



## Signal availability is vital for any mission. Do you know when you can rely on your communication, navigation & surveillance signals or is it a guessing game?

Mission Safety in the field  
**Predict the signal gap: SPECHT**

**SPECHT predicts signal quality and availability in any situation and in any location on the globe to keep you safe. Whether you operate in search-and-rescue, forestry or the defence industry, terrestrial and space-based communication, navigation and surveillance signals are of ever increasing importance. Being dependent on them requires you to know when you can rely on them. SPECHT helps you plan your mission on a desktop, train realistically in the simulator and keeps you informed and safe in the field.**

**PREDICTABLE PLANNING,  
REALISTIC TRAINING, SAFE EXECUTION**

SPECHT is the communication, navigation and surveillance prediction solution for the complete mission life-cycle.

**PLANNING.** Using fast-time simulation, SPECHT predicts signal coverage for the area and time-window of interest. Hotspots of degraded navigation and communication are identified and represented similarly to how a weather map informs you about tomorrow's weather. SPECHT helps you plan your mission for maximum coverage, determine strategic communication waypoints and improve contingency procedures.

**TRAINING.** As node in a network of training simulators, SPECHT calculates signal coverage in real-time. This allows training under realistic conditions by simulating real-world inter-agent communication quality, SatNav and SatCom availability and surveillance visibility.

# PREDICT THE SIGNAL GAP

## SPECHT

**EXECUTION.** In the field, SPECHT support units with up-to-date short-term predictions. It shows areas of degraded communication & navigation through digital maps and by augmented reality (AR). This helps you spot dead-zones and shows how to best return to an area of coverage. Our solution for in-the-field runs on off-the-shelf tablet hardware and can easily be integrated with hardware already deployed.

### HIGH DEFINITION DATA, HIGH DEFINITION PREDICTIONS

Data is paramount in high-fidelity simulations. Accurate ephemerides, detailed digital elevation models, antenna patterns as well as surface reflection and scatter properties can be taken into account to improve predictions. Our experts gladly inform you how we can incorporate your data and complete it where necessary through our strategic partnerships with data suppliers.

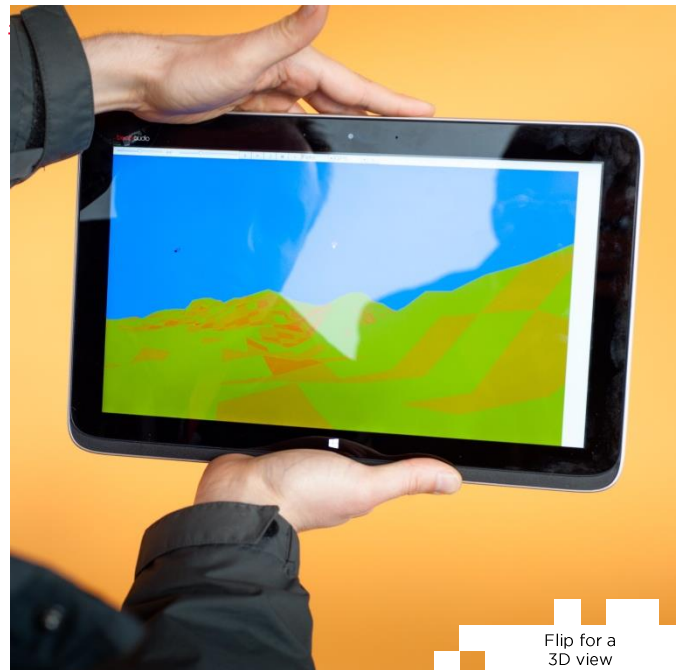
### ADVANTAGES OVER LEGACY SOLUTIONS

Advanced propagation algorithms – Much more than line of sight: Signal strength, link budget, continuity, etc. Metrics that matter.

- **Platform independent** – Network-based, desktop or tablet. Linux or Windows.
- **Flexible** – Any source, any frequency. Space-based or terrestrial. Moving or static. Friend or foe.
- **Open** – Fits into existing ICT, instead of the other way around. Open interfaces. No vendor lock-in.
- **Tailorable** – Interfaces and reports tailored to your way of working.
- **Scalable** – Start small and grow with your experience and evolving needs.

### BEYOND SPACE – OUR HERITAGE

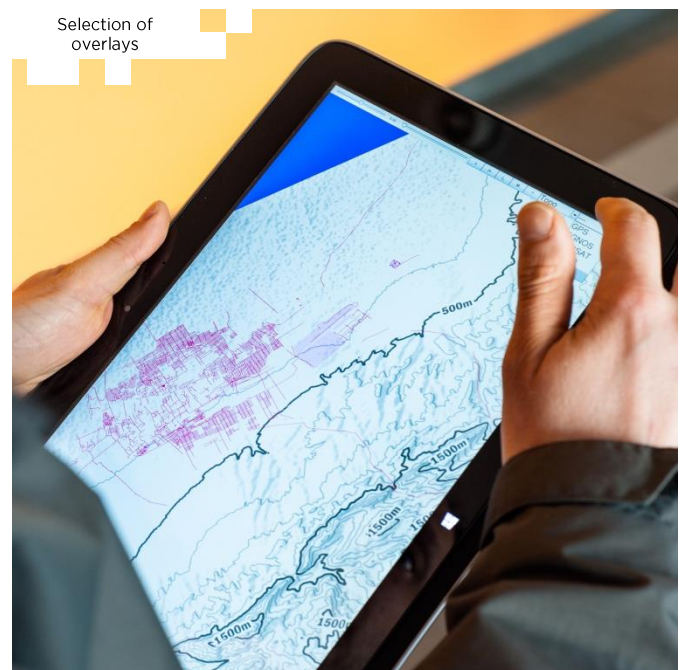
Telespazio VEGA Deutschland has nearly four decades experience in the development and operation of systems for the space industry. Transferring the technology from space mission planning systems and simulations to other domains was the next logical step.



Flip for a 3D view

### WE ARE HERE TO DISCUSS YOUR CHALLENGES

The safety of your mission is our goal and SPECHT can help you increase your safety. Whether you are looking to improve mission planning, simulator training or tactical information in the field, our experts want to hear from you. Without any obligations, we offer to discuss your needs and proudly showcase you our solutions.



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