



Project Information Sheet

Market uptake of an automated technology for reusing old bricks (REBRICK)

Programme area:	First Application and Market Replication Projects
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Partners:	Scan Vibro A/S, Denmark D'Appolonia S.p.A., Italy BauArte GmbH (Das NaturHaus)
Website:	www.gamlemursten.dk
Benefits:	The ability to automatically clean bricks towards reuse will have a major environmental impact through reduced CO ₂ emissions and reduction of waste.
Keywords:	Automated technology, bricks cleaning, reuse
Sector:	Recycling, Buildings, Green Business
Type of solution	Technology, process and product
Duration:	01/08/2011 – 01/07/2014
Budget:	€ 1 465 868 EUR (EU contribution: € 713 140/48,65%)
Contract number:	ECO/10/ 277267/SI2.597699

Summary

Nowadays, building demolition waste, including cement, mortar and bricks, is either land filled or crushed and recycled as aggregate material for low-grade applications such as sub-base and road construction – despite the fact that bricks can easily last for several centuries.

The REBRICK project aims to create the first market uptake of a technology, which enables a paradigm change within demolition waste handling and recycling in Europe. The technology, which was designed and patented by the Danish company Gamle Mursten, consists of a mechanical system that automatically cleans concrete and cement from old bricks. Bricks can hence be reused for construction activities with a cradle to cradle approach, rather than being devalued and used within mixed aggregates.

Expected and/or achieved results

Besides enabling a significant reduction of demolition waste volumes, as the production of new bricks is very energy and resource intensive, the ability to recycle bricks will have a major environmental impact through reduced CO₂ emissions. Each reused brick will save 0.5 kg of CO₂ emissions compared to building with new bricks.

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