SatSIM

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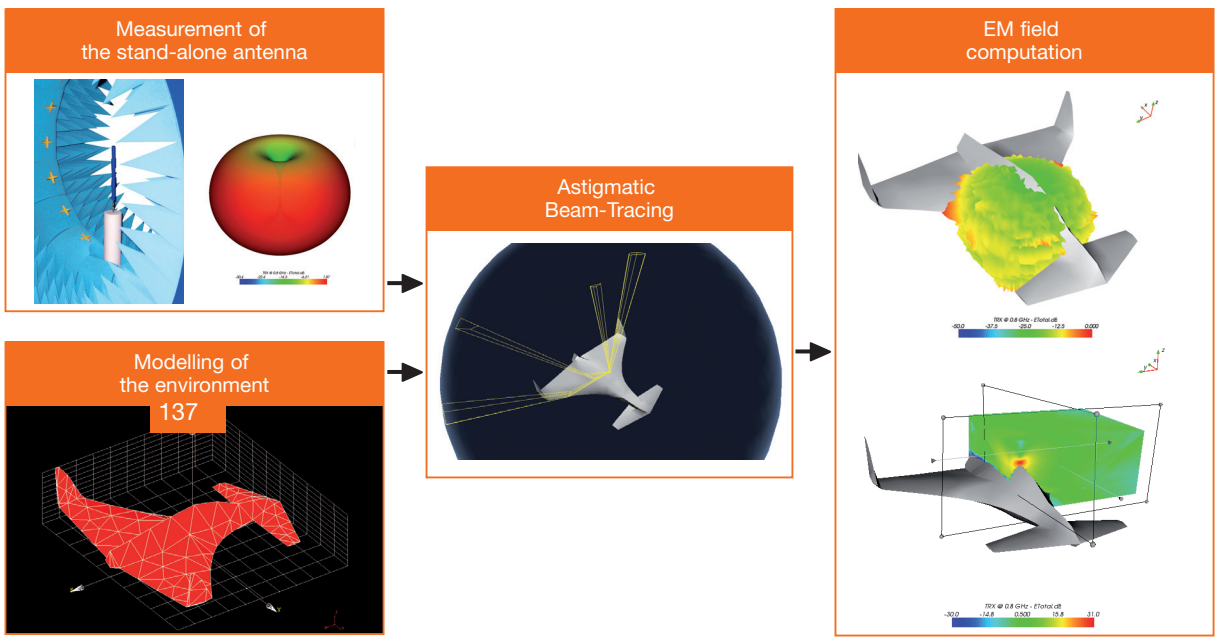
Performance evaluation of antennas sited and operating in complex and electrically large environments is a difficult and complex measurement task.

SatSIM provides a user-friendly and economical way to accurately evaluate the behaviour of an antenna in its final operational environment.

This is achieved by combining near-field measurement of the stand-alone antenna with the numerical modeling of its operational environment, based on a novel approach in ray tracing technique (Astigmatic Beam Tracer).

The SatSIM software is an efficient extension to the fast measurement capabilities of the MVG spherical near-field measurement systems.

Measurement process



Input sources types: Measurements / Analytical / Equivalent Currents in single/multiple modes

Spherical near-field/far-field or planar near-field as output

The antenna source model can be obtained in real-time from measurements performed in the antenna test range. It offers a unique capability of assessing the performance of the antenna within its final operating environment as the stand-alone antenna is being measured.