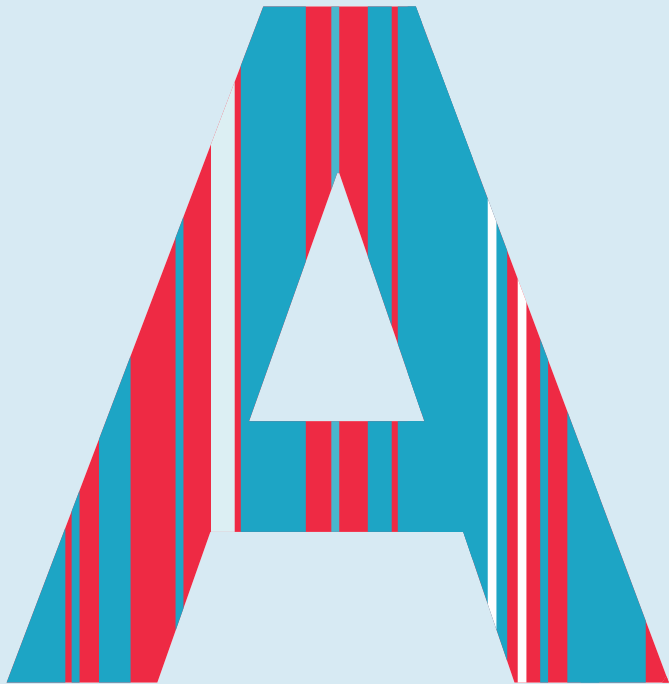


YOUR VISION.
OUR INSPIRATION



A modern pathology laboratory setting. In the background, there is a microscope on a white counter, a computer workstation with a keyboard, and large displays showing histological tissue sections. The floor has a pattern of tissue sections. The text is overlaid on a white rectangular background.

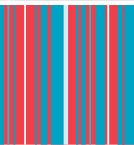
Digital Pathology Solutions provided by Axlabs

A New Era in Pathology

Oliver Benting
Product Specialist

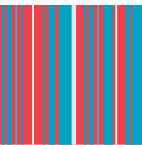
Transforming Pathology with AI

- Scanning slides with AI and preselected scanning profiles
- Automated image analysis with AI on H&E slides



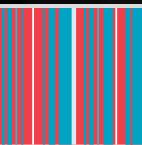
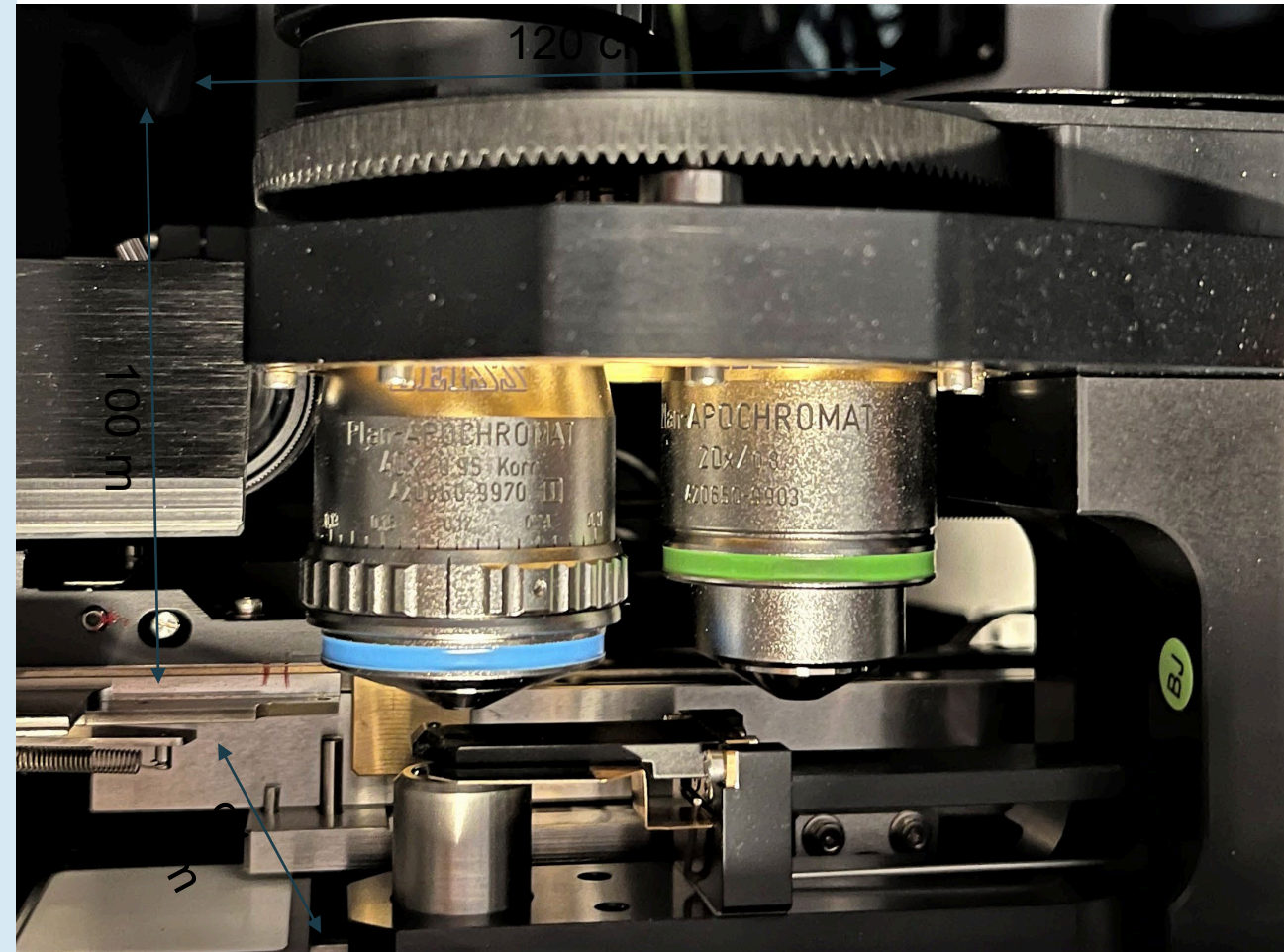
P480/P1000 solves the following tasks:

- Regular slides
- Double slides
- Z stack
- Extended Focus (Cytology)
- Scan: 60 regular slides per hour
- Scan: up to 10 - 15 double slides per hour"



P480 / P1000

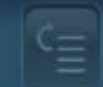
- 2 to 3 objectives
- 200 slides per panel
- Single layer or multilayer (Z stack)
- AI-based tissue detection







Magazines

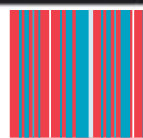


DigitalSlide_B2M_2S_2020-10...

A1		3.								
	B1	B6	C1	C6	D1	D6	E1	E6		
A2	1.									
	B2	B7	C2	C7	D2	D7	E2	E7		
A3										
A4	2.									
	B3	B8	C3	C8	D3	D8	E3	E8		
A5										
A6	4.									
	B4	B9	C4	C9	D4	D9	E4	E9		



Scanning the slide B2-1 15%





Slides



✓	+				
✓	9		018400	DigitalSlide_B1M_8S	20x
✓	10		018578	DigitalSlide_B1M_9S	20x
✓	11			DigitalSlide_B1M_10S	20x
✓	12			DigitalSlide_B1M_11S	20x
✓	13		020079	DigitalSlide_B1M_12S	20x
✓	14			DigitalSlide_B1M_13S	20x
✓	15		018673	DigitalSlide_B1M_14S	20x
✓	16		018577	DigitalSlide_B1M_15S	20x
✓	17			DigitalSlide_B1M_16S	20x
✓	18			DigitalSlide_B1M_17S	20x
✓	19			DigitalSlide_B1M_18S	20x
✓	20			DigitalSlide_B1M_19S	20x

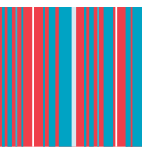
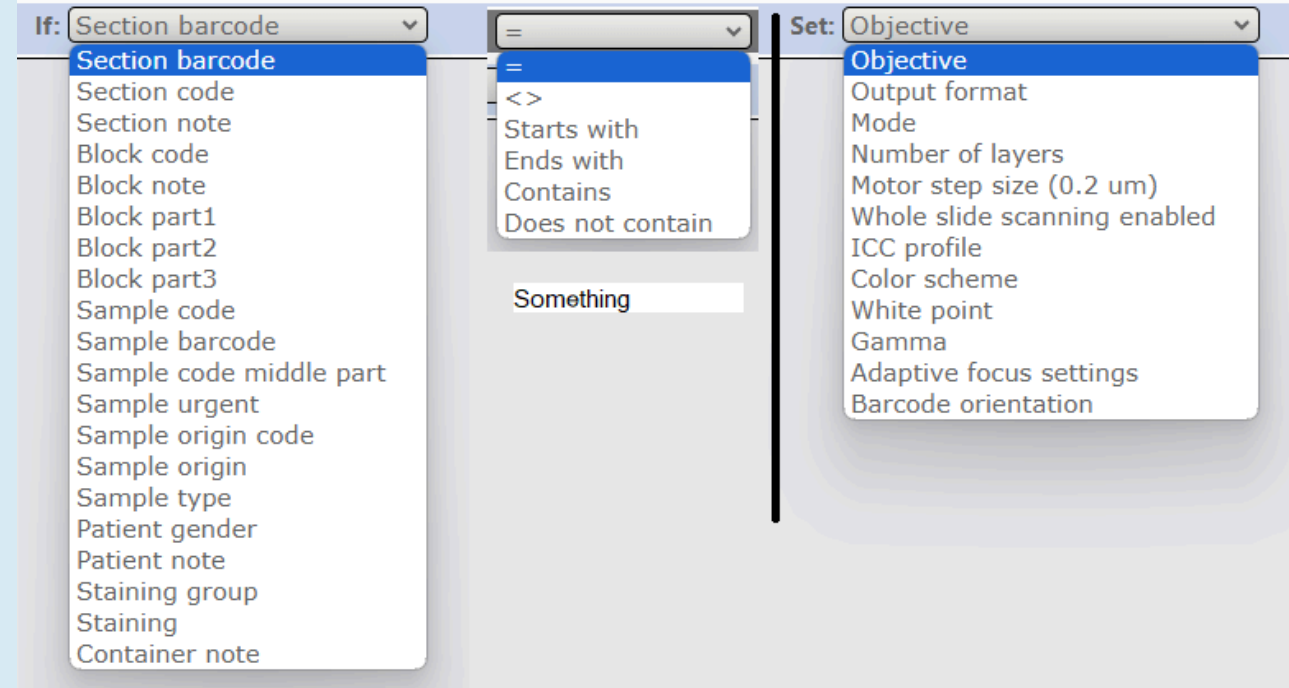
Slide Preview



901538

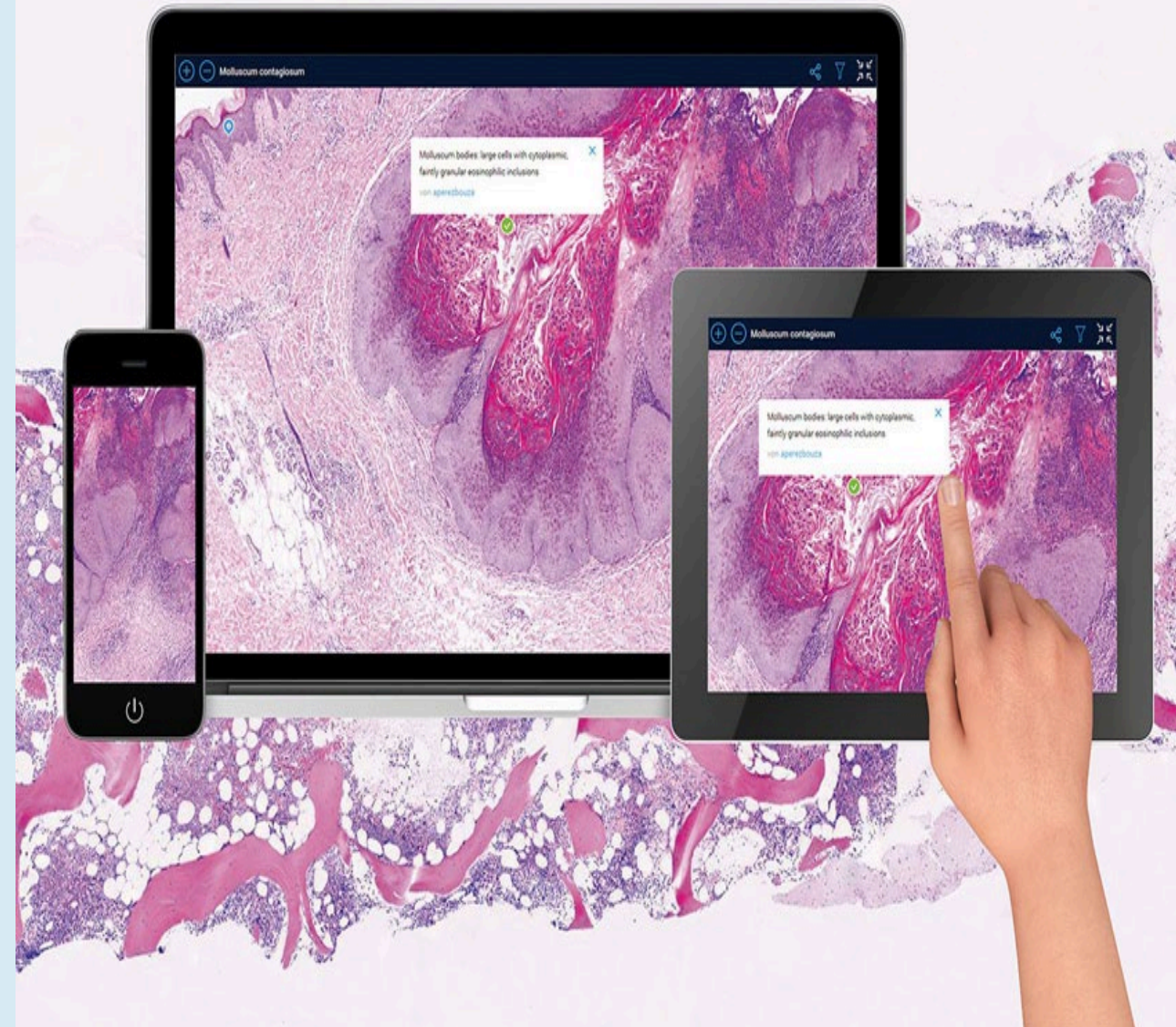
CaseManager as middleware

- LIS Integration with CaseManager
- CM can receive information from LIS before the slides are to be scanned
- CM manager can control the scanning protocol via LIS information
- CM can send DICOM files to PACS"



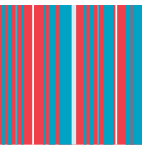
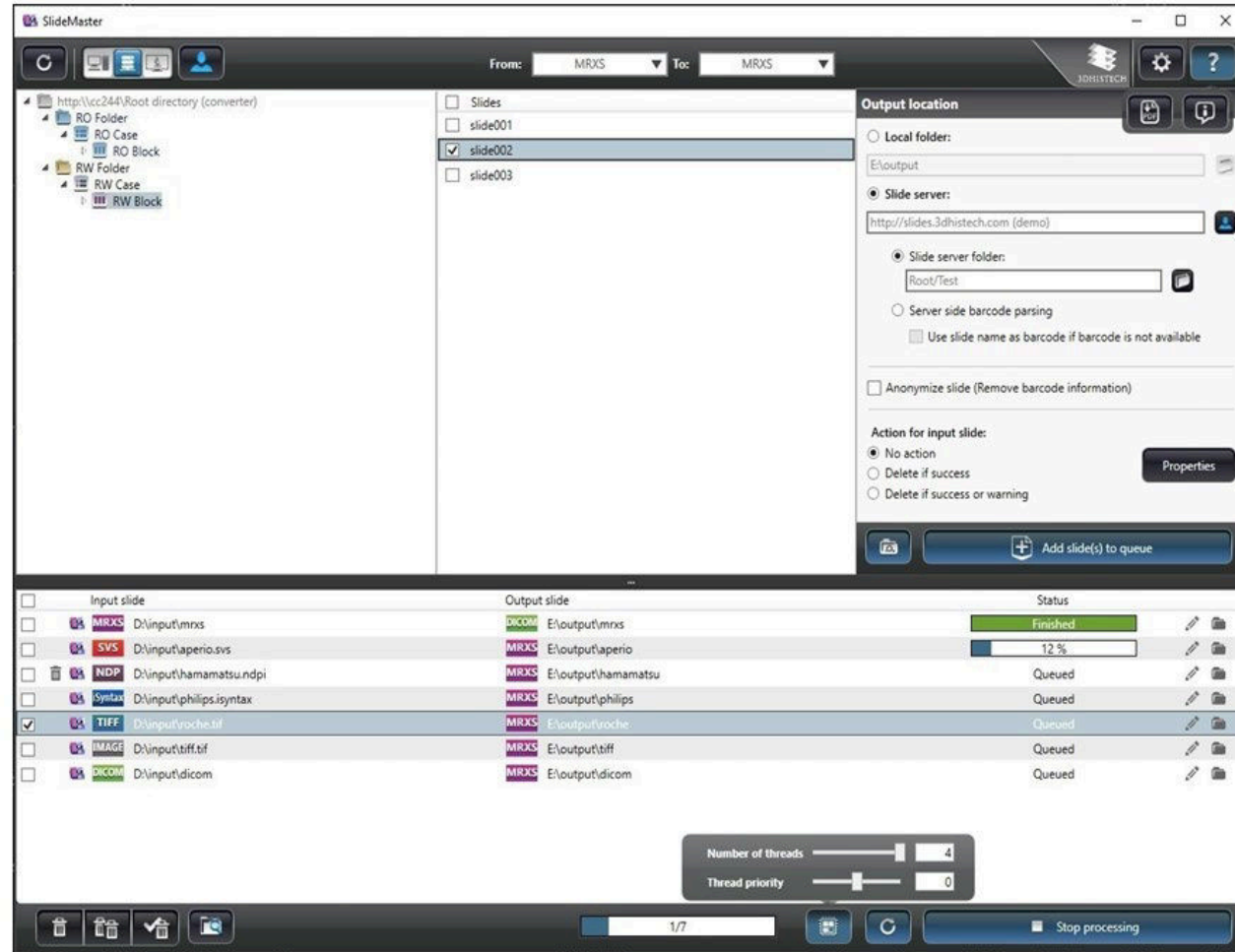
System Integration

- 3 different of solutions :
 - Simple Solution
 - DICOM Solution
 - Scanner + LIS integraret CaseManager



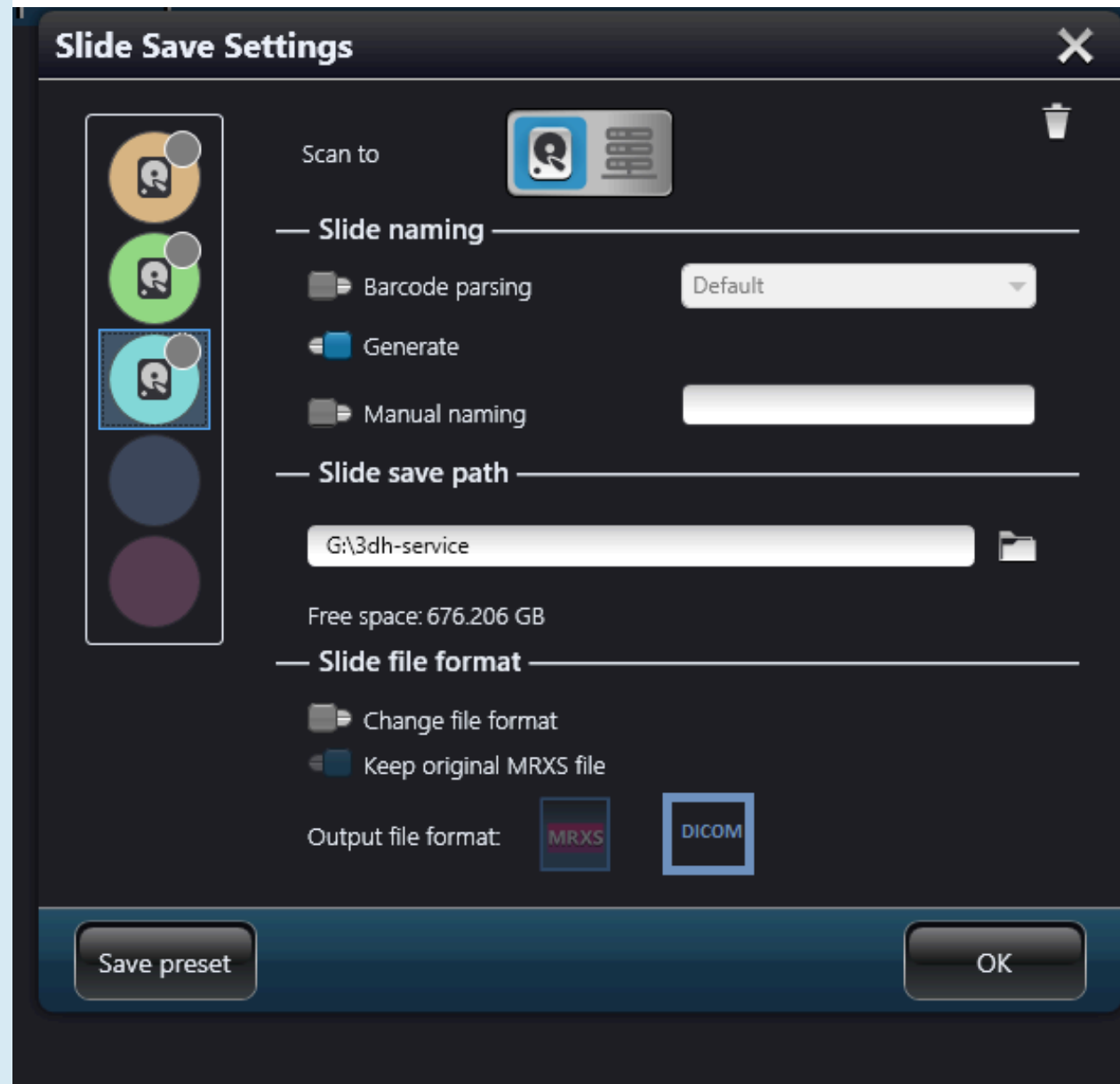
SlideMaster

- Directory Monitoring and Automated File Conversion/Movement
- File Conversion
- MRXS – Leica/Aperio SVS
- MRXS – DICOM
- MRXS – Roche
- MRXS – Tiled TIFF
- MRXS - MRXS

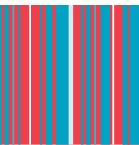


DICOM direct to server

- DICOM files can be transferred to Sectra PACS
- C-store network drives
- Files include barcode value in DICOM tag

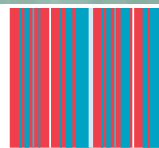


Any questions regarding the scanner?



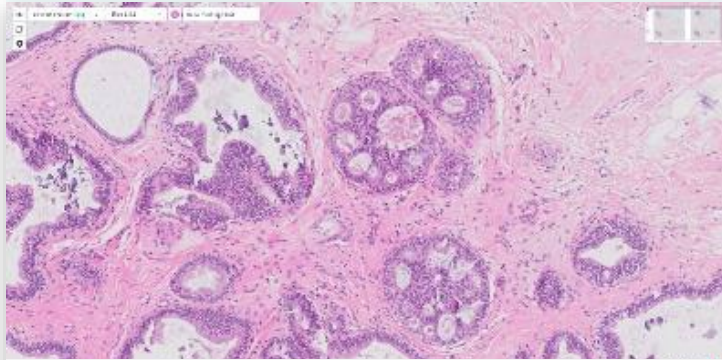
A woman with dark hair tied back, wearing a white lab coat, is shown in profile from the back, looking at two computer monitors. The left monitor displays a data table with a vertical column of colored bars (red, green, yellow). The right monitor shows a map of a region, possibly Europe, with a purple highlighted area. The scene is dimly lit, with light from the monitors illuminating her face and hair.

Introduction of IBEX and the value of AI

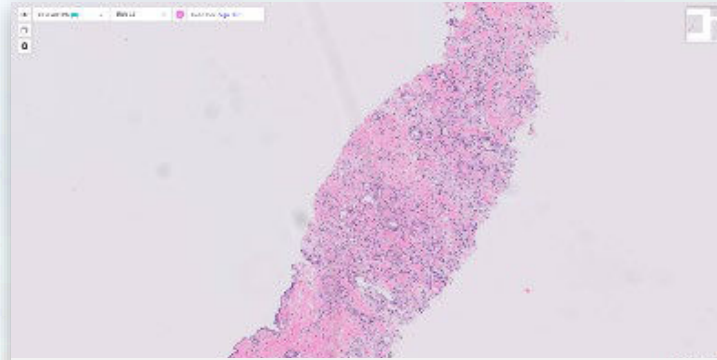


Avoid misdiagnosis

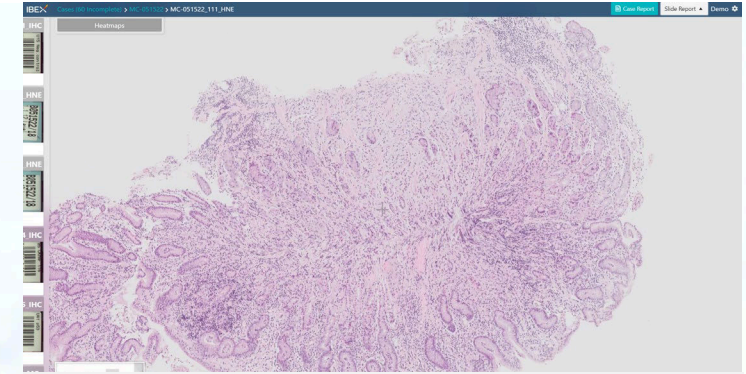
Original report or diagnosis:



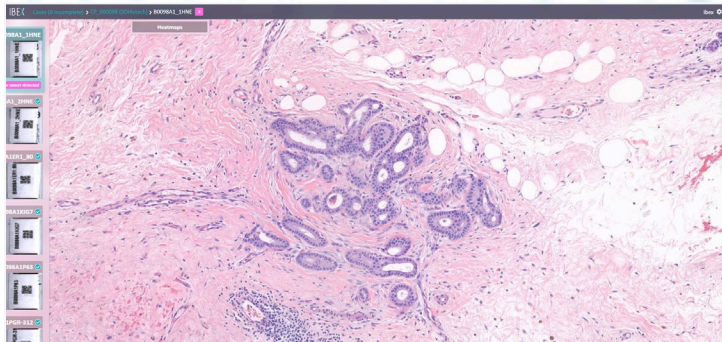
Benign breast



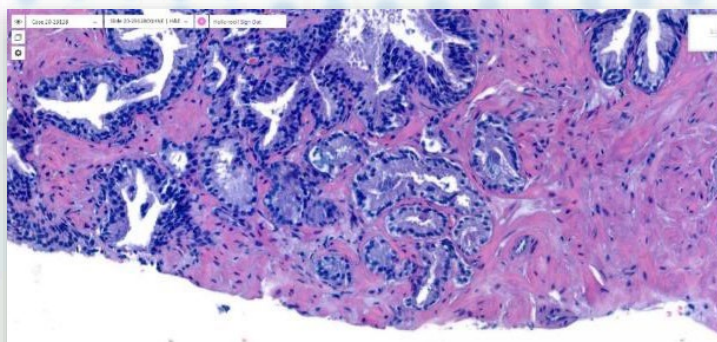
Benign prostate



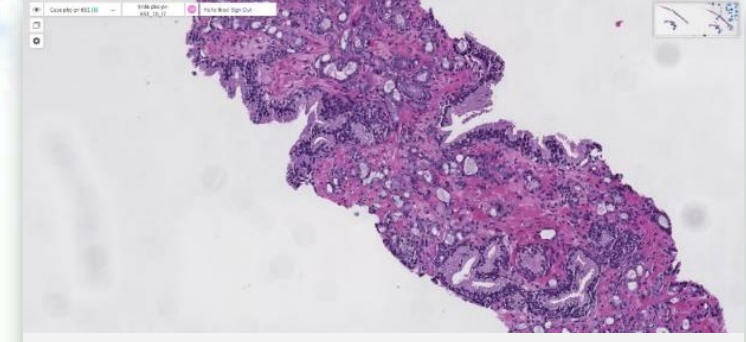
Benign gastric



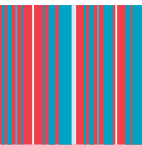
Benign Breast



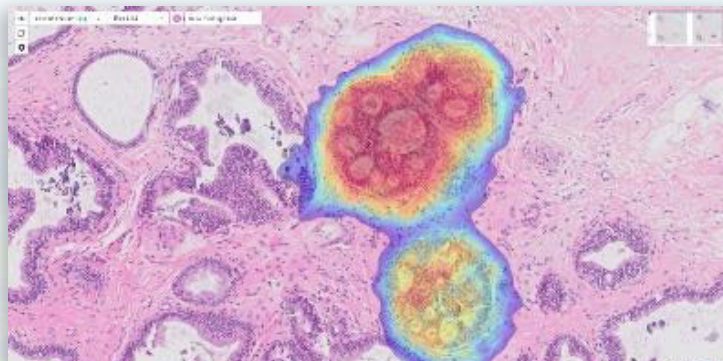
Benign prostate



Prostate cancer; G3+3



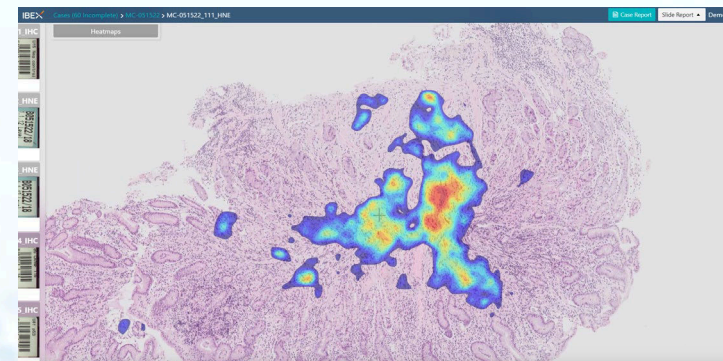
Avoid misdiagnosis



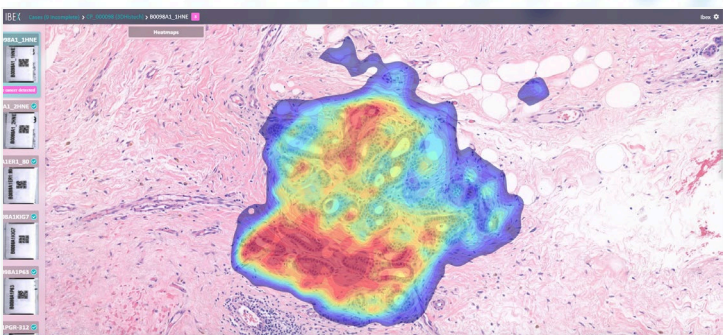
Benign breast ~~Cancer~~; DCIS



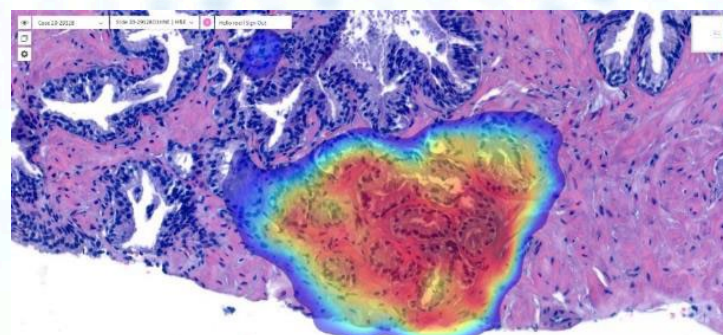
Benign prostate ~~Cancer~~; G4+3



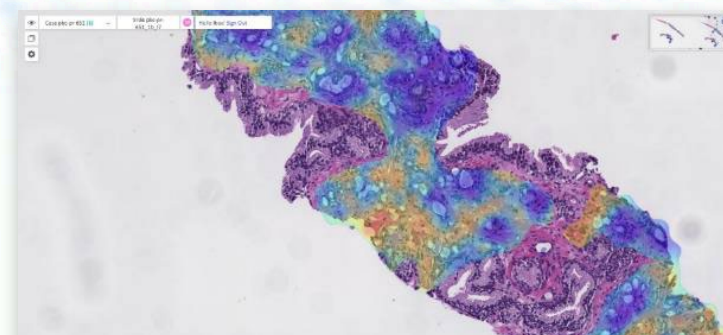
Benign gastric ~~Cancer~~



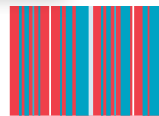
Benign breast ~~Cancer~~; IDC



Benign prostate ~~Cancer~~ G3+3



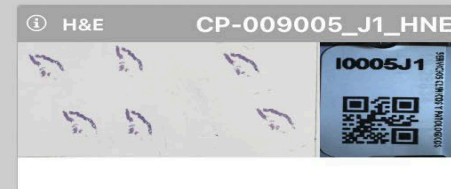
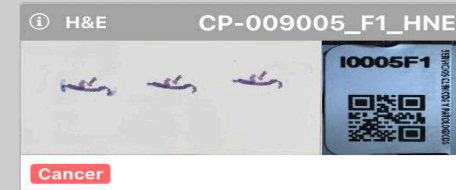
Prostate cancer; G3+3 ~~Cancer~~; G4+3



Filter by Case ID, Tissue or Assignee

Case ID ↑	Tissue	Findings
AH-002747	prostate	Cancer
CP-000014	breast	Cancer Invasive Cancer
CP-000026	prostate	Cancer
CP-000030	breast	Cancer ADH/DCIS
CP-000098	breast	Cancer Invasive Cancer
CP-001067	gastric	H. pylori-related
CP-001083	gastric	
CP-009005	prostate	Cancer
HP-000708	prostate	Cancer
HP-049771	prostate	Cancer
HP-051168	prostate	
IC-000129	breast	Cancer Invasive Cancer
KG-000001	prostate	Cancer
KM-000040	breast	Cancer Invasive Cancer
MC-000070	gastric	
MC-008566	breast	Cancer Invasive Cancer ADH/DCIS
MC-014444	prostate	
MC-014967	gastric	H. pylori-related

1



HNE



HNE



HNE



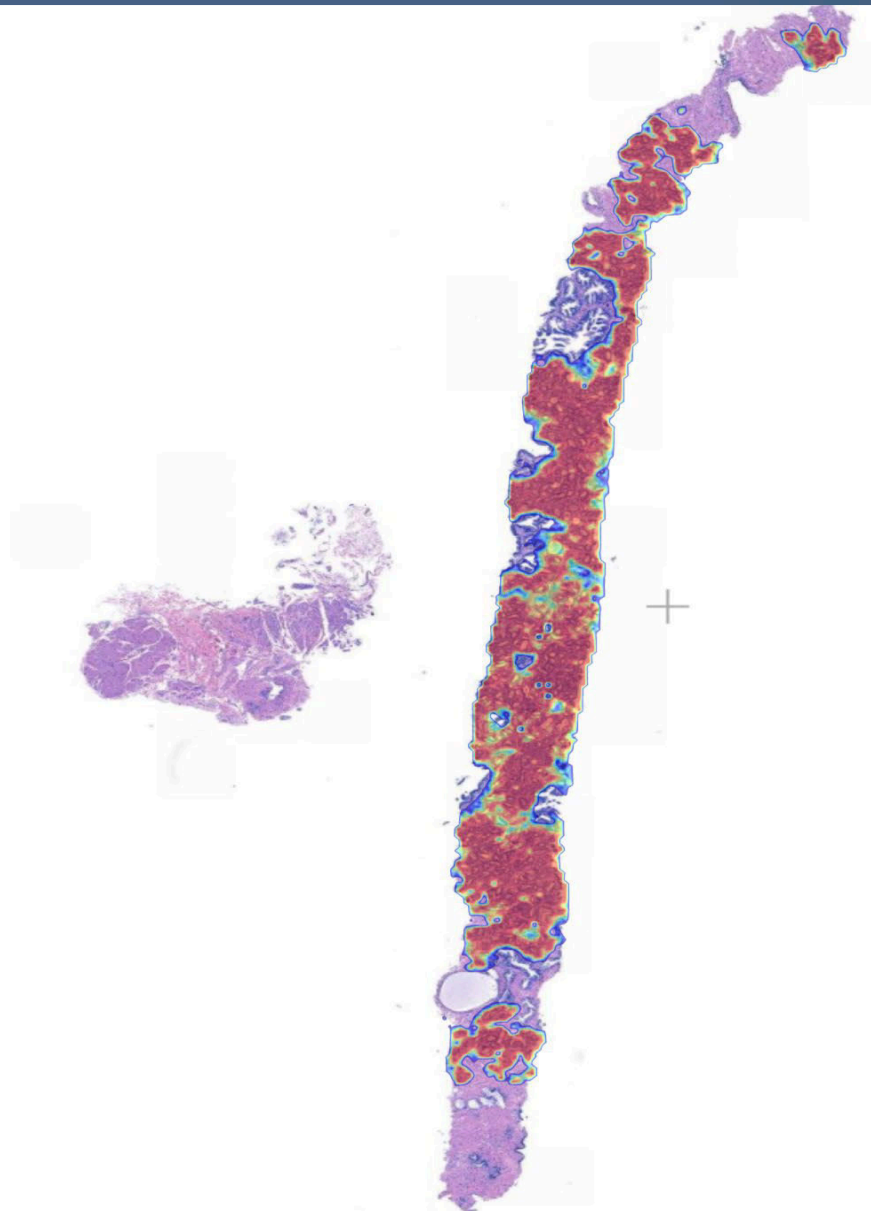
HNE



HNE



Heatmaps



1.0x

Active Heatmap: Cancer Low Probability High Probability

H&E

CP-009005_C1_HNE



Cancer AI High Likelihood
Observed Not Observed Other

Non-prostate-AdC Cancer AI
Observed Not Observed Other

Gleason Score AI 3+3 (1)
3+3 (1)

Perineural invasion AI
Observed Not Observed Other

Tissue Length AI 14.0 mm
14,0

Tumor Length AI 9.6 mm
9,6

Tumor Percent 68.6%

High-Grade PIN AI
Observed Not Observed Other

Inflammation AI
Observed Not Observed Other

Atrophy AI
Observed Not Observed Other

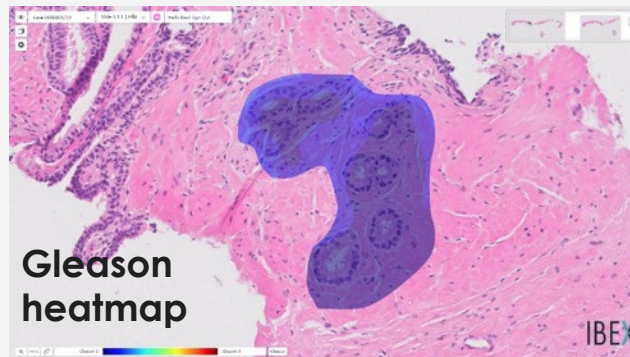
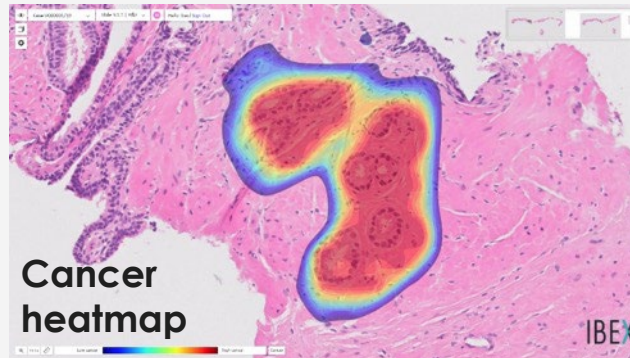
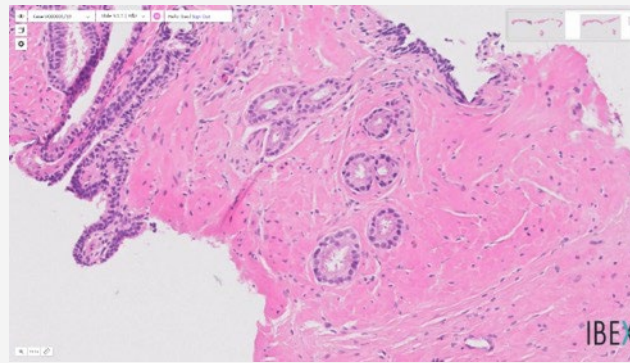
Slide level Comment In Review



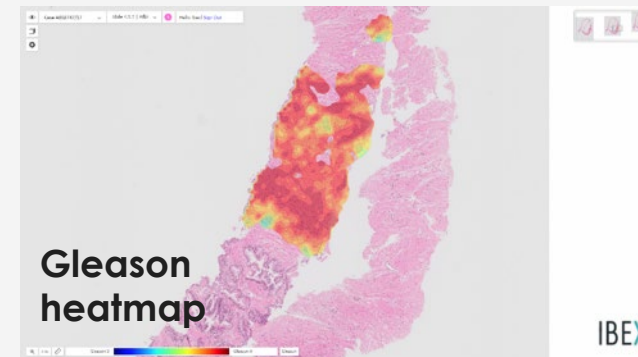
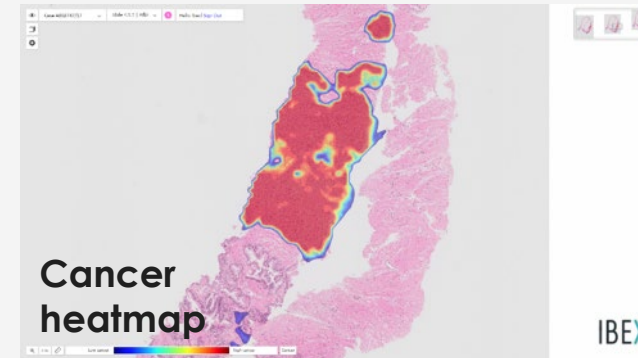
Galen™ Prostate

AI accurately
detects and grades
prostate cancer
and other clinically
relevant features

Adenocarcinoma G3+3

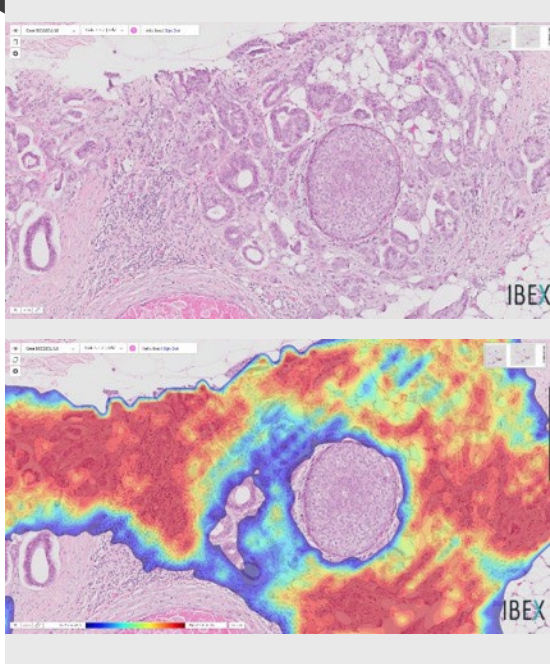


Adenocarcinoma G5+4

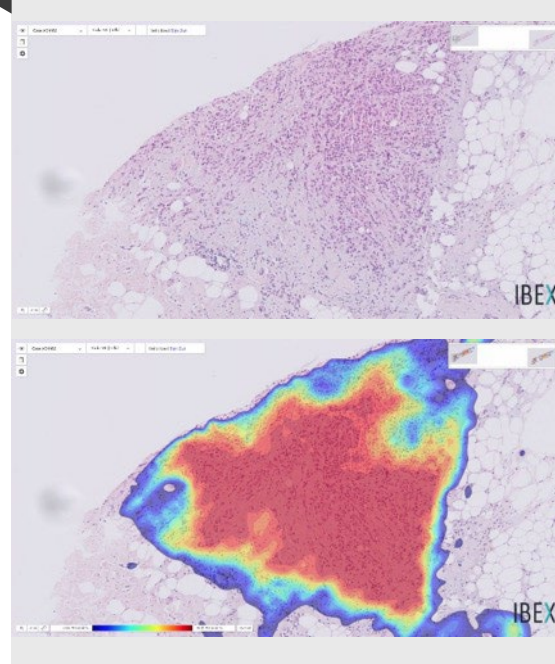


Galen™ Breast

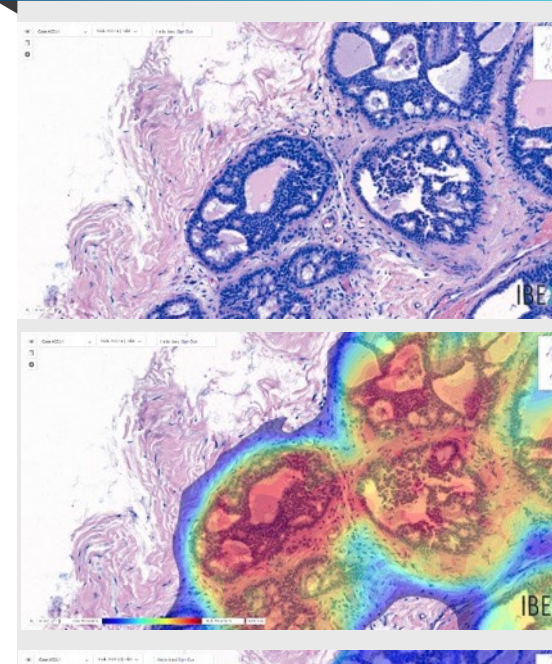
IDC



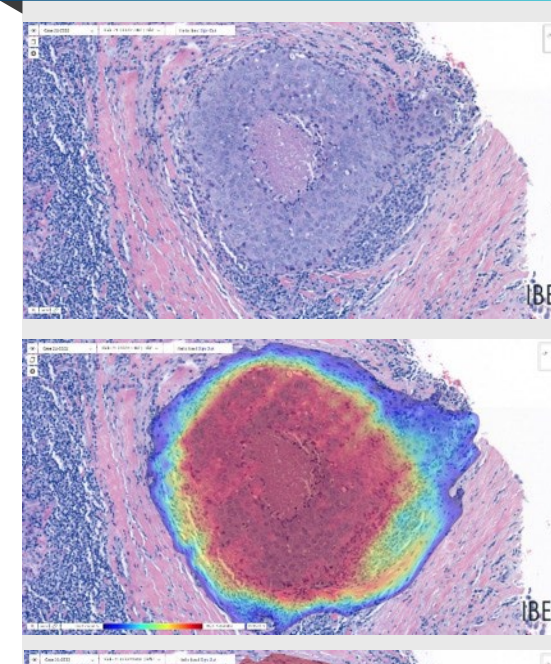
ILC



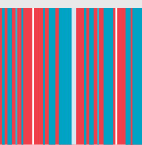
DCIS (low grade)



DCIS (high grade)



AI accurately **detects** & grades **multiple types** of invasive & in-situ breast cancer



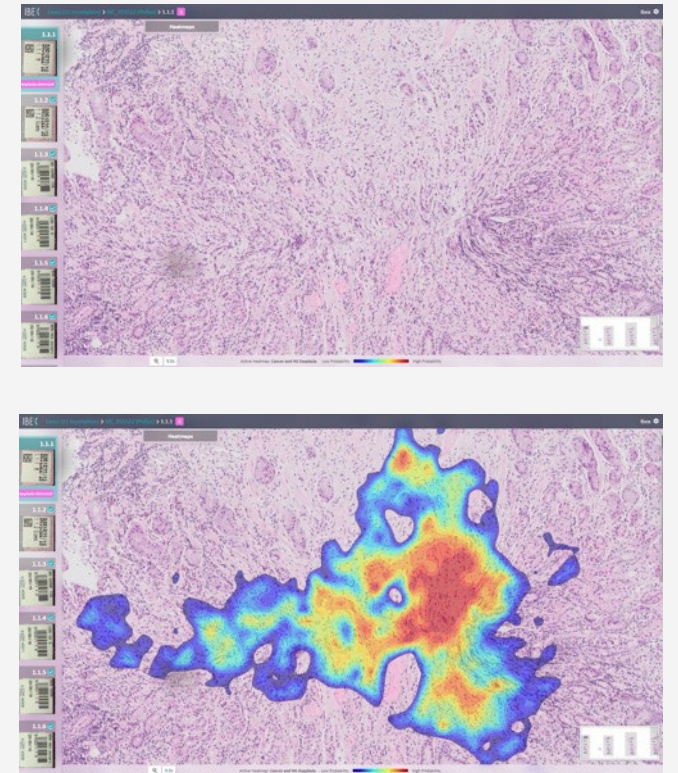
Galen™ Gastric

✦ Powerful & comprehensive AI solution for gastric diagnosis.

✦ H&E

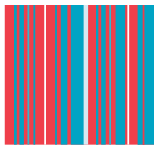
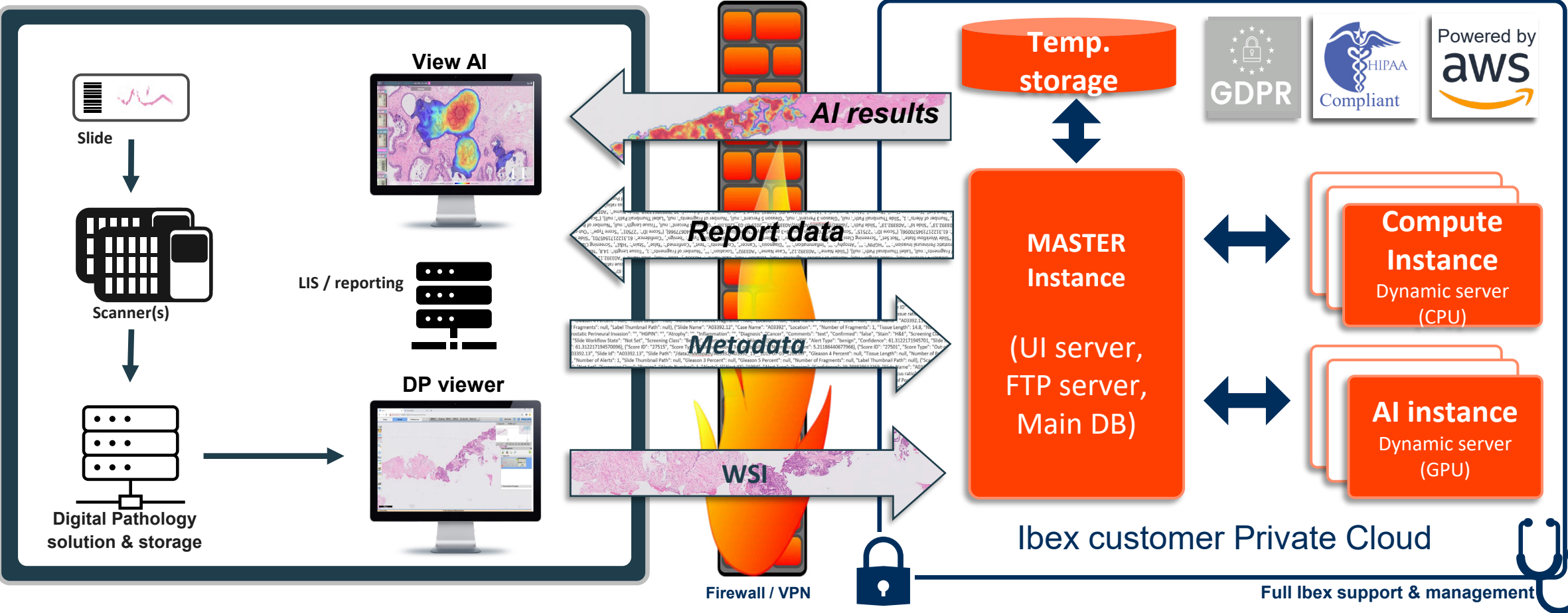
- AI identifies 34 morphological features, including carcinoma (diffuse, intestinal), HG & LG dysplasia, HG and LG lymphoma, neuroendocrine tumor, H. pylori related gastritis, chronic gastritis, atrophy, intestinal metaplasia.

Gastric Cancer

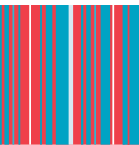


The only AI solution for the GI tract

IBEX Cloud based Solution Design



Any questions regarding
IBEX?



Thank you for listening...



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axlab@axlab.se
axlab.se

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