

## Innovation Market

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### ***Low-cost decorative concrete technologies for production of cultured stones, slabs, stone veneers, fences, tiles and other concrete products***

A Czech SME proposes decorative technologies for building industry based on wet cast concrete manufacturing, which allows practical application in a very short time. The company seeks new licensees in selected countries for licensing and commercial agreement with technical assistance.

A Czech company proposes decorative technologies for building industry based on precast and wet cast concrete.

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### ***The German SME produces innovative clay boards, the clay-based panes as well as clay elements with heating and cooling features that opens new perspectives of modern temperature regulation. The technology can be applied for passive houses, low-energy houses as well as wood house constructions.***

The clay boards can be used for the complete finishes, comparable to the use of plaster boards. With their 14mm thickness, the clay boards will be attached to hard grounds, like concrete, lime sand brick or brick walls, even wood or chip boards. The clay boards with 22mm thickness will be screwed together with the dry sub-construction

With its innovative unique climate board, the company developed an energy concept, which provides a new kind of temperature management by combining clay-cooling elements with clay-heating-elements made of carbon (patent applied). Advantages:

- humidity regulating, no moulds
- noise control
- heat storage capability
- steam permeable
- clay is reversible and is re-useable at any time without losing its features

### Freedom of Movement

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### ***UNILEVEL - A universal stabilizing and leveling system***

**A Belgian SME has developed a universal stabilizing and leveling system. The technology that is conceived as an enclosed hydraulic system is based on a unique control valve. It can be applied for stabilizing any type of construction, from trestles over scaffoldings up to container offices, offering assembly time reduction and safety. The company is looking for partners to further develop and benchmark the technology in a range of applications and products.**

The technology presented is conceived as a closed hydraulic system that is manually operated without any electrical aid or pump.

The key-feature of the technology is a central control valve that enables the hydraulic fluid to communicate with a virtual unlimited amount of stabilizers (legs) within the system. These control valves are used to put the construction into position and lock the construction in a stable position.

In general, the leveling system applies to any construction which is designed to stand in a horizontal or other stable position via at least three feet on an uneven underground.

The system is equipped with a safety feature that prevents the construction to collapse/fall over when overloaded or in case of a hose rupture.

## FOS&S

Fibre Optic Sensors and  
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## *Fast and easy to install fibre optic strain gages*

A Belgian SME has developed a fibre optic strain gage based on Fibre Bragg Grating (FBG) technology. The fiber sensor exhibits high strength and has an ideal coating for transferring strain to the fiber. A specially developed methodology ensures fast, easy and reproducible installation. The SME is looking for a commercial partner to bring this technology to the market. Fibre optic sensors offer advantages like immunity to EM-radiation, applicable in explosive environments, under water etc.

The Belgium (Flanders) based SME developed a FO strain gage that can be installed fast and easy and its performance was characterized in detail. Compared to electrical strain gages similar or even superior sensing properties were found. The FO strain sensors will be available in combination with an installation kit, which contains all the necessary tools for proper installation.

Installation of the sensor happens by means of a specially developed methodology which makes use of a mounting tool called a 'sensor pad' and an UVcurable adhesive. The installation method is fast, easy and reproducible.

## Renson Ventilation NV

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## *RENSON Innovation in Ventilation*

INVISIVENT - <http://www.renson.eu/invisivent>

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## Microtherm

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## MICROTHERM

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