Dedalus

IN VITRO DIAGNOSTIC

ACCELERATE THE SHIFT TOWARDS PRECISION MEDICINE

END-TO-END AI-POWERED DIGITAL PATHOLOGY SOLUTION

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TRENDS IN PATHOLOGY

The **increasing demand for pathology services from** an **aging population** and **more cancer patients,** combined with a **shortage of trained pathologists and a multidisciplinary approach,** requires pathology laboratories to actively seek efficiency-enhancing solutions to maintain high accuracy levels and reduce time to diagnosis.

The digital pathology revolution **supports the pathologist** from tissue reception to digital reporting. Effective and efficient diagnostics are crucial today.
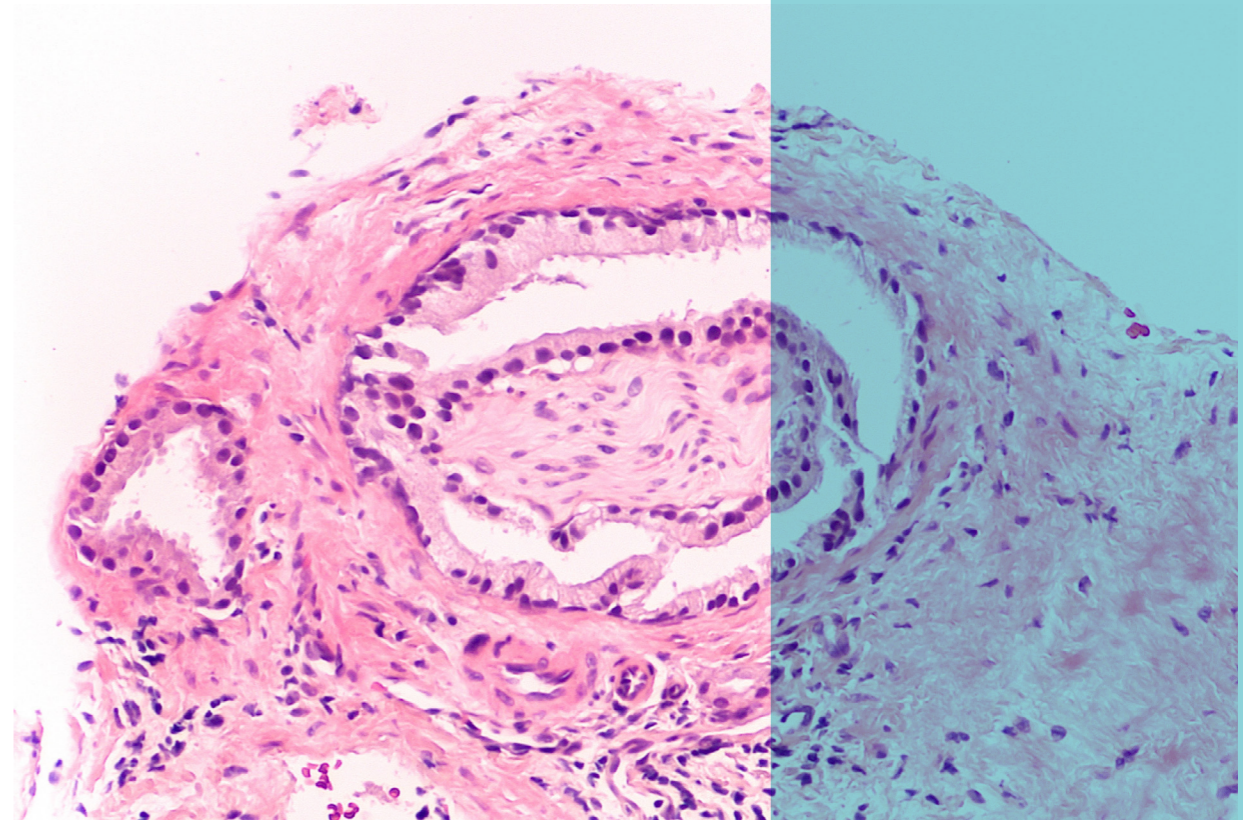
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MULTI-DISCIPLINARY APPROACHES, PRECISION MEDICINE AND STRAIGHTFORWARD INTEGRATION WITH THE BACKBONE LABORATORY SYSTEM

With the **growing complexity in cancer care, a multidisciplinary team approach** and advances in precision and personalized medicine are fundamental to improving patient outcomes.

Through **AI**, more **efficient diagnostic pathways** can be generated to **increase** the **lab's productivity** and **reduce** the diagnostic **TAT**.

Clinical Decision Support and AI tools are essential to **improve patient diagnosis** and the healthcare decision-making process.
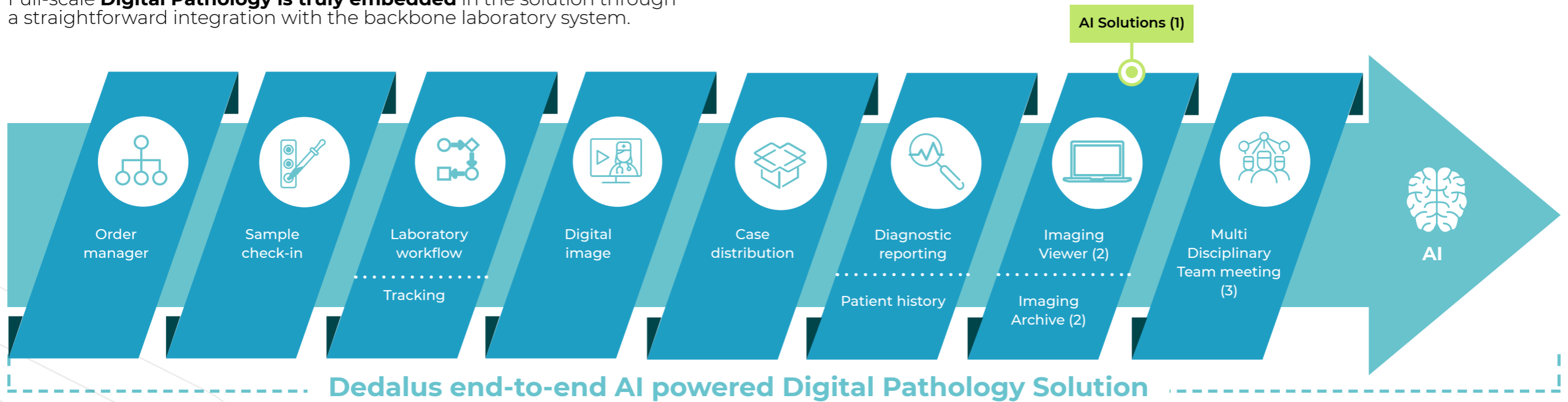
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DEDALUS END-TO-END AI POWERED DIGITAL PATHOLOGY SOLUTION FOR ANATOMICAL PATHOLOGY LABS

Unique, all-in-one integrated digital solution addresses the needs of Anatomic Pathology laboratories through the **seamless full digitalization of the Anatomic Pathology workflow**, from the tissue reception to the digital reporting.

Full-scale **Digital Pathology is truly embedded** in the solution through a straightforward integration with the backbone laboratory system.

AI solutions seamlessly integrate into every stage of the solution to:

- analyze cases prior to human pathologists' review to reduce diagnostic TAT
- increase diagnostic accuracy and confidence,
- provide clinical decision support tools that enable focusing on cancerous slides and areas of interest,
- streamline reporting to improve laboratory efficiency.

AI Solutions (1)

Order manager

Sample check-in

Laboratory workflow

Tracking

Digital image

Case distribution

Diagnostic reporting

Patient history

Imaging Viewer (2)

Imaging Archive (2)

Multi Disciplinary Team meeting (3)

AI

Dedalus end-to-end AI powered Digital Pathology Solution

(1)-Powered by IBEX AI Solutions
(2)-Powered by the DeepUnity Suite
(3)-Powered by C4C Meeting

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AN UNPARALLELED SET OF CAPABILITIES DRIVEN BY OUR HOLISTIC APPROACH TO THE PATHOLOGIST NEEDS

A solution to fully digitalize the end-to-end workflow of Anatomical Pathology labs (AIS + DP)
- Vendor-neutral integration
- Ease of use and full connectivity with all types of instruments via middleware solution

Digital Reporting
- All inclusive, customizable reporting tool designed explicitly for Anatomical Pathology labs
- Strong catalog of already built standard reports
- Utilisation of data to report statistical findings and other KPIs

Advanced case Atlas: A structured collection of cases and related content supports diagnosis and comparison baseline.

- Structured data
- Attached documents
- Relevant images

Use of data and AI[1] to support diagnosis, enabling personalized medicine with a special focus on:
- Assisted case prioritization and caseload handling
- Advanced image analysis
- New diagnostic tools to enhance the reproducibility of results

Imaging Viewer[2]:
- Faster image sharing for improved collaboration
- Enhanced digital workflow for higher efficiency
- Multidisciplinarity by design

Imaging Archive[2]:
- Fast, robust and scalable archiving
- Open standard communication (FHIR/HL7) and multi-tiered storage
- Automated DICOMization of slides

Multidisciplinary approach via built-in functionality to support **MDT meetings and Tumor Boards[3]**

- Patient-centric approach and **cross-discipline collaboration**, diagnosis, and reporting via open architecture, allowing for **easy exchange of relevant data** with the rest of the diagnostics areas and other hospitals
- Established networks for easy collaboration and sharing of cases within and outside the hospital organization

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ENABLE THE PERFECT CONDITIONS TO ACHIEVE BEST IN CLASS IN YOUR LAB AND EXCELLENCE IN CANCER DIAGNOSIS

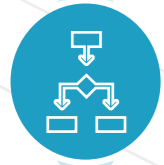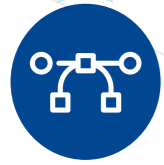Earlier diagnosis

Enhanced quality of diagnosis

Pathologist satisfaction

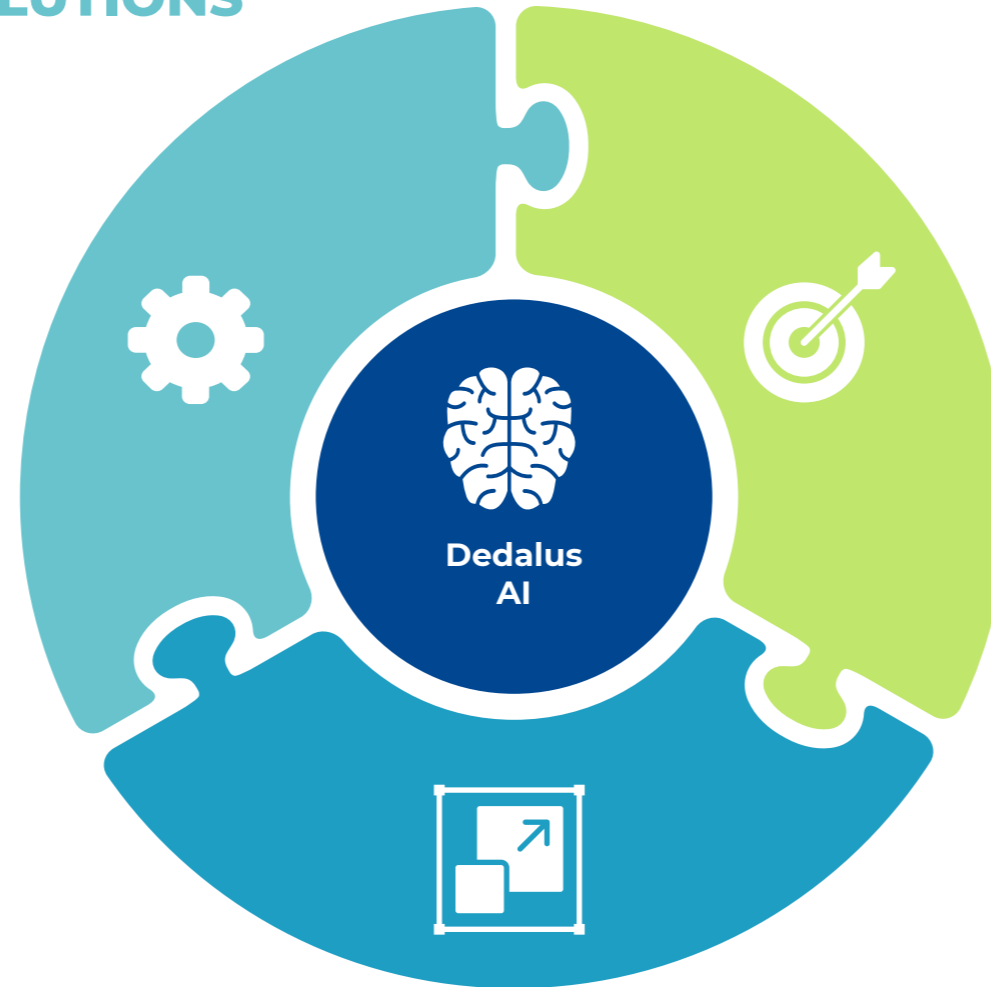Seamless full transition to workflow digitalization

Scalability by design

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LEVERAGE AI TO ACCELERATE THE SHIFT TOWARD PRECISION MEDICINE AND PATIENT-CENTERED SOLUTIONS

Reduce diagnostic errors

Enable more objective diagnostic decisions

Avert unnecessary treatment costs

Dedalus AI

Increase diagnostic confidence

Analyse cases prior to human pathologists' review and enable better, fairer, more trusted diagnostic decisions

Provide decisions support tools that enable focusing on cancerous slides and areas of interest

Enable faster diagnosis

Drive better patient outcomes and save lives, particularly when dealing with highly impacting diseases

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Life flows through our software

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