

SIMULATION AND MODELLING

SATELLITE COMMUNICATIONS

SIMULATION AND MODELLING SERVICES AND TOOLS

Based on our systems approach in the context of complex satellite and cellular mobile communications networks, along with the development of test and network simulation tools, Telespazio UK, through its recent acquisition of e2E, provides support for the specification, design, and implementation of development and operationally based models, tools and applications used to aid in the definition and later upkeep of operational satellite systems used to deliver communications, observation and navigation.

We have also developed a suite of operational software tools that are used by a variety of space and defence industry clients, to support systems analysis and planning. They are used to increase business efficiency and effectiveness of operational engineering, as well as to support sales teams with immediate customer ordering.

Our modelling and simulation capabilities comprise a multitude of disciplines and techniques including:

- › Satellite Radio Propagation modelling

- › Air Interface simulation
- › Constellation modelling (e.g. STK, MATLAB)
- › Training
- › Message and packet level simulators
- › Digital and regenerative payload simulations
- › End-to-End satellite communication systems modelling
- › Software porting and development
- › Link budget tools
- › Interference analysis tools
- › Earth Station Pointing tools
- › Adjacent Satellite Interference tools
- › Next Generation Processor Benefits Analysis tool
- › Real Time Network Simulator tool