The logo for The Sensor Factory consists of a dark blue stylized roofline above the text "THE SENSOR FACTORY" in a bold, dark blue, stencil-style font. A vertical dark blue line runs down the right side of the text.

THE SENSOR
FACTORY

Optimize industrial processes by innovative on-line sensing

Bring the laboratory to the process

Lab-on-a-chip

Wilco Dijkstra

w.dijkstra@sensor-factory.com

+31(0)6 15 209 889

Greenhouse fertilisation

Nutrients are important

On-line monitoring of **macro nutrients**

Cations

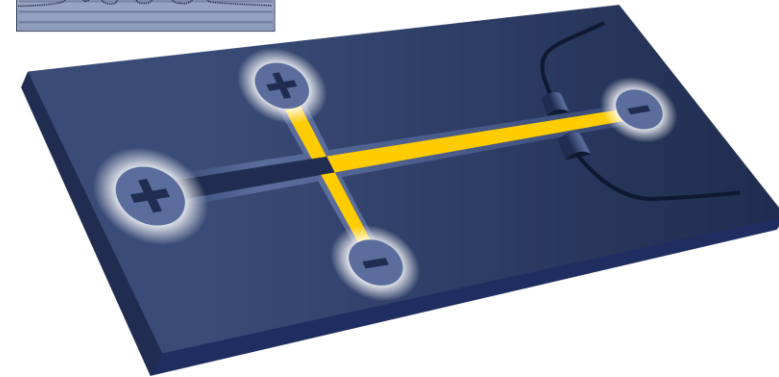
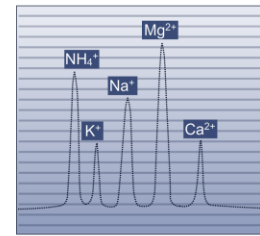


Anions



Measurement by **Lab-on-a-chip** with:

Microchip CE technology



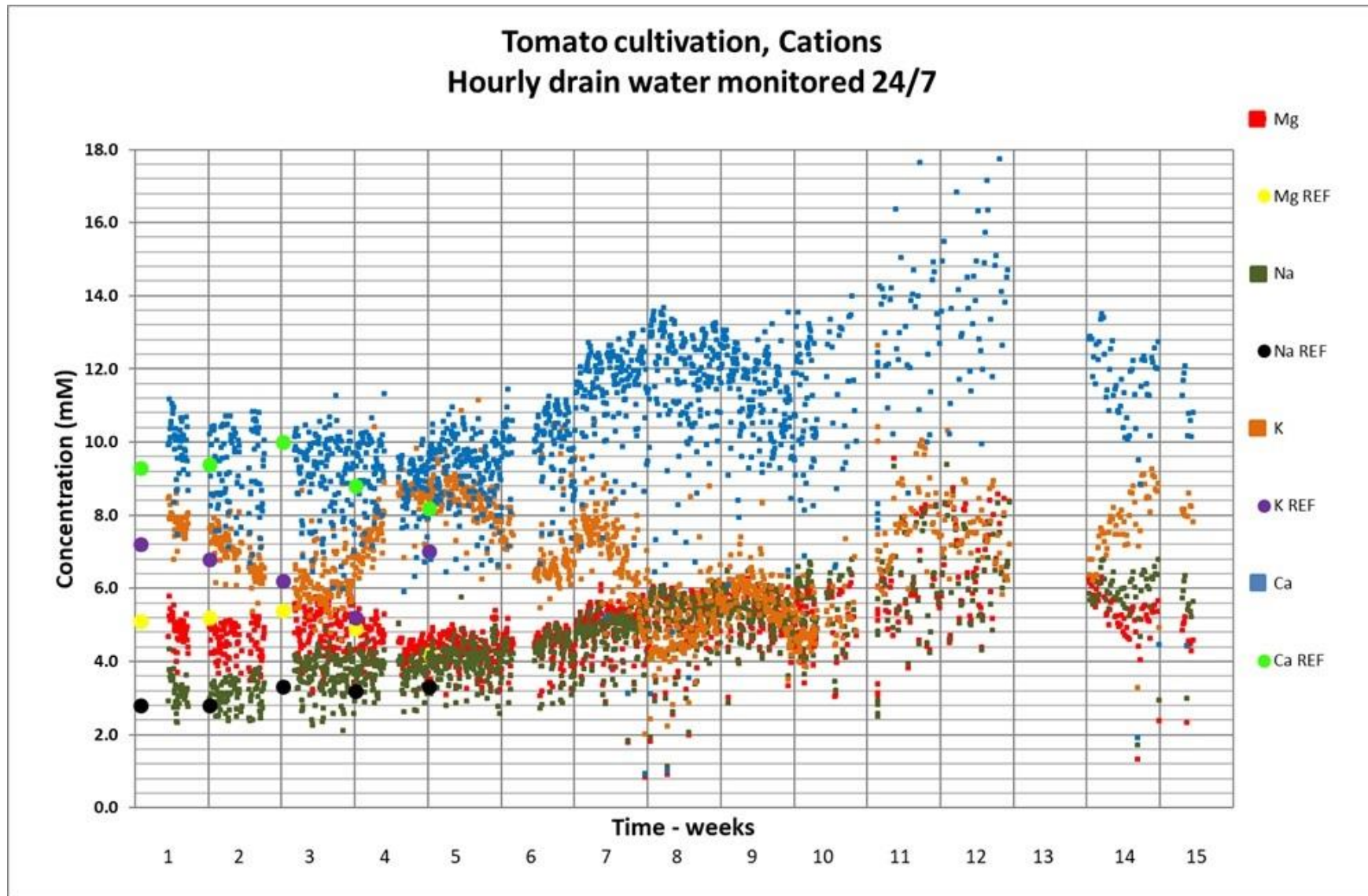
Lab-on-a-chip Microchip CE technology

- Capillary Electrophoresis on a chip
- Fast separation time (20 seconds)
- Total measurement of all nutrients in 10 minutes
- Integrated automated calibration
- Data output in concentrations
- Automatic sampling with filtration

- Proven technology in lab and field



Cation measurements on-line



Measurement in the greenhouse

Is hourly measurement of drain enough?

What about Irrigation?

What about Substrate?

Manual sample taking with one system at a greenhouse?



TSF idea

System on a trolley – what about the sample?

Automatic sampling by robotic arm



What's next .. ?

- Acceleration?
 - What is the value of ion specific measurement for greenhouse sector
- Why best step?
 - It is available, only how to use it properly
- What's needed?
 - Market commitment
- How to support?
 - Help to answer the value question

Thank you for the attention



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