UPM FORMI BIO-COMPOSITES
SUSTAINABILITY MEETS PERFORMANCE

UPM Biocomposites
• who we are

UPM Formi SP/HP
• enhancing sound performance, reducing noise

UPM Formi EcoAce
• sustainable design based on almost 100% renewable resources

UPM Formi 3D
• outperforming traditional designing with wood like materials

UPM Formi FibCo
• high performance concentrate enabling the access to sustainable growth
UPM Formi SP/HP - Abstract
enhancing sound performance, reducing noise

- UPM Formi loud speaker enclosures
- compared with traditional plastic materials
- compared with MDF materials

Specific Modulus up to 100 % higher
Dynamic Loss up to 300 % higher
Natural Frequencies up to 35 % higher
WiFi Signal Strength up to 100 % higher
Total Cost up to 80 % reduction
UPM Formi 3D - Abstract
outperforming traditional designing with wood like materials

3D printed casting mould

Advantages compared to CNC milling:
- Faster lead time
- Scrap rate close to zero
- 35% weight reduction
- Some complex shapes not even possible by CNC milling
- Good water resistance due to coated fibres
- Cost savings total of ~40%
- Structures can be combined with Plywood Structures