



Rafal Pudelko

# New Strategies on Bio-Economy in Poland WP 5

- **5.1. Innovation management and technology transfer training programme (M12-M20)**
- **5.2. Design of modern mechanisms for innovation management and transfer. IPR policy (M12-M20)**
- **5.3. Trainings in research (M12-M55)**
- **5.4. International conferences and other events (M12-M55)**
- **5.5. Experimental (M12-M55)**
- **5.6. Writing publications (M12-M55)**

## **Task 5.3: Trainings in research (M12-M55)**

### **5.3.1. Training from the Chair and the newly recruited seniors**

**M. Brandao and A. Bartoli:**

**BioEcon Training Event Applying LCA**

**and Economic-equilibrium models to renewable energy systems,**

**19 July 2017, IUNG-PIB, Puławy**

**L. Hamelin:**

**SimaPro crash course,**

**21 September 2017, Puławy**

# Task 5.3: Trainings in research (M12-M55)

## 5.3.2. External trainings and study visits

 This project has received funding from the European Union's HORIZON 2020 research and innovation programme under Grant Agreement No. 669062

Call: H2020 WIDESPREAD-2014-2015, topic: WIDESPREAD-2014-2 ERA Chairs

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# Task 5.3: Trainings in research (M12-M55)

## 5.3.3. Doctoral trainings summer schools and seminars (1/2)

### BioEcon Seminar for PhD students, 5 October 2016

- Simulating soil moisture of different tillage with the HERMES model (the assumptions dissertation) – Aleksandra Król (IUNG)
- Creating a multi-dimensional NetCDF file using the R package ncd4 (the assumptions dissertation) – Tomasz Żyłowski (IUNG)
- Processing and visualization of spatial data by using FERRET and CDO programs - training (part I) – **Małgorzata Liszewska** (UW)
- Processing and visualization of spatial data by using FERRET and CDO programs - training (part II) – **Małgorzata Liszewska** (UW)

# Task 5.3: Trainings in research (M12-M55)

## 5.3.3. Doctoral trainings summer schools and seminars (2/2)

### BioEcon Workshop and Training Event

Integrating modelling frameworks for assessing the sustainability of bioeconomy strategies, April 10th-14th 2017, IUNG

1. **Stelios Rozakis**
2. Athanasios Petsakos
3. Dimitris Kremmydas
4. Miguel Brandao
5. Andrea Bartoli
6. Lorie Hamelin
7. Rafał Pudelko
8. Jerzy Kozyra
9. Magdalena Borzęcka

# Task 5.3: Trainings in research (M12-M55)

## 5.3.4. Lectures and workshops

- **Including social science perspectives into natural resources research**  
**Kevin Waldie, 1 June 2017, IUNG-PIB**
- **Forestry: management and waste biomass, Dr. Tomasz Noga, 29.06.2017, IUNG-PIB**
- **PhD students and Young Scientists Conference, 29.09.2017, "ADAPTATION TO CLIMATE CHANGE IN AGRICULTURE, 25th Anniversary of Doctoral Studies at IUNG-PIB**

## Task 5.4: International conferences and other events (M12-M55)

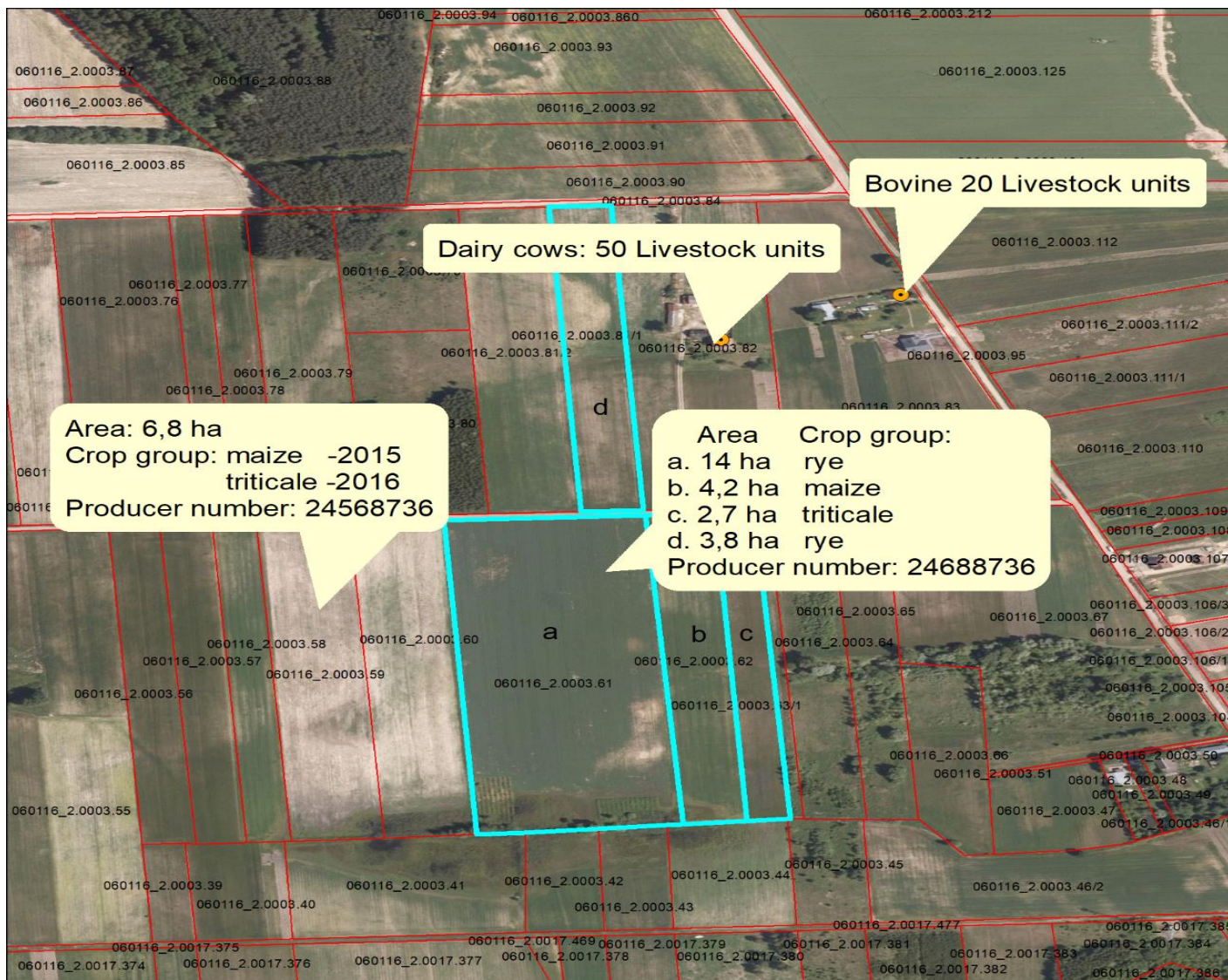
- ENRD Seminar on Promoting the Transition to a Green Economy  
“ Changing our Mindsets - Seizing opportunities in the Green Economy”, 1 July 2016, Brussels
- Low Altitude Remote Sensing Seminar, 2016.10.18, UMCS, LUBLIN
- The IV European Bioeconomy Congress, organised by the Marshal’s Office of the Lodzkie Region, 6-7 October 2016, at Lodz, Poland
- The XV EAAE Congress, 29.08-01.09 2017, Parma
- 2nd International Bioeconomy Congress, 12-13.09.2017, Stuttgart-Hohenheim
- 86th Meeting of European Working Group on Multiple Criteria Decision Aiding, Paris, September 21-23, 2017

# Task 5.5: Experimental (M12-M55)

## Scope of activities:

- collection and processing of statistical and spatial data relating to agriculture, energy (focusing on renewable energy sources) and nature protection,
- construction of a GIS for research in the field of bio-economy,
- creating interactive web applications for obtaining, modelling and dissemination of knowledge in the field of bio-economy,
- research and development of information DSS for prosumer model,
- performing interdisciplinary research and system analysis,
- development of deterministic and stochastic models of processes and phenomena

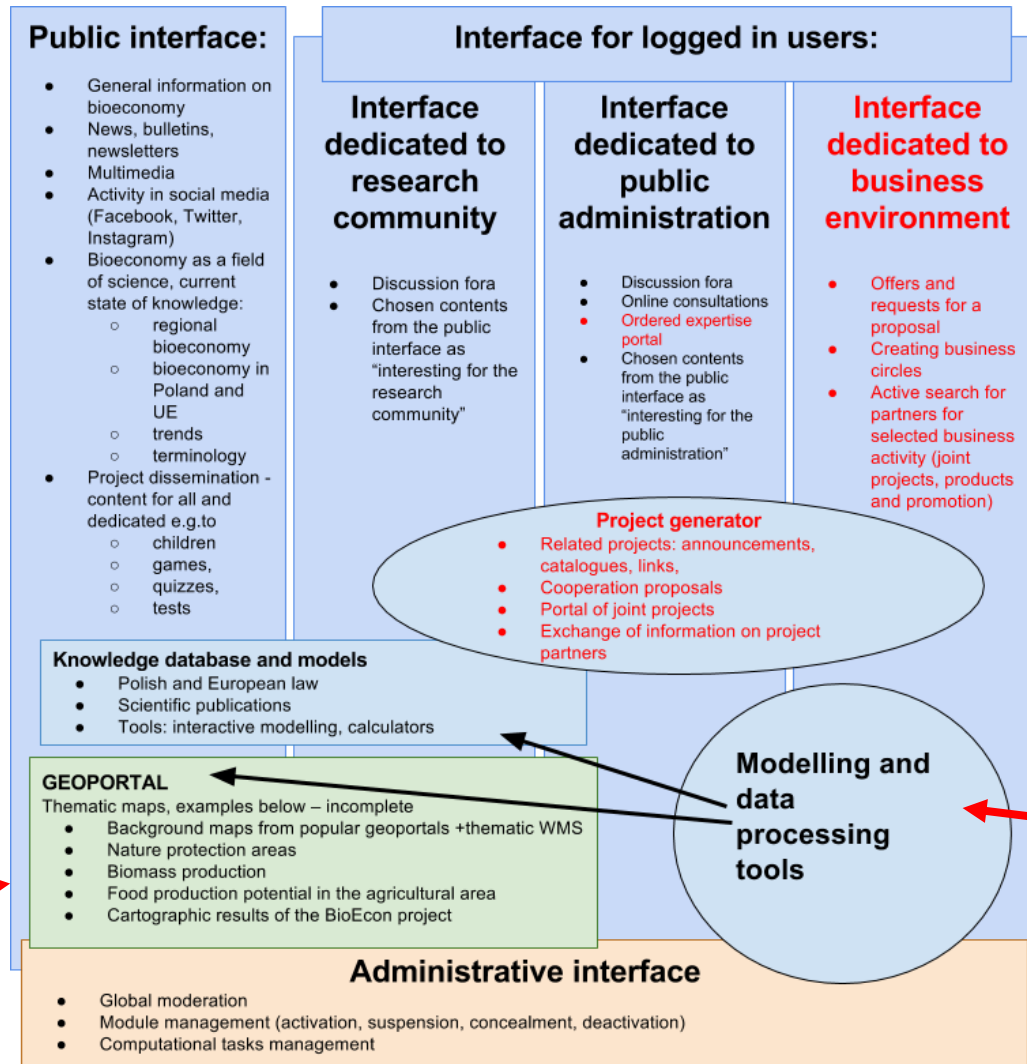
# Task 5.5: Experimental (M12-M55)



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# Task 5.5: Experimental (M12-M55)



BioBoost →

LCAgri →

Biomass geoport. →

New tools and models →

## Task 5.6: Writing publications (M12-M55)

Cowie, A., Ximenes F., Berndes G., Brandão M., Lamers P and Marland G. (2016).

Policy institutions and forest carbon; *Nature Climate Change*, Volume 6, Issue 9, pp. 805 (2016)

Brandão, M., Martin, M., Cowie, A., Hamelin, L., Zamagni, A. (2017). Consequential Life Cycle Assessment: What, How, and Why? In: Abraham, M.A. (Ed.), *Encyclopedia of Sustainable Technologies*. Elsevier, pp. 277–284.

Dale, V. H., Kline, K. L., Parish, E. S., Cowie, A. L., Emory, R., Malmshemer, R. W., ... Brandão, M. (2017). Status and prospects for renewable energy using wood pellets from the southeastern United States. *GCB Bioenergy*, 9(8), 1296–1305. <https://doi.org/10.1111/gcbb.12445>

Pehme, S., Veromann, E., & Hamelin, L. (2017). Environmental performance of manure co-digestion with natural and cultivated grass – A consequential life cycle assessment. *Journal of Cleaner Production*, 162, 1135–1143. <https://doi.org/10.1016/j.jclepro.2017.06.067>

Yang, Y., Heijungs, R., & Brandão, M. (2017). Hybrid life cycle assessment (LCA) does not necessarily yield more accurate results than process-based LCA. *Journal of Cleaner Production*, 150, 237–242. <https://doi.org/10.1016/j.jclepro.2017.03.006>

# Thank you

Please visit our website:

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