

## AMAS R&D status: Work Package 1: market analysis and sensor specifications, Nov. 2nd, 2010

### Market analysis

The two main areas of interest, the hospital and food/beverage sectors have been analyzed and the finished report is on the AMAS-drive. This report contains description of usage and problem areas, potential products that can be coated, and challenges and development ideas. The report gives insight about the main sectors, and the WP-leaders who guide the direction of the development and the testing should read it. The main conclusion is, that many potential straight-forward applications exist in the hospital sector, whereas the food/beverage sector is more complicated but still interesting long term. This report concludes the bulk work of WP1.

It is important to identify field testing possibilities, and the following actions will be pursued:

- Hospital beds project with Rigshospitalet and the Danish Technological Institute



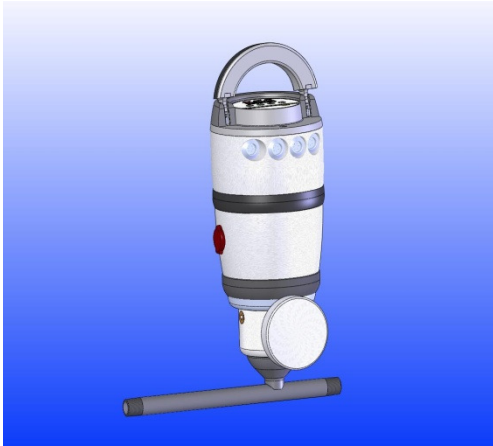
Hospital beds are one of the most exposed items at the hospitals. They are too large to be handled by any cleaning procedure. An AMAS solution with a UV-lamp browsing across the surface seems as a very promising way to conquer the challenge.

- Free TiO<sub>2</sub> samples will be promoted in the newsletters from HTF, AluCluster and the antimas.dk homepage (on the front page)
- Matchmaking and marketing via Enterprise Europe Network ([http://www.enterprise-europe-network.ec.europa.eu/index\\_en.htm](http://www.enterprise-europe-network.ec.europa.eu/index_en.htm))



## Specifications

The primary commercialization path of the project is the [sensor](#).



Specifications are nearly finished. Coating on the windows of the sensor cell has been initiated. Measurements regarding the absorbance of the coating have been made, and the result is, that a thickness between 20 nm and 100 nm is likely to be feasible. DTI will coat windows to be tested at PAJ. The sensor setup is planned to start measuring on oil in December. The market potential for the sensor depends on the achieved detection limit.

Main points in the plan ahead are the change to measure oil instead of heptane. Coating of windows and meeting at the Tribology Center regarding coating of sensor element.