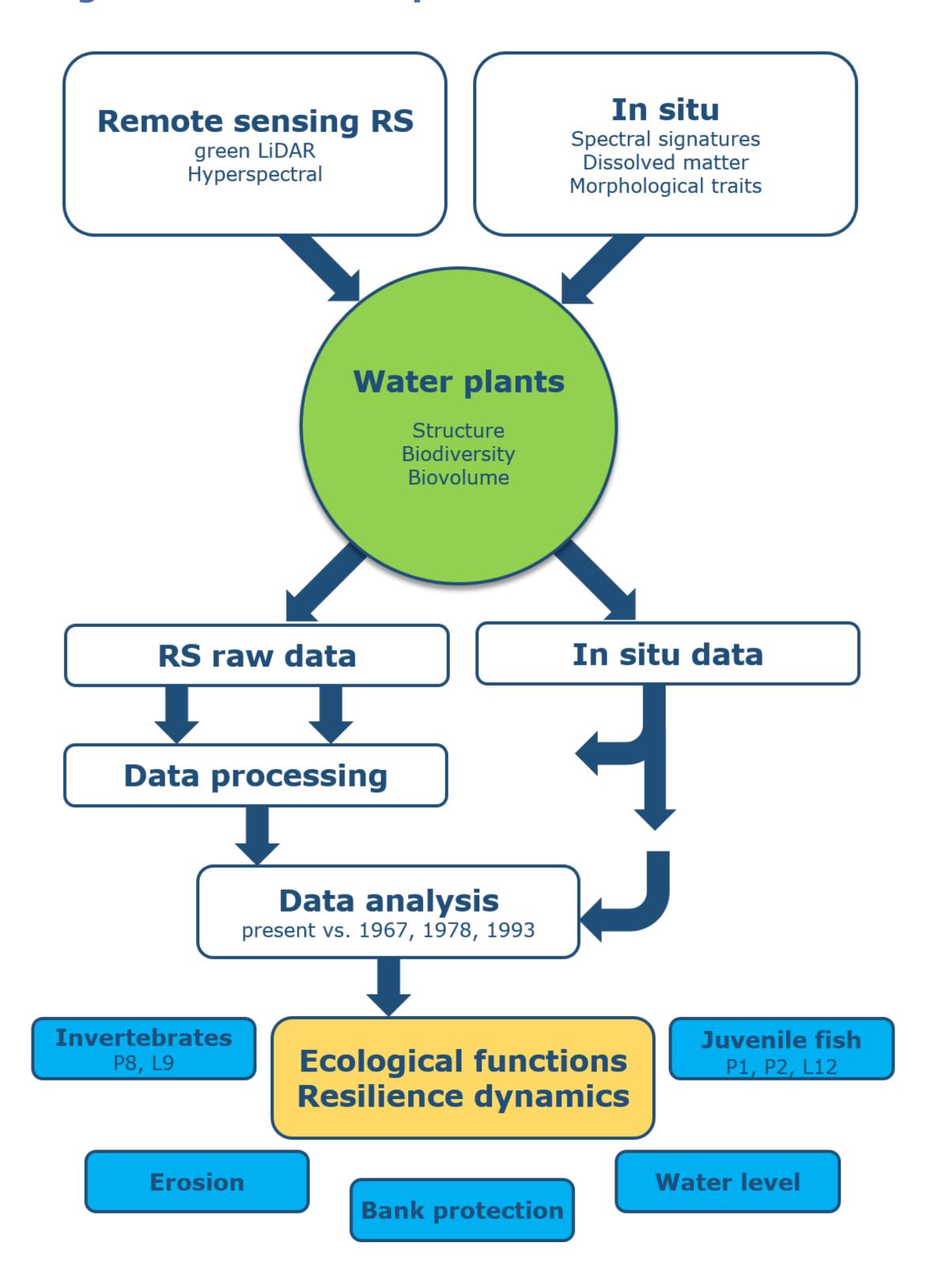
# Water plants

## L11: Resilience of submerged macrophytes in the littoral zone of Lake Constance



Leben im Bodensee gestern, heute und morgen

#### Project description

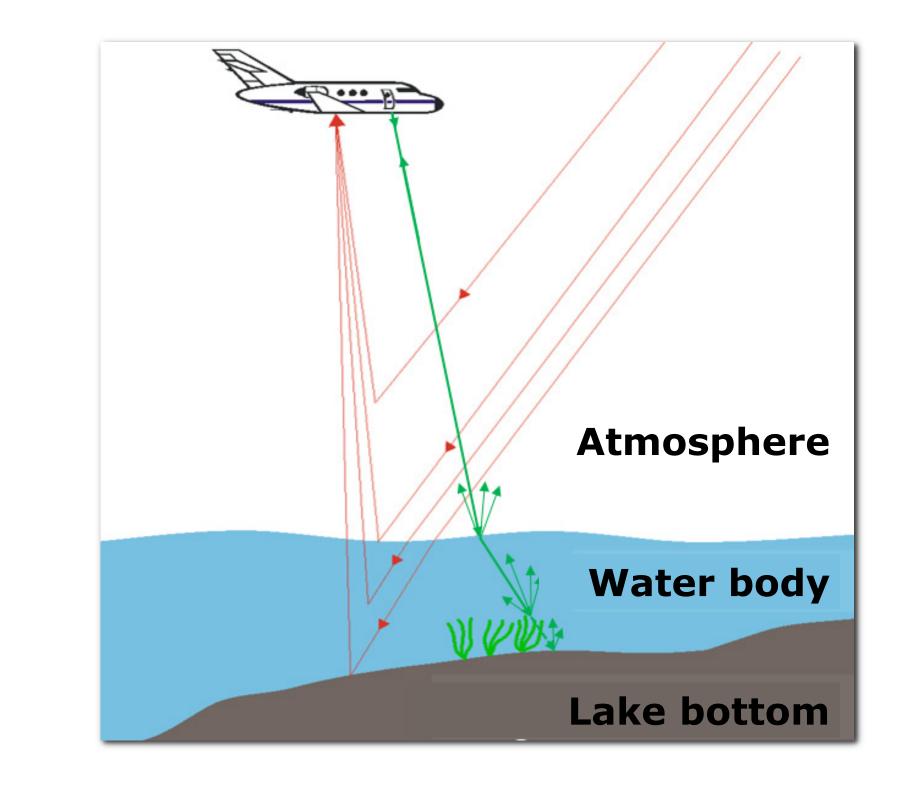




- Bioindication Water plants are useful indicators for nutrient contamination.
- Habitat structures Water plants are an important refugium for fish and invertebrates providing food, shelter and nursery ground.
- Resilience Water their plant ecosystems and resistance to disturbance is our field of research.

#### Project objectives

- Development of remote sensing methods to map water plants automatically by integrating hyperspectral, green LiDAR and ecological data
- Spatiotemporal dynamics of water plant structures and diversity (comparative data from 1967, 1978 and 1993)
- Analysis of resilience and impact on ecological functions, e.g. habitat quality for juvenile fish and invertebrates (sub-projects P1, P2, P8, L9 and L12)



### Project staff

- Prof. Dr. Klaus Schmieder, project leader
- Dipl.-LaÖk Gunnar Franke, PhD student
- Dr. Peter Gege, project partner DLR
- Holger Bischoping, project partner BGC









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