

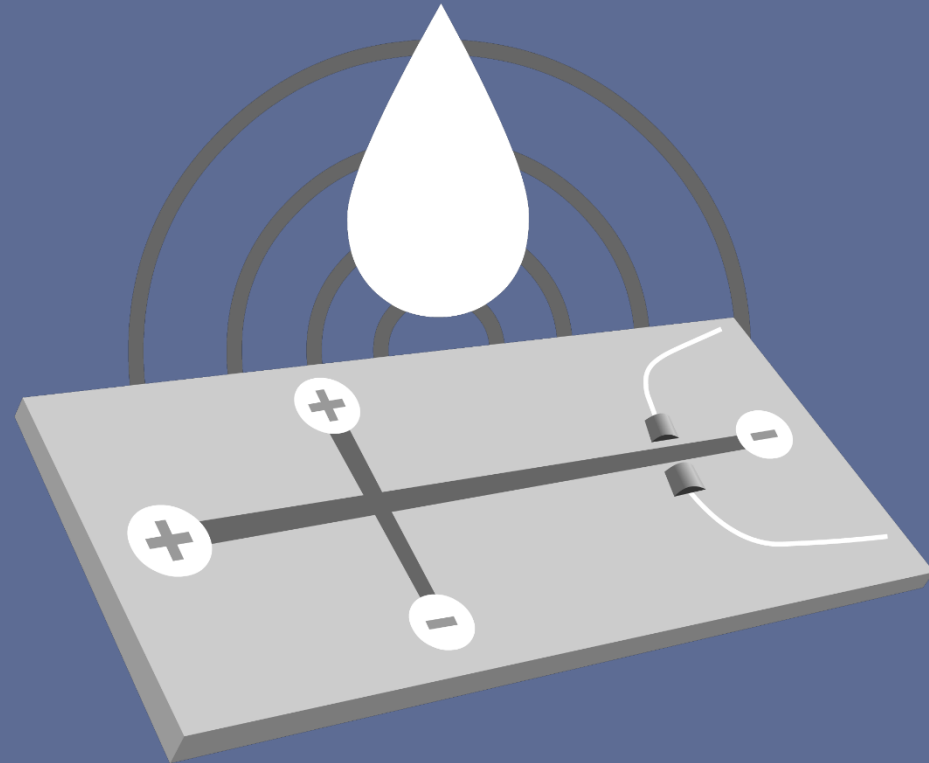
The hard road of the upscaling of sensors, from R&D to Production

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06 15 209 889

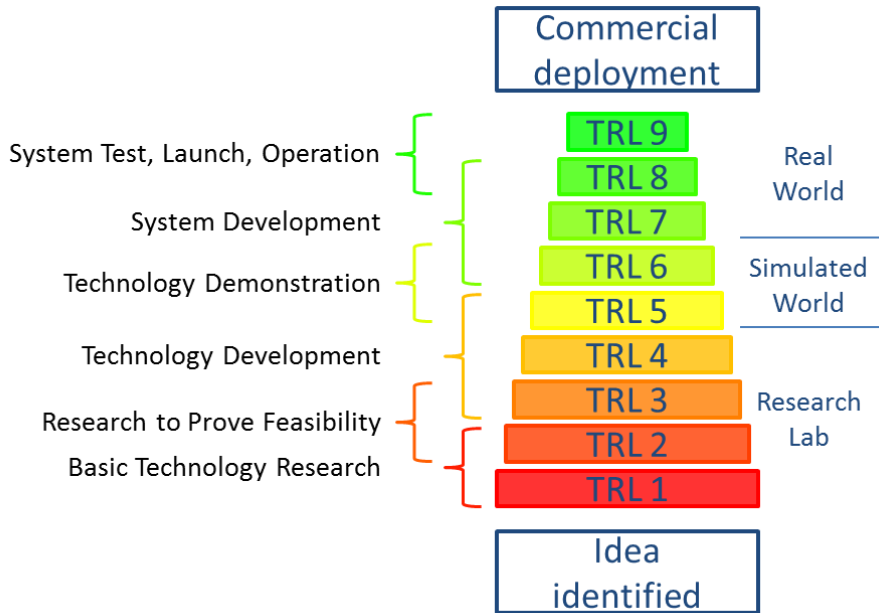
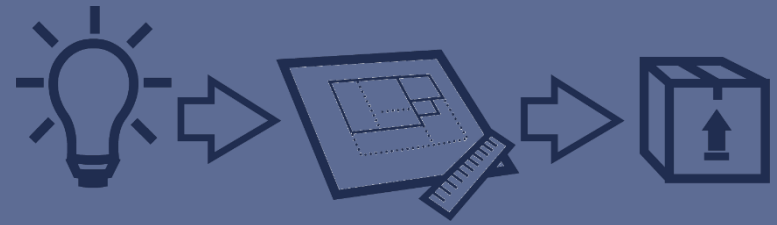
TSF

TSF develops **sensor technology** and **measurement instruments** to examine process liquids.

To **innovate** and **improve processes** for industry and agriculture.



TRL



- Actual system proven in operational environment
- System complete and qualified
- System prototype demonstration in operational environment
- Technology demonstrated in relevant environment
- Technology validated in relevant environment
- Technology validated in lab
- Experimental proof of concept
- Technology concept formulated
- Basic principle observed

Imagine..

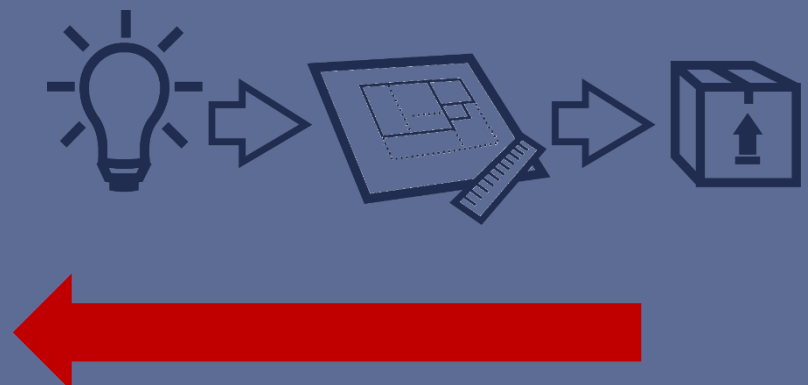


Idea



Proof of Principle

Route



User specification
Original documentation



Changes model & drawing



Produce documentation



Physically produce 3-fold

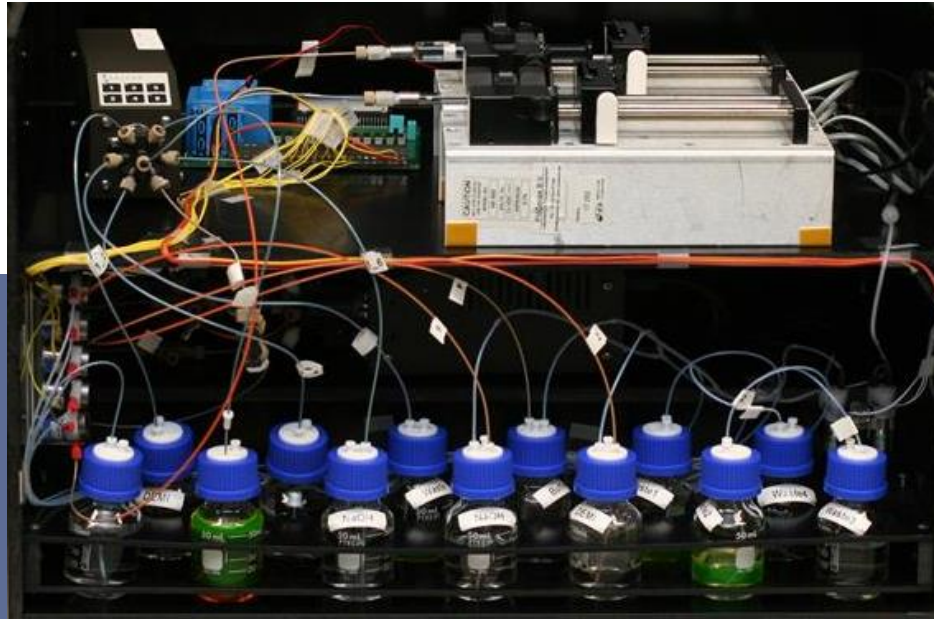


Test and duration-test

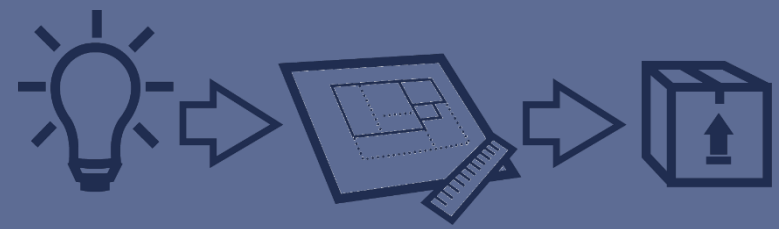


Production documentation

Example; not defined specifications



Route



User specification
Original documentation



Changes model & drawing



Produce documentation



Physically produce 3-fold



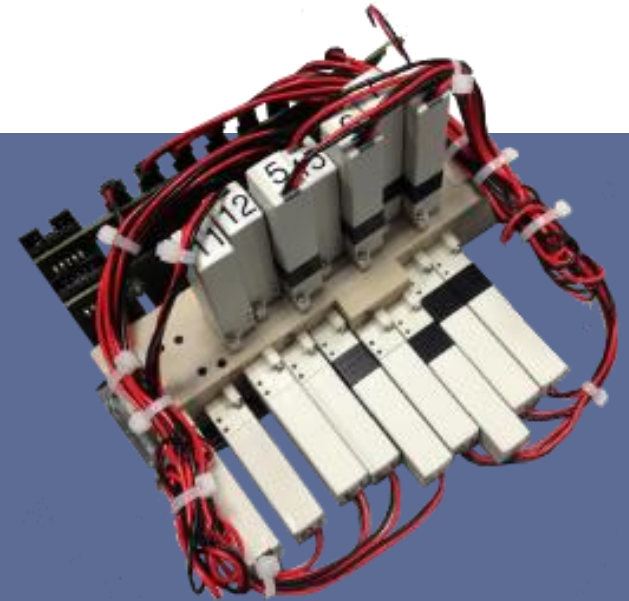
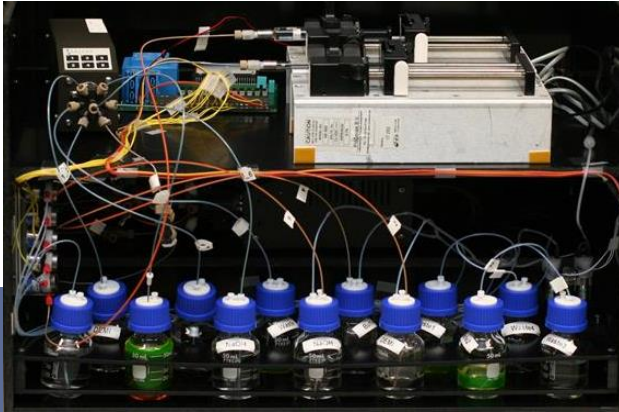
Test and duration-test



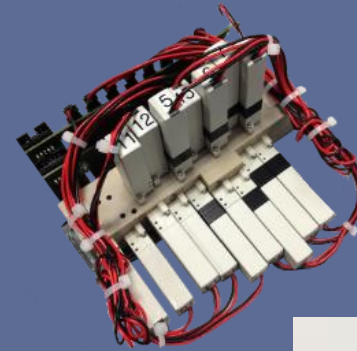
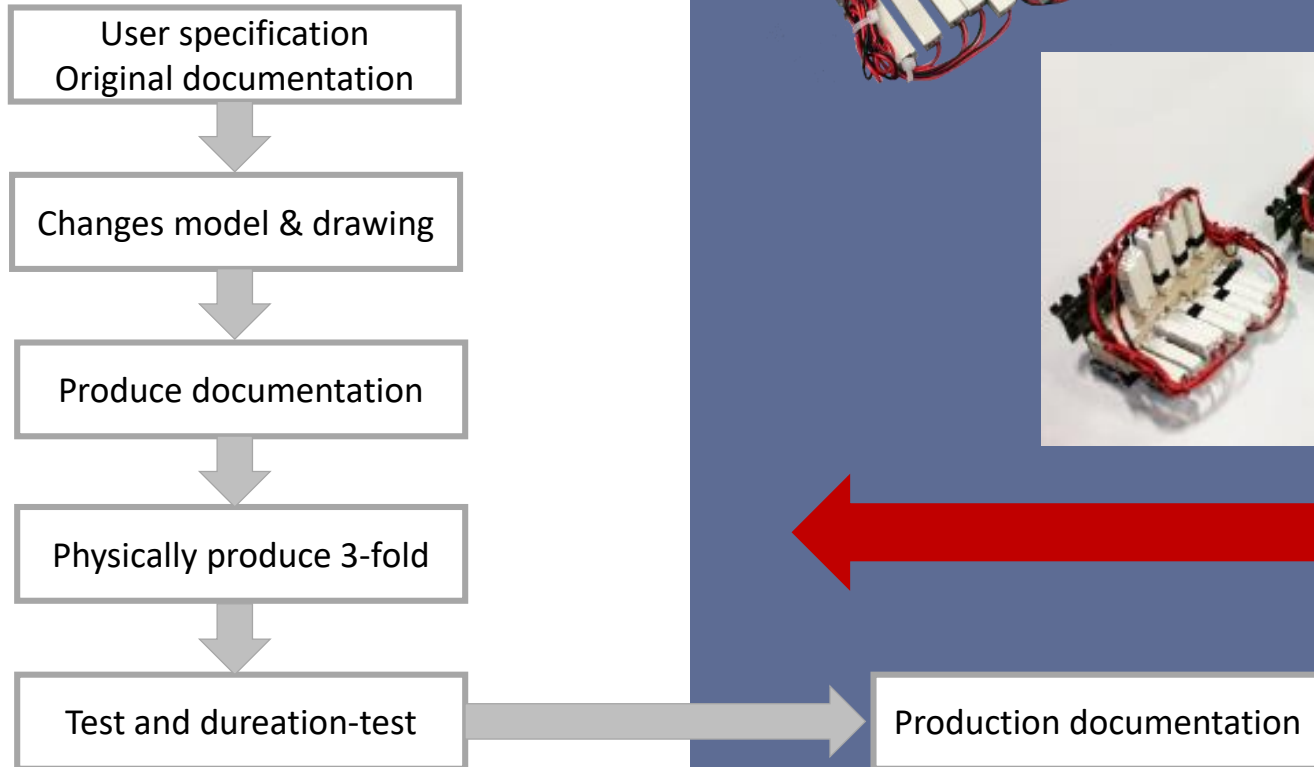
Production documentation



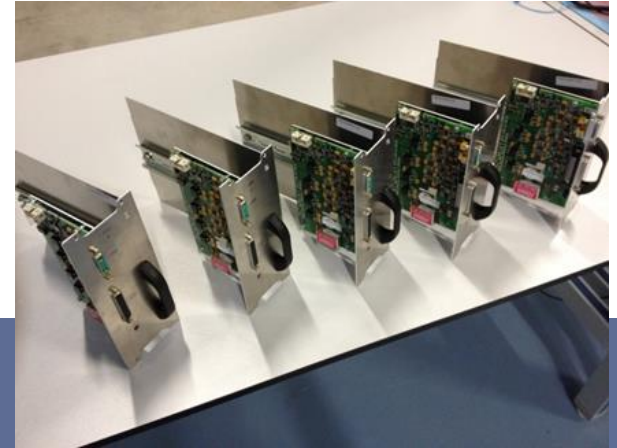
Example; Change the model



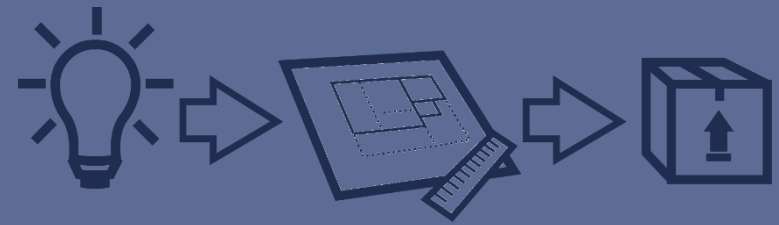
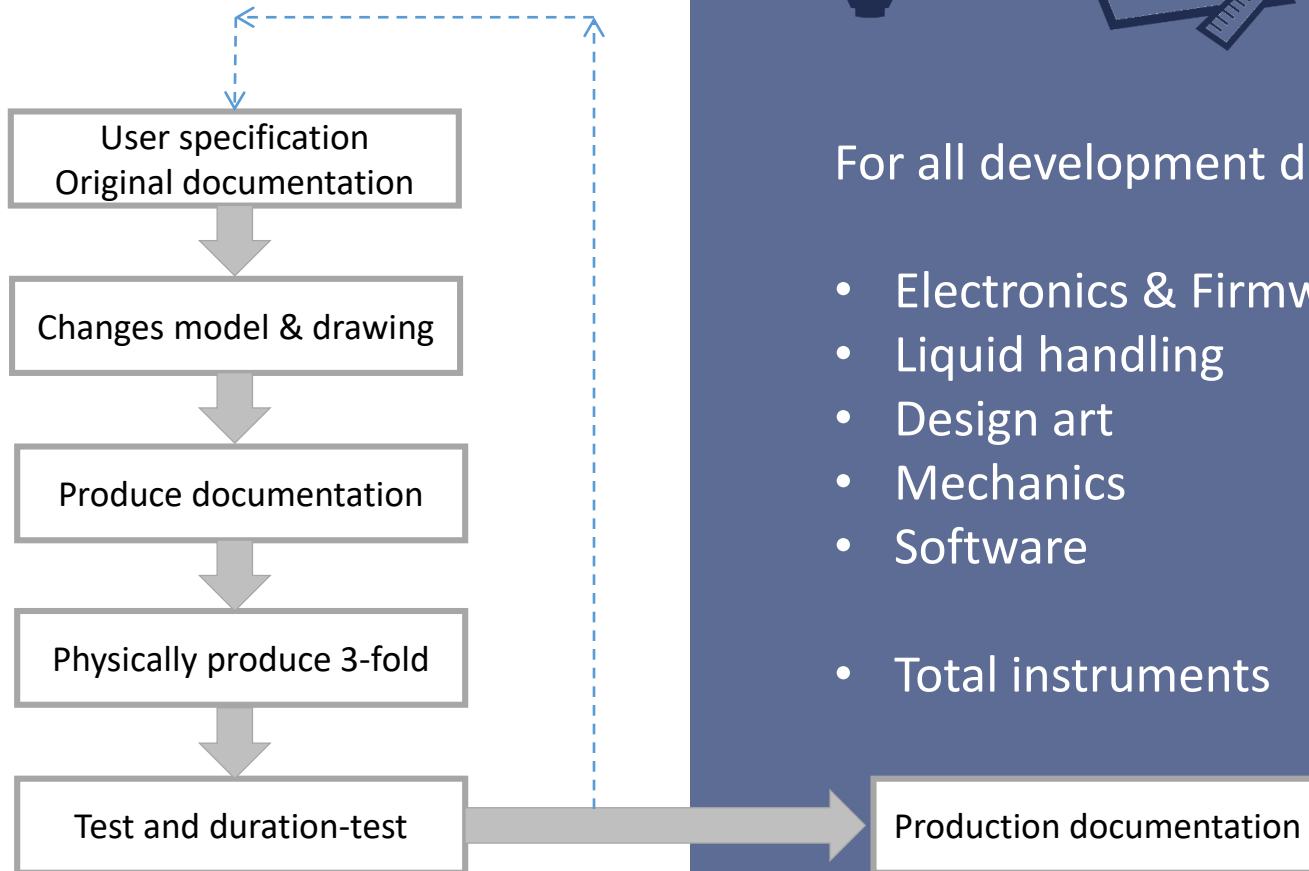
Route



Example; electronics models



Route



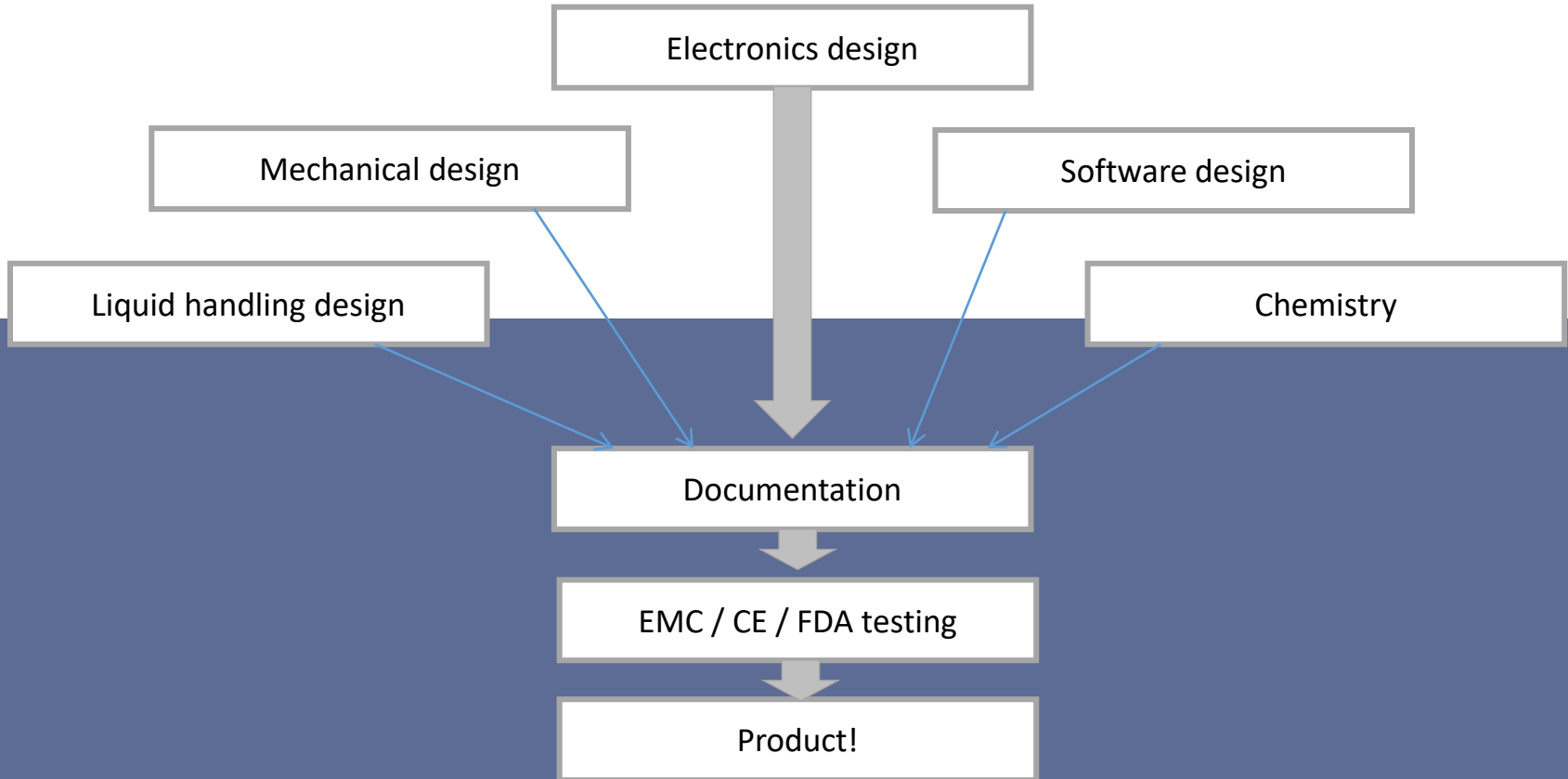
For all development disciplines!

- Electronics & Firmware
- Liquid handling
- Design art
- Mechanics
- Software

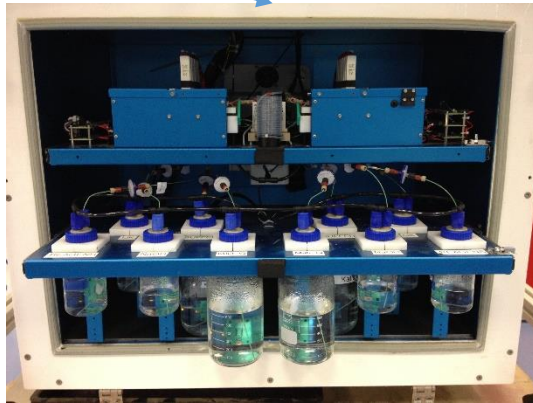
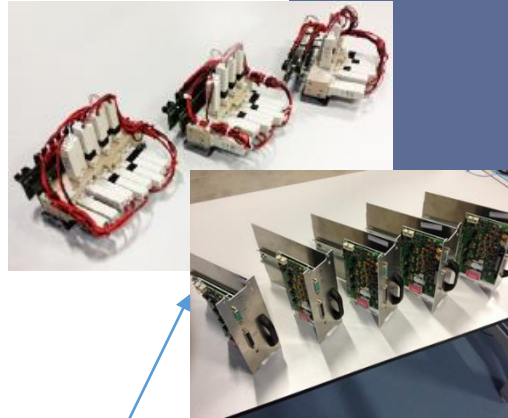
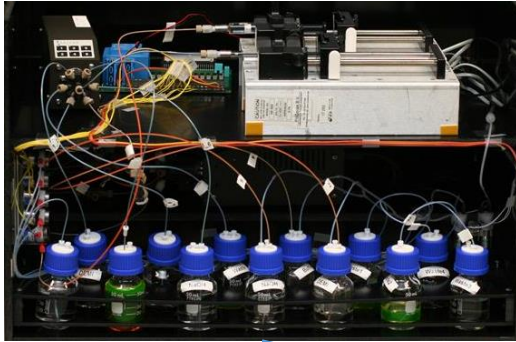
- Total instruments



Product Documentation!!



Example of the road of upscaling



1.5 Years

