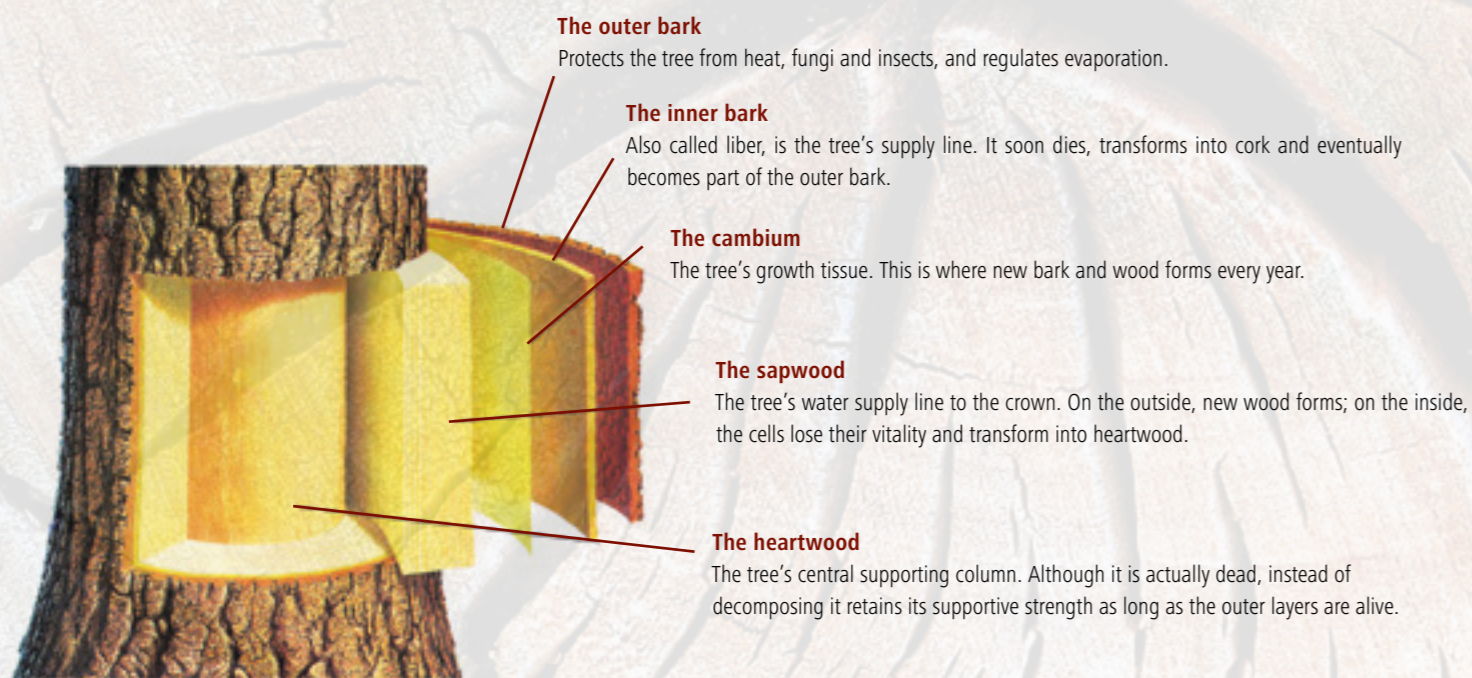


What is wood?

Wood is robust and versatile. However, even the best material has its limits. Consequently, Empa researchers are looking to transform wood into a high-tech material and thus broaden the range of applications for this natural resource. They tamper with the material's cell structure, where they deposit materials with a vast range of different properties. But before you read on about all the things you can do with wood in the next ten pages of this issue, let's take a closer look at this miracle natural material. How does a tree grow, for instance? What do tree rings tell us? And what does the structure of wood look like at microscopic level?

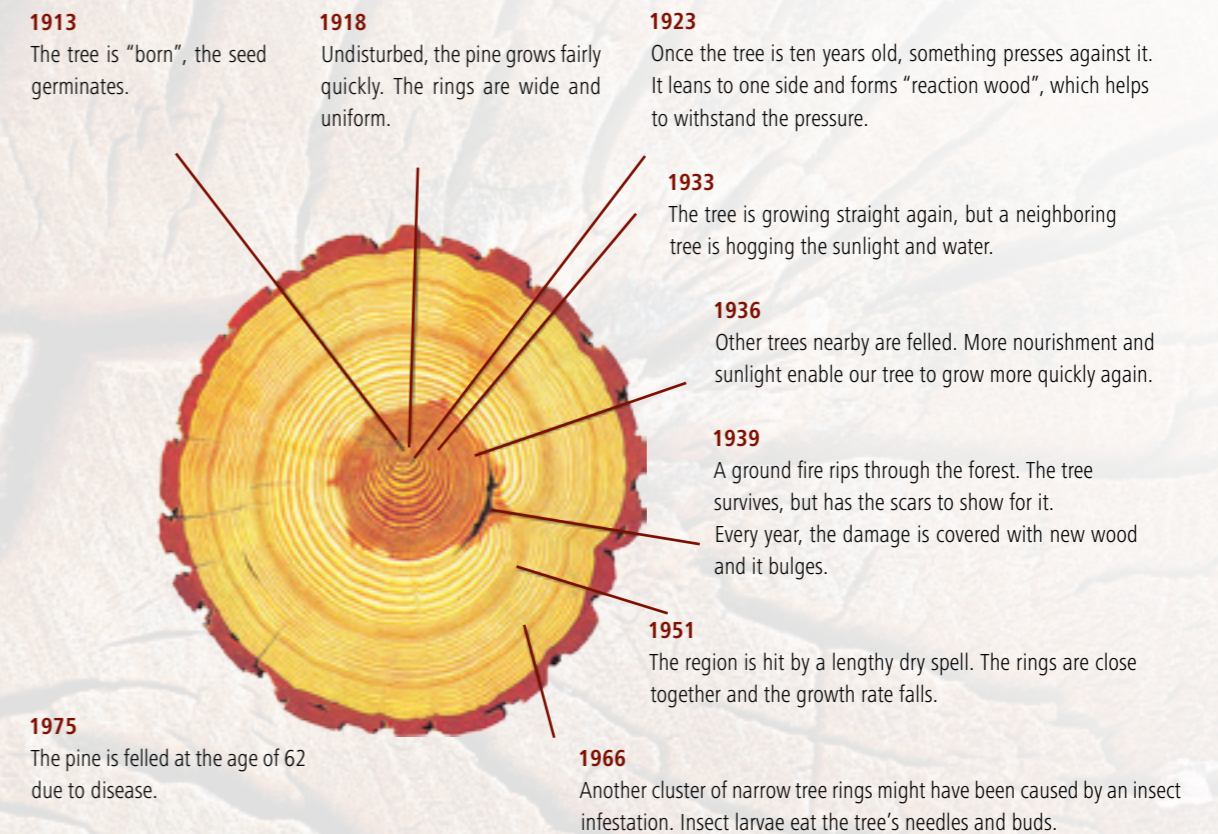
From bark to heartwood

The structure of a tree trunk



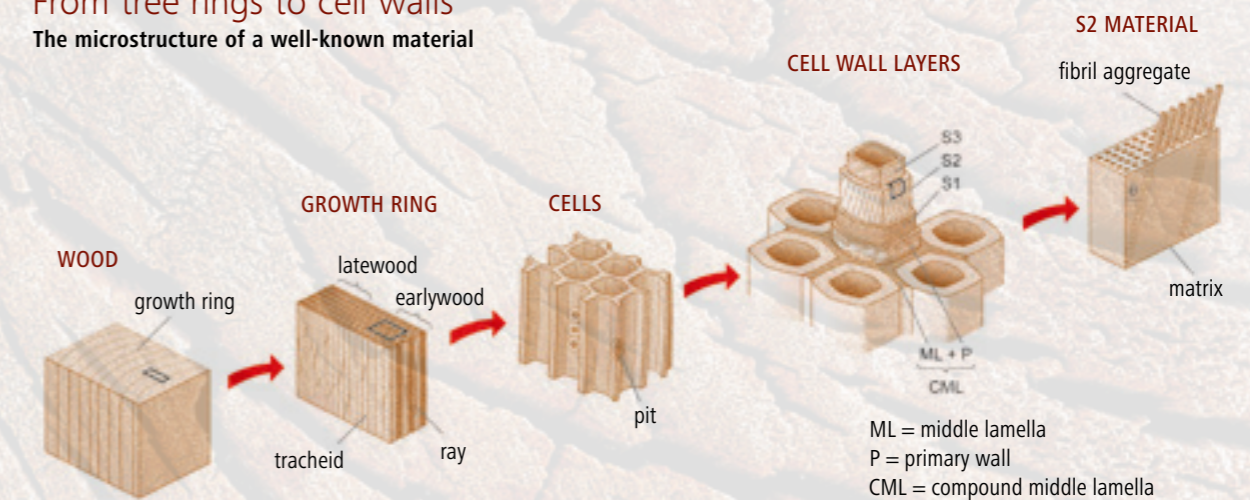
What tree rings can tell us

62 growth cycles using the example of a pine tree



From tree rings to cell walls

The microstructure of a well-known material



Video (German language)
«Wunderwerkstoff Holz – belastbar, vielseitig und nachwachsend»

https://youtu.be/L_SoteRa1fM