WP4 Progress

Prof. Hanna Żakowska
Greg Ganczewski
COBRO is a state, self-supporting research institution subordinated to the Ministry of Economy, founded in 1973.

- Packaging Research and Development Department
  - Laboratory for Packaging Materials and Consumer Packaging Testing
  - Packaging and Environment Department
  - Food Packaging Specialist
- Laboratory for Transport Packaging Testing
- Certification Centre
- Information services
- Standardisation Department
COBRO is a member of:

- World Packaging Organisation (WPO)
- International Association of Packaging Research Institutes (IAPRI)
- European Bioplastics
- Polish Chamber of Packaging (KIO)
<table>
<thead>
<tr>
<th>Work package</th>
<th>Leader</th>
<th>Core output</th>
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<tbody>
<tr>
<td>Communication, knowledge management and dissemination</td>
<td>National Institute of Chemistry, Ljubljana</td>
<td>The partnership establishes network of 4 National Information Points in Slovenia, Slovakia, Italy, Poland. NIP's use knowledge and tools developed transnationally to promote joint approach to issues of bioplastics in their countries.</td>
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<td>Developing a roadmap for action – from science to innovation in the value chain</td>
<td>Polish Academy of Sciences, Centre of Polymer and Carbon Materials</td>
<td>Partners actively develop a transnational Roadmap introducing a step-by-step program, based on the Joint R&amp;D Scheme, for producers of polymer materials.</td>
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<td>Framework conditions for stimulating market demand</td>
<td>Polish Packaging Research and Development Centre</td>
<td>Partners consider results of pilot advisory test and elaborate final Transnational Advisory Scheme in 5 languages for the future use of NIPs and dissemination across Central Europe. NIPs in Slovenia and Slovakia set up a certification and labeling system for bioplastics. COBRO [PP13] as experienced certification institute delivers expert support in the procedure.</td>
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WP4 Gantt chart:

- Months 7-12:
  - WP4.2 Draft Advisory Scheme
  - WP4.5 Certification System
### WP4 Gantt chart:

<table>
<thead>
<tr>
<th>WP</th>
<th>Task</th>
<th>Who, what, when</th>
<th>Responsible</th>
</tr>
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<tbody>
<tr>
<td>2</td>
<td>Media and marketing plan</td>
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<td>Project website</td>
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<td>2</td>
<td>Launch conference in Italy</td>
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<td>2</td>
<td>Preparation to EURO2012 conference in Winter 11/12</td>
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<td>2</td>
<td>Preparation to National Info Points launch in Jan 2012</td>
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<tr>
<td>3</td>
<td>Draft Joint R&amp;D scheme + case studies selection</td>
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<td>4</td>
<td>Draft Advisory Scheme</td>
<td>COBRO</td>
<td>COBRO</td>
</tr>
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<td>4</td>
<td>Planning for setting-up certification schemes in SI&amp;SK</td>
<td>Poland, Slovenia, Slovakia – throughout the project timeline</td>
<td>COBRO + DIN CERTCO / SLOPAK / Slovenia (?)</td>
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WP4.1 - Context report on industry requirements

- 82 pages
- 2 Parts
  - Theory/Literature review:
    - Sustainability
    - Definitions
    - Plastics
    - Bioplastics
  - Market Research
    - Polish Packaging Industry
    - End Consumers
    - Slovenian Packaging/Retail Industry
    - Polish Food and Retail Sector
Main Conclusions:

- Both Polish and Slovenian companies are not familiar with the term ‘sustainable’
- Both countries industries are familiar with ‘Biodegradable’ and ‘Carbon Footprint’ solutions
- Market oriented approach to innovation – PULL STRATEGY - ‘If the customers/consumers are willing to use/pay then we will adapt’
- Waste Management Strategy is of little consequence
- Companies are very willing and interested to receive assistance
WP4.2 – Draft Advisory Scheme

- Report is 75% done [[in Polish]]
- It is being translated as I speak
- About 50 pages projected
- Expected deadline of sending finished English report to all partners is mid-end April
- Shortly after the report, a training Power Point Presentation with ‘liner notes’ is going to be prepared
- The presentation is going to cover everything in the Advisory Scheme
WP4.2 – Draft Advisory Scheme – Table of Contents

1. Introduction
2. Glossary of terms
3. Polymer Materials
   1. Traditional Plastics
   2. Bioplastics
      1. Biodegradable plastics from renewable resources
      2. Biodegradable plastics from fossil resources
      3. Traditional plastics from biobased/renewable resources
4. Sustainability – assessment criteria
   1. Sustainability model
   2. Environmental objectives
   3. Economic objectives
   4. Social objectives
5. Certification schemes/assessment systems
   1. Compostable products certification
   2. Biobased content certification
   3. Carbon Footprint
6. Conclusion

* Not yet complete
WP4.2 – Draft Advisory Scheme – Classification

**Biopolymers**
- Based on renewable raw materials
  - e.g. Bio-PE (PP/PVS), biobased PET, PTT
- Are biodegradable and based on renewable raw materials
  - e.g. PLA, PHA, Starch blends

**Conventional Polymers**
- Not biodegradable
  - nearly all conventional plastics
    - e.g. PE, PP, PET
  - Petrochemical raw materials

**Biopolymers**
- Biodegradable
  - e.g. PBAT, PBS, PCL

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Prof. Dr. Ing. H.-J. Endres, FH Hannover

CObRO
WP4.2 – Draft Advisory Scheme – Sustainability

- **Environmental objectives** - LCA/ecobalance, carbon footprint, etc.
- **Economic objectives** - Economic feasibility, financial feasibility, Life Cycle Costing, costs of recycling/recovery options etc.
- **Social objectives** - Elements of recycling system model, environmental awareness, etc.
WP4.5 - Planning for setting-up certification schemes in SI&SK

- First WP4.5 meeting in Poland – 20th September 2011
- Project Partners present:
  - LP1 – NIC
  - PP2 – SLOPAK
  - PP5 – Polymer institute of the Slovak Academy
  - PP6 – Slovak Technical University, Bratislava
  - PP13 – COBRO (5 representatives)

- External Partner present:
  - Miriam Sahl – DIN CERTCO
Miriam Sahl’s presentation was split into the following parts:

- **DIN CERTCO** – first Miriam Sahl spoke about the certification body she represents, its history and present operations
- **CERTIFICATION** – a theoretical part about the definitions, meaning, importance and advantages of a certification process
- **CERTIFICATION OF COMPOSTABLE PRODUCTS** – technical presentation about the complex particulars and steps of the certification of compostable product/materials for the seedling logo
- **CERTIFICATION OF BIOBASED PRODUCTS** – technical presentation about the second type of certification of sustainable products/materials that DIN CERTCO performs
- **THE DIFFERENCE BETWEEN BOTH CERTIFICATIONS** – technical presentation showing the differences of definitions according to ISO, EU and ASTM standards.
WP4.5 - Planning for setting-up certification schemes in SI&SK

- Second WP4.5 meeting in Slovenia – March 2012
- Project Partners present:
  - LP1 – NIC
  - PP2 – SLOPAK
  - PP5 – Polymer institute of the Slovak Academy
  - PP6 – Slovak Technical University, Bratislava
  - PP13 – COBRO
- External Partner present:
  - Miriam Sahl – DIN CERTCO
WP4.5 - Planning for setting-up certification schemes in SI&SK

- Second WP4.5 meeting in Slovenia – March 2012

Conclusions:

- Preparation, signing and sending of official Plastice letterhead Letters of Intent (LOI) to DIN-CERTCO – **deadline** – April 2012
- COBRO presentation of cooperation between COBRO and Din Certco – **deadline** – June 2012
- Meetings of representatives from Slovenia and Slovakia in Din Certco in order to discuss the contract – **deadline** – early fall
- Signing of cooperation agreement between Slovenia and Slovakia with Din Certco – **deadline** – first half of 2013
WP4.5 - Polish Cooperation with DIN CERTCO
PRACTICE

STEP 1
Interested company fills the certification application form in Polish/English

STEP 2
The form is sent to COBRO and translated/checked/corrected.

STEP 3
The application form is sent to DIN CERTCO.

STEP 4
COBRO maintains communication with the Polish company and informs about any developments, additional documents needed or corrections.
STEP 5
If successful, the certificate is sent to COBRO along with the invoice

STEP 6
When the invoice is paid by the company, COBRO officially sends the certificate to the company

STEP 7
COBRO assists in annual verification tests
WP4 – Whats Next??

- **WP4.2**
  - The report is 75% complete. It will be finalised this month and sent to all project partners
  - Integration of Draft Advisory Scheme into NIP websites

- **WP4.3**
  - Full year of transforming Draft Advisory Scheme into Transnational Advisory Scheme
    - Inter Plastic cooperation
    - 20 pilot advisory tests with SME’s
    - Updates of NIP websites with corrections and fine tuning of DAS

- **WP4.5**
  - Next individual meeting of representatives of Slovenia and Slovakia in Din Certco HQ – Berlin – should COBRO assist??
COBRO TEAM
Thank you for your attention

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