

# NaHiTAs: STRABAG shows innovative way out of the diesel dilemma

## Facts & Figures

STRABAG UNIT:  
TPA GmbH

RESEARCH PROJECT:  
"Sustainable High-Tech Asphalt (NaHiTAs): Reducing noise and air pollutants through custom processing and monitoring"

PROJECT PARTNERS:  
Technical University of Berlin, Building Materials and Construction Chemistry  
Cologne University of Applied Sciences, Agricultural Engineering  
University of Kassel, Construction and Maintenance of Transport Routes/  
Chemistry of Mesoscopic Systems  
F. C. Nüdling Betonelemente GmbH + Co. KG  
Asphalta Prüf- und Forschungslaboratorium GmbH  
Ingenieurbüro Lohmeyer GmbH und Co. KG  
Müller-BBM GmbH  
Bomag GmbH  
MOBA Mobile Automation AG

PROJECT SCHEDULE:  
7/15–12/18

FUNDED BY:  
Federal Ministry of Education and Research (BMBF)

## Contact

STRABAG AG  
Birgit Kümmel  
Corporate Communications  
Tel. +49 221 824-2472  
[presse@strabag.com](mailto:presse@strabag.com)

- **TPA competence centre presents joint R&D project NaHiTAs at HighTechMatBau**
- **Sustainable high-tech asphalt to reduce air pollution and noise**
- **Solution for cities to bring down the rising nitrogen oxide concentration from diesel vehicles**

Berlin, 6 February 2018 STRABAG's TPA competence centre has presented an innovative solution that can help cities fight the negative impact of increased traffic volumes. The joint R&D project NaHiTAs (Nachhaltiger High-Tech Asphalt – Sustainable High-Tech Asphalt) was demonstrated at the Conference on New Materials in Construction (HighTechMatBau) in Berlin on 31 January 2018. The team from TPA, which is leading the research project, showed how photocatalytic granulate and a low-noise texture in the asphalt can sustainably lower the impact of air pollution and traffic noise. In view of a possible ban on diesel vehicles in the centre of German cities, the presentation of the initial results of the ongoing research project (7/2015–12/2018) met with a good response among the numerous experts in attendance at the Berlin Congress Center. "NaHiTAs can help to sustainably improve the quality of life in areas with frequently travelled transport routes in inner cities," explains Dr. Norbert Simmleit, TPA managing director for Germany, the Netherlands and Switzerland.

NaHiTAs, funded by the German Federal Ministry of Education and Research, is a joint research project between TPA and nine academic and industry partners to conduct research into the design of sustainable asphalt transport routes. An artificial photocatalytic aggregate containing titanium dioxide helps reduce the level of harmful nitrogen oxides (NOx) in the air and transform them into harmless nitrates. The innovative asphalt will also receive a low-noise texture to sustainably reduce the rolling noise from vehicle tyres. The actual asphalt works will be carried out using a newly developed mobile control system to optimise the quality of the road surface. "We have reached the point where we can begin to build trial sections with NaHiTAs," says TPA project manager Martin Muschalla. Talks with potential clients are already underway.

HighTechMatBau was organised by the project consortium WiTraBau (Wissenstransfer im Bauwesen – Knowledge Transfer in Construction). The focus of the conference was on new materials for urban infrastructures, the development of which should raise the quality of life in German cities – among other things by using them to tap innovation potential for multifunctional transport routes.

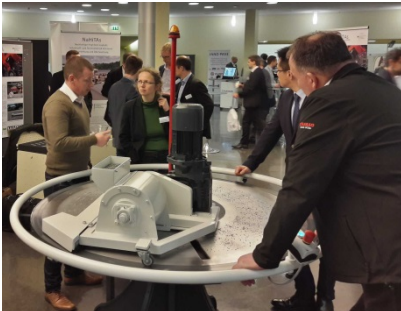
*The success story of Cologne-based **STRABAG AG** began in the year 1923. Today the company is part of Austrian-based STRABAG SE Group and market leader in the transportation infrastructures segment in Germany with an annual output volume of more than € 4 billion. The more than 11,500 employees show commitment every day to delivering first-rate construction services far beyond the usual road construction works. While focusing on the digitalisation of its work processes, STRABAG AG's units cover the entire value chain in the construction of infrastructure facilities: from digital design to construction material extraction and production to actual construction of the projects to maintenance and repair by the company's own road maintenance services. More information is available at [www.strabag.de](http://www.strabag.de).*

### Images



The titanium dioxide granulate is added to the top asphalt layer using the integrated spray assembly (in the back of the picture).

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TPA stand with NaHiTAs demonstrator during HighTechMatBau at the Berlin Congress Center.

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