

Holz / moderne Werkstoffe

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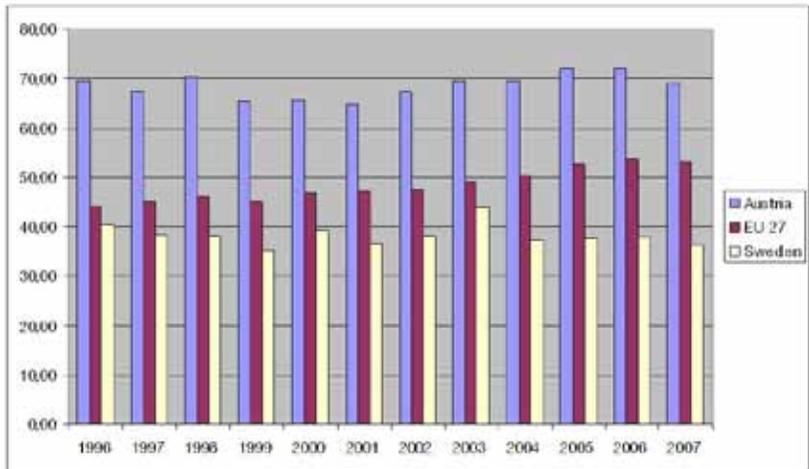
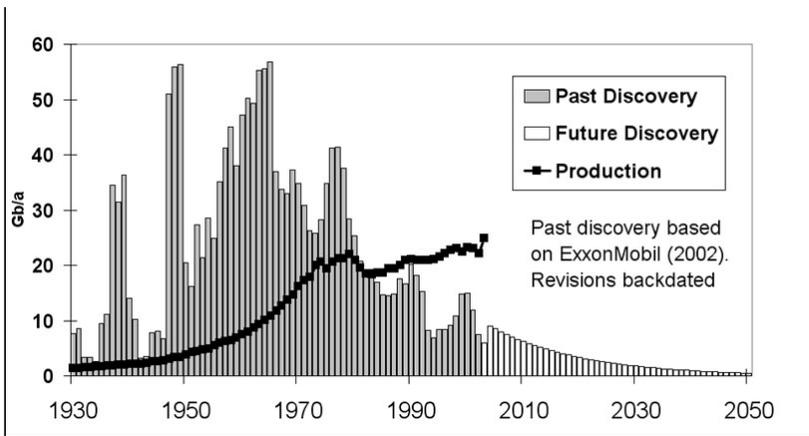
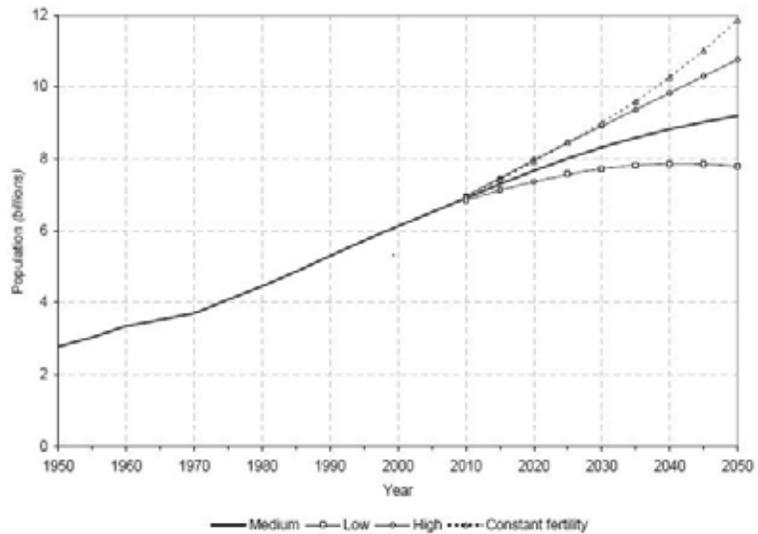


Figure 1. Population of the world, 1950-2050, according to different projection variants



**Zukunftsfähigkeit
Nachhaltigkeit**

Inhalte

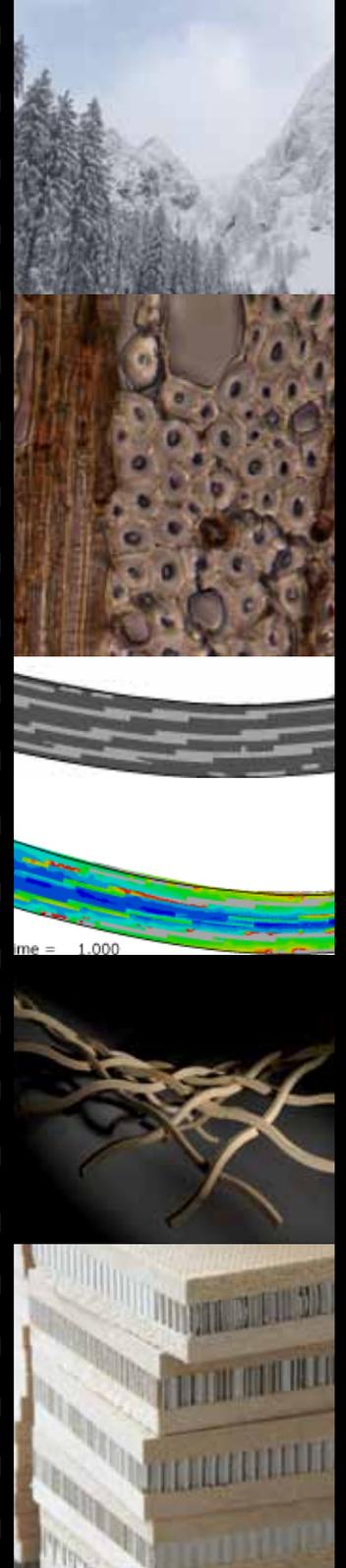
**Baum und Holz- eine Erfolgsgeschichte seit
über 350 Mill. Jahren**

Holz - eine regionale Ressource als

Bau- und Werkstoff,

Energieträger

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**Wind-
streuung**



**Tier-
streuung**



**Gymno-
spermae**

**Angio-
spermae**

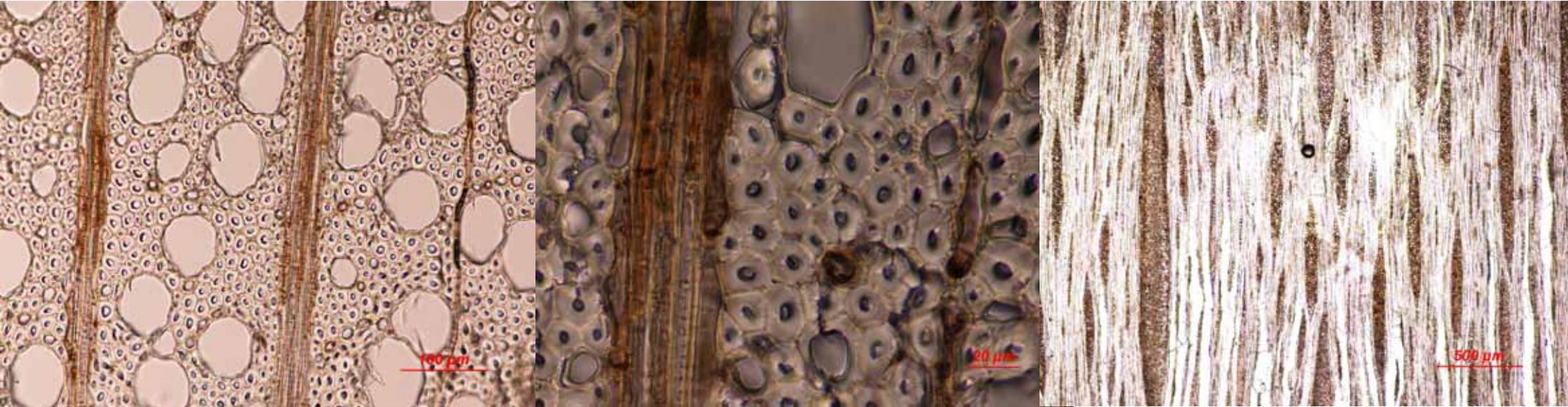
**Homi-
nini**





**Mechanik
Physik
Chemie**

Holz ein biogener Rohstoff



Buche (*Fagus sylvatica*)



Esche (*Fraxinus excelsior*)

Holz als Bau und Werkstoff

Beispiele Materialentwicklung

Beispiele Technologieentwicklung

Beispiele Anwendungen



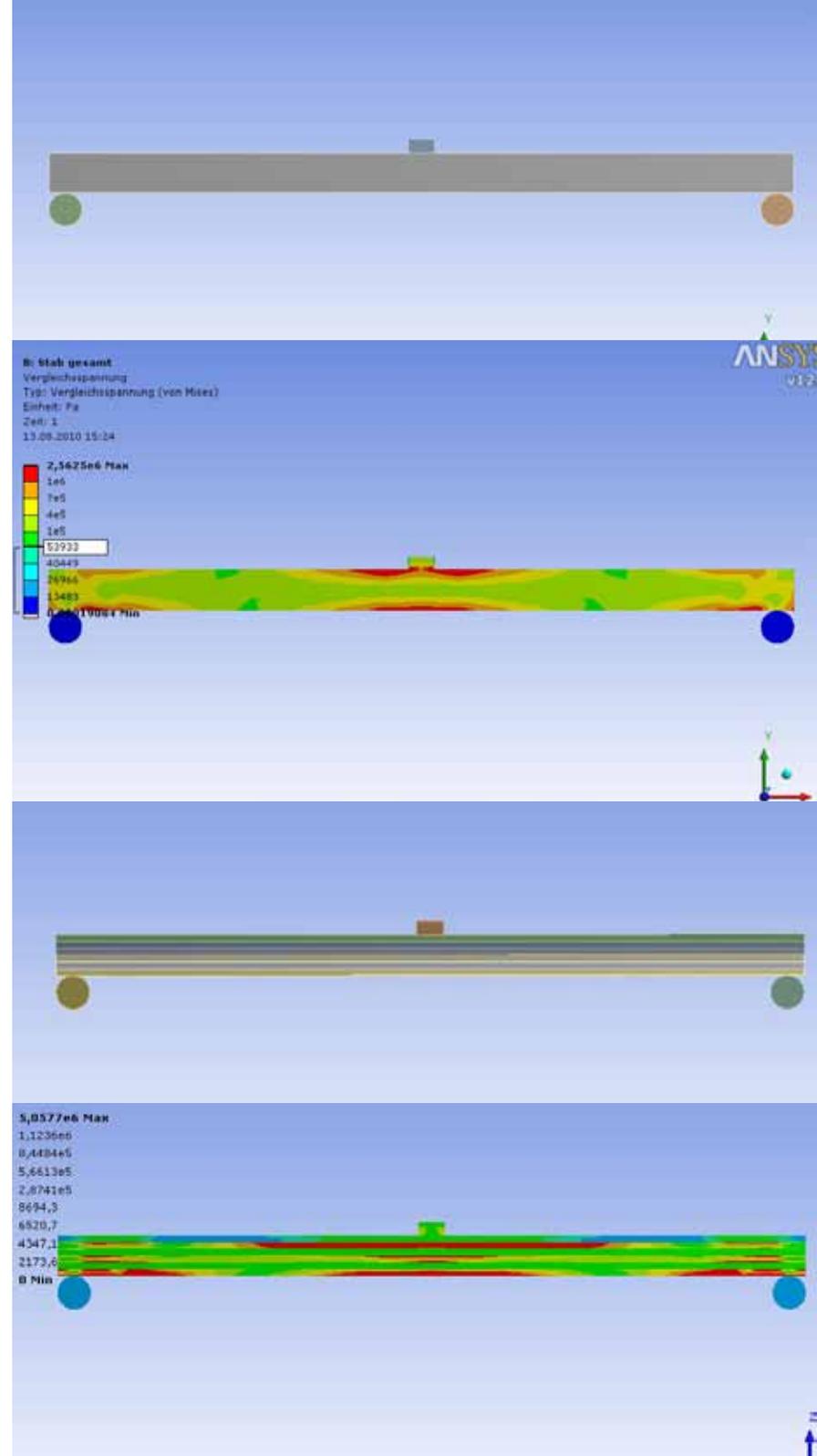
Materialeigenschaften

Isotropes Material

Composite Materialien

Schichten

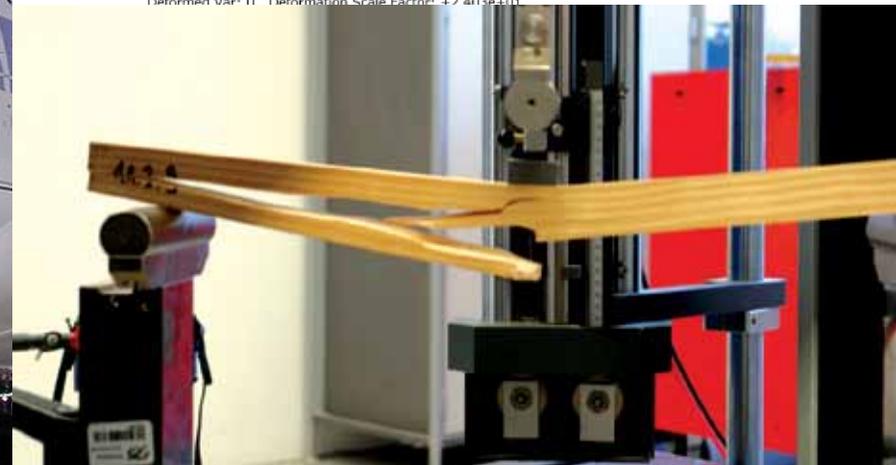
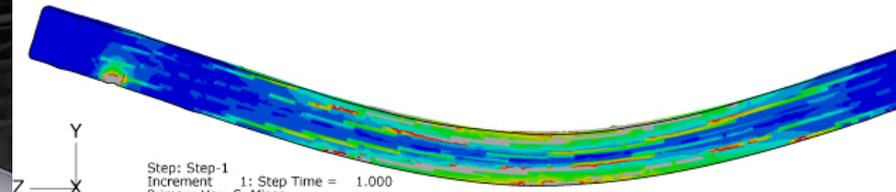
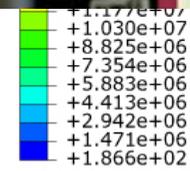
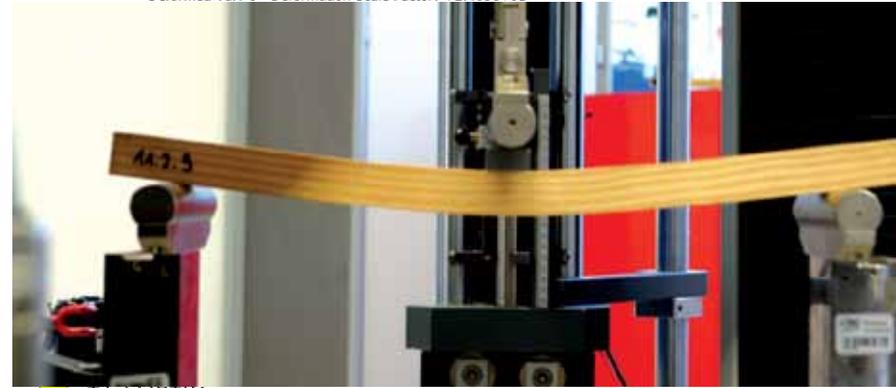
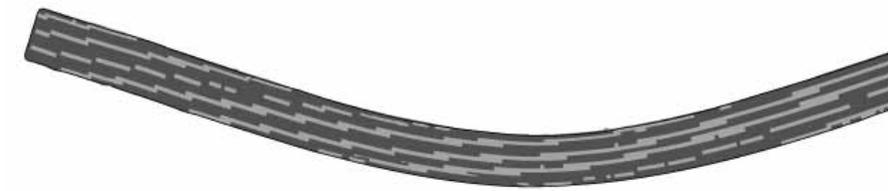
Funktionen



Materialeigenschaften

Festigkeit

Leichtbau



DOKA

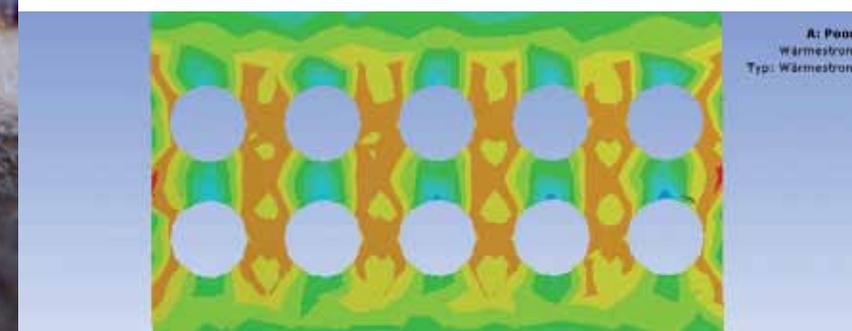
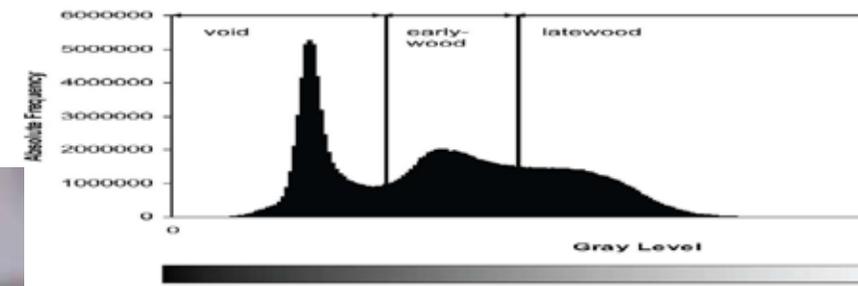
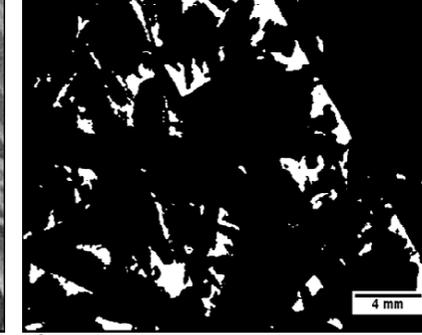
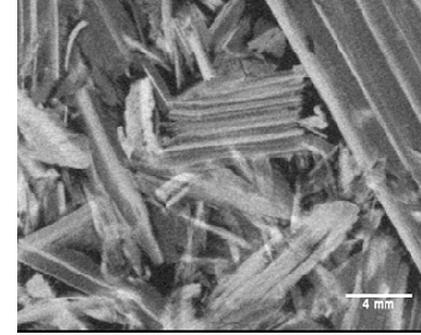
AIRBUS

Werkstoffe - Technologien

Eigenschaften

Herstellung

Biorefinery



Pavatex

Beispiele

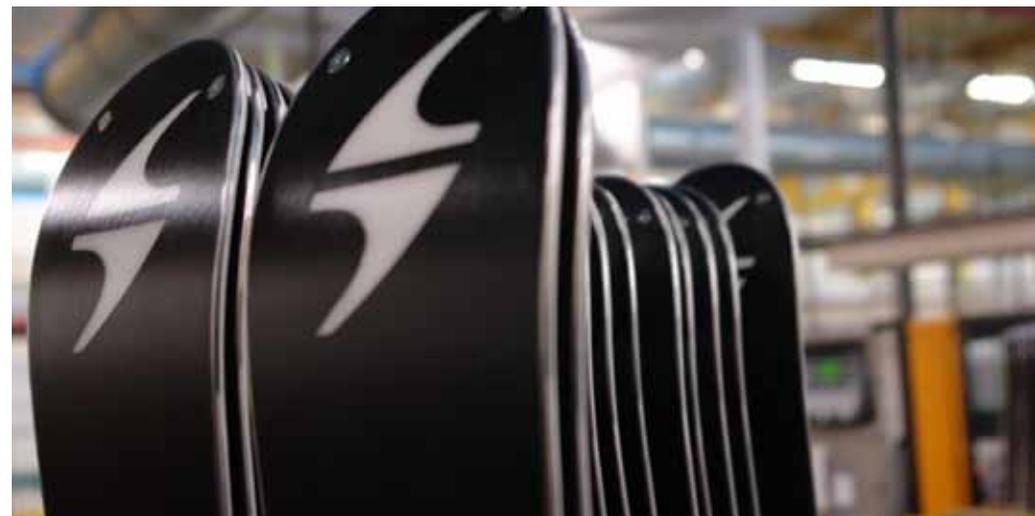
Holz - Leder

Holzschweißen

Schikerne

Rinde

...





Tragwerk

II International Architectural Workshop 2010

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Building with Sustainable Resources

Kammer der Architekten und Ingenieur-Ingenieurinnen



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Stoffliche Ressourcen

Energetische Ressourcen

Human Ressourcen