

Fertilizer optimisation

User: TIMAC Agro, Serbia

TIMAC AGRO is an industrial company specializing in soil improvers, plant and animal nutrition.

For 60 years, TIMAC AGRO a subsidiary of the Groupe Roullier has been constantly innovating to offer agronomic and zootechnical solutions that improve agricultural performance in an environmental-friendly way.

THE CHALLENGE:

Commitment towards sustainable operations, while respecting the environment, necessarily drives any farming organization into variable rate applications. That is also how fertilizer can be optimized, yield enhanced and more generally innovation at TIMAC AGRO being developed.



A successful variable rate application starts with the right map. It is common knowledge that electric conductivity is an excellent base for many variable rate applications. The challenge however is to gather big amount of data in a reasonable time. Also, data must be made available to researchers and farmers alike.



THE SOLUTION:

A contact free soil scanner to be mounted in a few minutes on pretty much any vehicle is certainly the way to go. Data can be made available at any time of the year, regardless of weather conditions or the crop situation in the field.

The Topsoil Mapper is an electromagnetic device that records electric conductivity in four different depths. That way not only horizontal soil zone maps can be obtained by

the user, but also a vertical soil structure analysis is available right after the scanning operation.

No matter whether you want to detect problem areas - like compaction or saline spots - or just determine a homogeneous parcel for your research trials, software package associated with the hardware translates raw data into maps ready to be treated in your existing farm management software.

QUOTES:

"Site specific applications require a perfect understanding of soil structures ahead of any else we do in our client's fields. The Topsoil Mapper gets us soil zone information on which we base our variable rate applications." – says Igor Molnar, Country Manager at TIMAC Agro Serbia