

Druid Software – Private 4G/LTE for AstaZero



AstaZero : Sandhult, Southern Sweden

AstaZero is the world's first full-scale test environment for future road safety. What is unique about the facility is that the different traffic environments make it possible to test advanced safety systems and their functions for all kinds of traffic and traffic situations. This enables research, development and certification of future road safety systems, and functions as an international arena open for vehicle manufacturers, suppliers, legislators, universities and colleges from throughout the world

The environment: AstaZero provide a range of advanced test environments, scenarios and functions associated with automotive transport. AstaZero's test environments comprise a 5.7 kilometre rural road lane, a City Area with four districts of buildings and streets, a Multilane Road for multi-lane traffic and a High Speed Area for high speed tests

The Scenario: The AstaZero test site has two control towers as well as several control rooms adjacent to the different environments. The test site includes technical equipment like remote control gates, traffic lights, targets, balloon cars and driving robots. All of these facilities, functions & applications are remotely connected via the control towers to the control rooms.

The Problem: The challenge was; covering such a large site combined with the speed at which the vehicles travel and the extreme low latency data service required. This ruled out the use of conventional WiFi. Because of the critical nature of "Driver-less car" applications, the network performance requirements specified latency of <30ms.

The solution: After an extensive evaluation phase, AstaZero selected Druid's private cellular 4G/LTE solution as the best technology to meet its needs. The solution was deployed in partnership with Druid local SI partner ReWiCom.

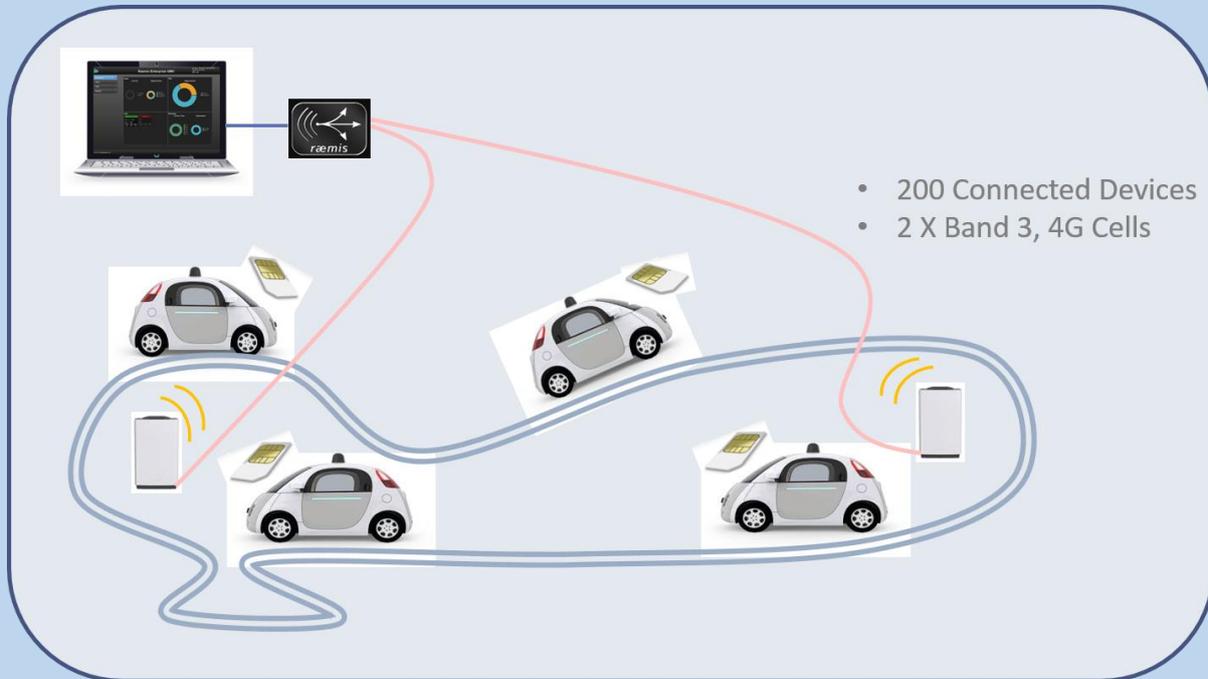
The key attributes of Druid's solution that appealed to AstaZero were:

- ◆ Dedicated secure coverage
- ◆ Guaranteed latency (<30ms)
- ◆ Ease of management and expansion



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AstaZero: Network Topology



AstaZero

The name is a combination of ASTA Active Safety Test Area and Zero, which refers to the Swedish Parliament's vision for road safety with zero dead and seriously injured in road traffic accidents.