

# User consultation workshop

Remote sensing applications related to land use/- change: Knowledge-gaps, innovations, challenges and low-hanging fruits

Preliminary time slots

November 09-11, 2015

Institute of Social Ecology, Vienna

**Related project: Detecting changes in essential ecosystem and biodiversity properties – towards a Biosphere Atmosphere Change Index: BACI ([www.baci-h2020.eu](http://www.baci-h2020.eu))**

**Context:** The availability of remote sensing products is currently drastically increasing, in number as well as in quality, opening up new research opportunities and enhancing capabilities for land system research. Crucial information can sometimes only be gathered by remote sensing at a suitable quality and quantity. Furthermore, remote sensing data can be used to cross-check ground-based data, to close data-gaps as well as to assess uncertainties behind land information. However, large knowledge gaps in land system science prevail (e.g. related to land use and management, forestry, grazing, food security, land-use intensity, etc.). In this context, the role and innovative character of remote sensing products is not yet fully explored, but can be suspected to provide massive opportunities for improvement.

**Scope:** This workshop aims at facilitating co-design and co-production of knowledge with regard to innovative applications of remote sensing products. It will assemble a critical mass of experts from various branches of land system science, producers as well as users of data, experts focussing on different spatio-temporal scales, experts from data- as well as modelling communities. It aims at identifying and specifying knowledge gaps in land system science, explore reasons for these, and discuss opportunities for improvements resulting from the current and upcoming availability of remote sensing products, based on interdisciplinary knowledge from different disciplines and research strands that will be present at the workshop.

**Aims and objective:** 1) Establishing a network between providers and potential users of remote sensing products in- and outside the BACI project, by linking experts from land system science and land change science and involving land managers and practitioners; 2) informing users about new and planned EO-products; 3) identifying requirements for remote sensing products amongst users in order to 4) ensure optimal applicability of near-future remote sensing products.

Insights generated during the workshop will be contextualized in a manuscript that will help prioritizing research directions in the BACI project and informing users about expected EO-products. Publishing in peer-reviewed journal is envisaged and will be discussed at the workshop.

**Organizing team:**

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