SUSTREE: Utilizing genetic diversity for adapting forests to climate change

Background

- Many forests in Central Europe (CE) are vulnerable to climate change.
- Genetic variation within tree species can be utilised to select adapted planting materials suitable for future conditions.
- SUSTREE aims to develop tools for practitioners and spread awareness on the transnational issues of climate change and adaptation.

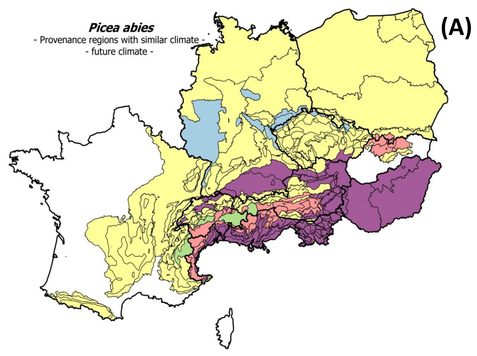
SUSTREE Documentary Movie

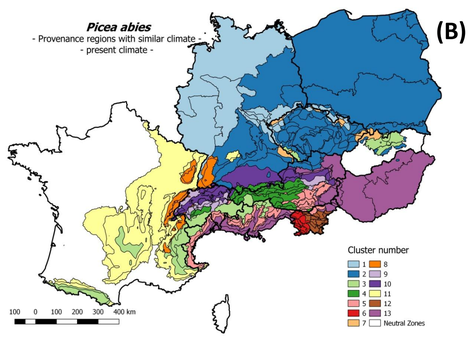
The trailer of Documentary can be found in the following link
https://youtu.be/8kE4hpBkNts

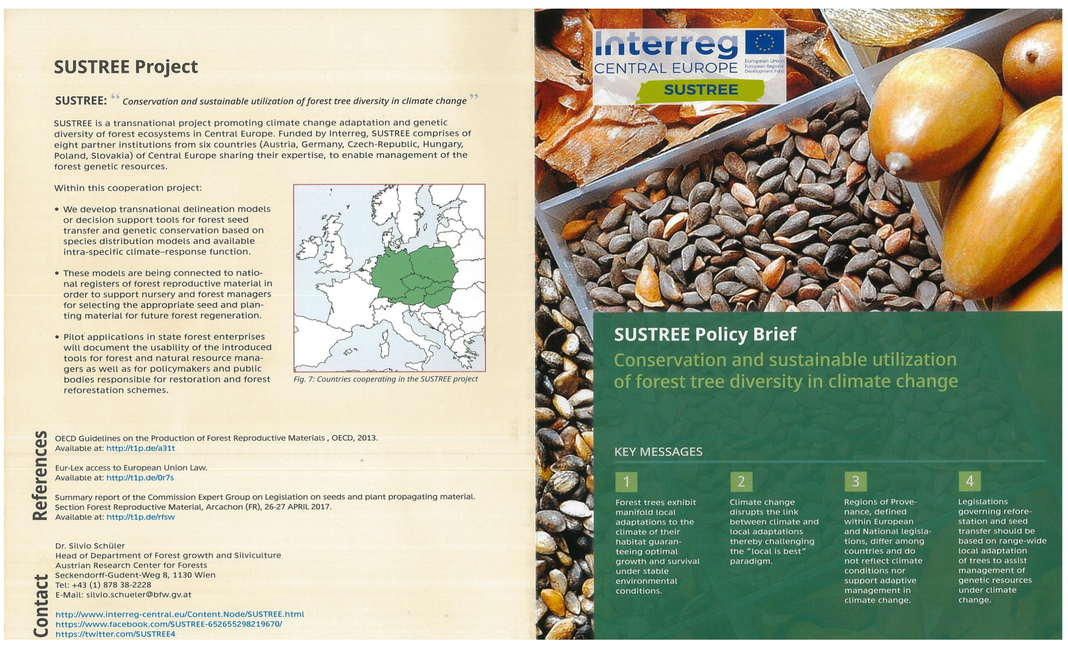
Policy Relevance

Forest seeds and seedling are legally regulated within the Council Directive 1999/105/EC. It provides the basis for all national regulations in which, among others, national Regions of Provenance are defined.

The policy brief contains for example, maps of climatic similarity among present Regions of Provenance for Norway spruce (Picea abies) for present climate, (A) and the expected shift and expansion of south-western (B) and pannonic climate regimes until the end of the century.

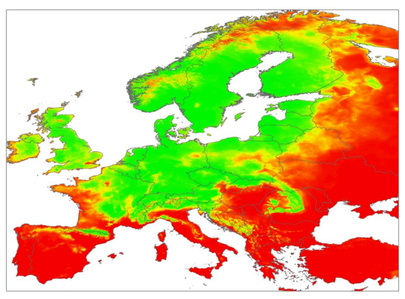




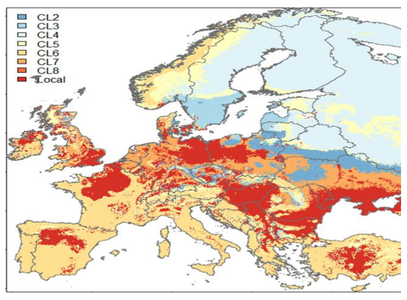


SUSTREE Policy Brief

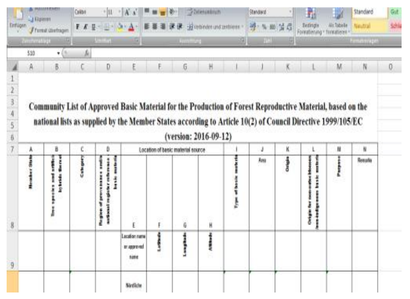
Decision Support Tools



Tree species vulnerability



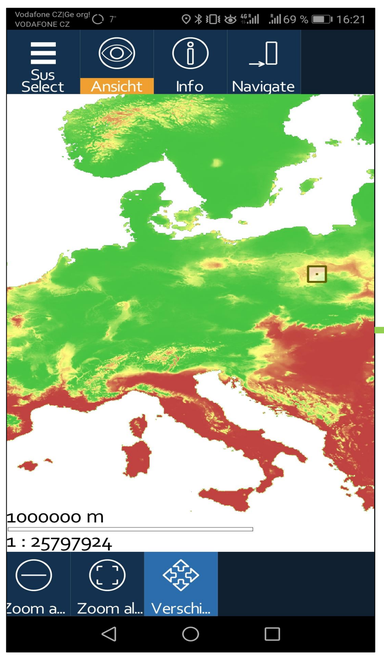
Forest seed transfer



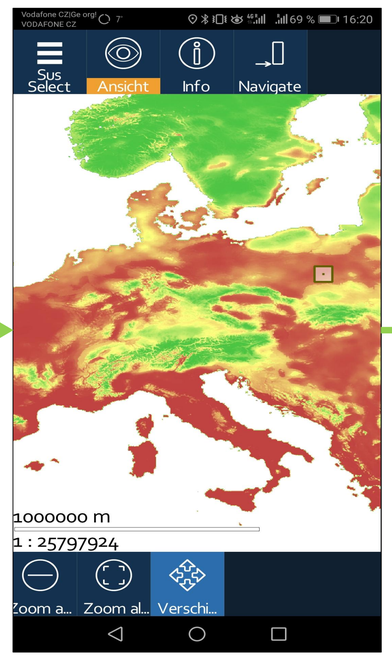
Database of seed sources

Smartphone App SusSelect

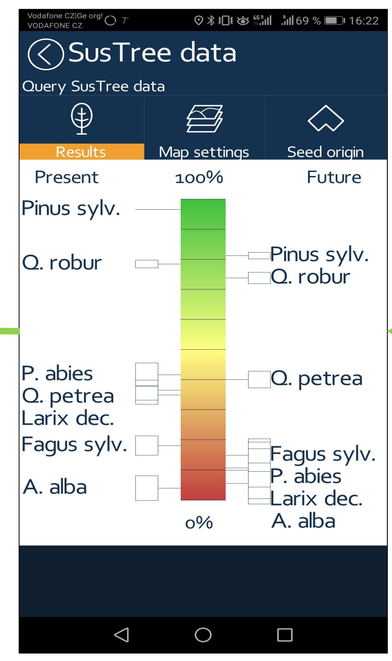
1 Map the vulnerability of tree species under current climate



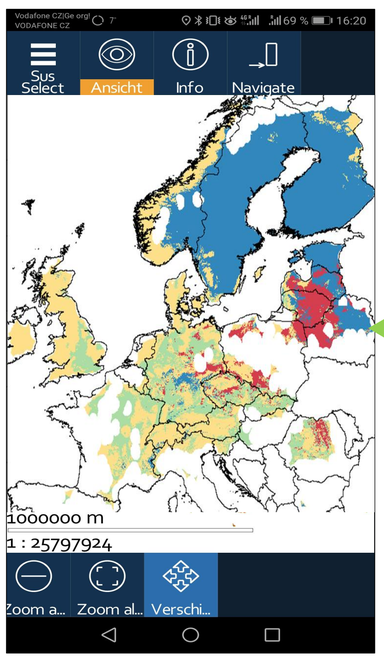
2 ...under future climate



3 Compare tree species vulnerability



4 Find the best planting material



SusSelect mapping application of the SUSTREE Interreg displays the current and future vulnerability of 7 European tree species, and suggests locations for seedling selection

Beta Version available on Google Play store, Android-4 version

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