

Orbital systems
Transversal competencies



ABBIA is a French limited SME created in 2006 in Toulouse by a private investor.

ABBIA is specialised in GNSS signals processing and GNSS data analysis.

Since 2006 our Engineering Team is implicated in the main European GNSS programs (EGNOS and Galileo) in close collaboration with the major actors of the European GNSS marketplace.

COMPETENCIES & CAPABILITIES

The company is highly specialized in:

- GNSS signals processing,
- GNSS innovative algorithms creation,
- GNSS software design and development,
- GNSS research and development activities.

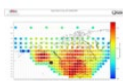
ABBIA also provides consultancies to GNSS space agencies, SBAS operator or major industry actors seeking for highly specialized GNSS competencies.

· OASIS SOFTWARE TOOL BOX ·

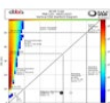
We have developed a set of Software tools that allow us to answer to daily customer needs OASIS suite product is a software toolbox allowing to perform different analyses on the estimation, prediction, propagation models covering a wide range of GNSS topics and in particular on DFMC SBAS.



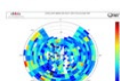
DFMC SBAS Worldwide Performance Monitoring including analyses at satellite and ionosphere level.



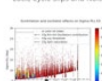
User position solution estimation from receiver raw measurements applying GPS-only or DFMC SBAS solutions.



Analysis of receiver signal quality performance in terms of Signal to Noise Ratio and measurement code & phase noise for different carrier frequencies.



IONO Scintillation modeling in amplitude and phase based on statistical characterization as well as impact on the GNSS receiver performances in terms of Loss Of Lock, Cycle Slips and noise.



ABBIA “GNSS Technologies”

PRODUCTS & SERVICES

ABBIA is one of the companies involved in the EGNOS programs. ABBIA staff have been providing consultancies on different areas for EGNOS AOC and V2:

- Algorithms and Performances of the CPF,
- AIV-IVQ (Integration/Validation and Qualification),
- GNSS AIV platforms and test benches management,
- System Software Maintenance and Operations training,
- System Engineering and Software Tools for System Qualification,
- Sub-contractor’s management and different system evolutions studies.

In the frame of EGNOS V3, ABBIA has been awarded the Dual Frequency Multi Constellation (DFMC) software toolbox for EGNOS V3 System Performances qualification.

In the frame of Galileo Ground Mission segment, ABBIA have been involved in the IVQ and Software Maintenance activities. ABBIA has been awarded the GMS Local Maintenance Equipment (LME).

MAJOR SPACE PROJECTS & REFERENCES

ABBIA has been involved in EGNOS AOC, EGNOS V2, EGNOS V3 phases C/D.

ABBIA has been involved in the Galileo GMS phase C/D.

ABBIA has been part of the MAGNIFIC-H2020 Project awarded by the GSA.

ABBIA has provided consultancies to ESA EGNOS Project Office, IRT Saint-Exupéry, ESSP SAS, CNES.

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TURNOVER 0,8 M€

WORK FORCE 10 employees

SPACE TURNOVER 0,8 M€