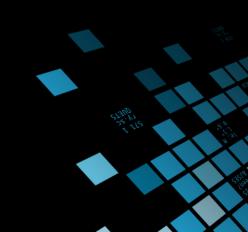


Splunking the Farm

Agriculture, powered by the Splunk platform

Dennis Mohn | Technical Account Manager, SCC II September 25, 2017 | Washington, DC



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The Farm

What it's all about ...

... in a nutshell







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Meteorlogical Data

We all depend on the weather

- Create weather forecasts
- Optimize pest management & fertilizer usage
- ► Plan best harvesting time
- Mandatory documentation for government and food control

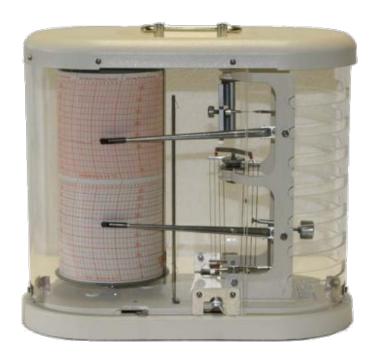




The Past

How we did it in pre-Splunk times

- Meta data has been gathered with thermo-, baro- and hygrographs
 - All manual, had to be wound up twice a week
 - Spread around the farm
- ► Trends had to be checked multiple times a day
 - Yes, on all places around the farm
- Experience was needed to interpret the data correctly
- No means of alerting





Enter The Arena

Spillnk*



The Devices

Gather ALL the data



Data Collection

Off-the-shelf hardware and Raspberry Pi



Image © elv.de



Image © directindustry.de



The Dashboards

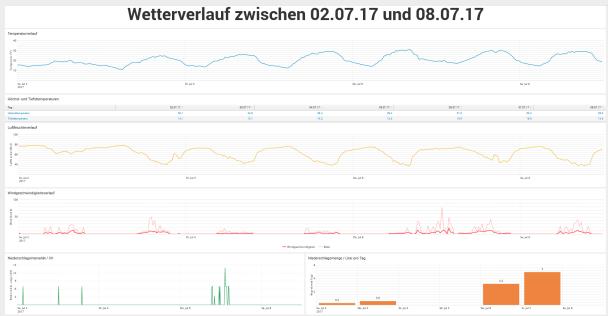
Supercharge your agriculture



Weather Overview

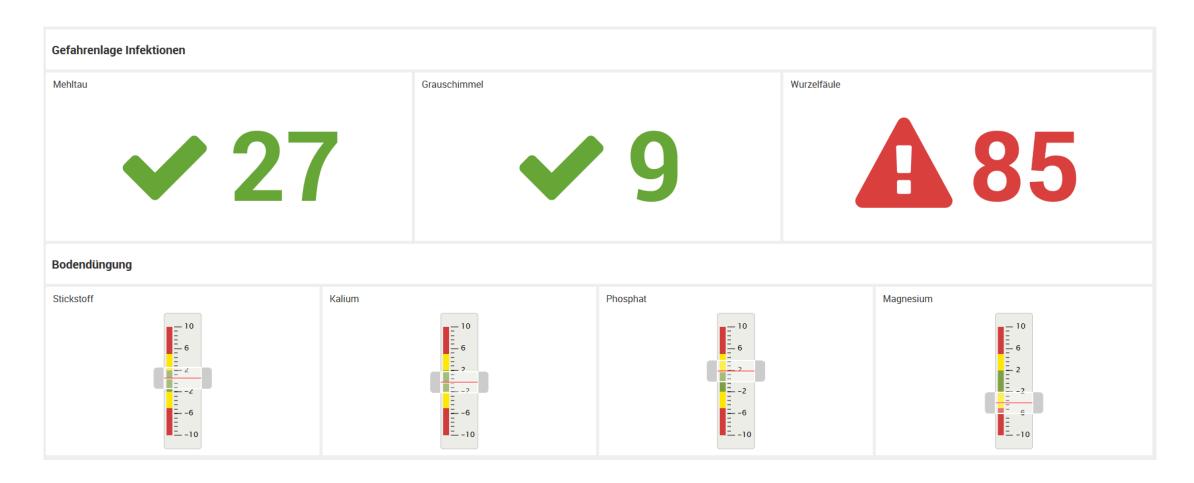
Current and past situation at a glance





Forecasts and Recommendations

Unleash the power of the Splunk platform





The Results

Will we do it again?





Less Time, Less Pesticides, More Fruit?

- ▶ Data collection time reduced dramatically (seconds instead of ~ 1 hour)
- Predictive measurements reduce reaction time
- ▶ Pesiticides and fertilizer can be used on-time and in less quantities
- Documentation for food control agencies and government as easy as it can be

There is no evidence yet of increased yield due to unexpexctedly bad weather conditions ...

... but we will continue!





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