



Mesta “paving the way” with rugged software

Mesta AS is Norway’s largest company in the construction, administration and maintenance of roads. Mesta has more than 3000 employees and a turnover of EUR 800 million.

As a leading company they utilise cutting-edge methods like Real-Time Kinematic Positioning. RTK GPS is a sophisticated version of GPS capable of yielding centimetre accuracy for road construction. Anmask, Mesta’s software application for RTK GPS, is used together with more than 300 JLT computers on several types of construction machines. Anmask gives control information to bulldozers, planers, tractors, excavators, asphalt layers, drilling and many other machines. Anmask provides advantages over other traditional positioning and tracking methods by increasing productivity and accuracy.

Real Time Kinematic satellite navigation in short

RTK is a technique used in land survey based on the use of carrier phase measurements of the GPS. GPS signal corrections are transmitted in real time from a reference receiver at a known location to one or more remote rover receivers. The use of an RTK capable GPS system can compensate for atmospheric delay, orbital errors and other variables in GPS geometry, increasing positioning accuracy up to within a centimeter. Used by engineers, topographers, surveyors and other professionals, RTK is a technique employed in applications where precision is paramount. RTK is used, not only as a precision positioning instrument, but also as a core for navigation systems or automatic machine guidance in civil engineering and dredging.

Big savings using mobile computers with Anmask

Anmask is used for advanced road surveying and has become a standard requirement when building roads in Norway. Geologists work faster and no “pole boys” are required, meaning that the cost for that part is normally halved. In a road building project it can mean 2-3% savings of the total cost. In addition, no poles are required, less material will be used and the machines can be used up to 50% more efficiently which means at least the same level of savings. As building new roads is expensive and because a system consisting of a rugged PC, necessary software and a GPS unit has a modest price, the investment is paid back in less than 2 km of road!

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