



**INSEA**

# **Integrated Sink Enhancement Assessment**

## **MINUTES**

### **INSEA T9 Coordination Meeting**

**20–21 September 2004  
IIASA, Laxenburg, Austria**



EC Project



Sixth Framework Programme

EC Contract no.: SSP1-CT-2003-503614 (INSEA)  
Operative commencement date of contract: 1 January 2004

Web: <http://www.iiasa.ac.at/Research/FOR/INSEA/>

**AGENDA**  
**INSEA T9 Coordination Meeting**  
20–21 September 2004  
IIASA, Laxenburg, Austria

**Monday – 20 September – (Gvishiani Room)**

- 09.00 **Welcome and Finalize Meeting Agenda** (M. Obersteiner)
- 09.30 **Comparison of INRA and AROPAj/EFEM**  
The Baden-Württemberg case study (paper) (D. Blank, S. De Cara, P.–A. Jayet)
- 10.30 *Coffee break*
- 10.45 **Forest Modeling: Comparison of PICUS and TsuBiMo** (O. Franklin, R. Seidl)
- 12.00 *Lunch break – Schloss Restaurant, Green Coffee Room*
- 14.00 **Database and GIS** (R. Bujnovsky, J. Balkovič, K. Poltárska, R. Skalský (SSCRI), V. Stolbovoi (JRC), R. Baritz, M. Fuchs (BGR))
- 14.45 **EPIC Runs** (E. Schmid)
- 15.30 *Mineral water break*
- 15.45 **Engineering Cost Model/Technology Database** (B. Dorin)
- 16.15 **EU–FASOM** (U. Schneider)
- 17.00 *Tea break*
- 17.15 **Outstanding Issues for Deliverable T9**
- 19.00 *Departure to Dinner – Markus & Stefanie Gausterer Heurigen, A- 2353 Guntramsdorf, Hauptstrasse 55*

**Tuesday – 21 September – (Gvishiani Room)**

Open schedule, issues to be covered (post-T9 discussion)  
Split up into subgroups:

- Climate data
- Issues on soil data
- EPIC modeling (short presentation on status of non-CO<sub>2</sub> GHGs and other environmental indicators)
- Linkage to EU–FASOM and AGRIPOL
- Requirements for model adaptation
- How to include EPIC runs and forestry runs
- Harmonization of scenario assumptions and technology
- Combined agricultural and forestry modeling
- Time and meeting coordination till next deliverable (T12)
- Discussion on how much we want to do on global analysis
- Other issues....

# AGREEMENTS & FURTHER STEPS

## INSEA T9 Coordination Meeting

20–21 September 2004  
IIASA, Laxenburg, Austria

**Future Steps to be performed by the INSEA consortium as identified at the T9 project meeting (20, 21 September 2004)**

### **A. Agriculture**

- Review, compare and expand on emissions from the life-stock
- Try to fully automatize input file creation for EPIC runs from the joint database
- Define crop rotations from economic databases, agronomic knowledge and optimization calculations.
- Create a joint database of technical packages for cropping systems and perform subsequent engineering cost calculations.
- Aim for consistency and acquire database with MARS Crop Calendar
- Acquire and fully use Multiple Data sources
  - LUCAS
  - EUROSTAT
  - FADN
  - Climate Change Scenarios combined with weather data
- Incorporate EPIC runs in all economic models
- Harmonize Scenario assumptions within INSEA

### **B. Combined Agriculture-Forestry – Bio-Energy Modeling**

- Perform model linkage between EPIC plantation results and forestry model with agricultural models
- Define energy supply chains and include in economic models or link with large scale energy models

### **C. Forestry**

- Create new input data for climate, soil etc...
- Repeat Scaling Exercise and perform Cross Validation
- Compute a global Forest Biomass map
- Incorporate more management and define eventually the economic calculus as an Optimal Control Problem
- Substitute the currently existing Cost indexing with a Cost Engineering Model
- Incorporate Risks such as fire and insect diseases

**Final Participant List**  
**INSEA T9 Coordination Meeting**  
20–21 September 2004  
A-2361 Laxenburg, Austria

**Juraj Balkovič**

Department of Soil Information Systems  
Soil Science and Conservation Research  
Institute  
Gagarinova 10  
82713 Bratislava  
SLOVAKIA  
Tel. +421-2-48206923  
Fax. +421-2-43295487  
Email: [balkovic@vupu.sk](mailto:balkovic@vupu.sk)

**Daniel Blank**

University of Hohenheim  
Schloss-Osthof-Sued  
D-70593 Stuttgart  
GERMANY  
Email: [blank@uni-hohenheim.de](mailto:blank@uni-hohenheim.de)

**Radoslav Bujnovský**

Deputy Director  
Soil Science and Conservation Research  
Institute  
Gagarinova 10  
82713 Bratislava  
SLOVAKIA  
Tel: +421 2 43338640  
Fax: +421 2 43295487  
Email: [bujnovsky@vupu.sk](mailto:bujnovsky@vupu.sk)

**Stéphane De Cara**

UMR Economie Publique INRA-INAPG  
(INRA-210)  
Institut National de la Recherche  
Agronomique  
BP01 78850 Thiverval-Grignon  
FRANCE  
Tel: +33-(0)-1 30 81 53 48  
Fax: +33-(0)-1 30 81 53 68  
Email: [stdecara@grignon.inra.fr](mailto:stdecara@grignon.inra.fr)  
[Stephane.Decara@grignon.inra.fr](mailto:Stephane.Decara@grignon.inra.fr)

**Bruno Dorin**

CIRAD-AMIS-Ecopol  
TA 40/15, 73 rue JF Breton  
34398 Montpellier Cedex 5  
FRANCE  
Tel: +33 (4) 67 61 75 82  
Fax: +33 (6) 03 03 43 20  
Email: [bruno.dorin@cirad.fr](mailto:bruno.dorin@cirad.fr)

**Oskar Franklin**

Forestry Program  
International Institute for Applied Systems  
Analysis  
Schlossplatz 1  
A-2361 Laxenburg  
AUSTRIA  
Tel. +43-2236-807-251  
Fax: + 43-2236-807-599  
Email: [franklin@iiasa.ac.at](mailto:franklin@iiasa.ac.at)

**Steffen Fritz**

Forestry Program  
International Institute for Applied Systems  
Analysis  
Schlossplatz 1  
A-2361 Laxenburg  
AUSTRIA  
Email: [fritz@iiasa.ac.at](mailto:fritz@iiasa.ac.at), [steffen.fritz@jrc.it](mailto:steffen.fritz@jrc.it)

**Michael Fuchs**

Bundesanstalt für Geowissenschaften und  
Rohstoffe  
Wilhelmstrasse 25-30  
13593 Berlin  
Referat B 4.24  
Informationsgrundlagen im Umwelt- und  
Bodenschutz  
Tel. +49 (030) 36993270  
Email: [M.Fuchs@bgr.de](mailto:M.Fuchs@bgr.de)

**Pierre-Alain Jayet**

Directeur de Recherche  
UMR Economie Publique INRA-INAPG  
(INRA-210)  
Institut National de la Recherche  
Agronomique  
BP01  
78850 Thiverval-Grignon  
FRANCE  
Tel: +33-(0)-1 30 81 53 49  
Fax: +33-(0)-1 30 81 53 68  
Email: [jayet@grignon.inra.fr](mailto:jayet@grignon.inra.fr)

**Florian Kraxner**

Forestry Program  
International Institute for Applied Systems  
Analysis  
Schlossplatz 1  
A-2361 Laxenburg  
AUSTRIA  
Tel. +43-2236-807-233  
Fax: + 43-2236-807-599  
Email: [kraxner@iiasa.ac.at](mailto:kraxner@iiasa.ac.at)

**Elena Moltchanova**

Forestry Program  
International Institute for Applied Systems  
Analysis  
Schlossplatz 1  
A-2361 Laxenburg  
AUSTRIA  
Tel. +43-2236-807-346  
Fax: + 43-2236-807-599  
Email: [moltchan@iiasa.ac.at](mailto:moltchan@iiasa.ac.at)

**Sylvain Leduc**

Dept. of Energy Engineering  
Luleå Tekniska Universitet  
SE-971 87 Luleå  
SWEDEN  
Tel: +46 (0) 920 49 2178  
Email: [sylvain@sirius.luth.se](mailto:sylvain@sirius.luth.se)

**Manfred J. Lexer**

Institute of Silviculture / Department of  
Forest and Soil Science  
BOKU  
Universität für Bodenkultur Wien  
Peter-Jordan-Strasse 70  
A-1190 Vienna  
AUSTRIA  
Tel: +43-1-47654-4056  
Fax: +43-1-47654-4092 or 4069  
Email: [mj.lexer@boku.ac.at](mailto:mj.lexer@boku.ac.at)

**Michael Obersteiner**

Forestry Program  
International Institute for Applied Systems  
Analysis  
Schlossplatz 1  
A-2361 Laxenburg  
AUSTRIA  
Tel: +43-2236-807-460  
Fax: + 43-2236-807-599  
Email: [oberstei@iiasa.ac.at](mailto:oberstei@iiasa.ac.at)

**Katarína Poltárska**

Department of Soil Science and Soil  
Mapping  
Soil Science and Conservation Research  
Institute  
Gagarinova 10  
82713 Bratislava  
SLOVAKIA  
Tel. +421-2-48206969  
Fax. +421-2-43295487  
Email: [poltarska@vupu.sk](mailto:poltarska@vupu.sk)

**Ewald Rametsteiner**

Forestry Program  
International Institute for Applied Systems  
Analysis  
Schlossplatz 1  
A-2361 Laxenburg  
AUSTRIA  
Tel. +43-2236-807-353  
Fax: + 43-2236-807-599  
Email: [ramet@iiasa.ac.at](mailto:ramet@iiasa.ac.at)

**Werner Rammer**

Institute of Silviculture / Department of  
Forest and Soil Science  
BOKU  
Universität für Bodenkultur Wien  
Peter-Jordan-Strasse 70  
A-1190 Vienna  
AUSTRIA  
Email: [Werner.rammer@boku.ac.at](mailto:Werner.rammer@boku.ac.at)  
Tel: +43-1-47654-4067  
Fax: +43-1-47654-4092 or 4069

**Erwin Schmid**

Department of Economics and Social  
Sciences  
Institute for Sustainable Economic  
Development  
University of Natural Resources and Applied  
Life Sciences Vienna  
Feistmantelstrasse 4  
A-1180 Vienna  
AUSTRIA  
Tel.: +43 1 47654 3653  
Email: [erwin.schmid@boku.ac.at](mailto:erwin.schmid@boku.ac.at)

**Uwe A. Schneider**

Research unit Sustainability and Global  
Change Departments of Geosciences and  
Economics  
Hamburg University  
ZMK, Troplowitzstrasse 7  
22529 Hamburg  
GERMANY  
Tel: +49-40-42838-6593  
Fax: +49-40-42838-7009  
Email: [Schneider@dkrz.de](mailto:Schneider@dkrz.de)

**Rupert Seidl**

Institute of Silviculture  
University of Natural Resources (BOKU)  
Peter-Jordan-Strasse 70  
A-1190 Vienna  
AUSTRIA  
Tel.: +43-1-47654-4053  
Email: [rupert.seidl@boku.ac.at](mailto:rupert.seidl@boku.ac.at)

**Rastuskav Skalský**

Head of Department of Soil Information  
Systems  
Soil Science and Conservation Research  
Institute  
Gagarinova 10  
82713 Bratislava  
SLOVAKIA  
Tel. +421-2-48206923  
Fax. +421-2-43295487  
Email: [skalsky@vupu.sk](mailto:skalsky@vupu.sk)

**Vladimir Stolbovoi**

Institute for Environment and  
Sustainability/Soil and Waste Unit –  
European Soil Bureau  
EC-DG JRC  
European Commission –  
Directorate General  
Joint Research Centre  
Via Enrico Fermi 1  
I-21020 Ispra (VA)  
ITALY  
Email: [vladimir.stolbovoi@jrc.it](mailto:vladimir.stolbovoi@jrc.it)

**Jerry Jinyue Yan**

Head of Energy Engineering  
Energy Engineering / Applied Physics and  
Mechanical Engineering  
Luleå Tekniska Universitet  
University Campus, Porsön  
SE-971 87 Luleå  
SWEDEN  
Main Tel: +46-920-491000  
Direct Tel: +46-920-491977  
Fax: +46-920-491047  
Email: [yanjy@mt.luth.se](mailto:yanjy@mt.luth.se)