

## Soil testing with our Scanner now available in your language!

*All our applications are based on our in-house developed soil database. However, the soil data has to be adapted to the local requirements. Before getting into the broad offer of apps for relevant nutrients and soil applications, customers want to run trials to get experience. There is nothing more convincing than having the solution in your hands and making user tests, experiencing the simplicity of use and living the advantages.*



### Why get our lime app?

No other single soil chemical characteristic is more significant in defining chemical environment for plant growth than pH. Generally, soil acidity is a natural phenomenon, but can be accelerated by agriculture when ammonium based fertilizers are applied. Ammonium-based fertilizers are generally less expensive compared to other Nitrogen fertilizers which leads to human accelerated soil acidity.

**Maintaining a good soil pH (between 5.5-7.0) is essential.** Soil acidity is managed through the application of lime ( $\text{CaCO}_3$ ,  $\text{CaO}$ ,  $\text{MgO}$  or  $\text{MgCO}_3$ ), the amount depending of the neutralising value of the lime, the pH of the soil, the soil type and rainfall. At SoilCares the lime recommendation is expressed in  $\text{CaO}$  units (neutralizing value) and is calculated using the difference between the actual pH and the crop specific optimal pH, clay content, density, and organic carbon content of the soil.

### How to use the lime app?

The lime application is user-friendly and has an intuitive layout. Scanning the soil is a simple 10-minute procedure that starts with connecting the smart phone with SoilCares Scanner via Bluetooth.

Each soil sample is scanned 5 times. After the scans are completed, several questions regarding the field and fertiliser usage are required. A few minutes later the soil report is ready and you can see it in the Report tab. The lime application is currently available for Android devices.

### What is the value of this app?

Firstly, the measured parameters included in the report are:

pH (KCl)

Organic matter

Clay = measured clay percentage of the soil

Moreover, the ranges of the parameters are determined by the measured soil type, measured organic matter, measured clay level and choice in crop. The determined lime advice is shown as "Neutralizing value" in kg lime ( $\text{CaO}$ ) per hectare.

### What's in it for you?

With SoilCares Scanner and this **free app** precision AG is in your hands! You can check anytime, anywhere the pH of your soil. Furthermore, you can retrieve this data at any point in the future.

