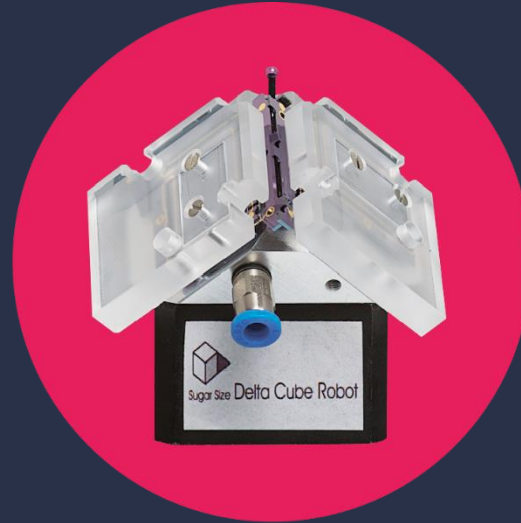


Access to pilot lines

*CTO Day
10.11.2020*

*Christian Bosshard, VP CSEM, Head FA
Photonics*

CSEM mission



Development and transfer of world-class (micro-)technologies to the industrial sector – in Switzerland, as a priority – in order to reinforce its competitive advantage.

- Cooperation agreements with established companies
- Encouraging the creation of start-ups

Photonics @ CSEM focuses on

- **Integrated** photonics
- Novel optical **elements** and **systems**
- Photonics-based **systems**
- High **performance** laser sources and **laser-based** instruments and processing tools

2

**Complete solutions from components to the
integration & packaging of optoelectronic systems**

EU Pilot lines

- Launched by the European Commission as Photonics Public Private Partnership
- Aim: help companies take photonics technologies from lab into market
- Examples include



- Details see: <https://www.swissphotonics.net/home?se=past>

EU pilot line Phabulous



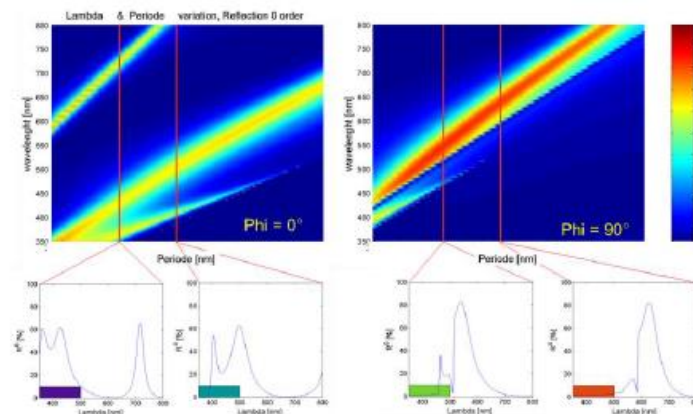
Customer position

- Development phase
- Up-scaling phase

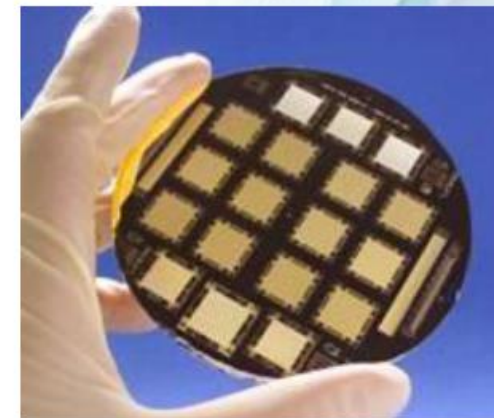
MedPhab offering

- Designs for concepts
- Designs for manufacture
- Component manufacture
- Device integration
- Characterization

Photonics simulation

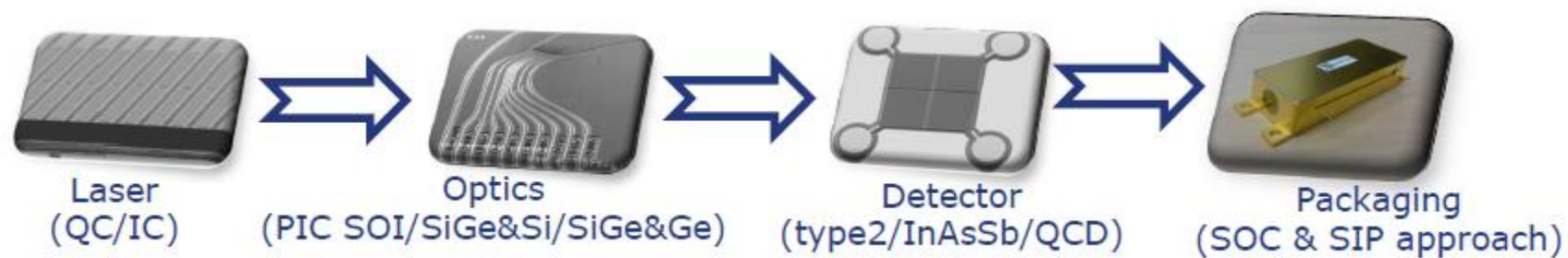


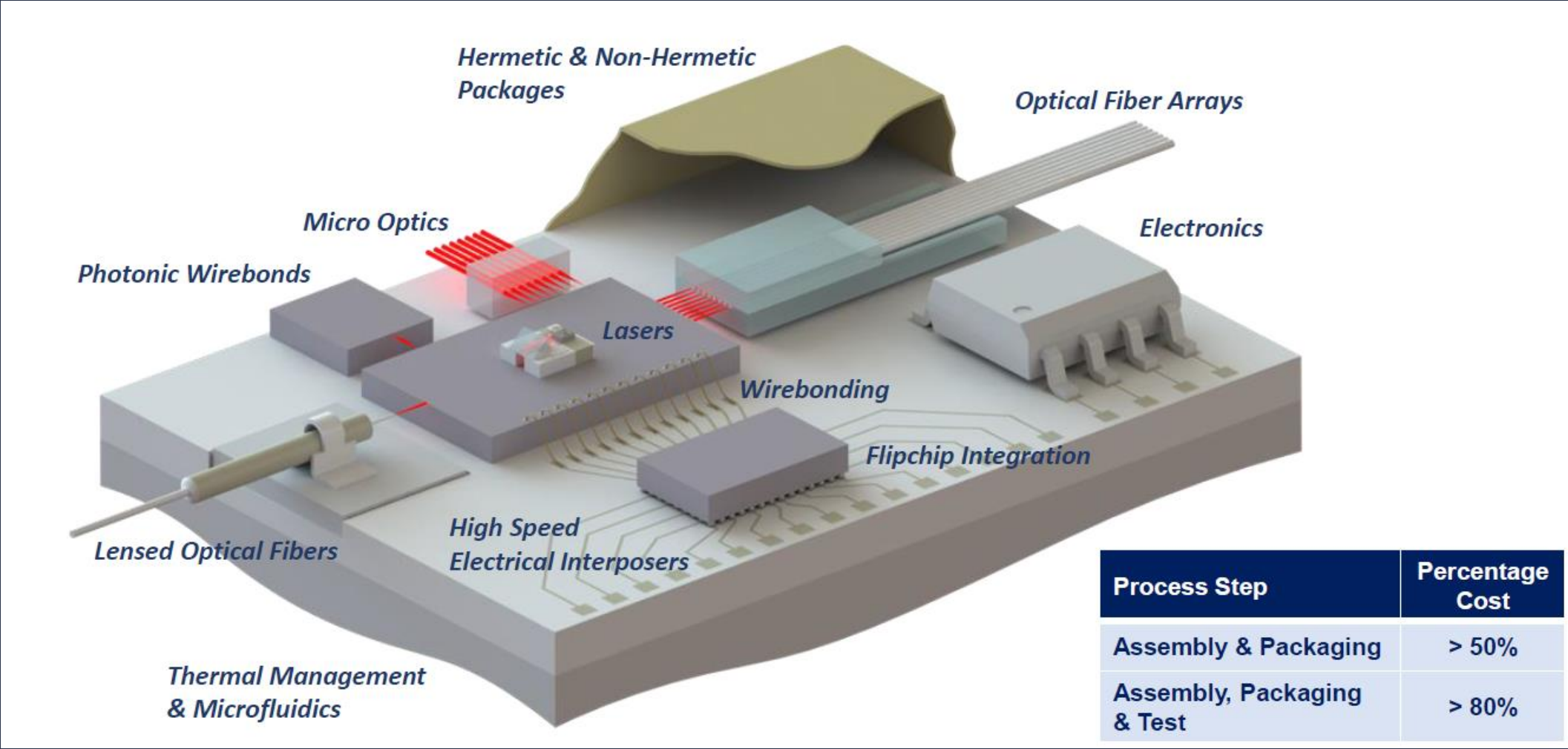
Prototyping



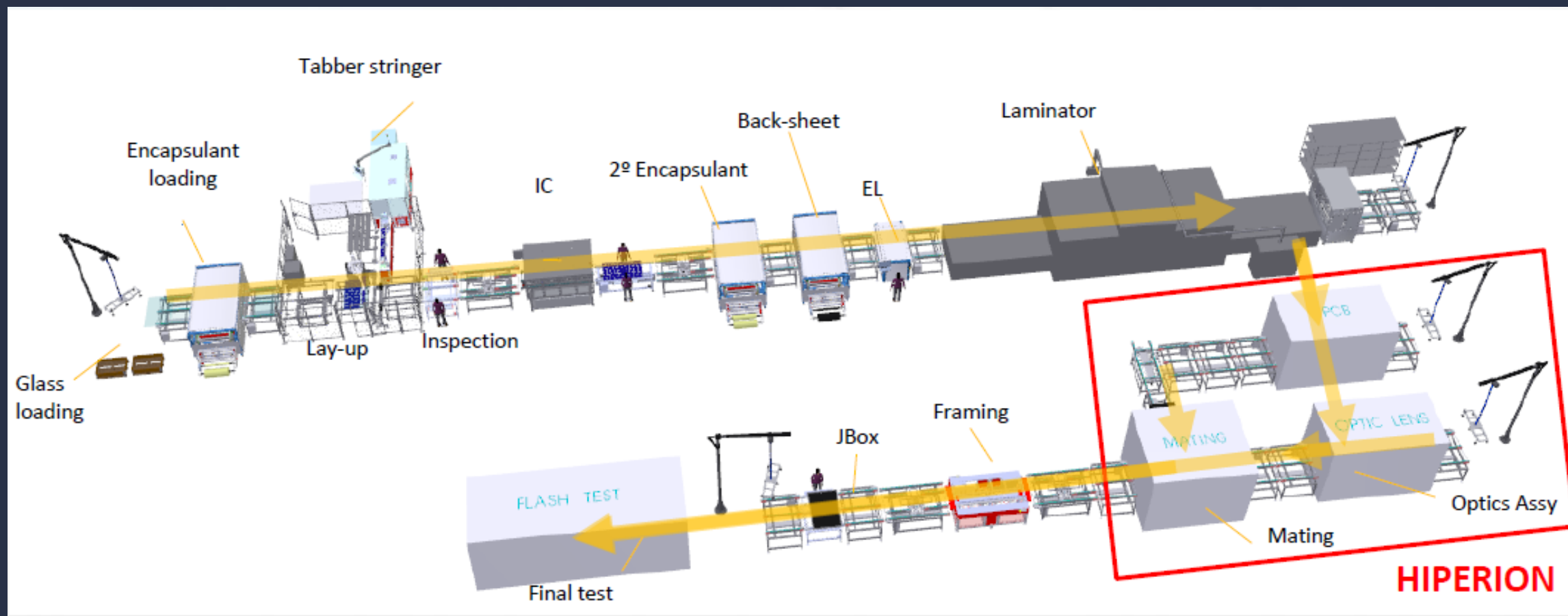
Pilot Production







HIPERION



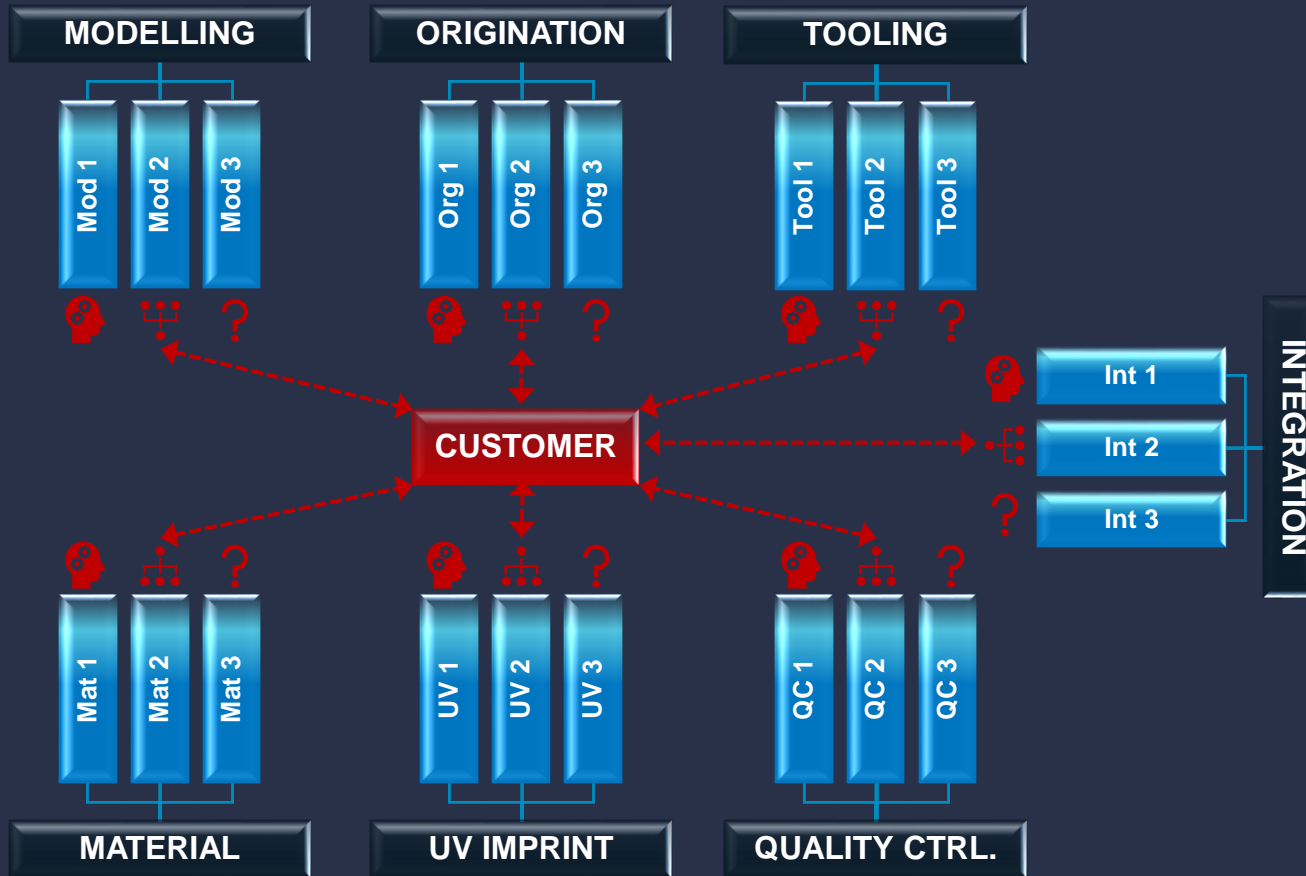
Pilot lines are decentralized

Phabulops

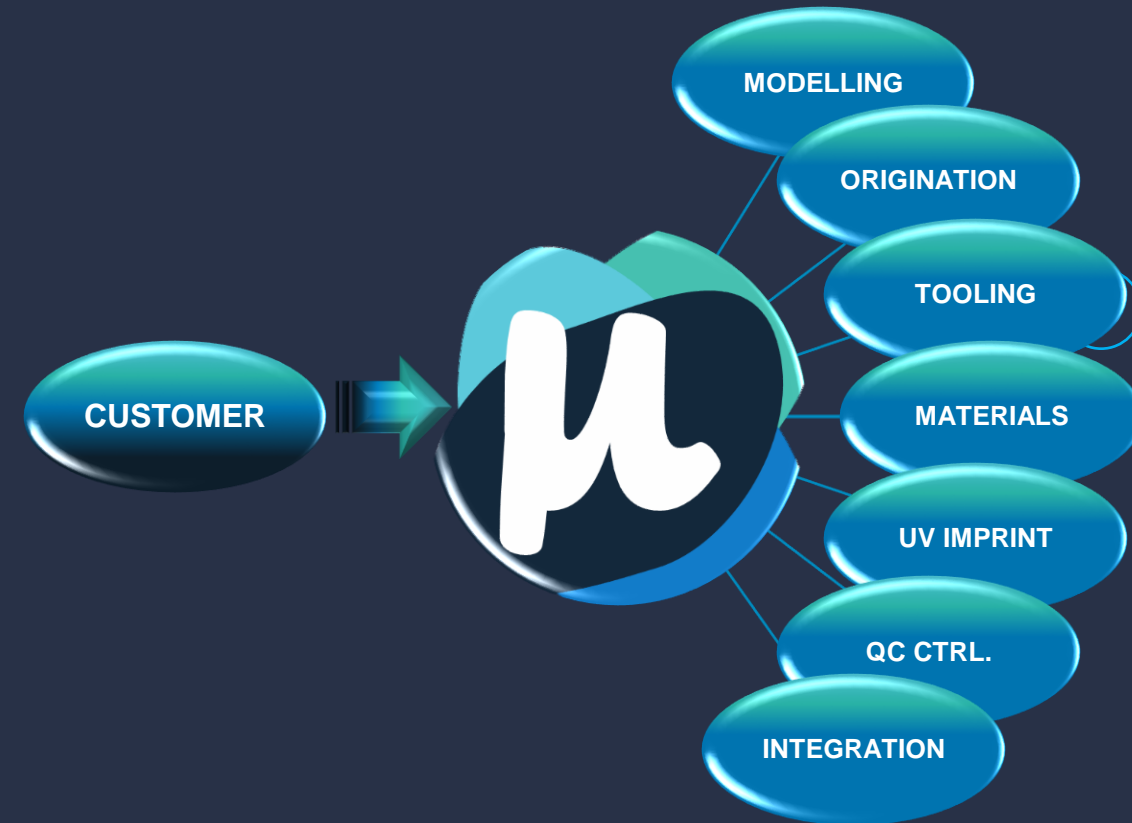


Pilot lines have single access point

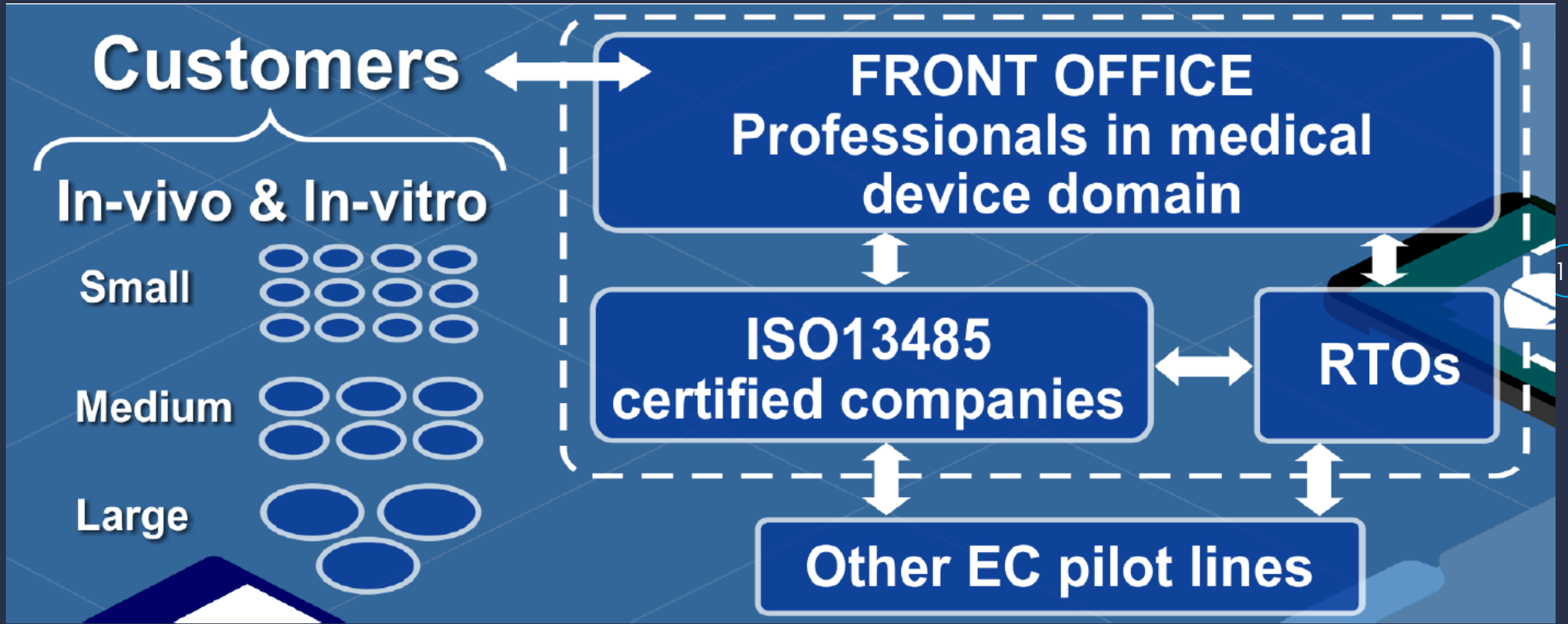
Without PHABULO μ S



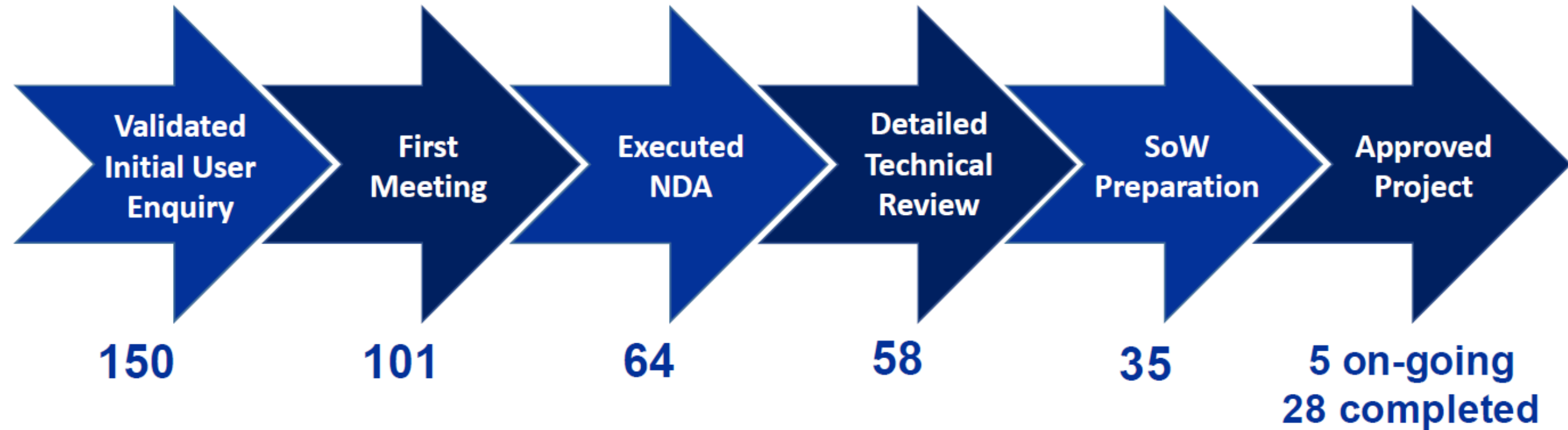
With PHABULO μ S



Pilot lines have single access point



Pilot line: positive experience



New: PhotonHub Europe



- A new pan-European photonics digital innovation hub
- One-stop shop for Photonics
- A broad range of services and capabilities in particular “non-photonics” SMEs and mid-caps
- 53 partners among which are
 - CSEM
 - EPFL
 - Swissphotonics
 - Ligentec

Thank you for your attention!

christian.bosshard@csem.ch

Follow us on



www.csem.ch