

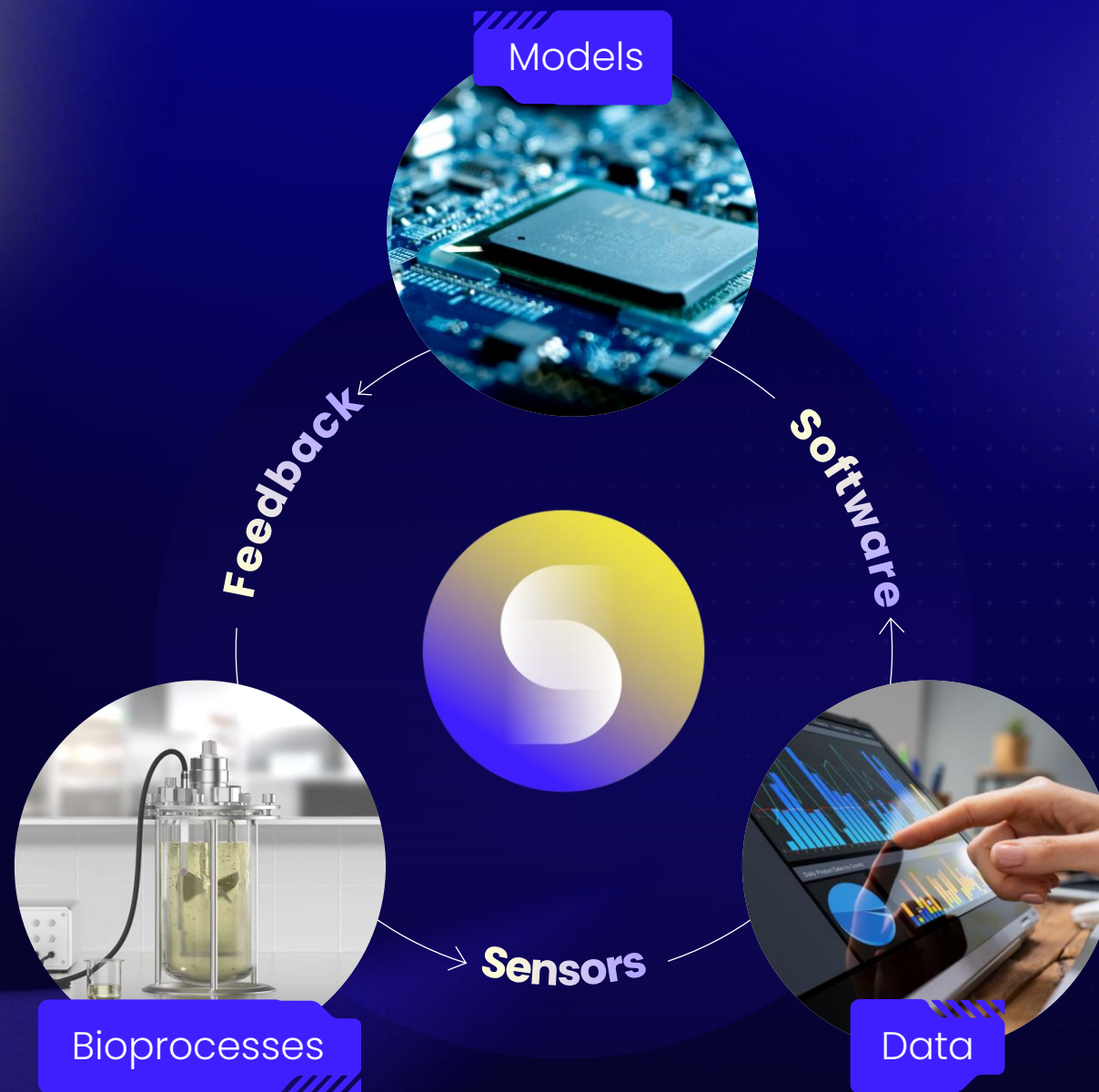


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**Real-time bioprocess monitoring
with a multi-parameter sensor**



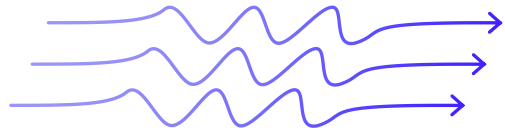
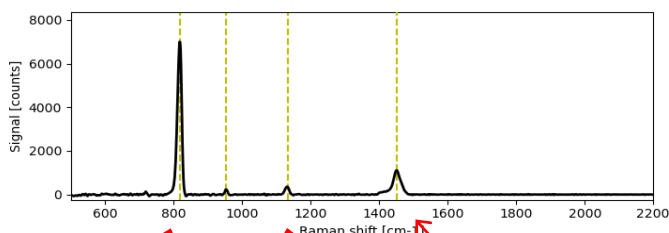
How to improve bioprocessing development?



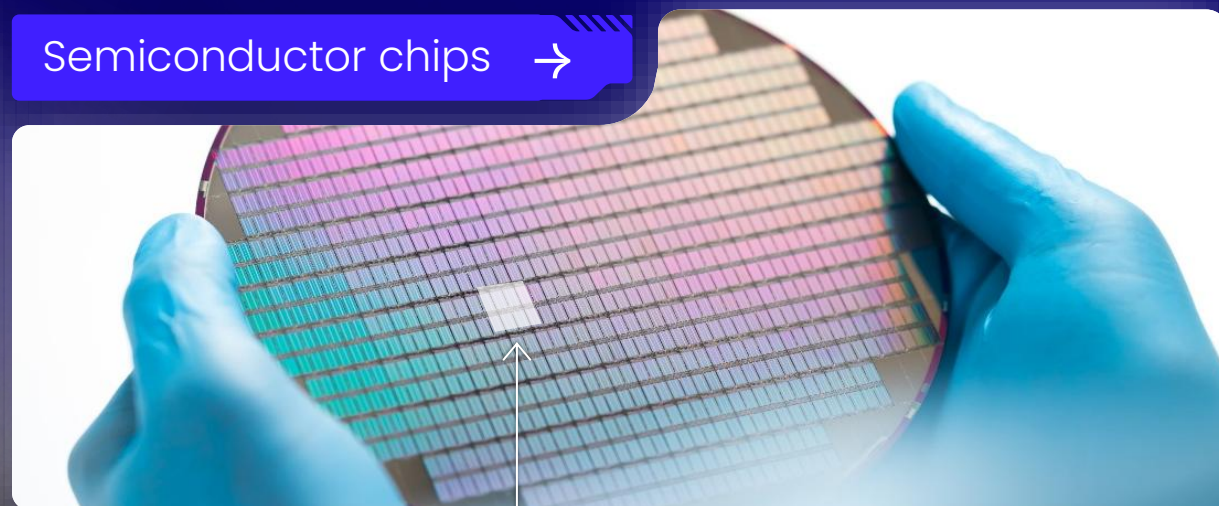


The best of both worlds, optics & chips...

Optical sensing →



Semiconductor chips →

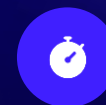


IP portfolio | including 2 MIT & 3 InSpek exclusive patents

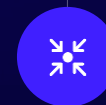
... to build the first on-chip multi-molecular sensor

1 Cost & time saving in process development

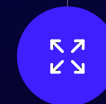
2 Analytical performance in process monitoring



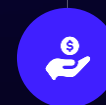
In-line & Real-time



Miniaturized For all process scales



Multiplexing Several measurement points in parallel



Affordable COGS 10-100x lower

Our system

Control unit

+

Microchip sensor

+

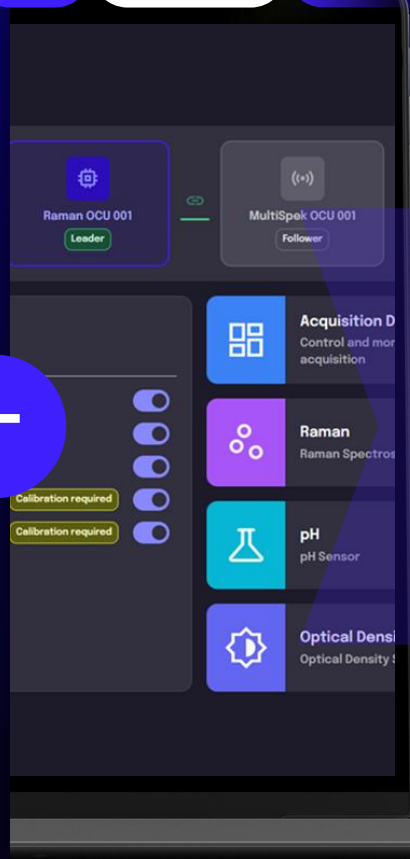
Software



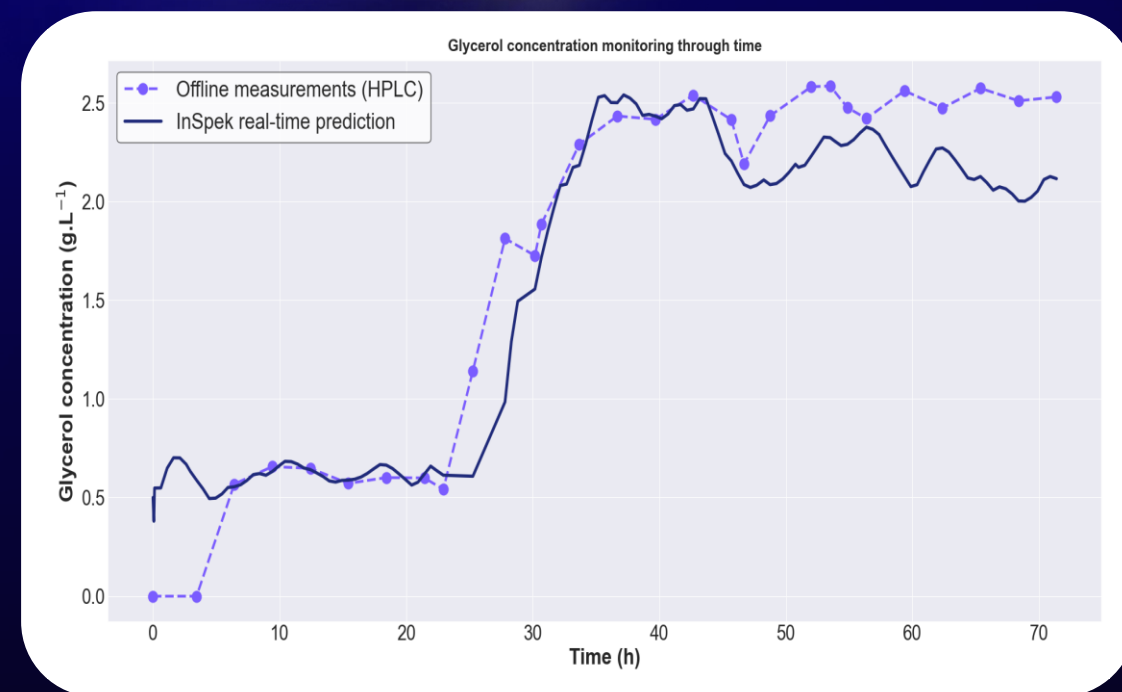
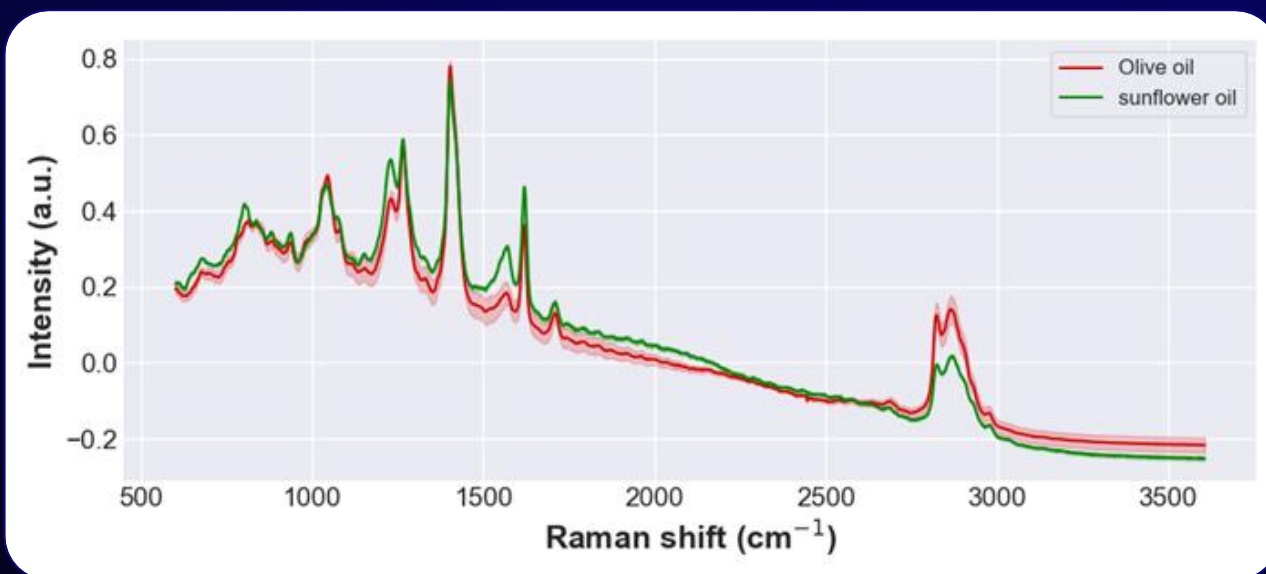
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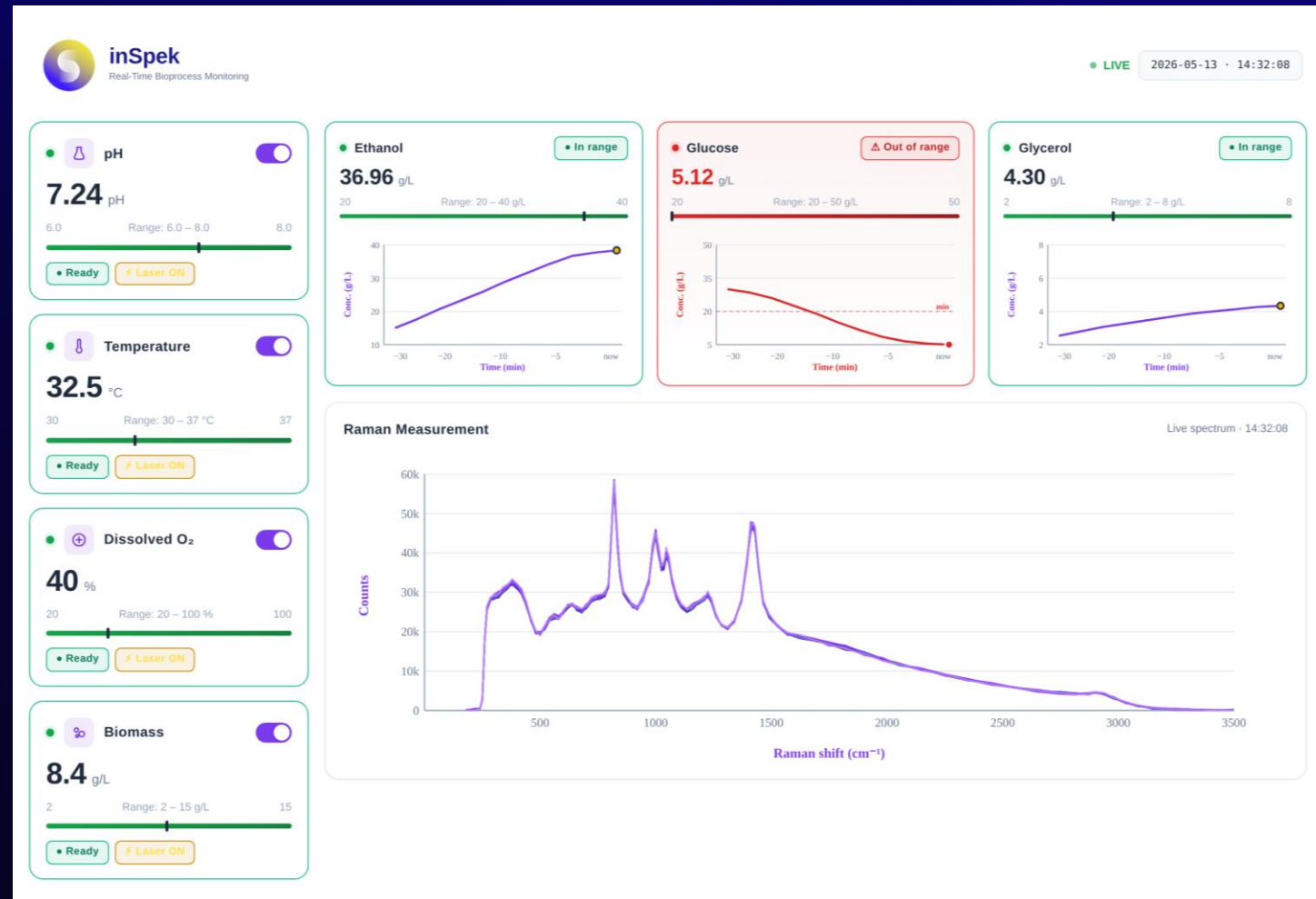
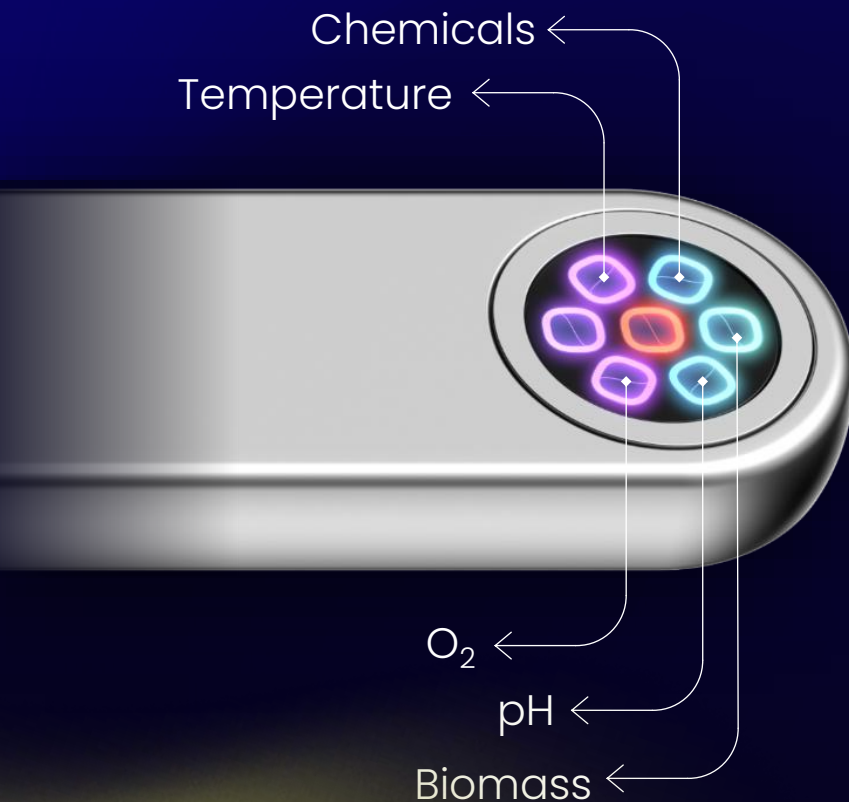
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Use cases: oil differentiation & glycerol monitoring

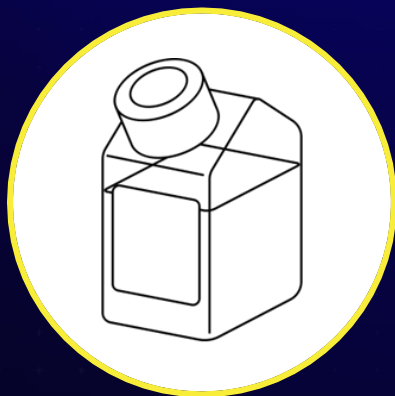


Beyond chemicals: a multi-sensor probe to track all process parameters



How we can collaborate for pilot testing

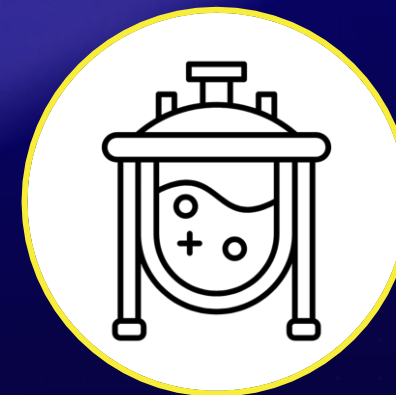
At InSpek



Molecule(s) in culture medium

1. List of interesting molecules
2. Measurements of dilutions
→ LoD, range, and precision

On-site



In bioprocess

In-line measurements
alongside reference
measurements

Join our waiting list



Enabling Biomanufacturing 4.0
with comprehensive, high-quality data.

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