

## Partner Search

### 1. Call Information

<b>Call for proposal</b>	NMP 2013
<b>Topic</b>	NMP.2013.3.0-1 Tools for Monitoring and Assessing Resource-efficiency in the Value Chain of process Industries
<b>Funding Scheme</b>	Small or medium-sized collaborative projects
<b>Deadline</b>	23 October 2012 (Stage 1)
<b>Internal Deadline</b>	31 July 2012

### 2. Project Information

**Project Title:**

Tools for eco-efficient fibre based value chains

**Abstract of the project** (*max. 500 characters*):

A consortium led by a German Research Institution seeks industrial partners for a FP7 project aiming the development of novel tools for waste disposal industrial companies to manage municipal and industrial waste material flows and novel tools for monitoring and assessing resource efficiency for several value chains. The novel tools have a potential use for more resource and energy efficient production of current paper and board products and novel products from the unusable side-stream fractions.

### 3. Target Partner

**Target Partner**

(SMEs, Research Institute, University...)

Only industrial partners are sought

**Partner profile sought**

(further description of the requested partner)

Paper and board packaging, sorting technologies, logistics, recycling, energy production, waste management

**Preferred countries**

Eastern Europe

<b>Role of the partner within the project</b>	Contribute to the concept development, supply production data to models, carry out demonstration studies
<b>Partners already involved</b>	5 partners: University/Research Institutions and industrial partners from Germany, Austria, Finland and Spain

4. Further Information

Please, describe or add important information about your project idea / proposal.

A consortium led by a German Research Institution seeks industrial partners for a FP7 project aiming the development of novel tools for waste disposal industrial companies to manage municipal and industrial waste material flows and novel tools for monitoring and assessing resource efficiency for several value chains. The novel tools have a potential use for more resource and energy efficient production of current paper and board products and novel products from the unusable side-stream fractions. Lean paper and board products, use of bioenergy and novel products (e.g. use in composites and cement) will be demonstrated.

- The new tools for **eco indicator based process and product design** will quantify the “sustainability” or environmental friendliness of products and processes and allow decisions based on such criteria.
- The tools will work “fraction based” so that the value or cost of different fractions can be compared and the information can be used for product design (modelling of separation processes). It can model both taking out fibres recycled many times and unsuitable virgin fractions (possible options).
- Several tools already exist for dry sorting and fractionation in wet form even in commercial scale. Novel **analytical tools** are however needed and developed to support the decision making and controlling of the processes. The unacceptable materials that can efficiently be used for other products or energy. Weak fibre fractions and fines slowing the dewatering and will be separated in order to improve energy efficiency.
- **Life cycle assessment (LCA)** modelling will be applied in evaluating the environmental impacts of fibre flows and the potential uses of different fibre and waste fractions. GIS based information will be used in LCA modelling. The traditional product based LCA system will be widened towards the assessment system of multiple lives of fibre raw material. For assessing the **eco-efficiency** of renewable raw materials, **indicators** that highlight the aspects related to recyclability, reusability and cumulative energy and material demand will be developed, taking into account the economic constraints.

5. Organisation Details

<b>Name</b>	Bavarian Research Alliance
<b>Organisation Type</b>	Non profit organisation
<b>City / Country</b>	Munich (Germany)
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