DELTA
LIFE SCIENCE

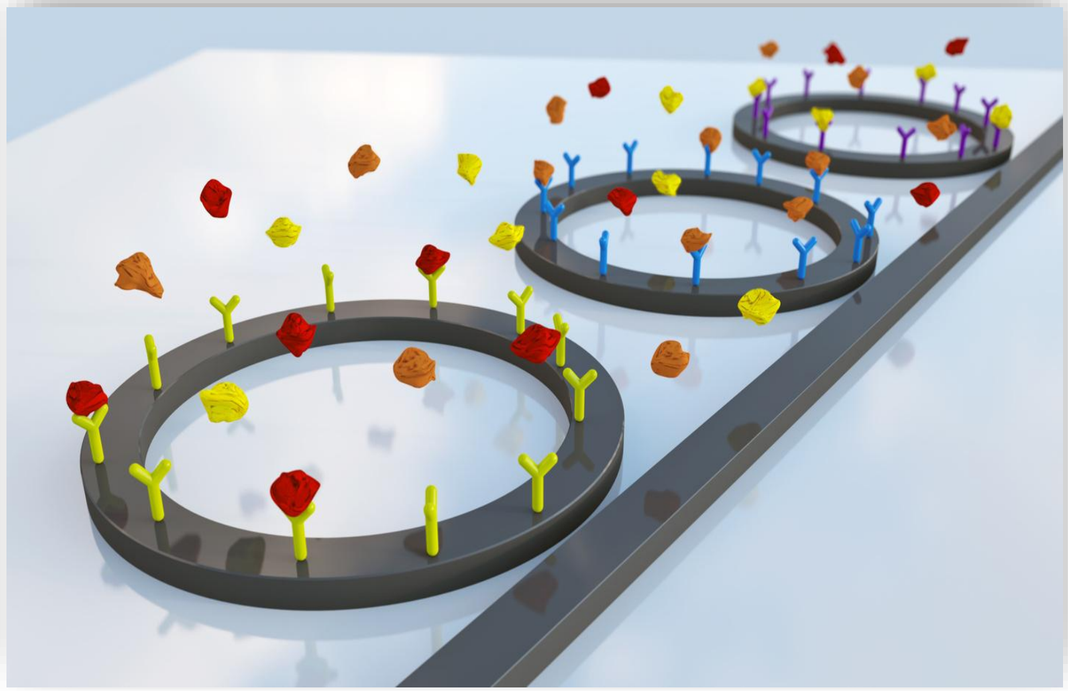
Life Sciences
Accelerated.

Bart de Boer, CTO

Delta Life Science at a Glance

- Biosensors for life-science research
- Spin-off from TNO (2018)
- Offices in Rotterdam (HQ) and Enschede
- Team of 20 fte
- Engineering, Wet Laboratory, Sales
- First product launched

The merits. Of photonic biosensors.

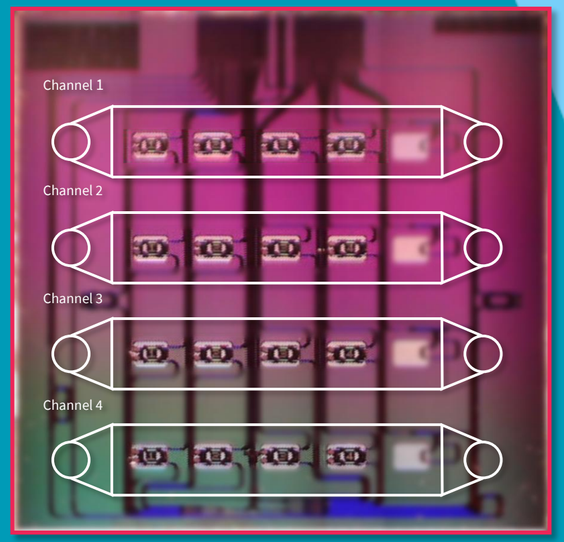


Impression: Biosensor

- ✓ **Label-free**
- ✓ **Sensitive**
- ✓ **Multiplexed**

inQuiQ instrument

- Passive PIC
- 16 sensors
- 4 channel flow cell
- 10 samples
- Regeneration

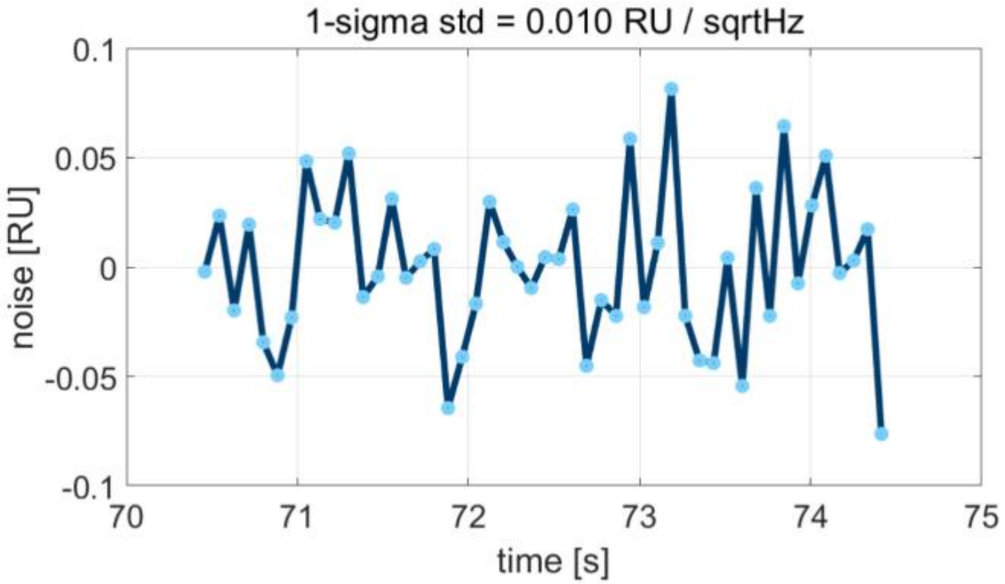


inQuiQ®

Sensitivity

A key decision making criterium, enabling:

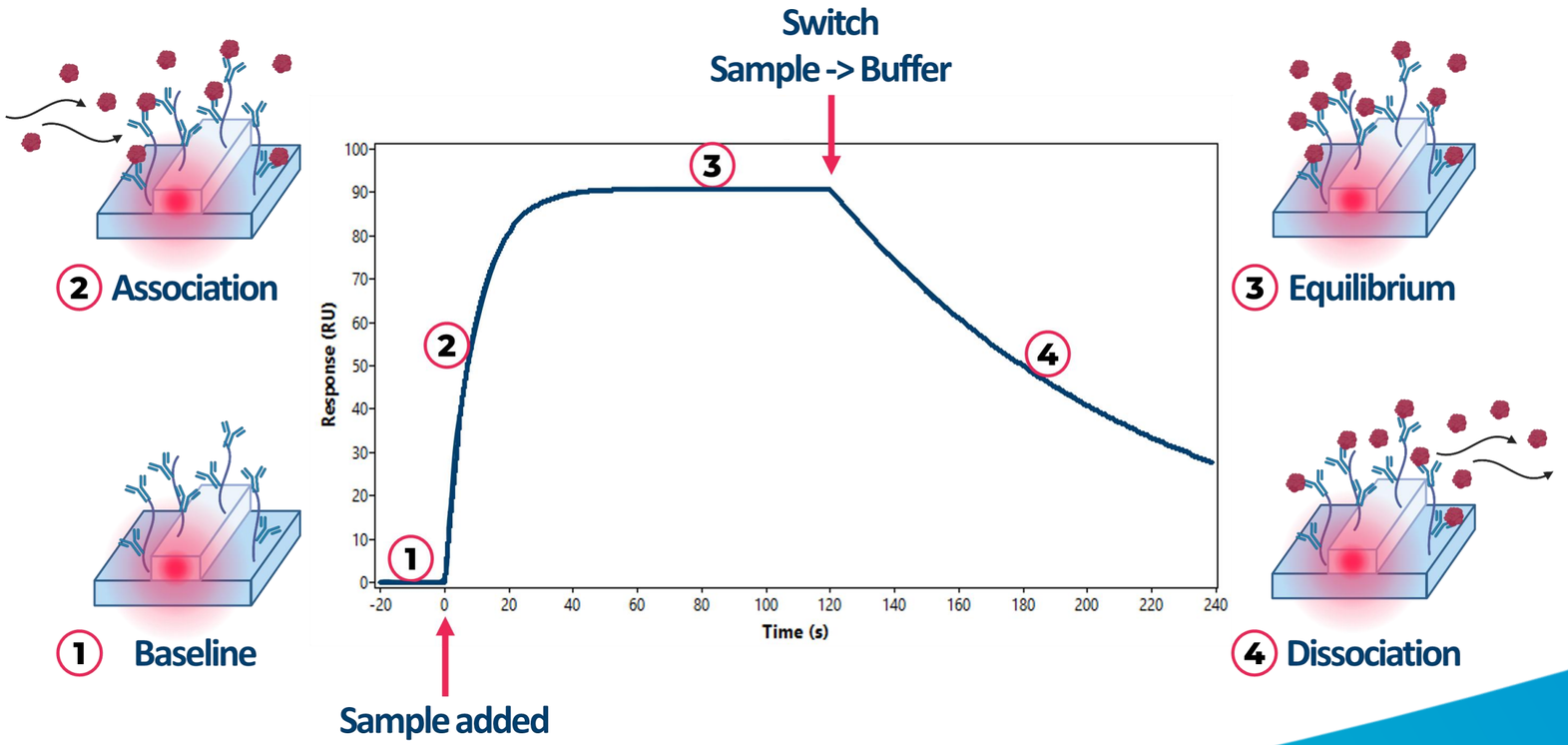
- Smaller molecules
- Lower concentrations
- Reduced sample consumption
- Reduced analysis time



Applications

Development of drugs and diagnostic tests

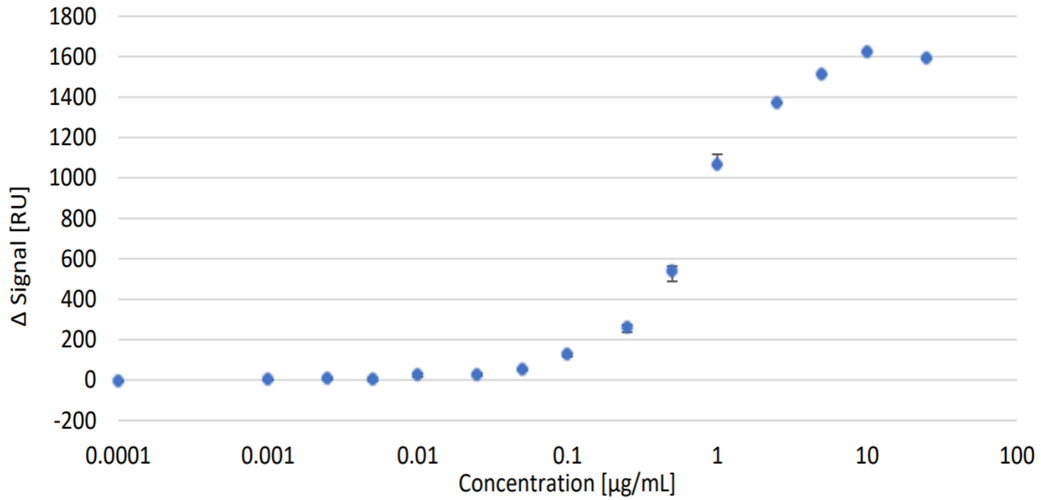
- Binding kinetics



Applications

Development of drugs and diagnostic tests

- Binding kinetics
- Multiplexed biomarker quantitation



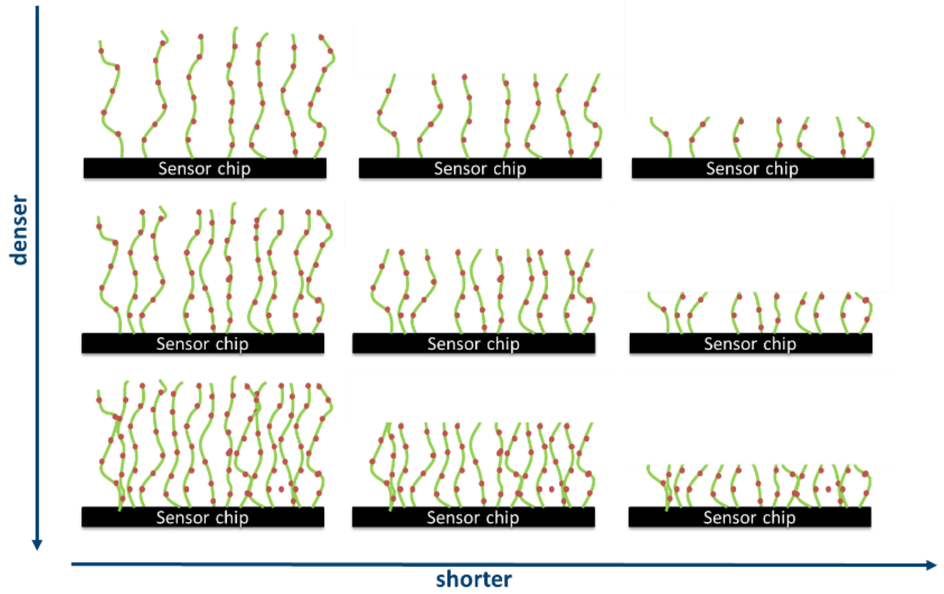
Product Roadmap

inQuiQ®

inQuiQ® 768

Future challenges

- Transfer price PICs
- Higher Sensitivity (ΔSignal/ΔRefractive index)
- Small footprint sensors
- Low Spread in Sensitivity inter/intra Chip/Batch
- Yield and Robustness (every sensor works)
- Functionalisation (wafer-scale)



Functional groups for biomolecule immobilization

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