

## IPi Institute Spirent Case Study

ipi-Institut is an independent service provider that tests a variety of appliances, goods and devices for quality, functionality and durability and can offer additional specific services using market research and/or application tests.

### Issues

The ipi-Institute had a requirement to be able to simulate and reproduce a variety of realistic situations in order to carry out controlled tests on end user equipment within the automotive marketplace. Specifically they needed to test the underlying map data and navigation behaviour in a variety of countries throughout the world, all from the confines of their lab.

### Solutions

Based on knowledge of the ipi-Institute's requirements Spirent was able to recommend the Spirent STR4500 Multi-Channel Scenario Replay GPS/SBAS Simulation System which enabled ipi to create and replay scenarios of vehicle behaviour combined with Satellite constellations by means of recorded GPS data. The scenarios created enabled ipi engineers to simulate an environment anywhere in the world which ipi could continuously play back to different devices in a controlled manner. Devices could then be directly compared without the need to have them available simultaneously.

### Benefits

Spirent's GPS simulator allowed ipi to perform reproducible tests independent of outdoor conditions thus saving time and reducing budget requirements. As far as ipi are concerned, using a simulator is the only way to do long term product comparison. "The technology platform supplied by Spirent allowed us to tender for and win additional business. The high quality support provided by Spirent gave us a jump-start to rapidly gain benefit from working with the simulator".

- Joachim Vollmer, ipi-Institut

**Note** The STR4500 has since been superseded by the Spirent GSS6700 Multi-GNSS Constellation Simulator System

Spirent's unrivalled experience and expertise in GNSS simulation ensures accurate results that customers trust and rely on to evaluate their products and applications. Contact us to find out how Spirent solutions can help you.