The commercialisation of wood acetylation and the market challenges involved

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Corporate Background

- Titan Wood Limited was formed on April 17th 2003 by Accsys Technologies PLC.
- From 2003 – 2006 technology development and design of a large scale production plant.
- 2006 – 2007 construction of the plant.
- 2007 production commenced.
- This is the world’s first plant producing acetylated wood on large scale at a commercially viable cost.
Acetylation process
Time frame for commercialisation

Design: 04/06
Build: 03/07
Operate: 04/08
Introduction: 10/03
Path to success

- Certification of process
- Certification of product

No European standard for wood modification!
Acetylation is ‘new in the industry’
Example; durability
Quality assured
Durability

- 1800 samples in EN 113
- Low up to high acetyl
- What acetyl % is needed to reach durability class 1 with most aggressive fungi
- Same for ENV 807
Resistentie klasse 1

![Graph showing the relationship between acetyl content and x-value for different fungi species.](image-url)
Resistentie klasse 1

![Graph showing the relationship between acetyl content and x-value for ACCOYA wood.](image-url)
Accoya™ – meranti (red)
UV stability
Path to success

- Have small core group of customers
- Involvement of branche related companies such as coating and glue producers
- Run testprograms upfront commercial stage
- Work together to optimize end-quality
- Guidance and support
- Monitor building sides
- Evaluate projects with the parties involved
Windows

Helwig, Geleen
Cladding
Constructions
Machining, Gluing, Fabricating
Acetylation plant
Projects
Projects
Projects
Projects
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Projects

- Follow projects
- Monitor them during building period
- Have evaluation sessions with all parties involved
- Work consistently to improve end-quality
Projects
Projects
Thank you for your attention