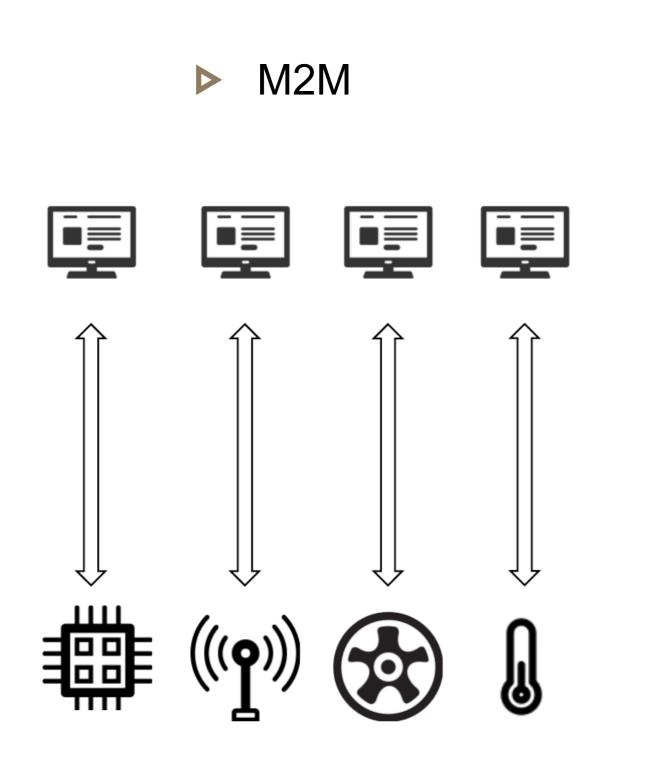


# Internet of Things



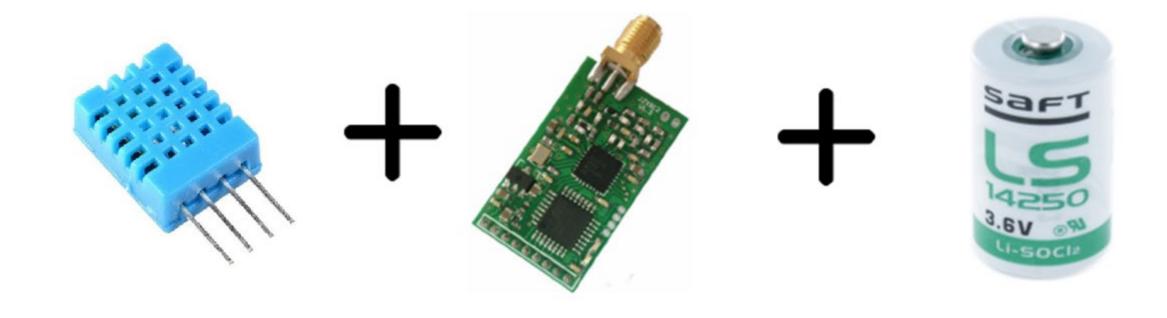








#### Small loT devices









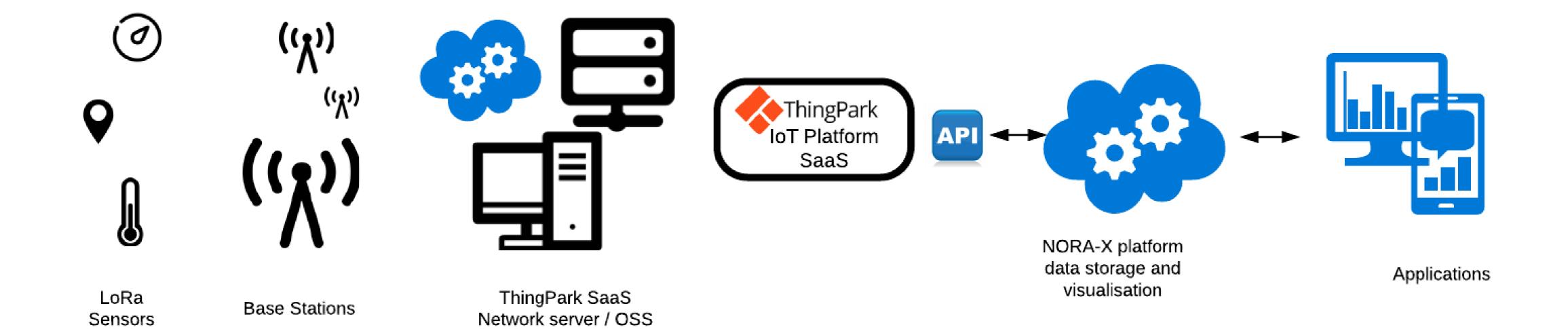
```
{
  "temperature": 226,
  "humidity": 41
}
```







#### NORAnet network









#### Peatland use cases



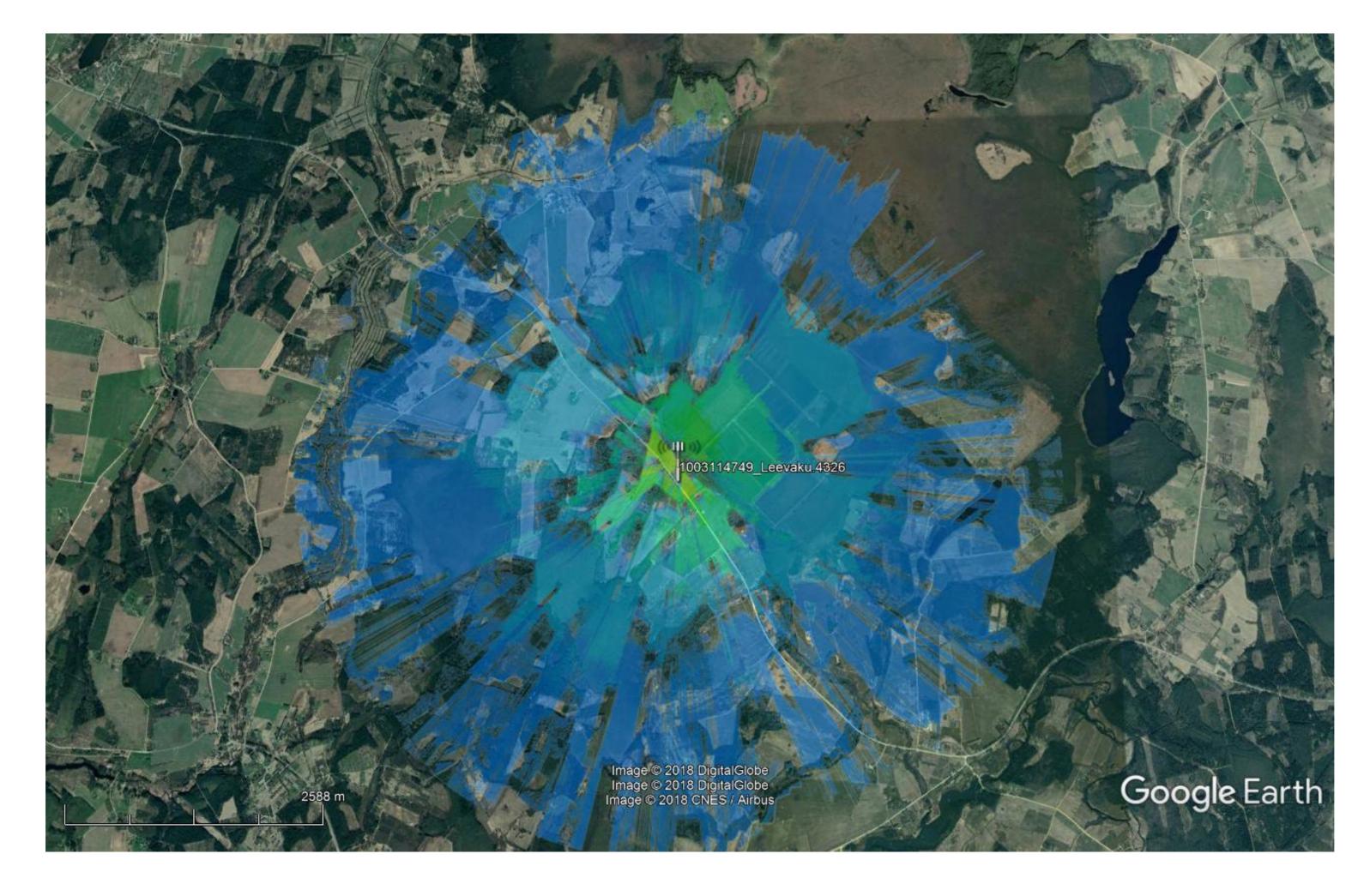








# Connectivity









## Sensor nodes











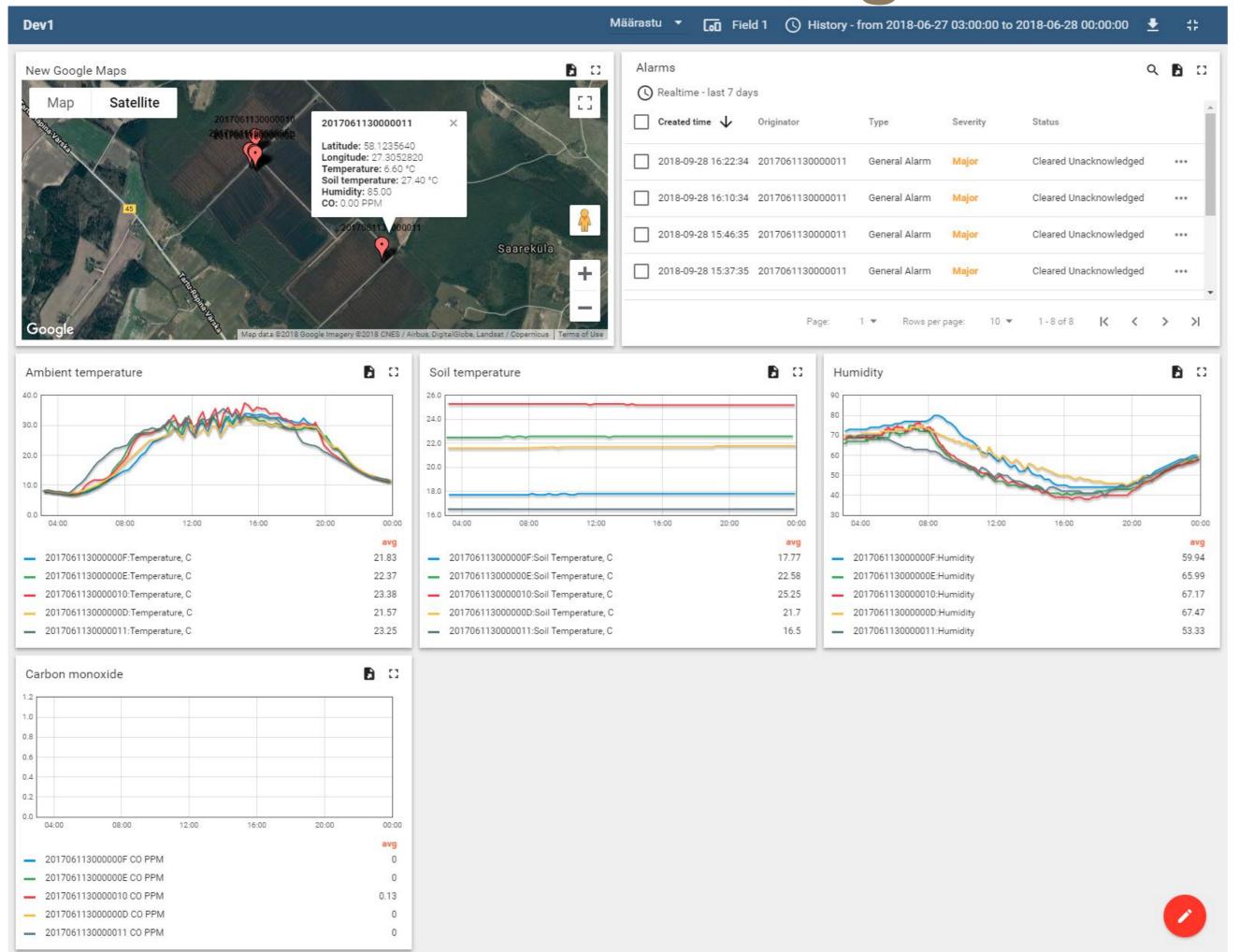
## Node placement

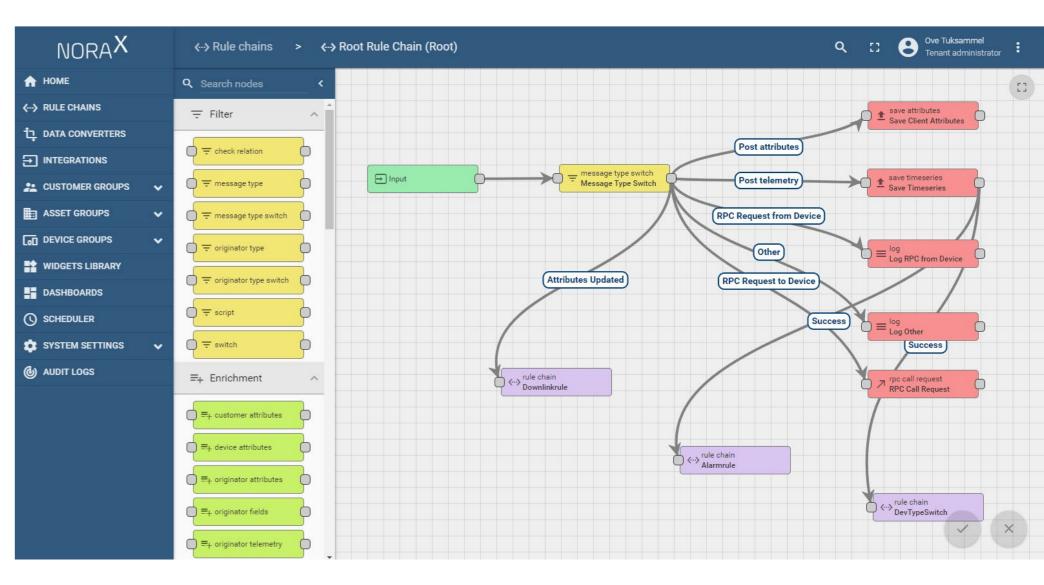


- Works well with all wind directions
- ▶ 50m to 100m node spacing, at strategic locations
- Flexible node placement topology
- ► The nodes can be flexibly placed at different locations as needed



## NORA-X for data storage and visualisation











#### Location data



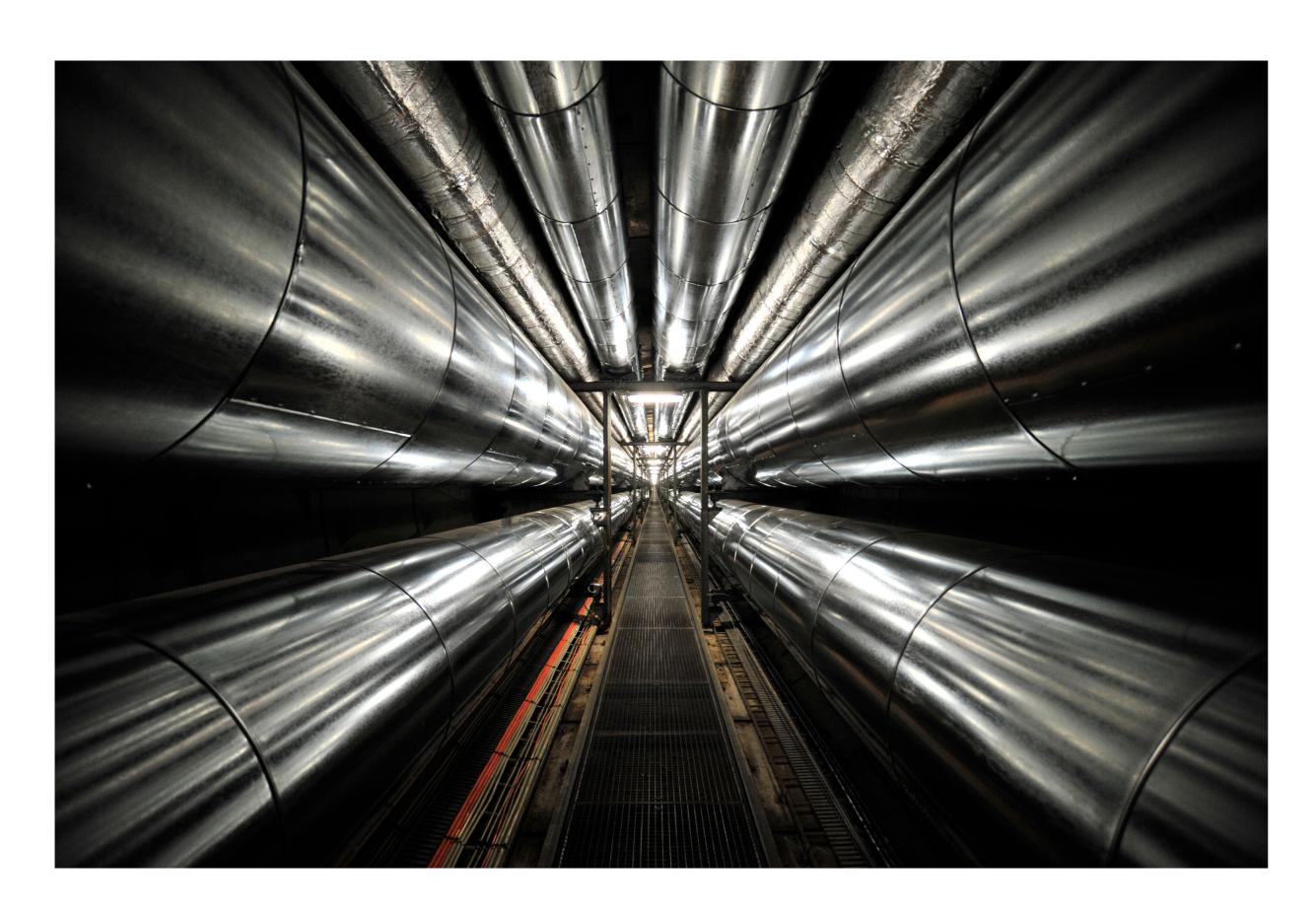








# Related other use cases Metering – heating, water, gas











# Waste management / asset tracking

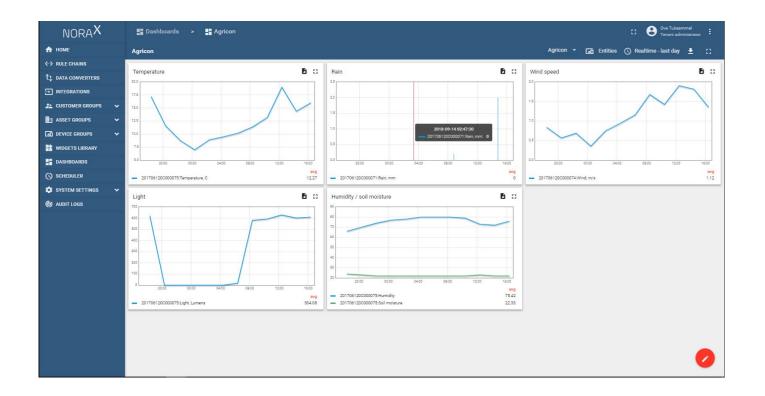








### Weather stations



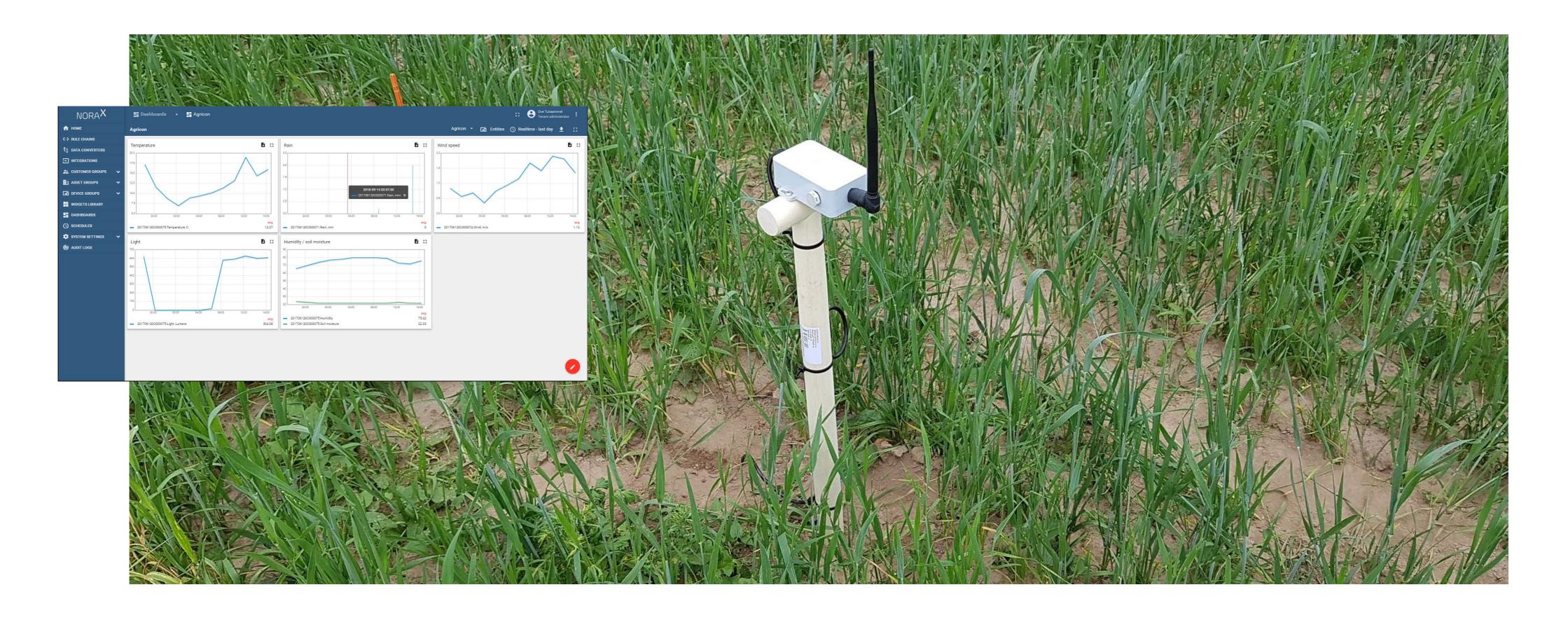








# Precision agriculture









## loT project phases

Business model Solutions Proof of concept Development

- Stakeholders
- Endpoints
- Usecases
- Feasibility

- Devices
- Applications
- Connectivity
- Security
- Interoperability
- Suppliers

- Key
- assumptions
- Technolgy fit
- Application development/ purchaseIntegration

Deployment

- •Systems
- deploymentDevice
- installation
- Training
- Operations







#### Thanks!

Ove Tüksammel @levikom.ee

Levikom Eesti OÜ Pärnu mnt 139C 11317 Tallinn

Eesti / Estonia

levikom.ee





