# Automation and Traceability in Anatomical Pathology

Automation is transforming Healthcare



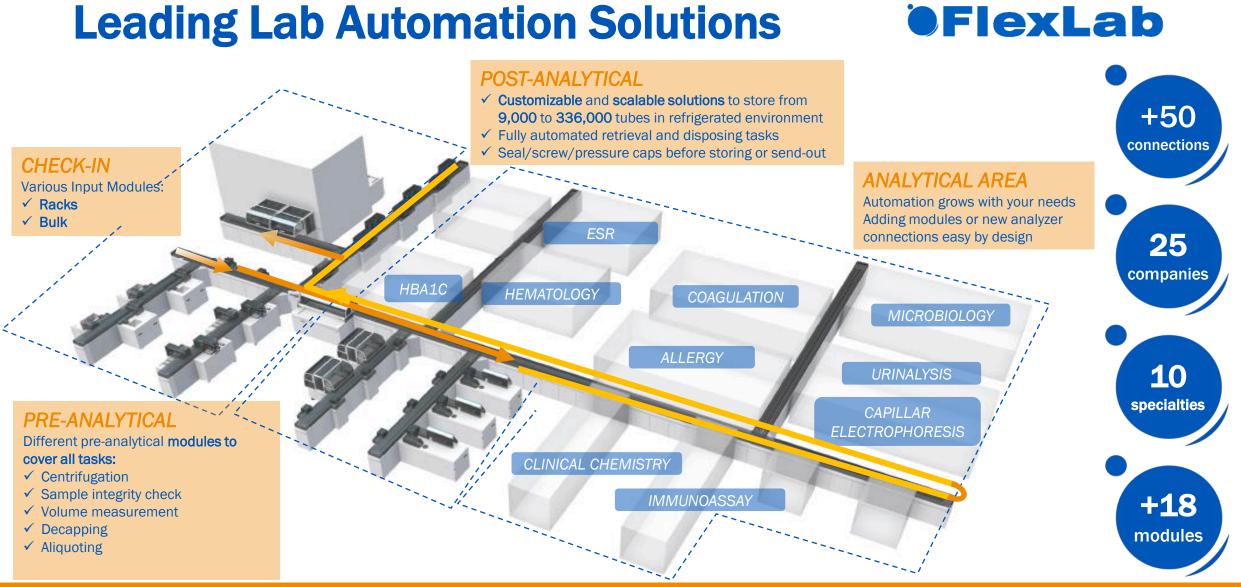


## **Global Leader in Total Laboratory Automation**

CONFIDENTIAL









## **Our USP: Open automation**







## Labs before and after Inpeco





MANUAL PROCESS

Untidy settings
Risk of contamination
Uncertain results delivery
No sample traceability



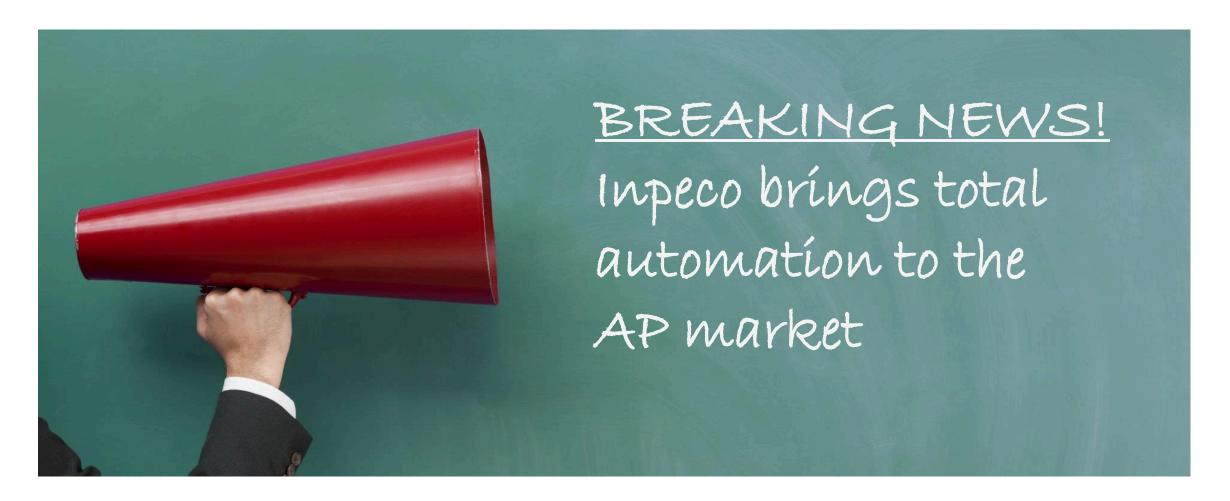
**AUTOMATED PROCESS** 

Total sample control
Efficient and tidy workflow
Predictable turnaround time
Certified results





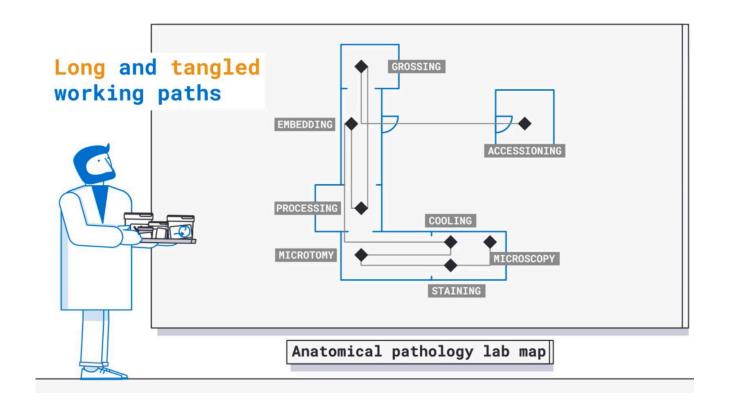
## Inpeco in Anatomical Pathology





## The Diagnostic Pathway in Anatomical Pathology

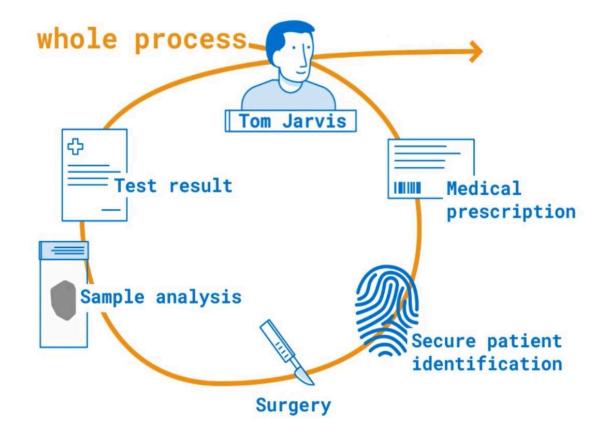
The current diagnostic pathway of a histological specimen is subject to several processes, often manual, performed in the various stages of processing in the pathology laboratory. This long and tangled working path is not supported by a complete automation of the process, nor by a traceability of the sample from the point of collection.





## Inpeco in Anatomical Pathology - The Goal

As for the clinical laboratory, Inpeco proposes to offer for the Anatomical Pathology a **Total Automation of the Diagnostic Process** of the histological sample, including **Full Traceability**, starting from the medical prescription and including the final archive.





## Automation and Traceability in AP? Four design principles that will change the game.



1

**Data Collection & Guided Traceability** 

**100%** Standardization & Real Time monitoring (from Unstructured to structured data)



Automation of non-technical tasks

**100%** efficiency through re-distribution of lab work force





UncompromisedInstruments integration

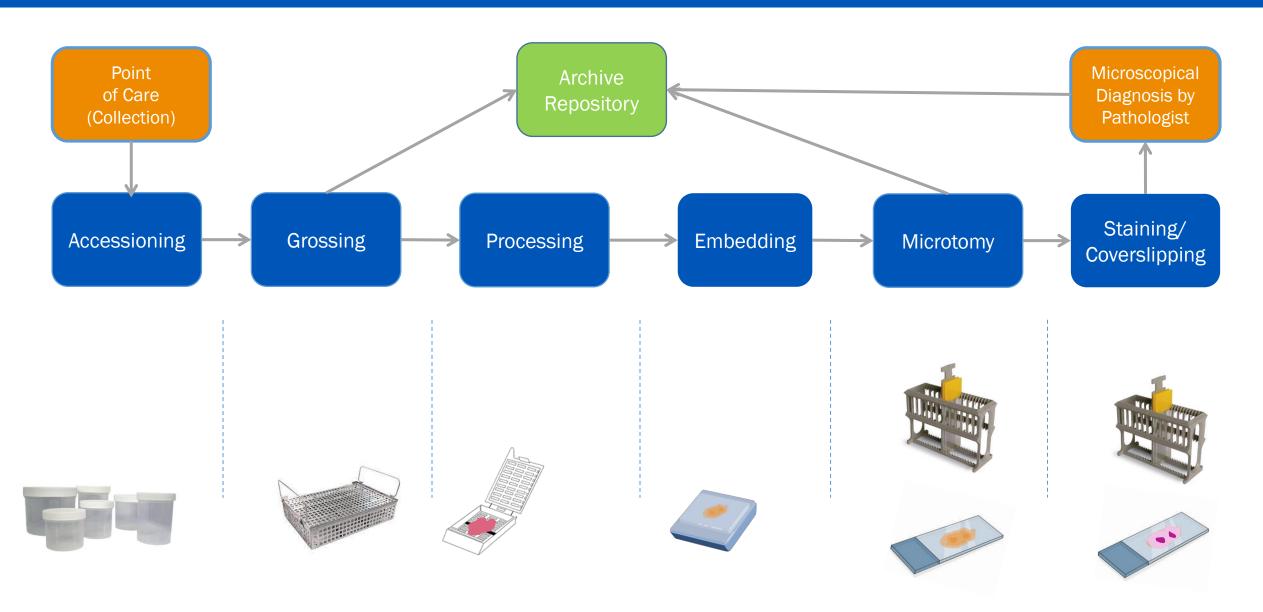
**100%** Open connectivity allows customer centric innovation



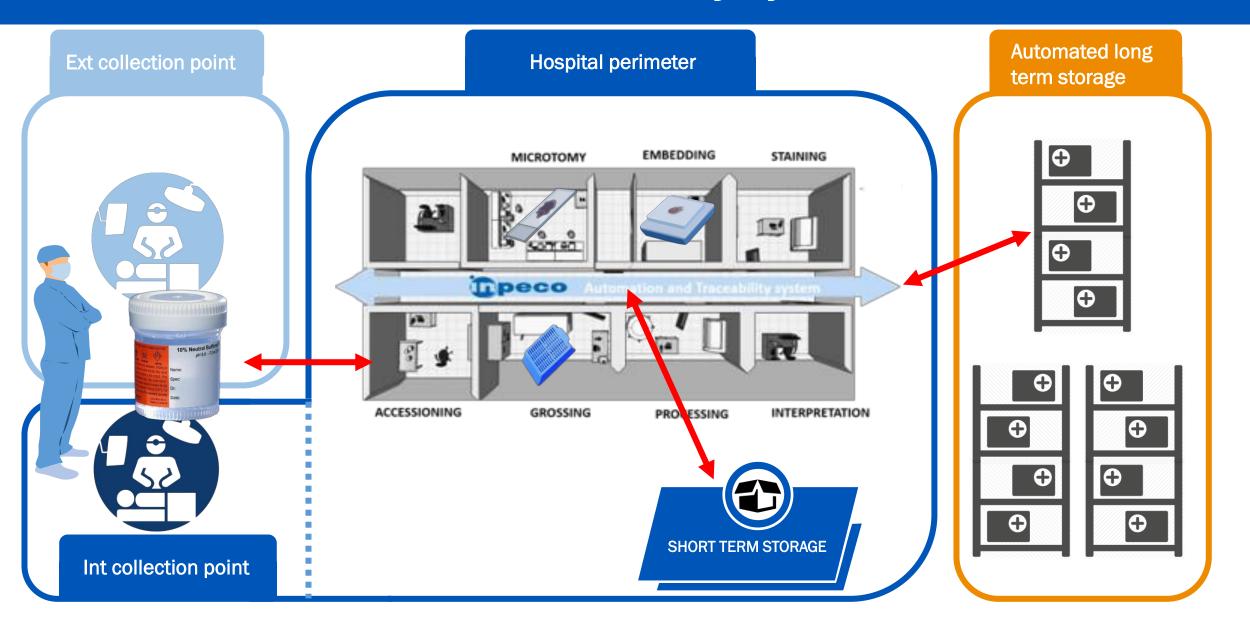
Automation of specimen handling

**100%** lean-management implementation and optimized workflow





### **Automation and Traceability System in AP Lab**





## Building on the legacy of Inpeco's FlexLAB

# Flex Path TM

«FlexPath™, Inpeco's automation and traceability solutions for anatomical pathology labs.»

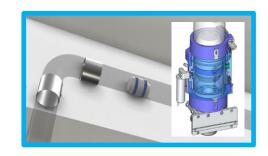


## FlexPath<sup>TM</sup> - Products release 2022-23



■ FlexPath™ trace

Traceability Guided System



■ FlexPath™ move

Sample Transportation
System



■ FlexPath™ blox

**Automatic-Assisted Embedding module** 



■ FlexPath™store

Automatic Paraffin blocks Storage

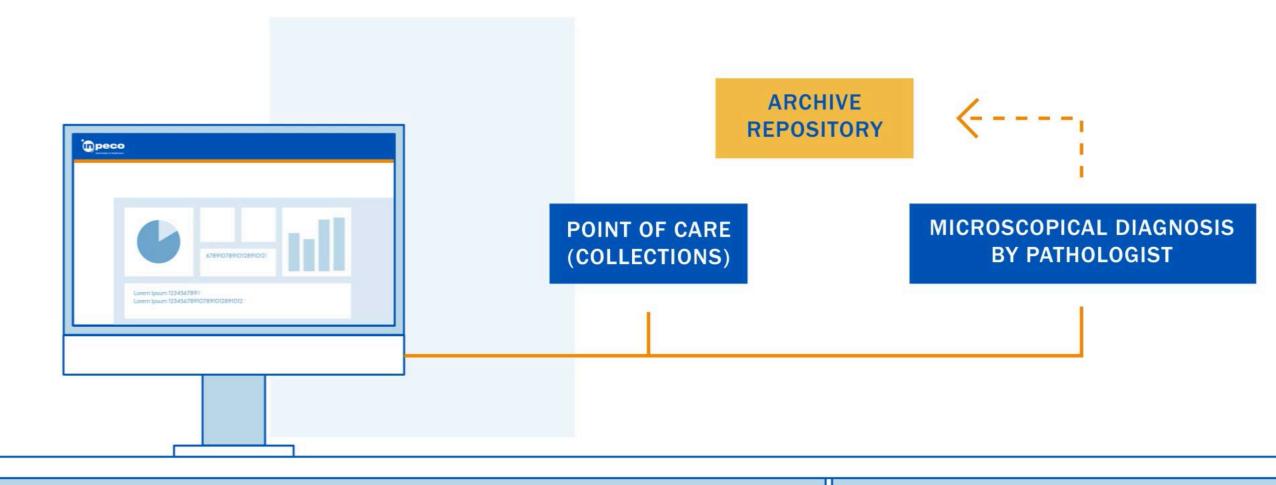


## FlexPath™ trace -Traceability Guided System





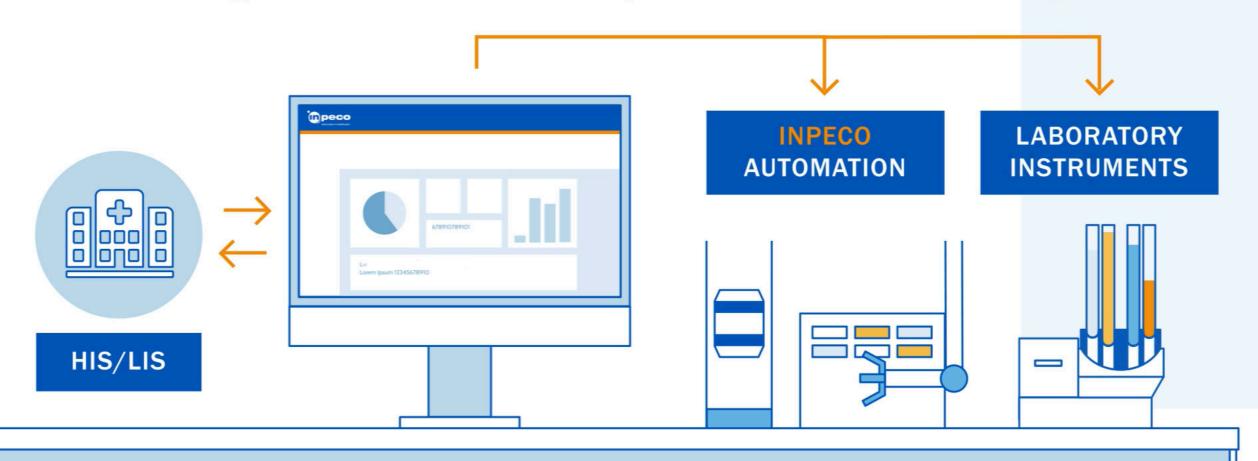








A data bridge between collection points and the Laboratory.









√ Verifies correct patient sample association

Tracks the sample throughout the entire workflow

Collects valuable data

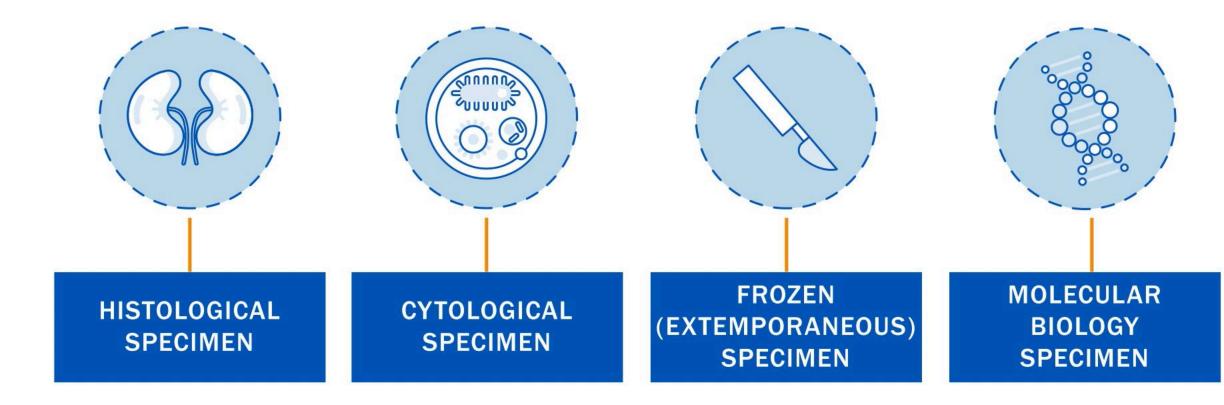
Guides the operator through the process



#### peco Automation in Healthcare

#### Collection of pre-analytical data

1. Type of Examination

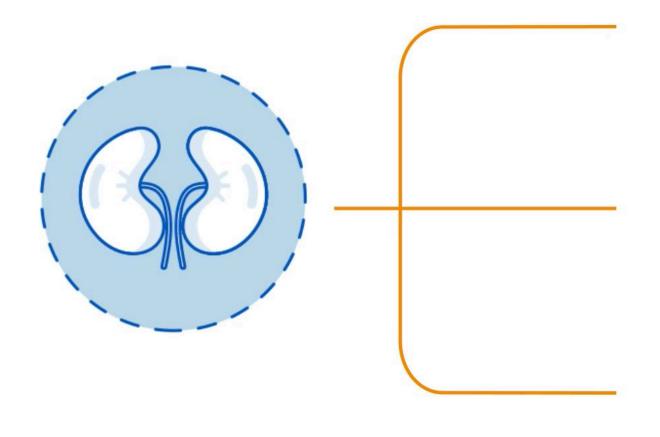




## peco Automation in Healthcare

#### Collection of pre-analytical data

2. Conditions





In fresh conditions



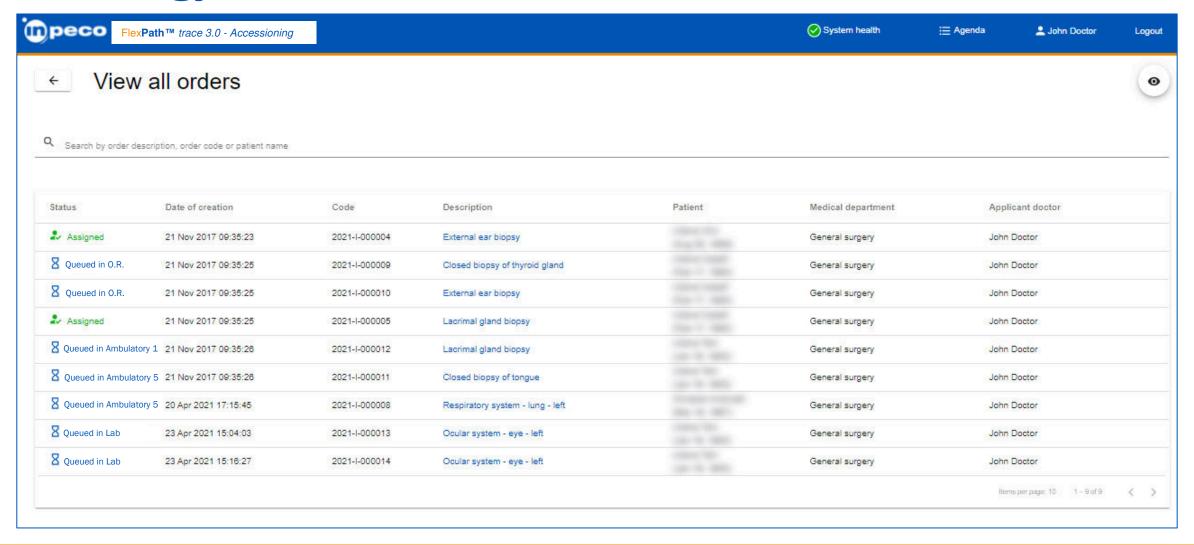
In fixative



In Vacuum bags



## **Histology Lab - Orders list**

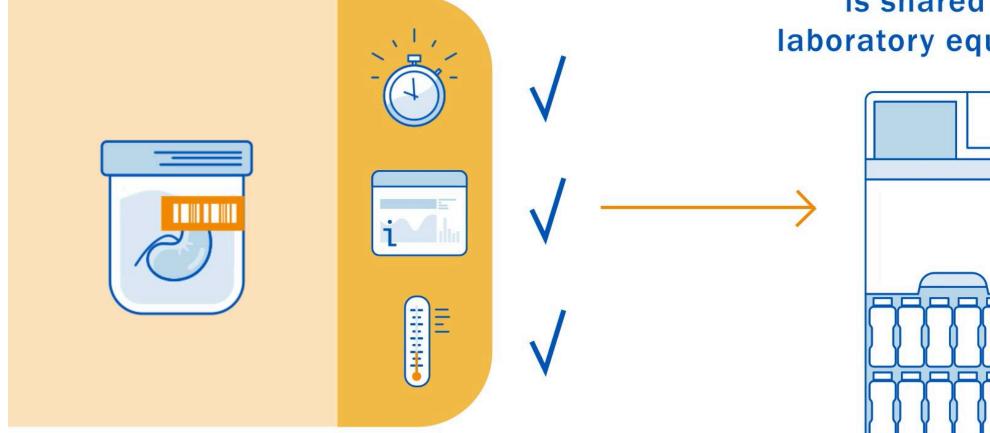




Collection of pre-analytical data



All collected data is shared with laboratory equipments

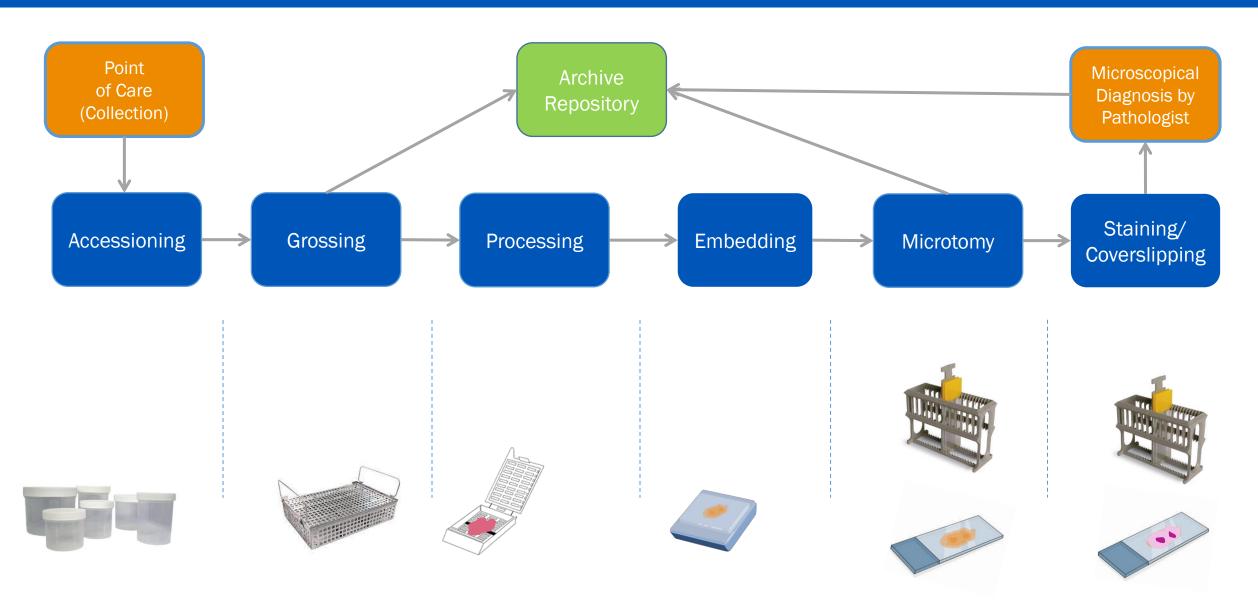




## **Automation of Non-Technical tasks and transportation**

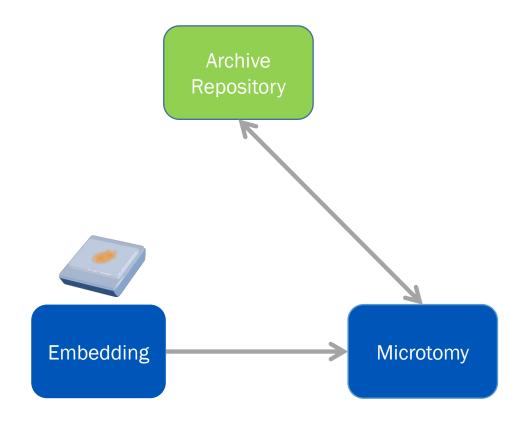






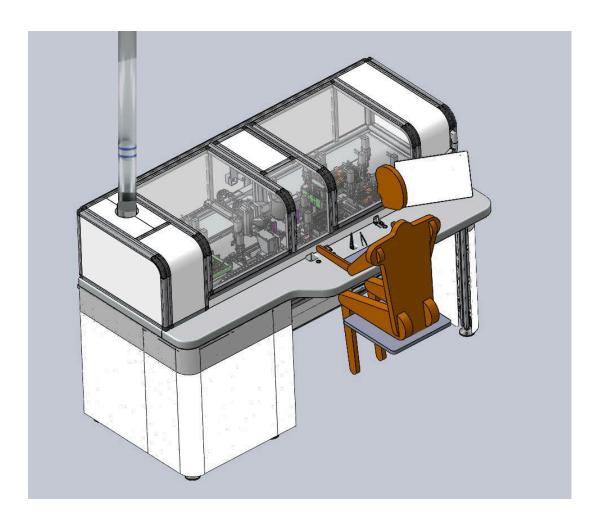


## FlexPath<sup>TM</sup> - Automation of the paraffin block cycle





## FlexPath™ blox - Automatic-assisted Embedding module

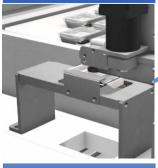


## peco

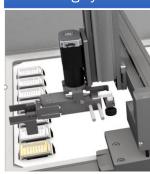




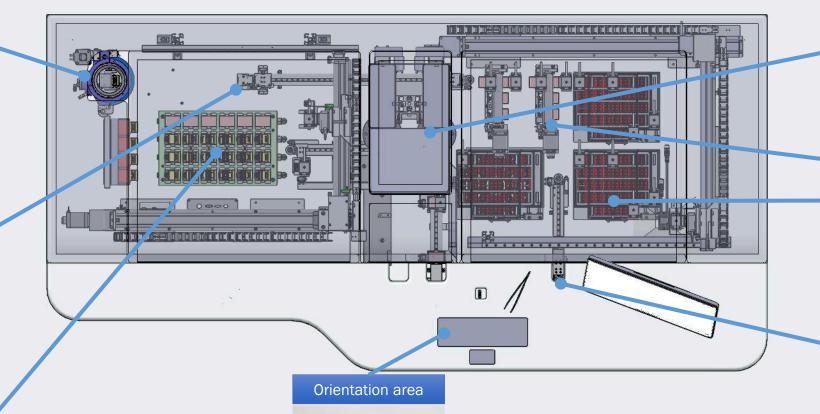
Mold Detachment



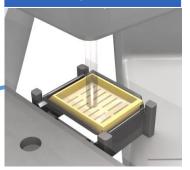
Cooling system



FlexPath™ blox



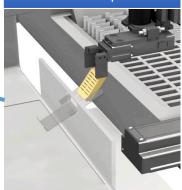
Auto-Paraffin dispenser



Mold Storage

Rack Input area

Cassette dispenser

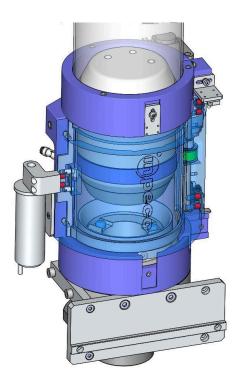






## FlexPath™ *move* – Sample Transportation System









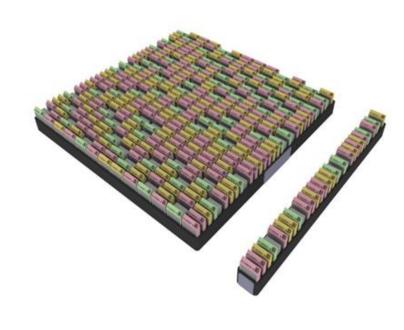






## FlexPath™ *store* - Automatic paraffin block storage







## **Archiving and sample retrieval - Paraffine blocks**

Phase	Duration	Retrieve %	Location	Volume 1000 Paraffine blocks/day
I – Short-term	2-4 weeks (depends on type of lab)	5-10%	In-Lab In close proximity	10.000-20.000
II – Mid-term	5-6 years	2-3%	In-house Within the facility building	1.2M-1.5M
III- Long-term	> 6 years	< 1%	Within the facility for Un.Hospital Outsorced warehouse for clinical and ref.lab	>1.5M

# Thank you

Automation is transforming Healthcare

