



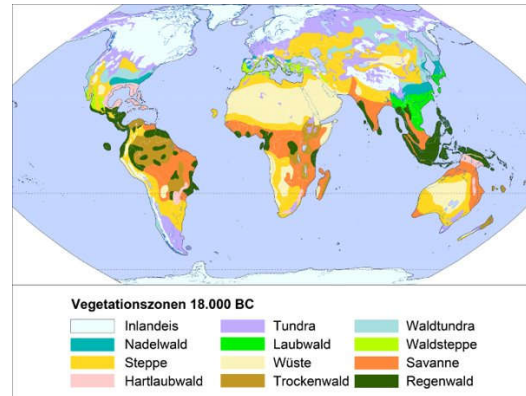
IO11: SCAFFOLDING

AIMS OF THE SCAFFOLDING MODULE

This module presents and offers activities for teacher education intended to equip prospective teachers with the knowledge and skills to use and develop scaffolding frameworks, that support lower secondary students in dealing with open complex problems. Student teachers learn about scaffolding frameworks using the example of *forest* - an SSI with numerous references to the life experiences of future science teachers and their future students.

They focus on the following topics

- Forests and site
- Forests in change
- Forests and climate change



TEACHING AND LEARNING METHODS

Step by step, students are familiarised with scaffolding

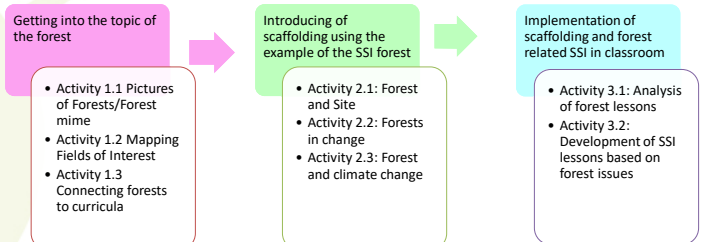
- Working out the connection between *forest* and site
- Exploring how appearance and distribution of *forests* changed in earth history
- Understanding the links between *forests* and climate change
- Planning own lessons using *scaffolding* techniques and *forest* related SSI
- Implementation in classroom

DIMENSIONS OF FORESTS

Forests are very suitable as SSIs because they are a good example for discussing both environmental and social challenges.

- Ecological dimension: *Forests* are complex ecosystems that provide habitats for many animals and plants, preserve biodiversity and bind greenhouse gases
- Economical dimension: *Forests* form economic areas. The production of renewable raw materials marks the beginning of a value chain and creates jobs.
- Societal: *Forests* support human health and provide services to our society, such as protection, recreation and the provision of livelihoods. In return, we all bear the responsibility for preserving its resources.
- Cultural: Our history and culture shaped the *forest* and was shaped by it. Numerous fairy tales, folk legends and art are inspired by the *forest*.

MODULE STRUCTURE



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