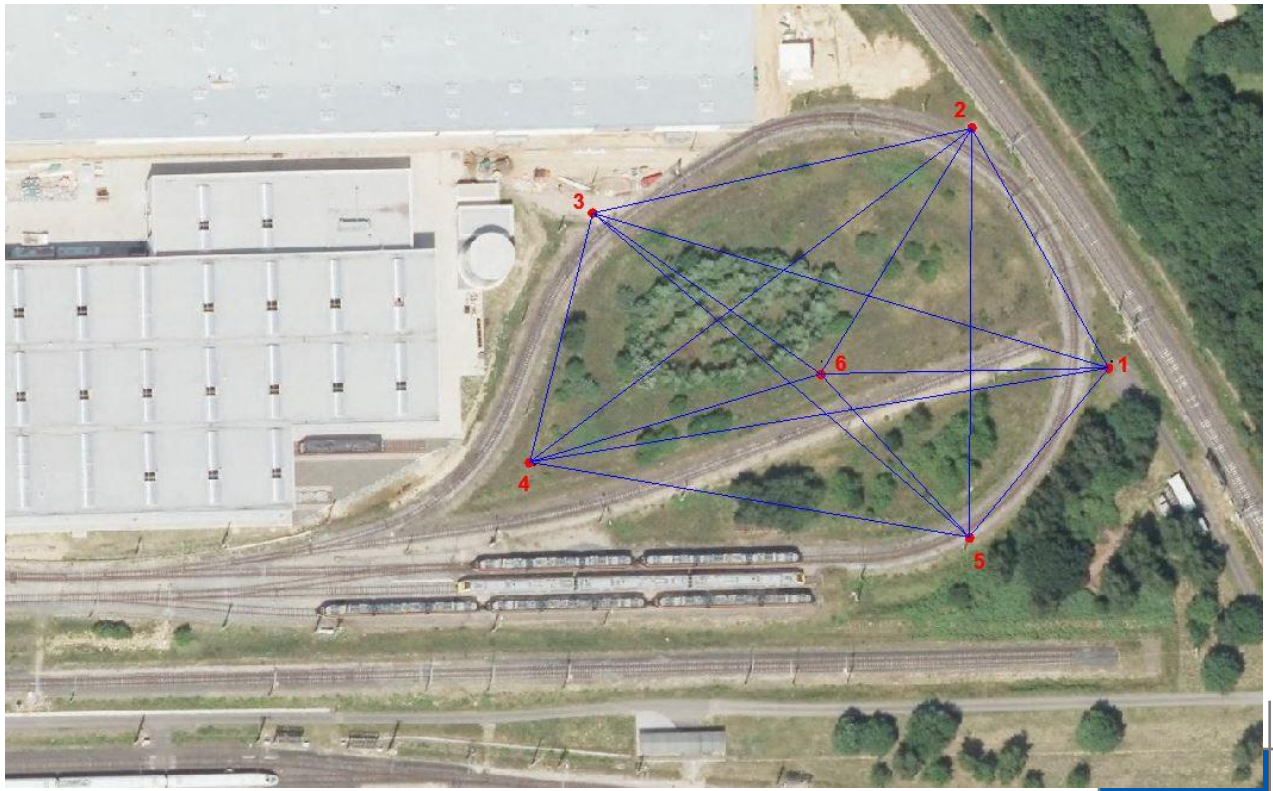
geometrical structures from point clouds

Dr.Ing. Hanns-F. Schuster

Project Galil-EU

Status: finished

- Development of a Testbed for GNSS-Receivers for static and dynamic measurements
- We use a Rail-loop as a quasi invariant test site
- A gang car runs remotely on the track
  - Can be equipped with sensors
  - Can be measured from the outside

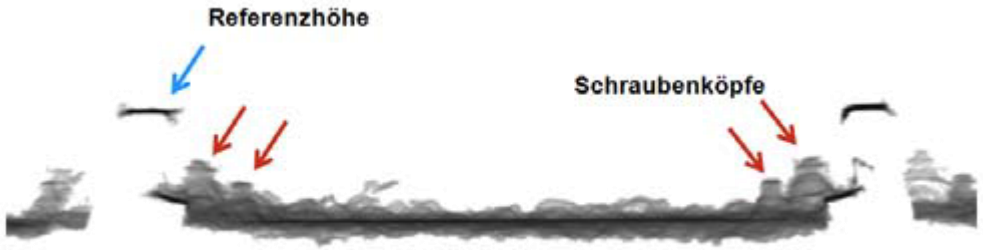


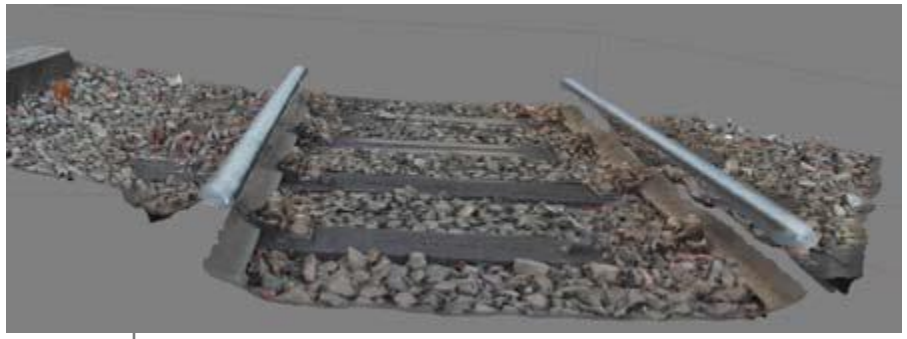
GEOHAUS

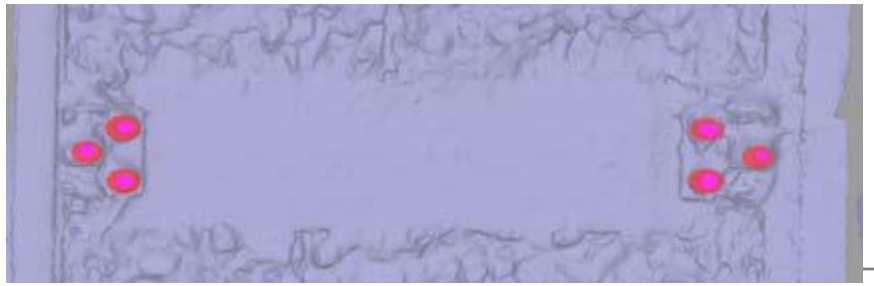
Project: Smart Rail Inspector

Status: ongoing

- Development of a device for detection of faults and deformations in rail tracks
- The device can be attached to any train to flow with the normal traffic in 80-100 km/h
- The track deformations that we detect are “Riffels”, deformations of the depth of 0,1 mm, which are the dominant source of noise and a beginning of degradation of the tracks
- Goal is to minimize the noise of train traffic and to be able to act in a maintenance management cycle to minimize the costs of the maintenance



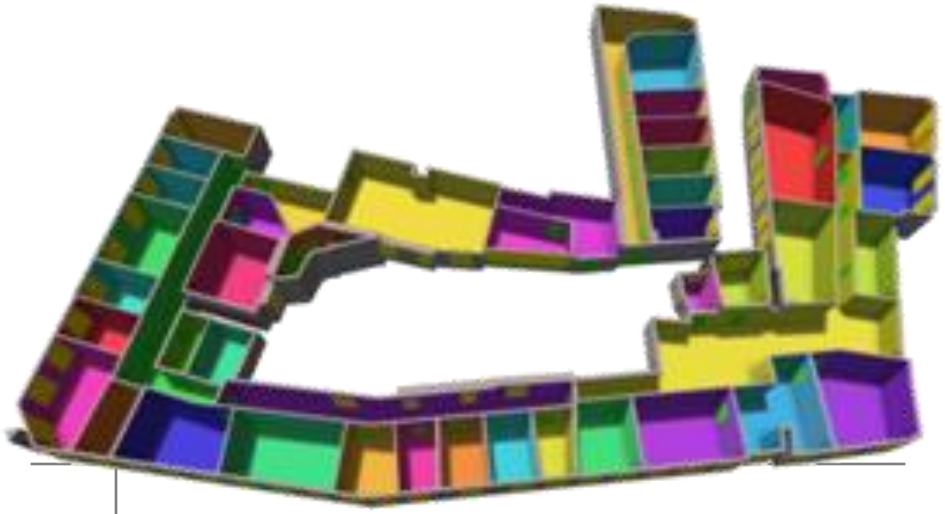


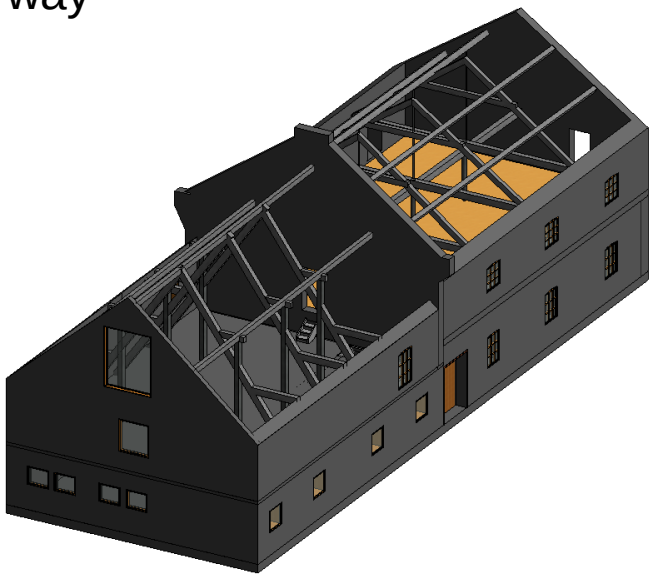


Project: Interpretation of PointClouds

Status: seeking for partners

- We take the component for high precision geolocalization developed in the project SRI
- Together with a Laserscanner we get a „mobile mapping“ unit,
- This can be used on streets (on top of a car) or in buildings (by carrying the device)
- The resulting point clouds need to be interpreted in an automatic way
    - Building Information Modelling
    - City-Modelling via GML





Thank you !

Dr.-Ing. **Hanns-F. Schuster**

GEOhaus - Haus der Geoinformation

Löhberg 78 (am Rathausmarkt)

45468 Mülheim an der Ruhr, Germany

Tel.: +49-208-450 00-0
Fax: +49-208-450 00-32
E-Mail: dr.schuster@geohaus.de
Web: www.geohaus.de

Geodätische Referenzstrecke

zur dynamischen Validierung von Positionssensoren