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## **“Travolution” promotes eco-friendly driving**

- **Trend-setting concepts for traffic infrastructure**
- **Lower consumption, fewer emissions**
- **Biggest project of its kind in Germany**
- **Audi and its venture partners plan follow-on projects**

**Ingolstadt – A wave of “green” is washing over Ingolstadt: after two years of research, the “Travolution” team has developed a trend-setting concept to improve traffic infrastructure. Investment amounts to a total of about €1.2 million. AUDI AG and its venture partners presented the results today, with further joint pilot projects to follow.**

“Travolution blazes the trail for innovative traffic management of a magnitude unique in Germany. The result is a functioning prototype for the traffic control of the future,” said Dr. Werner Widuckel, Audi Board Member for Human Resources. Aside from Audi, participants include the city of Ingolstadt’s Office for Traffic Management and Geoinformation, the Professorial Chair for Traffic Engineering at the Technical University of Munich, and GEVAS software GmbH.

The system that was presented today is used at 46 traffic lights in the municipal area of Ingolstadt. In this process, software optimizes the entire network of traffic lights, significantly reducing the duration of stopping times for cars.



An additional part of the project is called “The informed driver.” For this, three traffic lights have been equipped with communications modules that send the time for the next green phase to the car’s on-board computer. Audi has made an Audi A5 and an A6 Avant available as test vehicles for this part of the project. The drivers of these cars are informed through the Audi MMI infotainment system at what speed they should travel in order to drive through the intersection without having to stop.

“The car thus becomes a component of the networked world,” said Michael Dick, Audi Board Member for Technical Development. “The successful completion of this project shows that Audi recognized early on what is needed to deal with developments in traffic, and has set a course for it.” Travolution optimizes the flow of traffic, which results in lower fuel consumption – and offers relief to local residents.

“Travolution is one more component of Audi’s commitment to the city of Ingolstadt. We’ve combined the competencies of our technical development staff and our venture partners in order to improve the infrastructure in the city,” said Dr. Widuckel. Dr. Alfred Lehmann, Mayor of Ingolstadt, concurred: “Ensuring mobility is a challenge for the city of Ingolstadt, and we’ve confronted it successfully with the Travolution project.”

Additional follow-on projects based on Travolution are to be initiated. The field for research in Ingolstadt is to be expanded by another 20 cars and 50 traffic light installations. In addition, up-to-the-minute traffic information for the city will keep drivers better informed.

The Travolution project is supported by the Bavarian Ministry of Economic Affairs as part of Bavaria’s “Information and Communications Technology” R&D program.



## **Remarks from the venture partners**

### **Prof. Dr.-Ing. Fritz Busch, Technical University of Munich, Professorial Chair for Traffic Technology:**

“The new approaches to modeling and optimization in the network-wide control of traffic lights, together with communication between traffic lights and intelligent cars, exploits a potential for improving traffic flows that has previously gone untapped. The evolutionary GALOP optimization method that was largely developed at the Technical University of Munich has significantly reduced stopping due to traffic lights, while also minimizing traffic-related pollution.”

### **Herwig Wulffius, Managing Director of GEVAS software:**

“GEVAS helped initiate the Travolution research project in order to promote traffic-adaptive network control in the urban infrastructure of the future. We also wanted to prove that evolutionary software techniques can significantly improve traffic quality for an entire city. We’ve achieved both objectives. As system integrator, GEVAS software was also responsible for expanding the new traffic computer. The results of Travolution bring traffic technology a step further in Germany, where the automotive industry is so important.”

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**Photos and further information are available at [www.audi-mediaservices.com/en](http://www.audi-mediaservices.com/en).**

AUDI AG sold a total of 964,151 cars in 2007 and thus achieved its twelfth consecutive record year. With revenue of €33,617 million and profit before tax of €2,915 million, the company attained its best figures ever. Audi produces vehicles in Ingolstadt and Neckarsulm (Germany), Győr (Hungary), Changchun (China) and Brussels (Belgium). At the end of 2007, production of the Audi A6 started in Aurangabad, India. The company is active in more than 100 markets worldwide. AUDI AG’s wholly owned subsidiaries include Lamborghini S.p.A. in Sant’Agata Bolognese, Italy, and quattro GmbH in Neckarsulm. Audi currently employs around 54,000 people worldwide, including 45,000 in Germany. The brand with the four rings invests more than €2 billion each year in order to sustain the company’s technological lead embodied in its “Vorsprung durch Technik” slogan. Audi plans to significantly increase the number of models in its portfolio by 2015, from the 26 currently on offer to 40.