

HORIZON
2020

Wooden structured telecommunications tower for the complete mobile network coverage

Berichterstattung

Projektinformationen

Wooden Tower

ID Finanzhilfvereinbarung: 876897

[Projektwebsite](#) 

DOI

[10.3030/876897](#) 

Projekt abgeschlossen

EK-Unterschriftsdatum

11 Juli 2019

Startdatum

1 August 2019

Enddatum

31 Januar 2020

Finanziert unter

INDUSTRIAL LEADERSHIP - Innovation In SMEs

Gesamtkosten

€ 71 429,00

EU-Beitrag

€ 50 000,00

Koordiniert durch

ECOTELLIGENT OY



Finland

Periodic Reporting for period 1 - Wooden Tower (Wooden structured telecommunications tower for the complete mobile network coverage)

Berichtszeitraum: 2019-08-01 bis 2020-01-31

[Zusammenfassung vom Kontext und den Gesamtzielen des Projekts](#)



1. PUBLISHABLE SUMMARY

Wireless communication has become a natural and indispensable part of everyday life. The mode of transmission however, remains invisible to the human eye and the only manifestation of it can be found in the growing number of telecommunication towers, GBTs (ground based towers) and the transmitting and receiving antennas. Several thousands of new telecommunications towers are needed each year and these numbers are increasing because of the rapid development of telecommunication technology. With the increasing demand and amount of the carrier infrastructures, telecommunication towers, environmental and aesthetical aspects have become an issue.

Ecotelligent Ltd. has lately introduced to the market a small carbon footprint telecom tower as an alternative for the above-mentioned challenges. The company carries on developing the product further based on the customers' experiences to provide an even more environmentally conscious product and service.

Arbeit, die ab Beginn des Projekts bis zum Ende des durch den Bericht erfassten Berichtszeitraums geleistet wurde, und die wichtigsten bis dahin erzielten Ergebnisse

The wooden structured telecommunication tower is a low carbon, free-standing support structure for mobile antenna and device technology, an alternative for ground based telecommunication towers (GBTs) and smart poles made of steel, metal and composites. It challenges the regular steel structures without compromising strength and resistance. The tower structure and the strength of the construction materials exceed the requirements of the Eurocode 3 standard EN 1993-3-1. The first 30 and 40 meter high prototypes are in Hungary, used by Magyar Telekom for the 3G and 4G mobile technologies.

The company applied for SME funding to gather information and strengthen its knowledge about the present and future demands of the telecom infrastructure sector. The aim of this project was to introduce the wooden structured telecom tower to the European market and gather the first impression of the market players and potential clients in Germany, Italy and UK.

Fortschritte, die über den aktuellen Stand der Technik hinausgehen und voraussichtliche potenzielle Auswirkungen (einschließlich der bis dato erzielten sozioökonomischen Auswirkungen und weiter gefassten gesellschaftlichen Auswirkungen des Projekts)

The study carried out in 6 month shows the clear opportunities for Ecotelligent's solutions in the European market; there is strong interest towards low carbon and visibly more appealing alternatives in the city centers and residential areas.



Ecopol wooden structured telecom tower

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Permalink: <https://cordis.europa.eu/project/id/876897/reporting/de>

European Union, 2025