


Description of innovation

Innovation	
Title	Aggerbogen
Picture	
Domain	Construction
Source of wood	Stemwood
Location	DE-53797 Lohmar, Germany
Implementers	Construction: Ingenieurbüro Miebach, Lohmar Structural Calculation: Schaffitzel Holzindustrie GmbH + Co. KG
Actual status	Closed
Approach	<p>This project was one of the longest wooden bridges of this type in Germany that supports heavy vehicle traffic:</p> <ul style="list-style-type: none"> • Approach bridges are made of spruce glulam (laminated) in form of timber-concrete composite • Construction creates a large shore area that ensures a rapid drainage in case of floods • The arch beams made of glulam fit in the natural environment
Main results	<ul style="list-style-type: none"> • Innovative solutions for constructive wood protection • The arch bridge is laterally covered with larch. The upper side is covered with a titanium zinc sheet. • Concepts for the subsequent use of the wood for the bridge within the framework of cascade use of wood were established
Lessons learned	Wood is a suitable material also for big and long bridges in combination with other materials and with profound wood protection.
Contact information	DE-53797 Lohmar
Link to website	https://www.schaffitzel.de/unternehmen/aktuell/207-auszeichnung-holz-proklima

	<p>https://www.competitionline.com/en/projects/56412</p> <p>https://www.ib-miebach.de/de/projekte/holzbruecken/holz-bogenbruecke/holz-bogenbruecke-hoengesberg.html</p>
Code	IN_DE_07

Innovation assessment

Region	Germany
Time scale	2014
Mobilization Potential	No potential
Kind of wood concerned	Stemwood
Sustainability Potential	Positive
Impact on environment & biodiversity	Positive especially in comparison with high energy consuming materials like steel
Ease of implementation	Difficult
Economic impact	High
Job effect	High – as this prestige project will increase further wood building projects
Income effect	Positive
Specific knowledge needed	High
Costs of implementation	More than 1 Mio. € investment
Technical readiness level	Applicable
Key information for adoption	Complex project with high standards regarding static and wood building skills