Opportunities for US Hardwoods

Eva Haviarova
Purdue University, IN, USA
Henry Quesada
Virginia Tech, VA, USA
John Brown
Pike Lumber Company, IN, USA

AMERICAN HARDWOODS

- Healthy, non-toxic, and low-impact material
- Material of high quality and durability
- Non threaten and certified sustainable resource
- U.S. has wide variety of hardwood species
- Great volumes are available
- Consistency in quality is secured by grading

Spurce: AHAC and John Brown, Pike Lumber Co. IN

U.S. Hardwood Species

Commercially Available

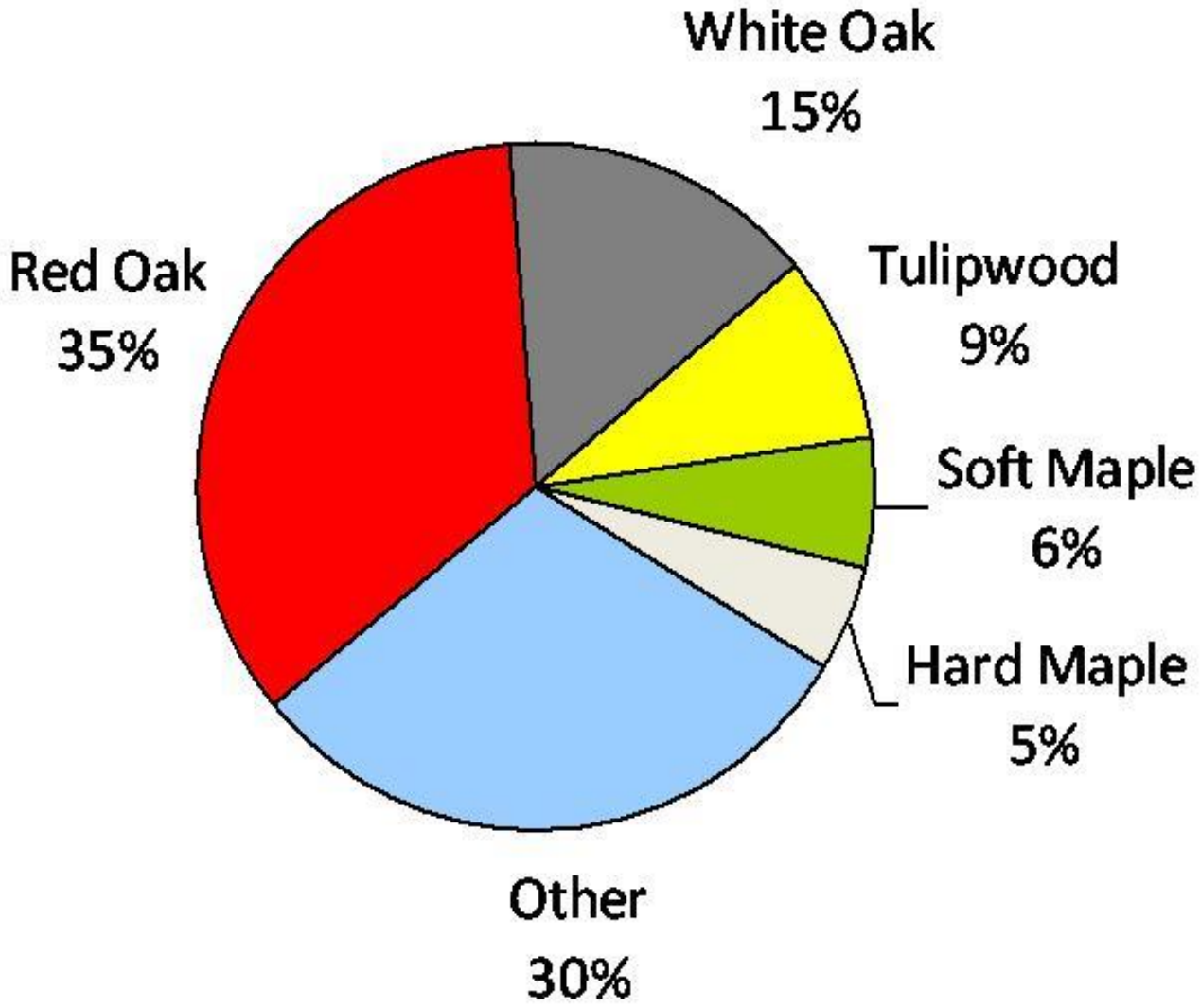
- Alder
- Ash
- Basswood
- Birch
- Beech
- Cherry
- Cottonwood
- Hickory
- Soft & Hard Maple
- Red & White Oak
- Yellow Poplar
- Walnut

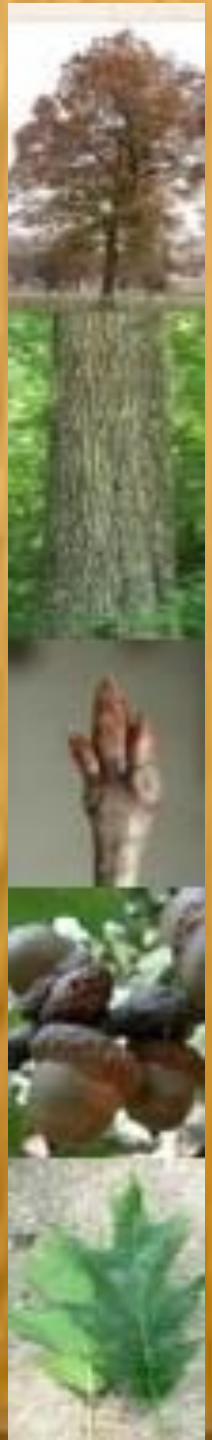
Lesser Known

- Red Elm
- Grey Elm
- Sassafras
- Butternut
- Coffeenut
- Sycamore
- Hackberry

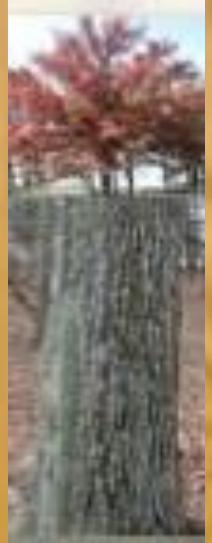
Source: John Brown, Pike Lumber Co. IN

Species Profile of the U.S. Hardwood Forest

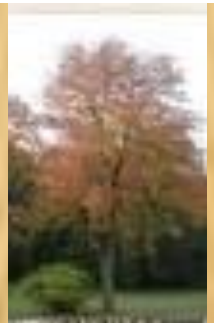


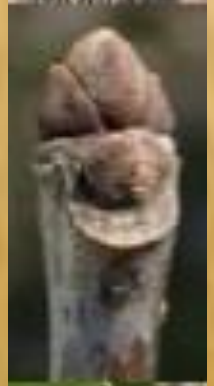


Red Oak *(Quecus spp.)*

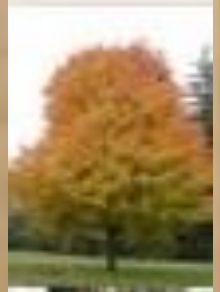
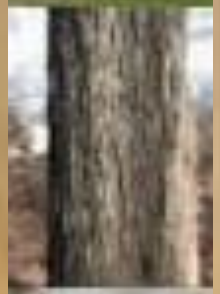
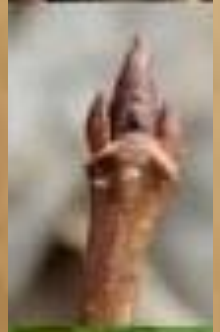
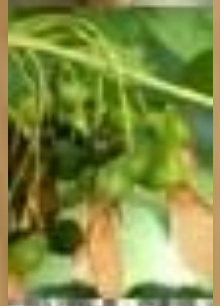


White Oak *(Quecus spp.)*

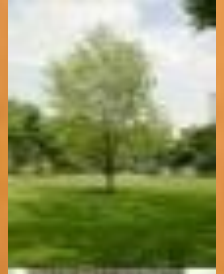
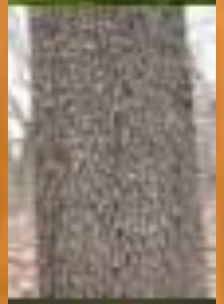




White Ash *(Fraxinus spp.)*

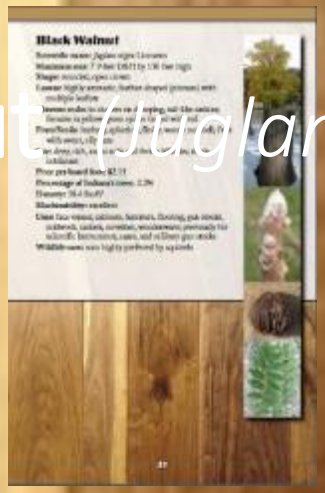





Hard Maple *(Acer sacharum)*

Black cherry *(Prunus serotine)*

Black Walnut (*Juglans nigra*)



Drivers for Increase Use of Wood

- **Environmental performance**
- Technological innovation
- Fashion

Source: AHEC, Mike Snow

American Hardwoods

Renewable and Sustainably Managed Resource

- Volume of wood standing in US forests increased by 610 million m^3 per year between 2000 and 2010 according to FAO Forest Resource
- In Midwest, hardwood forest growth is 3.5 times higher than removal.

Source: FAO Forest Resource, IDNR

Demonstrating Environmental Performance

50% of consumers confused by green claims led to a reluctance to buy "green" products

Focus on Environmental Life Cycle Assessment (LCA) - science based & transparent environmental indicator

Ground - breaking LCA research on US hardwoods

LCA data and EPDs are available

Source: AHEC, Mike Snow

Examples of American Hardwoods Around the World

By Michael Snow

Executive Director

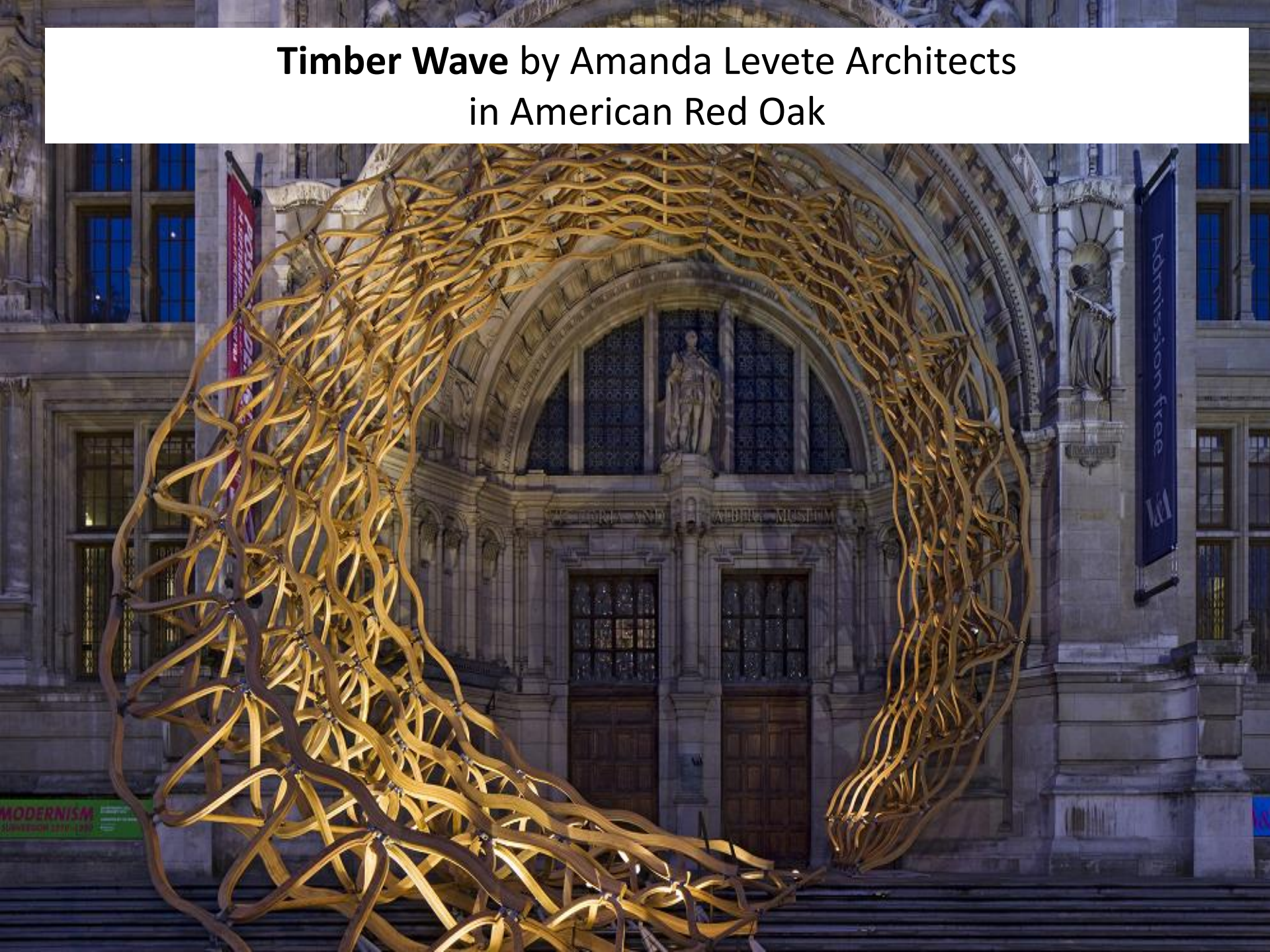
American Hardwood Export Council

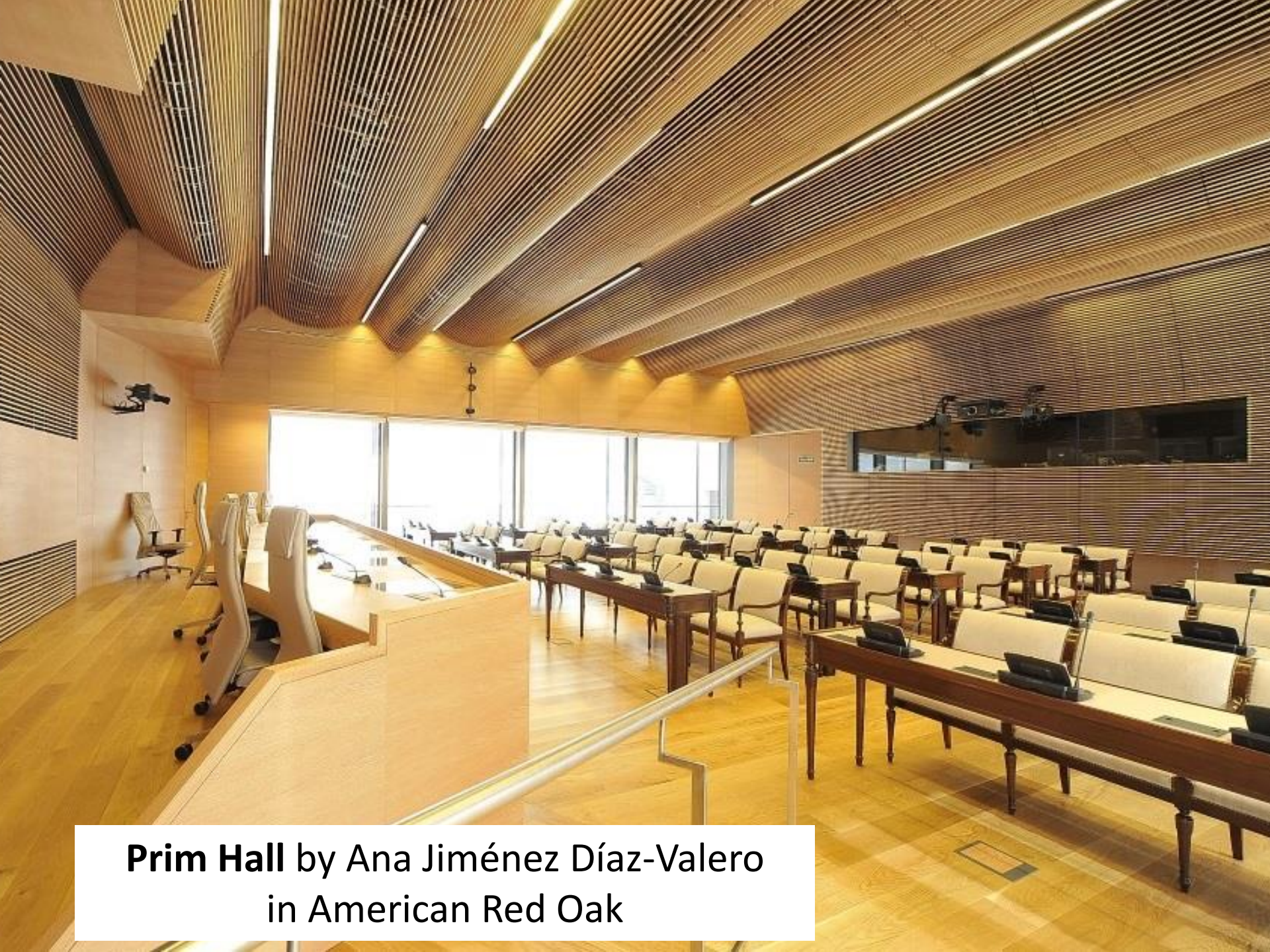
www.americanhardwood.org

London - Endless Stair by RMM Architects in American Tulipwood

14.5 tonnes of CO_2 was stored in the structure which is actually greater than the 13.1 tonnes of carbon emissions required to manufacture, deliver and assemble the whole structure

Timber Wave by Amanda Levete Architects
in American Red Oak



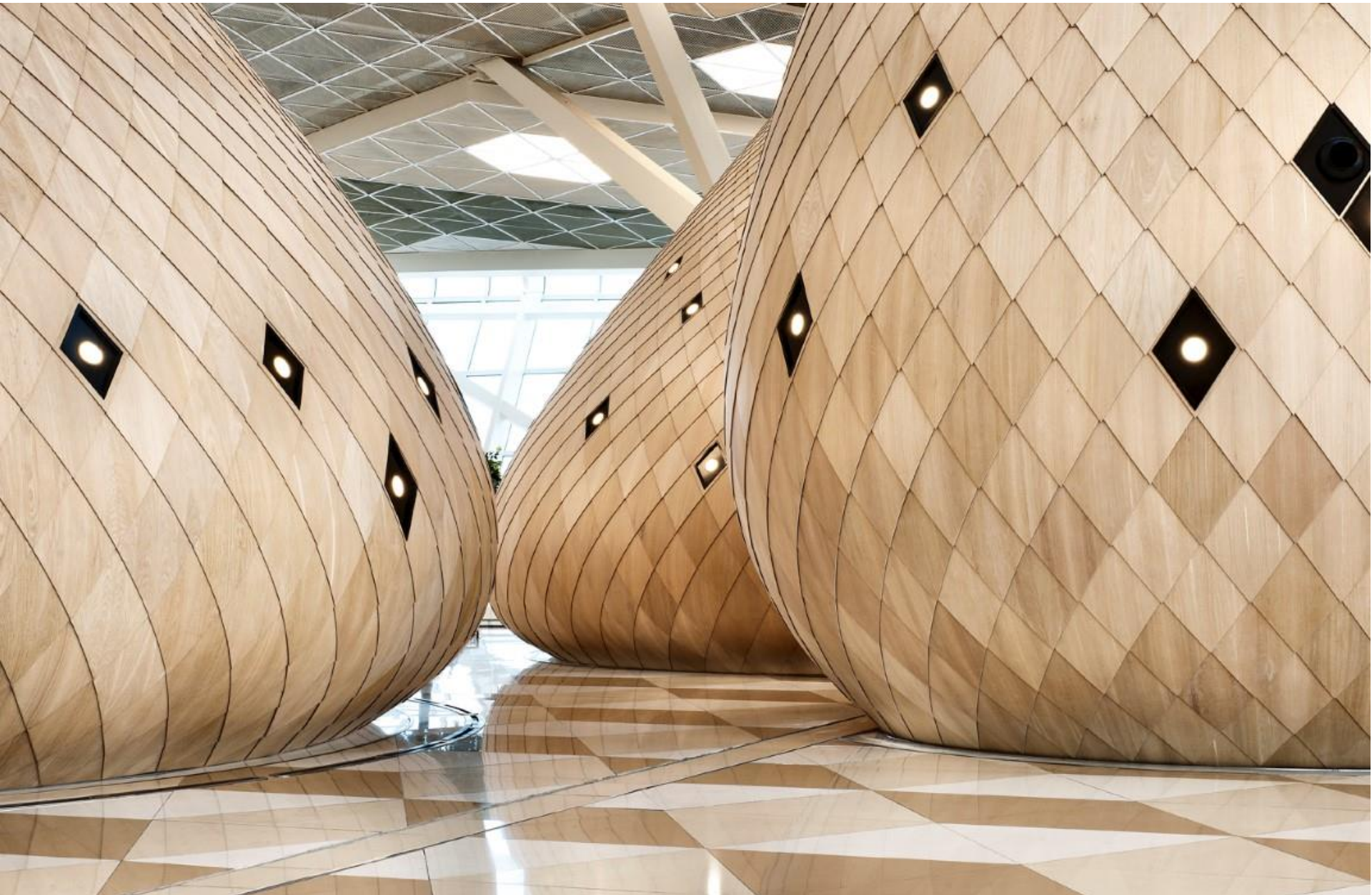


Prim Hall by Ana Jiménez Díaz-Valero
in American Red Oak

Azerbaijan Cultural Center by Zaha Hadid in American White Oak

Mechelen Museum by DMVA Architects and HLCR Architects
in American White Oak

Heydar Aliyev International Airport in Azerbaijan
by Autoban Studioin American White Oak



Heydar Aliyev International Airport in Azerbaijan
by Autoban Studioin American white oak

Rome Auditorium by Renzo Piano in American Black Cherry

nerican Tulipwood Window

Worth Abbey, UK by Heatherwick Studio in American Walnut

American Hard Maple

American Red Alder

AMERICAN HARDWOOD EXPORT COUNCIL