors
- Possible Solutions
- Summary

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# Challenges end 1990s

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- Disease more and more aggressive
- Serious late blight outbreaks
- Narrowing package of fungicides
- Policy targets for environmental impact
- Late blight running out of control
- Arable farmers were desperate
- **Urgency: integrated disease management**



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# Action Arable Farmers Union

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- Masterplan Phytophthora
  - Knowledge infrastructure
  - Knowledge development
  
- Commodity Board for Arable Product
  - Special levy for late blight
  - Removal of infection sources
  
- Ministry of Agriculture
  - Durable resistance programme

# Historical Review 1999-2010

LexisNexis® Academic NL

Startpagina | Over LexisNexis | Help | Uitloggen

Eenvoudig zoeken **Geavanceerd zoeken** Booleaans zoeken

Zoeken

Voer je zoektermen in

opening Phytophthora

of opening fytoftora

of opening aardappelziekte

en in het hele document

Datum

Kies een periode maak een keuze of zoek vanaf (D/M/JJJJ) 01/01/2010 t/m 31/12/2010

Nieuwsbronnen

Kies een set bronnen: vakbladen

Selecteer eventueel één of meerdere individuele nieuwsbronnen:

[Alles selecteren](#) | [alles wissen](#)

<input type="checkbox"/> Beleggers Belangen	<input type="checkbox"/> BIZZ	<input checked="" type="checkbox"/> Boerderij	<input type="checkbox"/> Bouwwereld
<input type="checkbox"/> Distrifood	<input type="checkbox"/> FEM Business	<input type="checkbox"/> Logistiek Krant	<input type="checkbox"/> Missets Horeca
<input type="checkbox"/> Pakblad	<input type="checkbox"/> Psychologie Magazine	<input type="checkbox"/> Transport & Opslag	<input type="checkbox"/> Zorgvisie

[Alles wissen](#) Zoeken

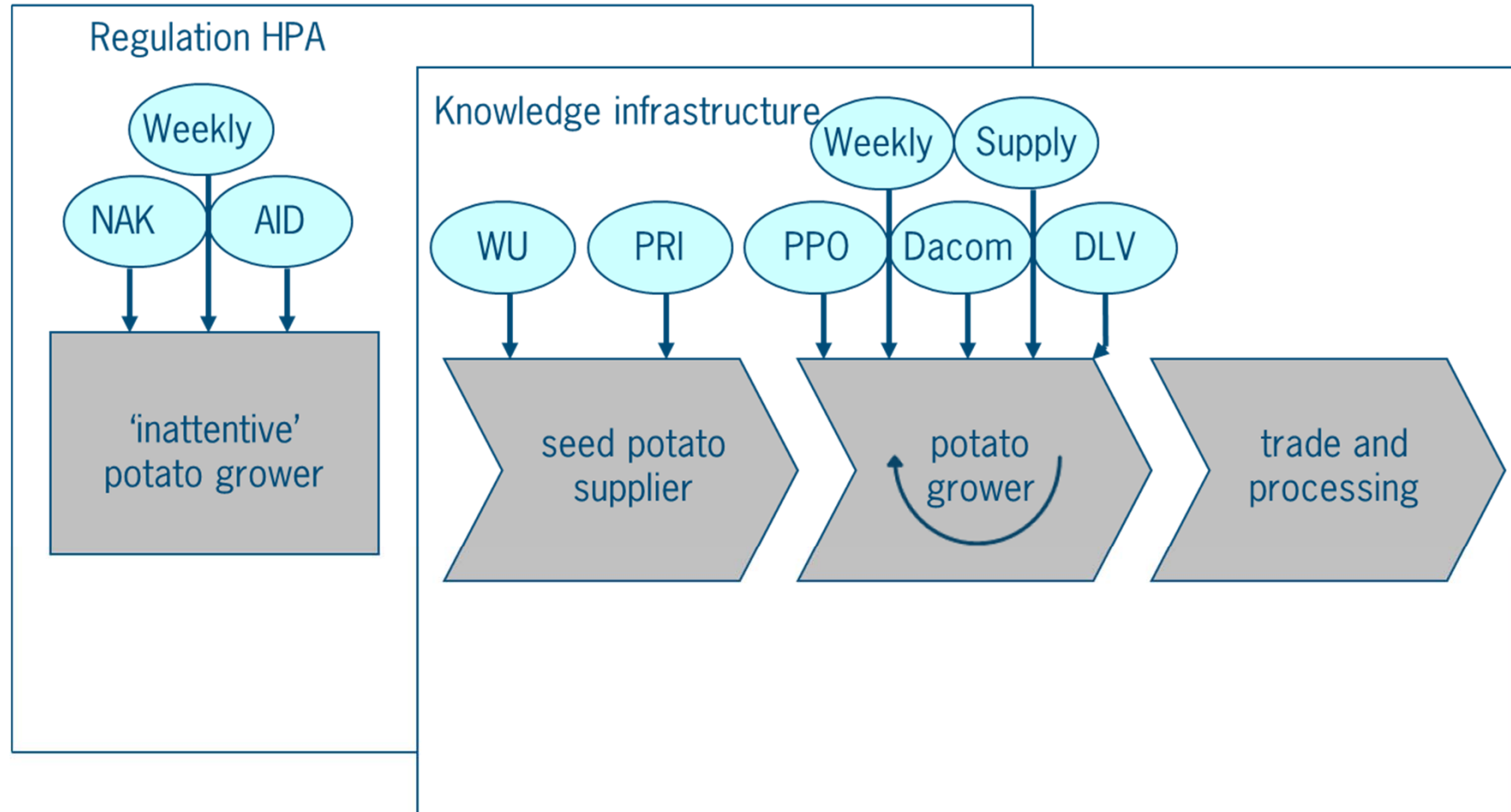
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# Effects of 12 years Masterplan

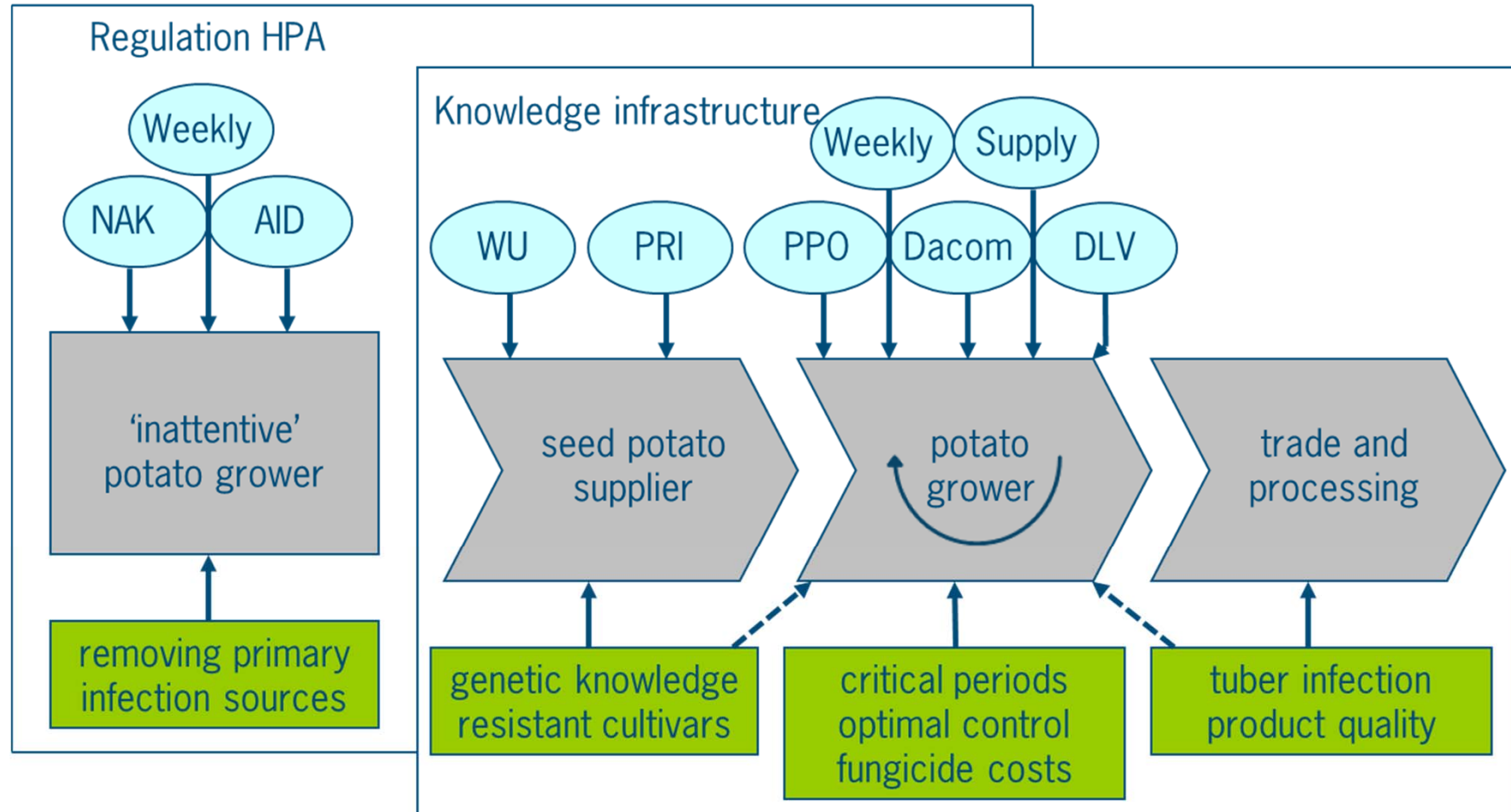
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- Survey among 25 stakeholders
  - 6 researchers, 9 advisers, 10 growers
- **Increased attention for:**
- Primary infection sources 23 of 25
- Resistant cultivars 20 of 25
- Adjust dose rates to cultivars 15 of 25
- Late blight manageable 15 of 25
- **2011: growers did their homework well**

# Knowledge Infrastructure

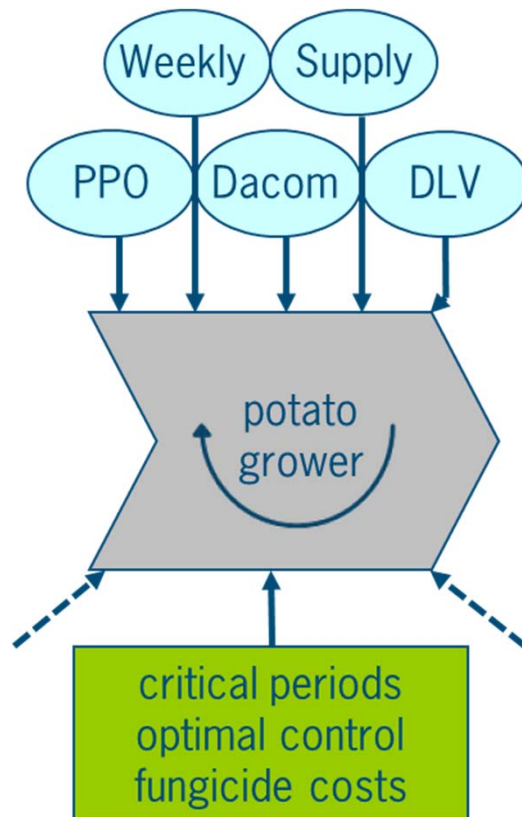


# Division of Tasks/Subjects



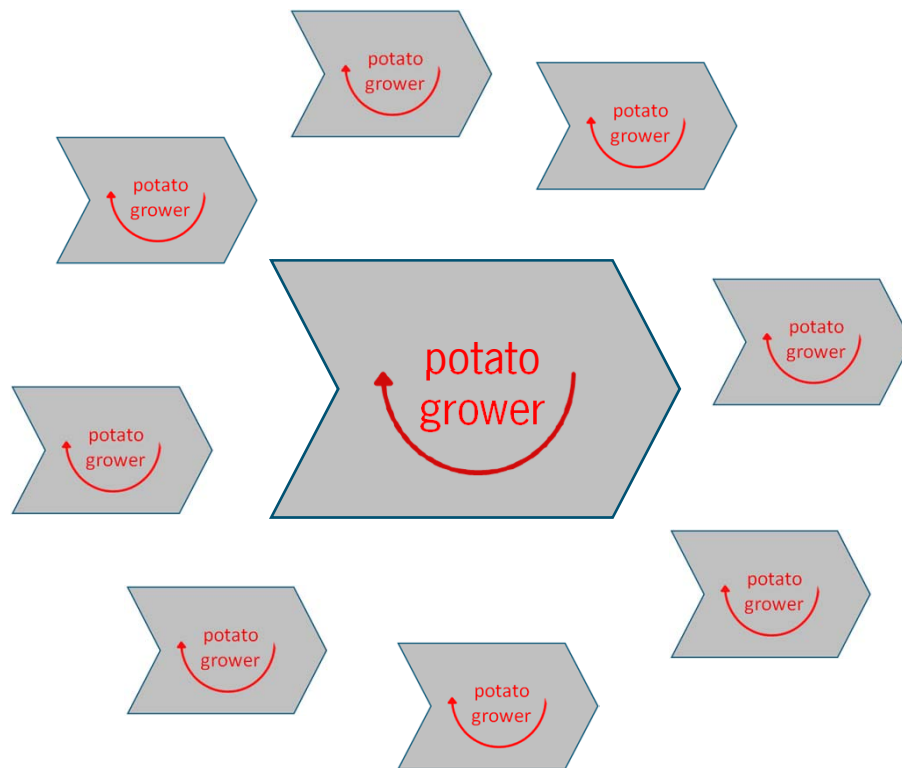


# Competing Advisors



- The various types of advisors have each their own message
- Suppliers of DSS systems emphasize other aspects than fungicide suppliers
- Farmers want univocal messages
- **The choir of advisors needs a conductor**

# Possible Solutions



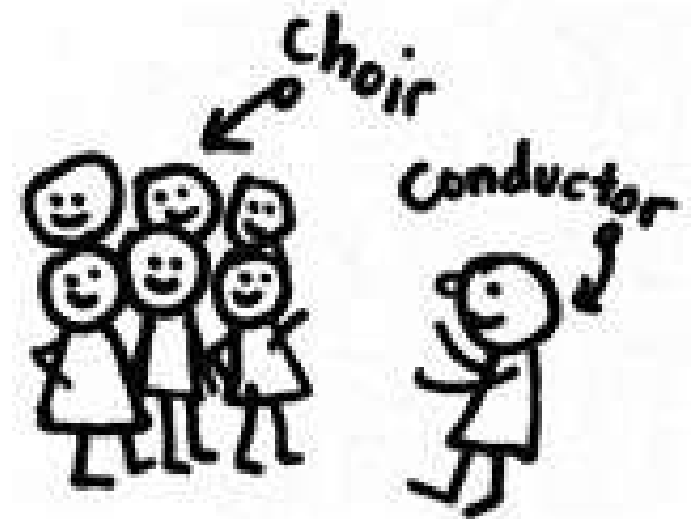
- Smiley
- Farmers are used to balance different interest
- Farmers can learn from successful colleagues
- Learn in study groups
- Persistent inspection on removal of primary infection sources

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# Summary

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- Masterplan was successful
- Well organised infrastructure
- Clear division of tasks
- Lack of univocal messages
  - DSS suppliers
  - Fungicide suppliers
- Conductor: growers themselves
- Suppression of infection sources



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# Thanks for your attention

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This study was conducted for the evaluation of the Dutch crop protection policy 2003-2010

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