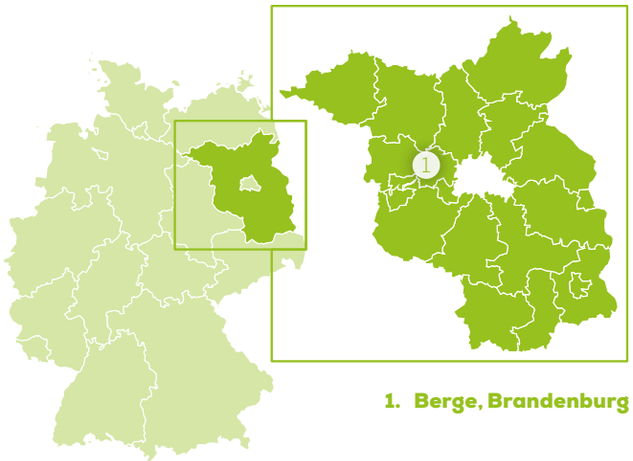
Challenge



1. Berge, Brandenburg

DESCRIPTION

- Sandy soils
- Annual precipitation of 500 mm
- 9.6° C mean temperature with long dry summer periods
- Crops grown include cereals, oil seed rape, maize, potatoes, fodder crops, grass

CHARACTERISTICS

- Intensive farming and nature conservation areas next to one another
- Large farm sizes with high local concentration of livestock
- High public awareness of soil, water, and air pollutants

CHALLENGES

- Reduction of nitrogen (N) surplus in nutrient balance
- Reduction of N emissions
- Improving N efficiency in food and feed production

SELECTED PRACTICES

- Testing organic N-fertiliser application strategies for minimising yield-scaled emissions
- Studying genotypic differences in mechanisms contributing to N-efficiency of plants
- Management of treated residues application, application strategies and potentials of recovered mineral fertilisers from digestates
- Experiment with 5 different biogas digestates, applied twice a year since 2011

Participating partners

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Circular solutions for carbon and nutrient management

Case study
Brandenburg, Germany

