

*The International Graduate School (IGS) is concerned with research questions regarding all aspects of dynamics in logistics.*

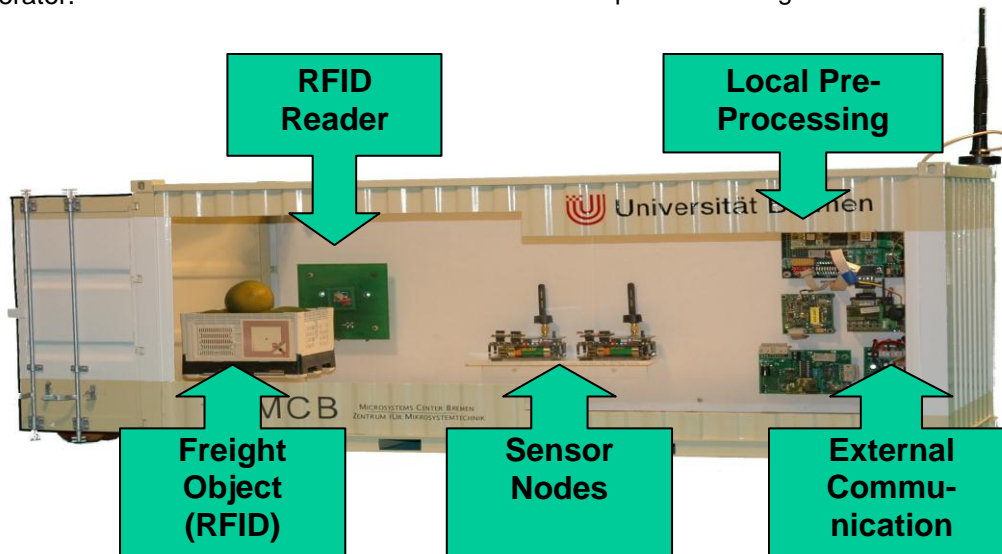
## The Intelligent Container Project

The intelligent container project is developing sensor networks for autonomous logistics, especially for perishable goods such as fruits. The systems links technologies from the fields of RFID, sensor networks and software agents to provide a permanent and freight-specific supervision of each transport package along the supply chain. Local pre-processing of sensor information reduces costs for external mobile communication. A quality prediction model runs on an embedded processor platform that is integrated into the container, truck or semi-trailer. If a risk for the quality of loaded freight items is detected, the autonomous supervision system sends a warning message to the transport operator.

### Examples for possible PhD topics are:

- Fault detection in the sensor network: Identifying faulty sensors by plausibility checking.
- Location of items in the sensor network using RFID signals and spatial reasoning.
- Reconfiguration of the sensor network: The sensor data are used to generate a model of the transport situation. This model is used to actively change and improve the sensor network.

For more information please look at <http://www.intelligentcontainer.com/>



If you are interested, please contact:  
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*For further information on the application procedure please visit our website at <http://www.logistics-gs.uni-bremen.de>*