

Project: „30 - foot tarpaulin container”

- Technology Transfer Facilitator: **Wolfgang Schabereiter**
- Company name: **Montanspeditions GmbH**
- Name of Transferinstitute: **Transsystems**

Description of the company:

Target sector: transport of goods in the bimodal traffic

Size of the company: 30 people

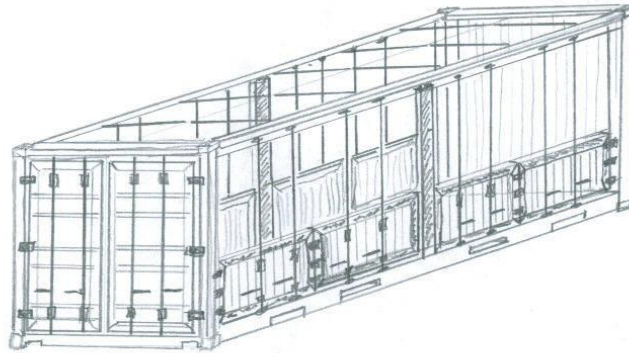
Location: Kapfenberg/Styria

Founded: 1973



Content of the Technology Transfer Project

development of a 30-foot tarpaulin container



Criteria for the container

- Weight saving - construction and material
- Functional design - flexibility

Weight saving - construction and material

The average weight of a multifunctional 30-foot container is between 3,800 - 4,500 kg - while about 75 % of the empty weight is allotted to the platform and frame structure and about 25 % on the cover (walls, doors, shutters and roofing).

The target weight for the new 30-foot-tarpaulin-container should not exceed 3,500 kg!

Weight saving - construction and material

- The factor of weight loss plays a major role!
- Less weight of transport means a more for transport capacity. Therefore the costs for transport increased significantly.
- Thus the savings for MONTAN SpeditionsgesmbH through weight reduction is for 100 kg 318.00 EUR - per container per year. The life of a 30-foot container is, dependent on several factors such as its area of operation, at about 10-15 years. This results in a whole, with only 100 kg weight reduction you save EUR 3,180.00 up to EUR 4,770.00 for a container lifetime. If you consider that more than 1,000 containers from MONTAN are currently in circulation, this is of course a huge economic advantage.

Functional design - flexibility

- The optimal loading and unloading of containers from the customer's perspective is an important decision criterion in the selection of the logistics partner.
- Flexibility here means that the best possible loading and unloading with common devices (such as fork lift) must be guaranteed.
- It is necessary to be able to load and unload the means of transport on several points (from the side, from behind, from above).



30-foot tarpaulin container



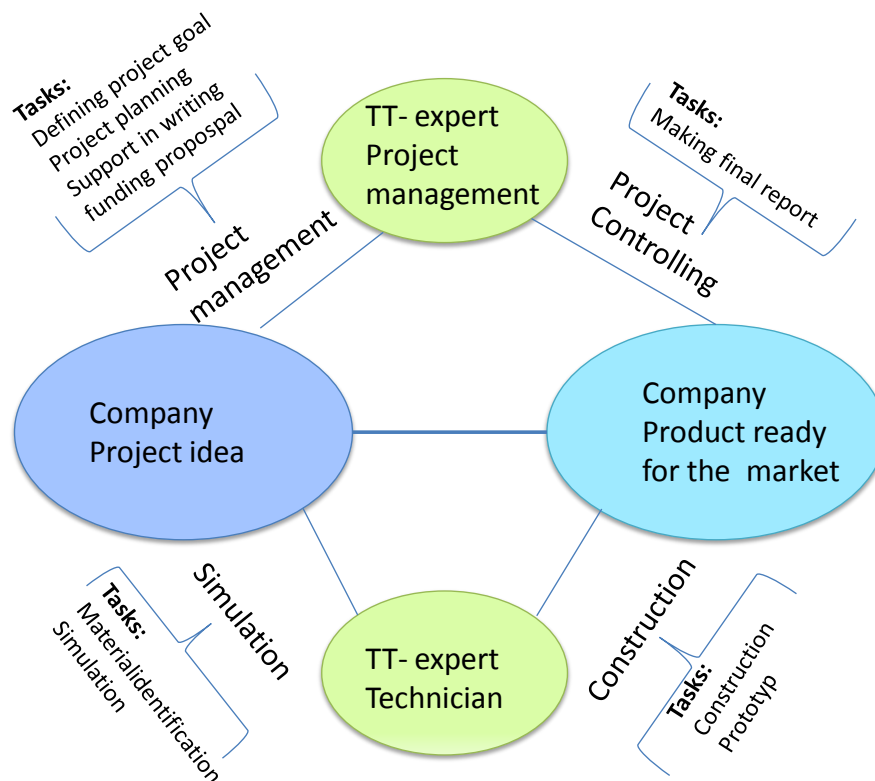
Container, d.o.o.
Bežigrajska cesta 6
3000 Celje
Slovenija

Customer benefits

The greatest benefit for customers is primarily the design of the 30-foot tarpaulin-container. Through flexible and ample loading and unloading potential of that type of container there are *easier logistics processes for customers* than before, which also brings an enormous time saver.

Further benefit for customers is on the *economic level*. Because of the flexibility unloaded drives can largely be prevented, resulting in a significantly more attractive prices for customers.

Technology Transfer Project



Technology Transfer Project-simulation



Simulation is especially well in the product development process a brilliant way to carry out an efficient product.

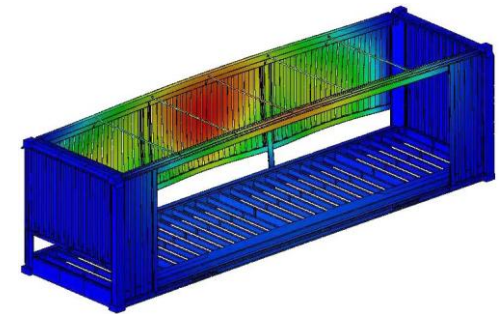


Benefits are:

- Better visualization for developers and customers
- Review of product functionality already during development
- Flexible product development through simple change management and easy variant calculations
- Reduction of product defects and recalls, unintended interactions between components can be early detected
- Shorter development time, more cost-effective, high quality weight optimization
- consideration of components of high complexity in total system

Cost savings via simulations

- time for development: ca. - 25%
- costs for development: ca. - 30%
- prototype quantity: ca. - 70%



Technology Transfer Project- project management



- Writing proposal in the frame of the „Geistes!Blitz“ program of the SFG
- in order to do that planning of the project (time frame, working packages- not costs)
- Supporting the company in the contracting phase
- Supporting the company in making the reports



Thank you for your attention!

Wolfgang Schabereiter



<http://www.brainplus.at>

wolfgang.schabereiter@brainplus.at

00 43 3862 / 21948-0

