

# Introduction to species distribution modeling

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# Lecturers

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# Course overview

Ecological Niche Modeling (ENM) and Species Distribution Modeling (SDM) using the R programming language. This course assumes basic R knowledge.

In the first # days, etc.

A basic knowledge of Geographic Information Systems is required for ENM/SDM. I will introduce basic concepts and operations of GIS, but this is not a course about GIS.

# Learning objectives

- ▶ Understand the theory behind ENM/SDM.
- ▶ Perform ENM/SDM in R.
- ▶ Apply ENM/SDM to real data.
- ▶ Produce maps.

# Material

The material of this course is hosted at [asd](#). It consists of:

- ▶ Lectures.
- ▶ Labs.
- ▶ Slides.

The only package that we will use is `terra`. You might want to install also `codetools`, which performs checks on the C++ code of `terra`.

```
install.packages(c("codetools", "terra"))
```

## **i** Note

`terra` is still in active development and some functionalities change with newer releases.