

Robotic Process Automation: on the Continuity of Applications Development at SOLEIL

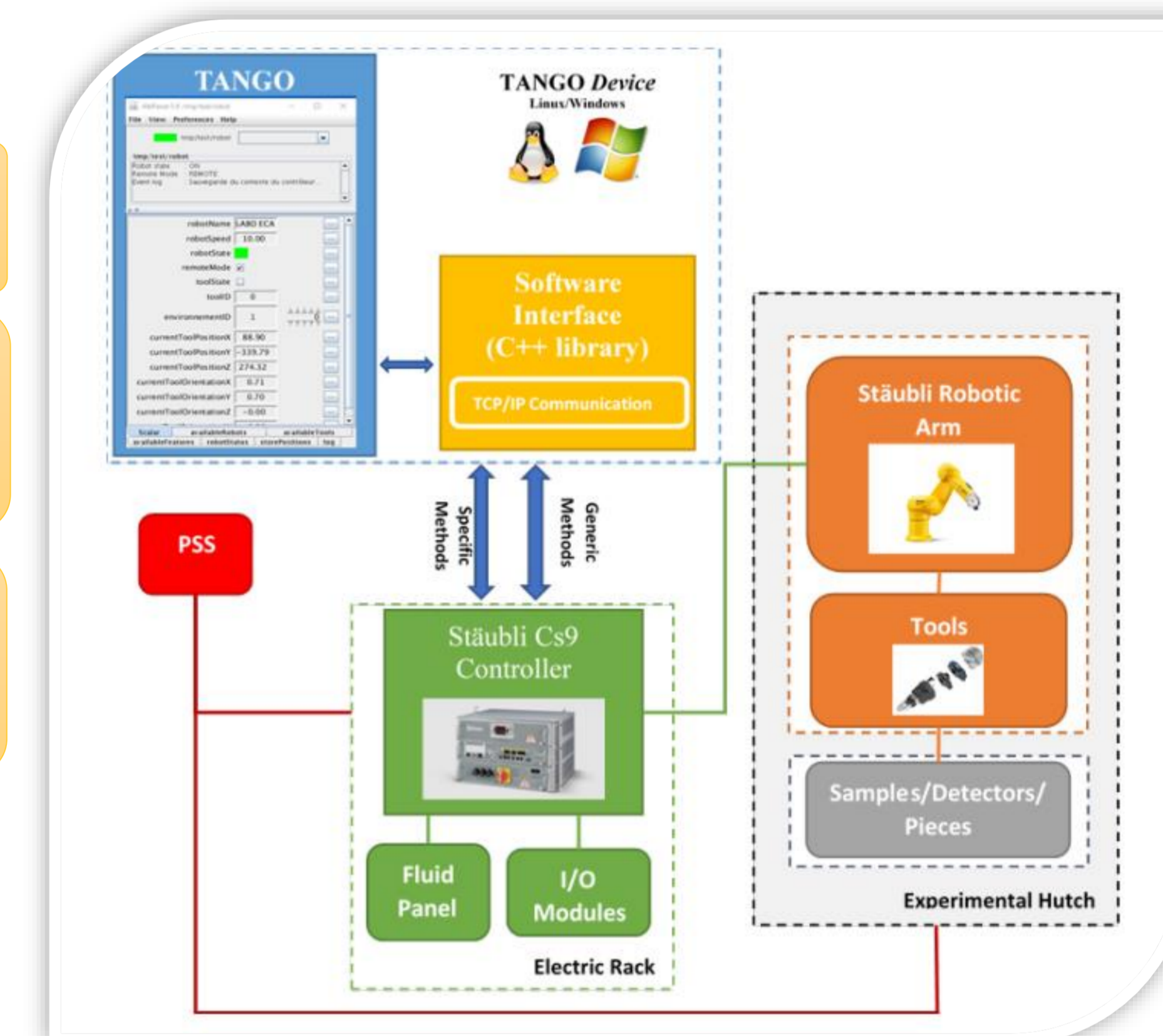
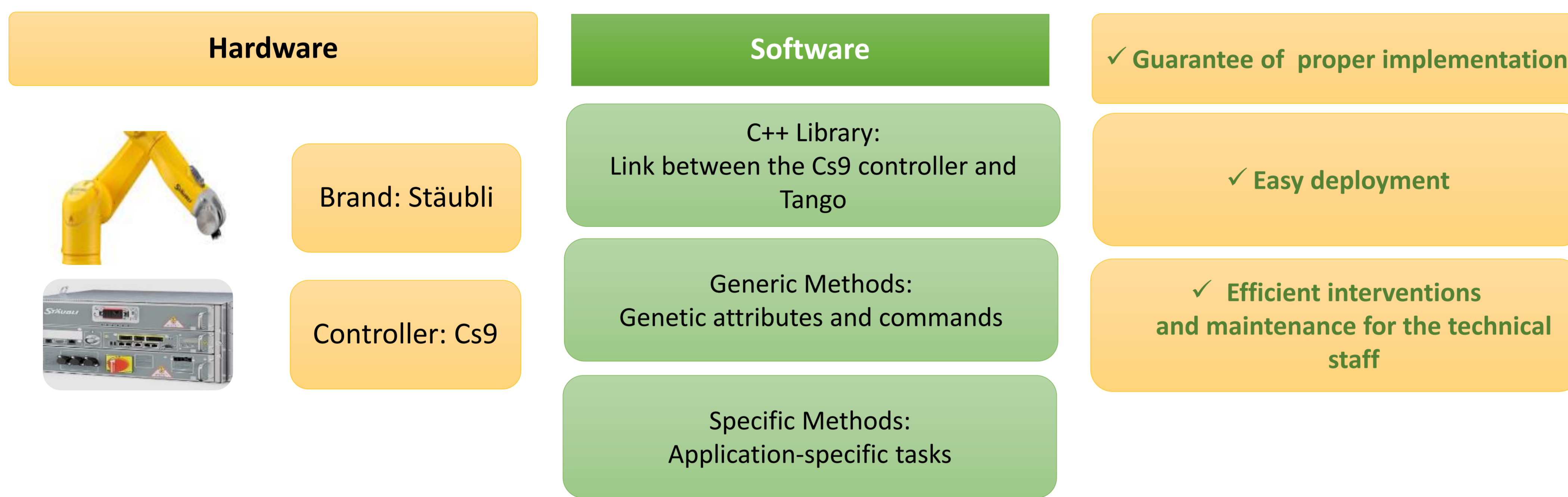
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ABSTRACT

For some years now SOLEIL has developed and put into operation robotic applications, using 6-axis robotic arms, to automate some of its beamlines and some processes of magnetic measurements. In the last year, SOLEIL has been working on the development of two new robotic applications, having thus continuity in the development of applications using its robotic standard. This paper describes these two new applications that are being developed to automate the injection of liquid samples for the SWING beamline and to automate the mechanical and magnetic adjustment of the modules that compose an insertion device.

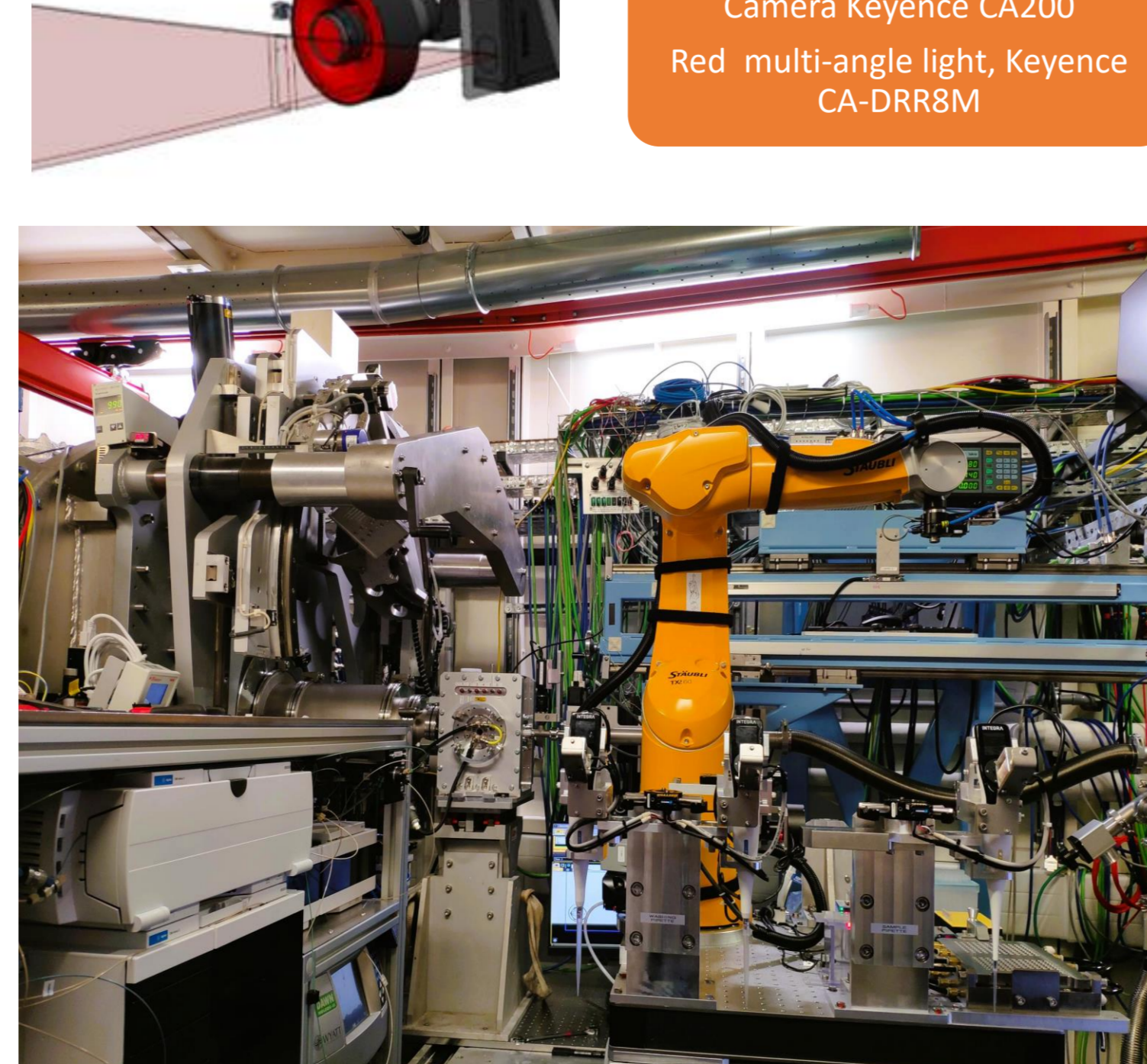
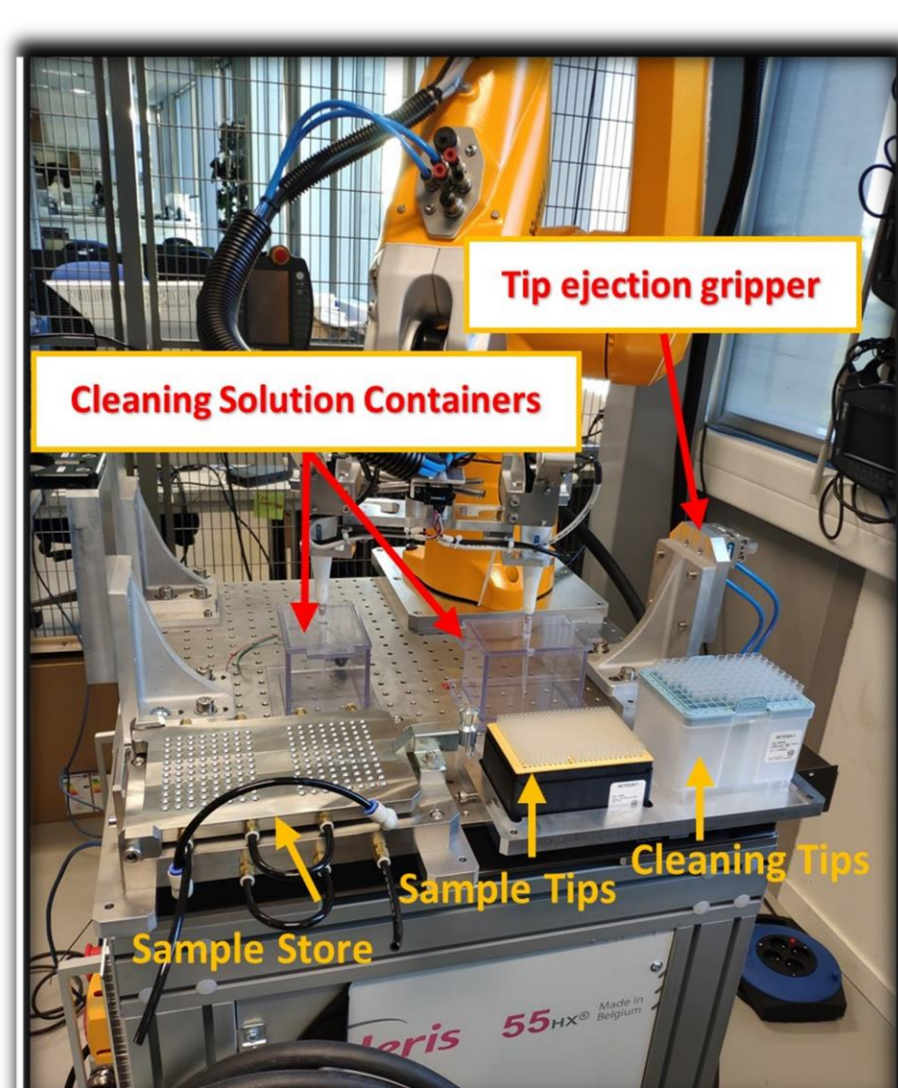
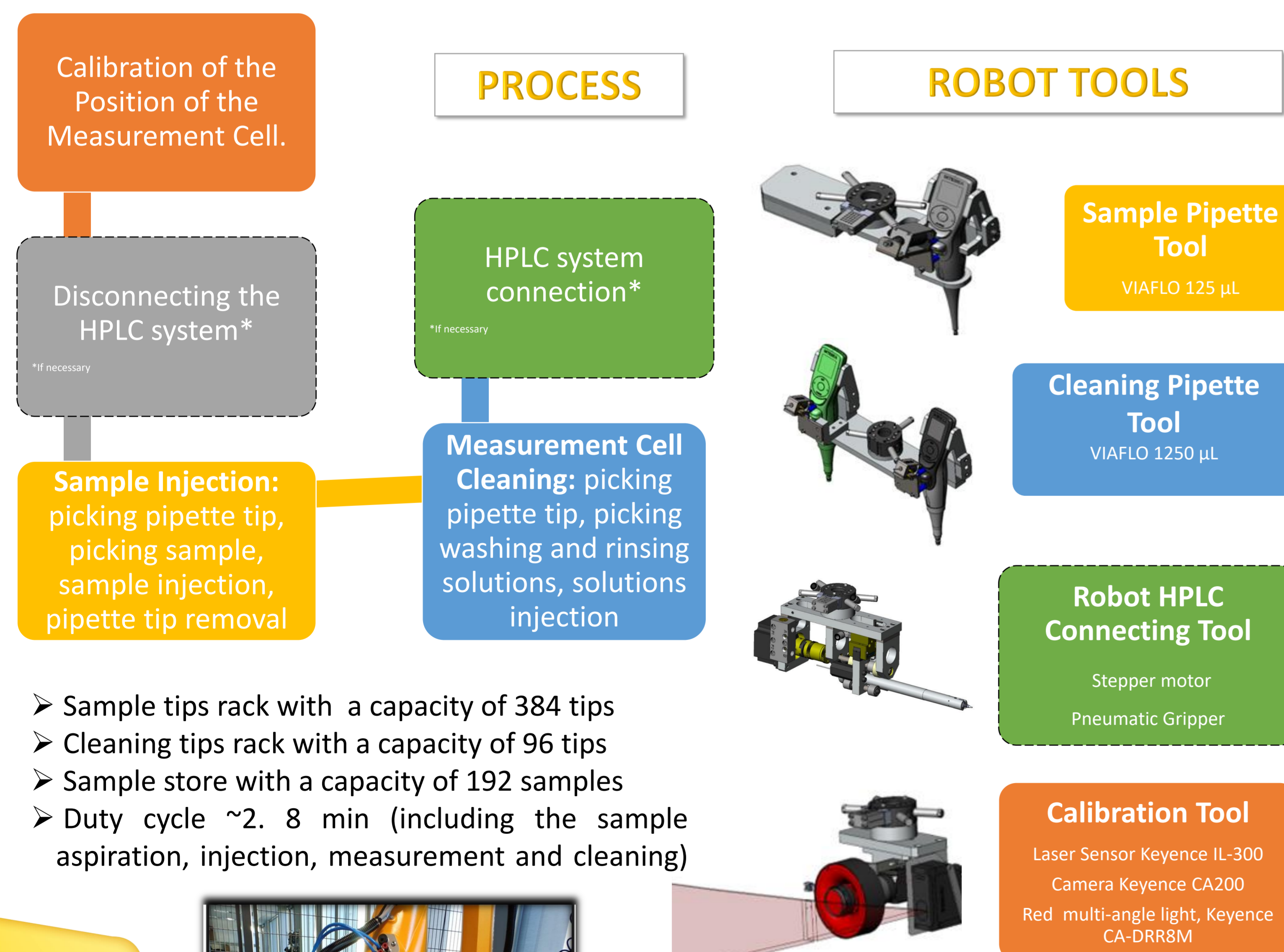
6 axis Robot Standardization

This standardization defines a robotic standard (6 axis robot arms) on both hardware and software.



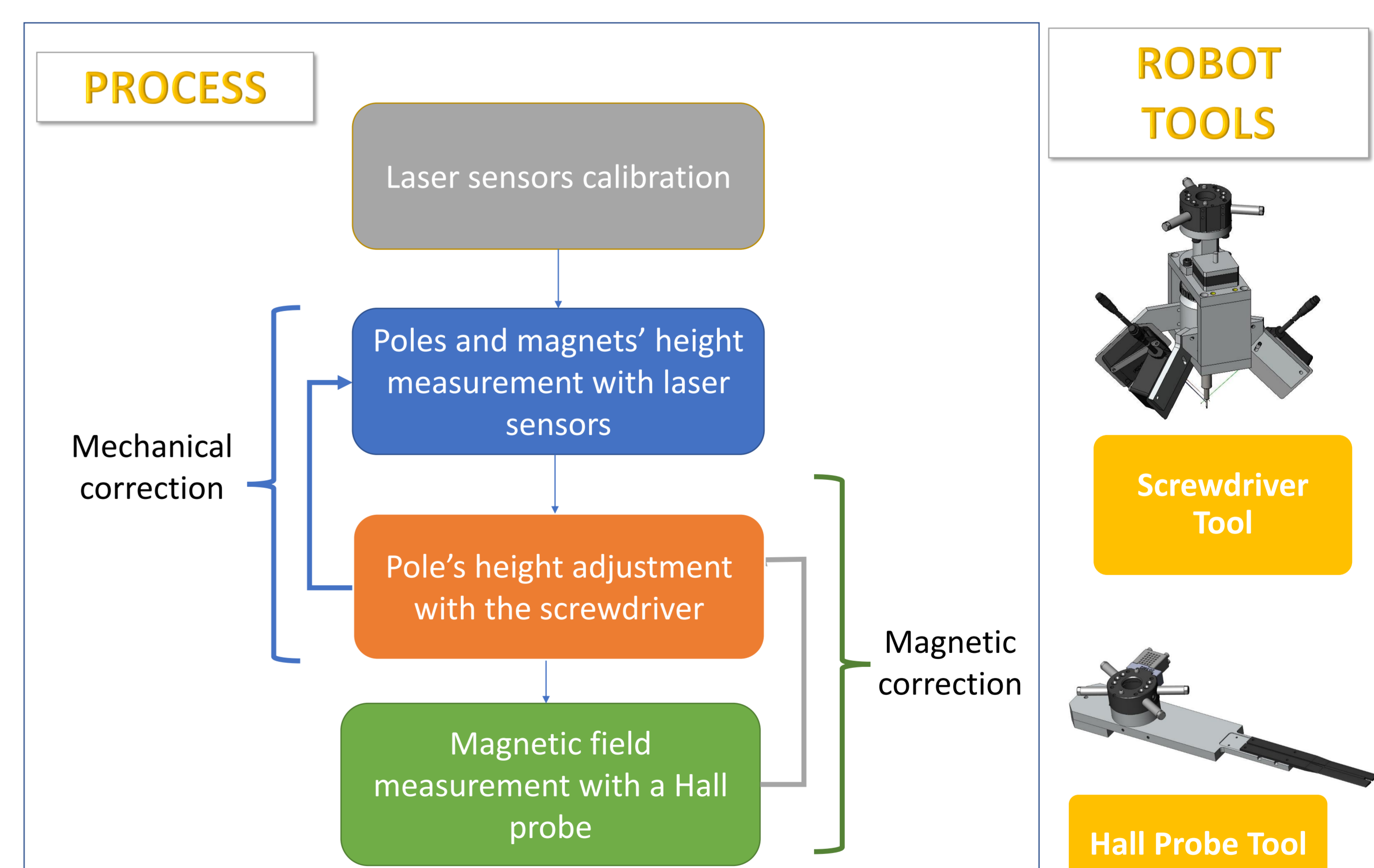
PIPETTING APPLICATION

Pipetting robot for BioSAXS (Biological Small-Angle X-ray Scattering) experiments.



ROBOTIC MAGNETIC MEASURING BENCH FOR INSERTION DEVICES

Mechanical and magnetic correction of the magnet modules.



Preliminary Results

