Installation Status of MLAT and WAM at Braunschweig Airport after RWY extension
History

- The Airport is located in the northern part of Braunschweig
- It was founded 1935
- It opens on 18th May 1936 with a first approach of a Heinkel H70 of DLH
- Direct flight connections to Berlin, Halle and Hannover
- RWY-Dimension was 1600x1000m grass surface up to 14t weight load
- Closed in between 1945 and 1955
- 1976 the runway changed from grass to concrete tarmac 1600 x 45m
- A parallel grass runway kept open (900 x 30m)
- 2010 the runway extension up to 2300m started and was finalised in summer 2012
- The official opening of the new RWY was in October 2012
- In August 2013 the northern apron area was extended by approximately 100%
Facts

Airport Braunschweig-Wolfsburg GmbH
- City of Braunschweig: 43 %
- Own interest: 36 %
- City of Wolfsburg: 18 % (due to the automobile manufacture VW, Skoda, Audi)

EDVE: 52 19 09 N 295 ft and 10 33 22 E
Runway 08/26 concrete 2.300 x 45 m North
08/26 Gras, 900 x 30 m South
Threshold-distance: 1.200 m
Radar from Hannover till 300ft, VOR, DME, ILS I
Opening: Monday to Friday: 7:00 - 22:00
Sa, So, and public holidays: 8:00 - 17:45
Controlled by Austro Control
Business flights, Charter flights, VW
The Airport imbedded in the whole Area

- Research Airport Braunschweig GmbH
- German Aerospace Center (DLR)
- Technical University of Braunschweig
- Civil Aviation Authority (CAA): Luftfahrt-Bundesamt (LBA)
- Governmental Flight Accident Investigation: Bundesstelle für Flugunfalluntersuchung (BFU)
- Approximately 20 companies
- Several Associations
- Approximately 4000 employees

⇒ One significant engine of the region
Impressions during Airport Construction Time
Runway Extension and MLAT Status (1/3)
Runway Extension and MLAT Status (2/3)
Runway Extension and MLAT Status (3/3)
WAM (1/3)
WAM (3/3)
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INSTITUT OF FLIGHT GUIDANCE

Airport Research Facility Braunschweig (ARF-BWE)

Status:
⇒ Complete MLAT coverage of
  - both RWYs,
  - all TWYs
  - DLR apron
⇒ Complete WAM coverage
  300m altitude / 25NM radius
  50m altitude / 10NM radius
⇒ GBAS CAT I Station
⇒ ADS-B station (DFS)
MLAT Coverage
WAM Coverage within 50m Altitude:

- Minimum Separation: < 1.5NM
- Position Accuracy TMA: < 150m
- Update TMA: < 2sec
- Probability of detection: > 97%
- False target reports: < 0.1%
Research Infrastructure – From Theory to Implementation

- **Concept- Definition and -Evaluation in Simulation**
  - *DLR Braunschweig*

- **Technical Verification On Site**
  - *Research Airport Braunschweig*

- **Operational Validation/Shadow Mode On Site**
  - *Airport Research Facility Hamburg*