ICT-enabled Agricultural Science for Development
Scenarios, Opportunities, Issues
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ICTs transforming agricultural science, research & technology generation
Science Forum Workshop Theme 3
Scenario’s

• Information systems development: loose coupling of webservices (BPM/SOA/SaaS)

• Precision Agriculture: more precise management in time and space (geo-information, embedded ICTs)

• (Rural) Living Labs: user-centric, open innovation
Opportunities

• Large datasets from practice => basis for knowledge development
• ‘Everybody’ can be involved in development
• Global use of services
  – a German farmer, using a Czech farm management system, requests site-specific fertilizer advice. Field parcel boundary information is retrieved from the national LPIS. The advice service is based on a French knowledge-based advice module and it uses satellite data (LAI map) from a Dutch service provider, and soil analysis data from the local soil laboratory
Issues

• make communication between service components possible
  – standardization of infrastructure, data, applications and processes

• new methodological/statistical approaches
  – sometimes requiring a mind shift of scientists

• different project management structures and financial mechanisms to enhance the living lab/open innovation approach
More Information

- EFITA: [www.efita.net](http://www.efita.net)
- Living Labs: [www.openlivinglabs.eu](http://www.openlivinglabs.eu)
  – Collaboration at Rural, C@R: [www.c-rural.eu](http://www.c-rural.eu)
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