

# Wood&Tower solution



RADIO FREQUENCY SYSTEMS  
The Clear Choice®





## Current situation

### The difficulty of deploying new sites

- Site densification is required
- Neighbourhood & local communities often oppose new site erection
- Existing tower solutions at best only address visual acceptance
- There is nothing to gain for the local ecosystem (apart from the radio coverage)

**How to accelerate new site acceptance ?**

## An innovative solution

# A sustainable development approach can help !

- **Eco-friendly**
  - **Positive CO2 footprint** (vs steel prod & galvanisation)
  - **Wood is produced locally anywhere** (lower shipment CO2)
  - **Easily recycled**
- **Economy**
  - **Local ecosystem involves in material supply** (wood industry)
- **Visual impact**
  - **Wood improves site aesthetics**

**Creating conditions for better acceptance**

## Wood&Tower description

### Specifications

- Leg members in wood
- Heights : 20m, 25m, 30m
- Windload : up to 13m<sup>2</sup>
- Wind speed up to 160km/h
- Designed with Eurocodes
- Polyester/glass fiber radome





## Wood&Tower description

### Options

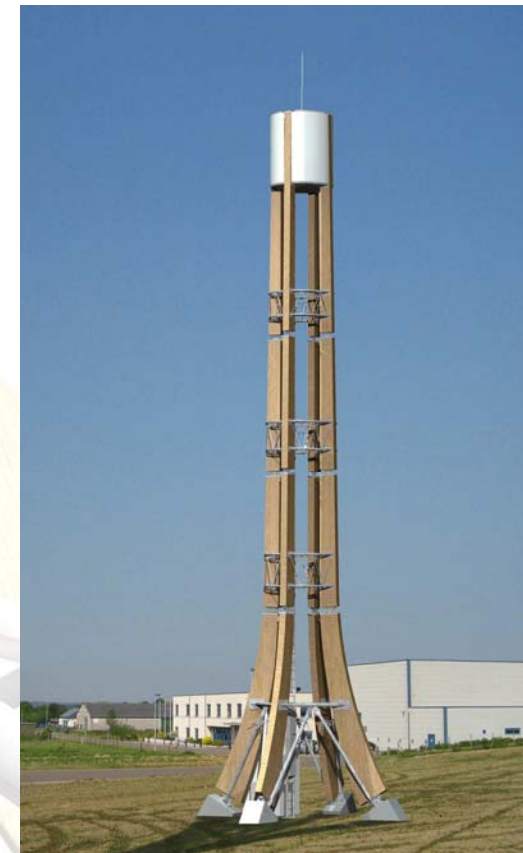
- Fitting of any standard accessories (platform, anti climbing system, ...)
- Possibility for radome customisation
- Possibility for site sharing with installation of an additional radome
- Modular design for any replacement or strengthening of tower parts



## Maintenance

### No specific maintenance nor treatment

- **Wooden structure service class 3  
outer ventilated**
- **Resistant to woodboring insects**



# Patent and validation

## Current status

- Patent application filed (0957095)
- Beams validation acquired

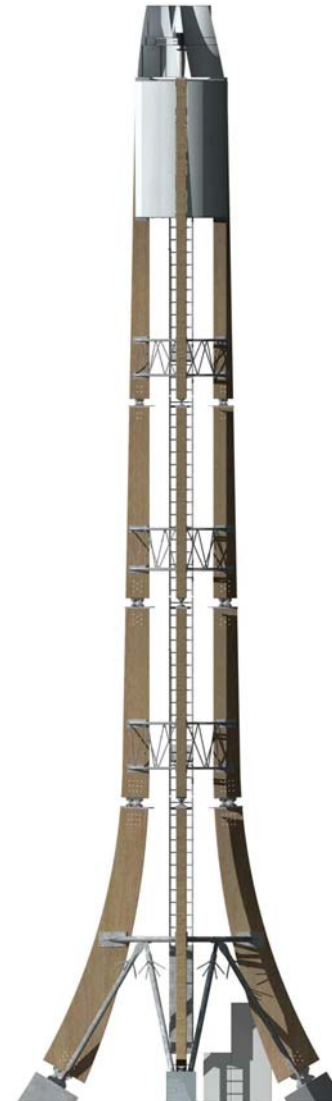




## Wind power alternative

### Wind turbines & radomes

- 3kW vertical-axis wind turbine at tower top with antenna radome
- 3kW vertical-axis wind turbine and 3 x intermediate 1.5kW wind turbines without radome





## Key features

Innovative wood based tower concepts can facilitate new site deployments in mature markets due to :

- **Eco-friendliness**
  - Wood
  - Wind turbines
  - Aesthetics
- **Positive impact on local economical & social ecosystem**
  - Local wood production

