

## Precision liming in Brandenburg (pH-BB)

### Präzise Kalkung in Brandenburg

NORTHEASTERN GERMANY

**Starting date - expected end date** | 01.04.2017 – 30.09.2022

<http://ph-bb.com/>

#### Operational Group

In the federal state of Brandenburg, only on 26% of the arable land, the soil pH value is in the optimal range. In contrast, on 74% of the areas are subject to reduced crop yields and soil fertility due to pH values that are either too high or too low.

The general objective of the pH-BB project is to improve the management of soil acidity on farms in the federal state of Brandenburg. With the help of mobile soil sensors, soil properties relevant for the determination of lime requirement are mapped rapidly, inexpensively and in a high spatial resolution. Furthermore, methods for processing sensor data, calculating lime requirements and generating lime application maps are developed and recommended. Finally, a web-based decision support system is developed covering the entire pH-BB workflow to put sensor-based site-specific lime fertilization into practice.



**Lead partner:** Eberswalde University of Sustainable Development

#### Other partners

#### Research

- ▶ Leibniz Institute for Agricultural Engineering and Bioeconomy; Leibniz Institute of Vegetable and Ornamental Crops

#### Farmers

- ▶ Komturei Lietzen GmbH; Landwirtschaft Philipp; Gut Wilmersdorf GbR

#### Agricultural service providers

- ▶ Landwirtschaftliche Beratung der Agrarverbände Brandenburg GmbH; FGL Handelsgesellschaft mbH; iXmap



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