Welcome
Bamboo shoot

- Awakening
- Young
- Strong
- Full with potential
- Beautifull
- Geometric
- Durable
BeBamboo: ecologic new company.
Concept

- Bamboo is being used as a structural element for geometric architecture.
- We use steel joints as node points to join the bamboo struts together.
- We like to finish/cover our constructions with natural materials.
Bamboo

Negative aspects for building with bamboo in Europe:
• As we need to import bamboo > Transport impact & cost.
• Deviation on the strut diameter > difficult to apply standard processes for production.
• Susceptibility to air-humidity > cracking of the strut when A.H. < 20%
• Lack of knowledge & support for bamboo construction in Europe.
Bamboo

Positive aspects for building with bamboo in Europe:

• As architects and builders, we have a pioneer function.
• Bamboo is durable and ecologic.
• Bamboo is light and strong.
• There is potential for growing bamboo in Europe.
Maximize durability

• We seek modular solutions > ex. : the geodesic dome and the space frame.
• We want to build our domes and future constructions according to the Cradle-to-Cradle principle (C2C).
• We need to optimize our use of resources such as materials and time in bamboo construction processes.
Modular

• BeBamboo domes have a modular set-up.
• Structural elements which are damaged can be easily replaced.
• We need to develop a modular connection system so we can couple our domes.
• Modularity is a big advantage for pre-fabrication.
Performance

- Geodesic domes create a certain volume with a minimum use of skin surface compared with traditional building methods.
- Buckminster Fuller domes are amongst the most earthquake and storm resistant structures known.
- In co-operation with KAHO Sint-Lieven we conduct tension and compression tests on our bamboo and our connections. Engineers from UTIL are making stability reports for our domes and constructions.
Feeling

- The use of bamboo, wood, steel and canvas has a big esthetic potential.
- To dwell in a round habitat can give us a good feeling.
- As we try not to use toxic chemical materials this can be benificial for both body and mind.
Economical

• BeBamboo is prepared to shop locally for the purchase of the necessary materials needed for our construction purposes.
• Is European bamboo for the use of construction possible?
• Bamboo construction in Europe needs funding and moral support from the government, architects and building companies alike.
BeBamboo Products

- Bamboo domes heavy duty > cultural and business events.
- Bamboo domes light-version > recreational use (BeBamboo Diamond Dome)
- Bamboo construction projects in architecture > e.g. Dome habitat.
- Bamboo domes as shelter for disaster prone areas.
- BeBamboo special projects > ex: bamboo space frame, bamboo tunnel, bamboo truss, or any of your projects.
Our katalyst: Johan Gielis from Genicap & Ikebana. Picture taken at the bamboo testfield here in Merksplas.
Tourist Info Point, St-Privat de Champclos, South France.
Concept by Architect Jean-François Daurès,
Archivision & Greenwall.
Tourist Info Point, St-Privat de Champclos, South France. Concept by Architect Jean-François Daurès, Archivision & Greenwall.
TIP elements:
- concrete slab
- bamboo dome
- wooden sandwich panels with insulation
- EPDM roof & tunnel
- greenroof and “Pierres Sèches”

Tourist Info Point, St-Privat de Champclos, South France.
Concept by Architect Jean-François Daurès, Archivision & Greenwall.
BeBamboo Domes

Light domes: 4m / 5m / 6m
Heavy-duty domes: 6m / 8m / 10m / 14m
World Bamboo Day

16th - 18th of September 2011, Gent, Belgium
Summertime City

23rd – 25th of March 2011, Antwerp, Belgium
BeBamboo Diamond Dome

- Lightweight connector.
- One length of bamboo struts > based on penta- & hexagons.
- Quick setup time.
- Ergonomic design.
BeBamboo Diamond Dome

Work in progress...
BeBamboo Space Frame

In development > support for a horizontal green roof / 2 ton per m². To be implemented in CRU Architects’ C2C house (Gent, Belgium).
We need more vision

Luc Schuiten: Vegetal City
We would like to thank:

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Vo Throng Nghia : Vietnam
We thank you for attending WBC edition 9 - part II
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And always remember:
Be nice,
Be wise,
Be Bamboo.