

# **Emlid Construction White Paper - Innovelec**

## **Asset and Equipment Tracking**

The location and condition of assets in the construction industry is key to the asset being available when they are required. Whether this is in the form of asset tracking, authorising use or simply monitoring the machines wear and tear in order to carry out planned maintenance before the machine breaks down.

Emlid Reach M2 can be installed within an asset to provide a position, while also providing a location of the asset to the controller via a third-party compatible device. Emlid's Reach RS2+ can also be used for providing a position stream to a piece of equipment.

## **Estimating, Forecasting and Project Planning**

Emlid's Reach RS2+ or RX with their hand-held GPS / GNSS surveying capability can be used to collect data on a given site.

This information can then be used to create a map of the site in order to calculate the productivity of each machine.

## **Machinery Guidance**

As a result of careful estimation, forecasting and project planning data can be provided to guide the position of each machine at all stages of production.

## **Setting Out**

Accurately setting out a site is vital to position the building / structure in the correct place relative to everything around it. Emlid's Reach RX or Reach RS2+ with their hand-held GPS / GNSS surveying capability provide a builder with the ability to accurately, cost effectively and easily stake out the location of points within and around the structure.

## **Record Data in Real time**

The planners should be able to collect data in real time using a drone with an Emlid Reach M2 in combination with an Emlid Reach RS2+ base station in RTK mode will give a highly accurate scan of the layout of the site. Using Emlid Flow and Emlid Flow 360 a surveyor can be feeding information back to a central office when obstructions occur.

## **Safety**

Emlid's Reach M2 and RS2+ products are part of the solution to a safe environment. A surveyor no longer needs to physically survey around heavy plant equipment, when a drone can be employed to scan the area. Providing a much safer surveying practice. It also reduces downtime while equipment is stopped to undertake a safe survey.

For More Technical Information on the Emlid Products please visit:

<https://innovelec.co.uk/brand/emlid/>