# VISIO ///// PHARM®

#### **AI-Powered Digital Pathology**



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Marc Verkooijen, Clinical Account Executive, Central Europe 0

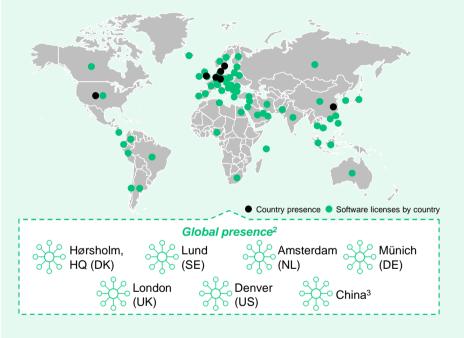
#### Visiopharm is a world-leader in Al-driven precision pathology software

#### Visiopharm at a glance

- Visiopharm is an established market leader worldwide, supporting scientists and pathologists across biopharma, academia, and diagnostic pathology labs in more than 40 countries
- Visiopharm is delivering industry-leading, Al-driven precision pathology solutions across the research-diagnostic continuum based on a scalable technology platform, which is infinitely configurable for scientists and locked and regulated for diagnostic pathologists - enabling translation between research and diagnostics through deep regulatory expertise



#### Strong geographical reach and customer traction





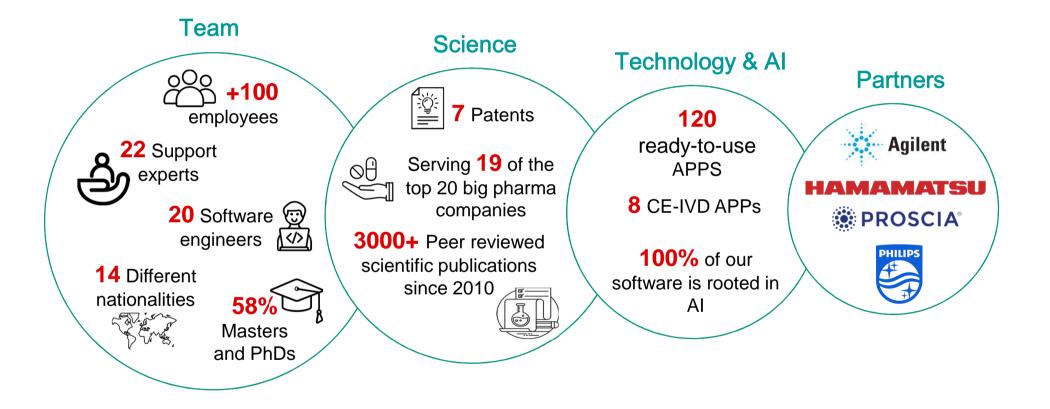
~900 software licenses sold worldwide in more than 40 countries



Highly diversified customer base with ~25% of software revenue generated by top 10 customers in 2020/21A



#### Empowered by People, Science, AI and Partners



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#### Disclaimer

Alle producten in deze presentatie die gemarkeerd zijn als CE-IVD zijn alleen voor gebruik binnen de Europese Unie. In alle andere regios, zijn de producten alleen voor Research inzetbaar.

## Al-powered pathology solutions for today, empowering pathologists for tomorrow



#### Data & Tissue Quality

Quality first mindset throughout the entire tissue diagnostics ecosystem



#### **Productive Workflows**

We put the puzzle together; enabling automation rather than human time throughout the digital pathology workflow



#### **Open & Configurable**

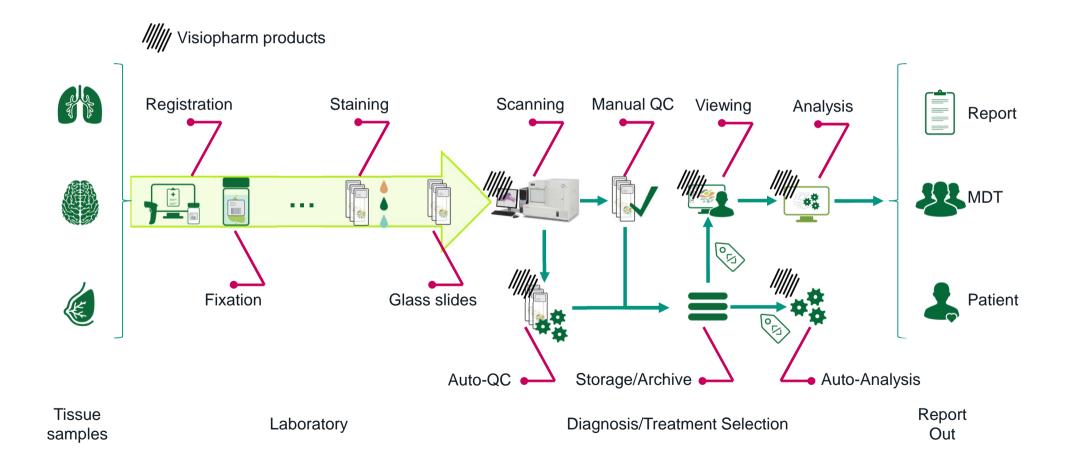
Vendor agnostic, 50+ formats, powerful analysis solutions that are highly flexible & configurable



#### Secure, Scalable

Our solutions deploy and scale across local, distributed or cloudenabled environments; empowering labs of all sizes to have access to digital pathology solutions





#### **Example Setup**





Case viewing screen

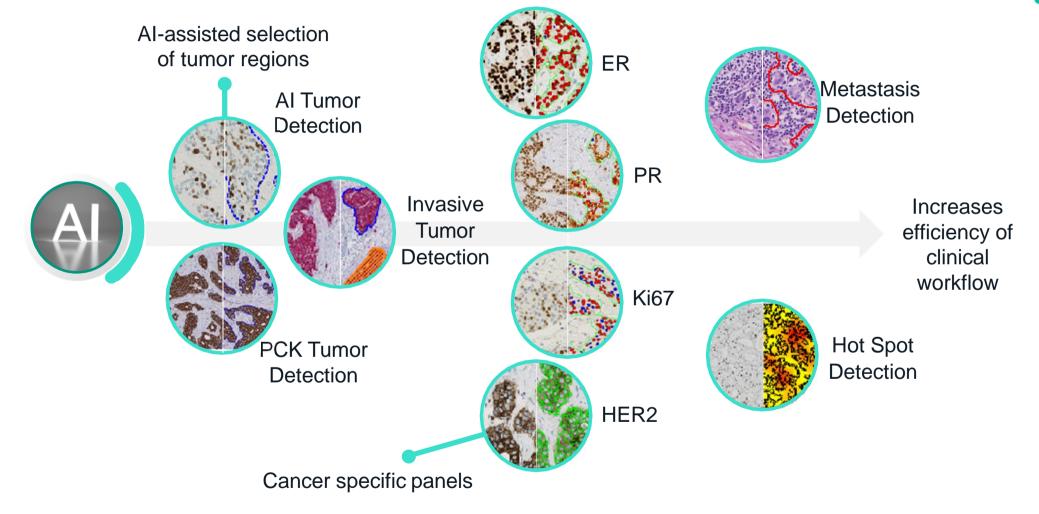
Image (analysis) screen

#### Diagnostische APPs





#### AI Image Analysis for Diagnostics



\*In EU: CE-IVD, in US and others: For research use only, not for use in diagnostics procedures

#### Ki67 Breast automated image analysis



Value

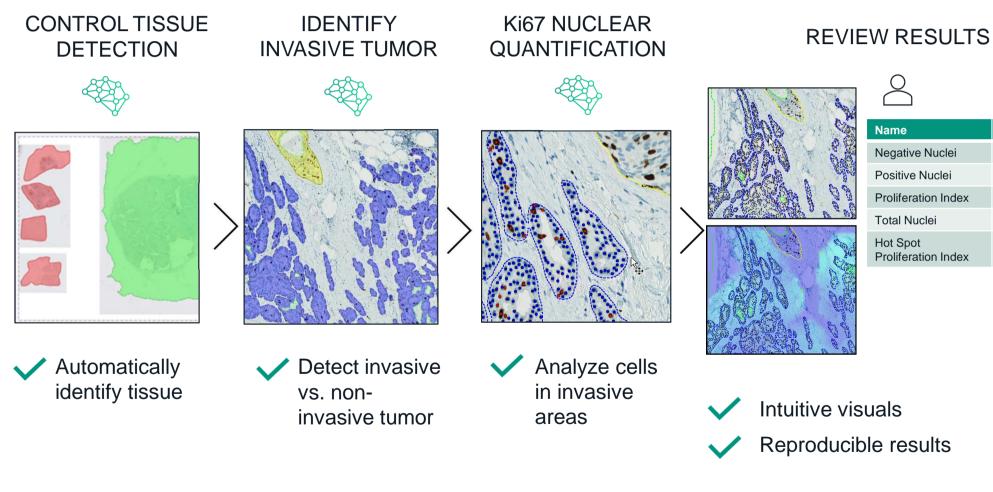
449,148

73,837

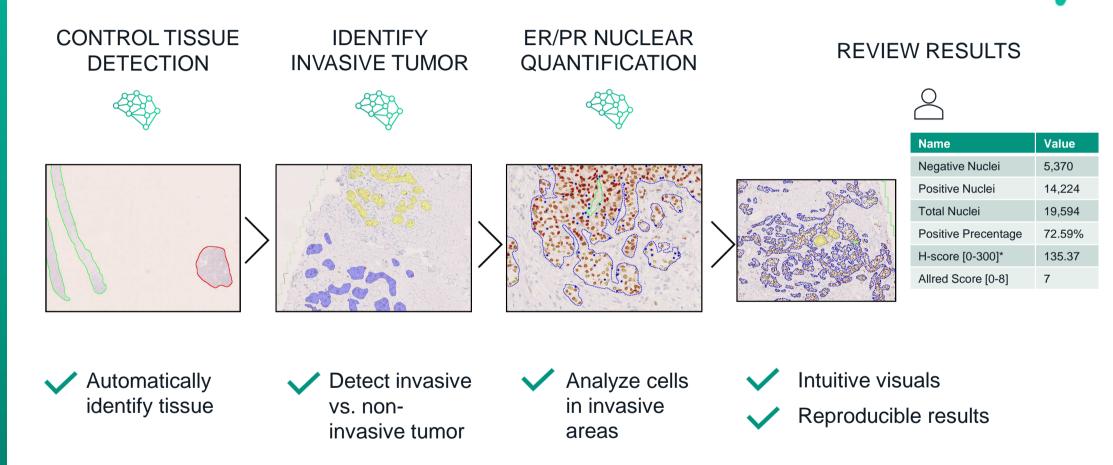
14.12%

522,985

87.36%



#### **ER/PR Breast** automated image analysis

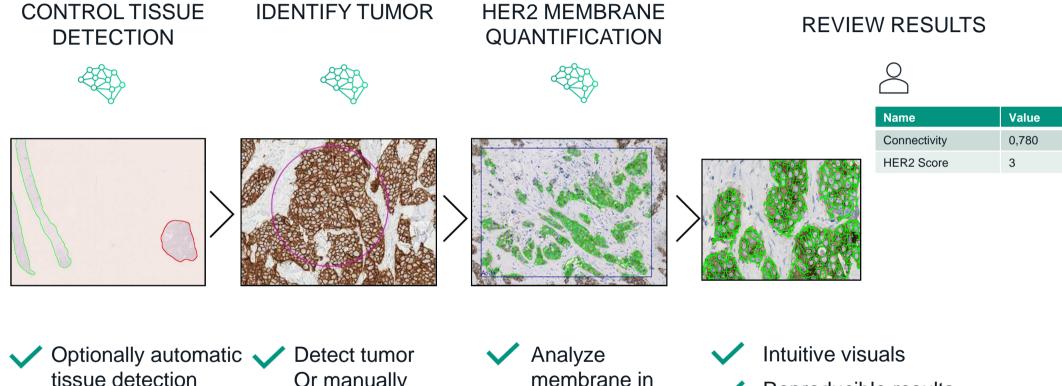


\* Allred & Immunoreactive Score (IRS) can also be reported

#### **HER Breast** automated image analysis



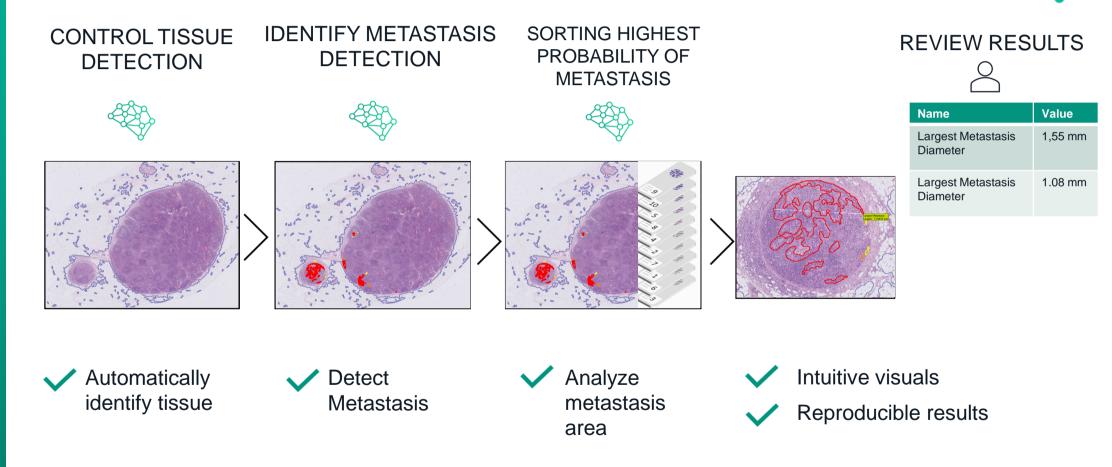
Reproducible results

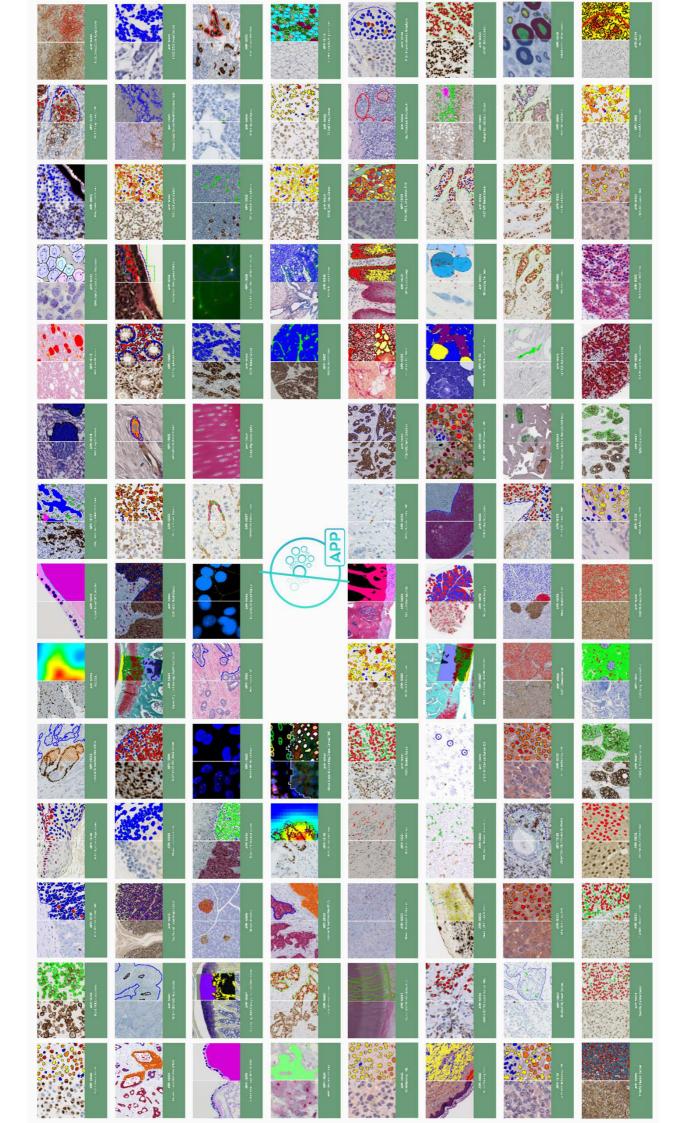


Or manually outline

membrane in tumor area

#### Metastasis Detection automated image analysis





#### Een paar voorbeelden





- Region South Denmark (DK)
- Scanner: Oncotopix Scan (Hamamatsu)
- LIS: CGI
- IMS/PACS: Sectra



- UZ Leuven (BE)
- Scanner: Philips UFS
- LIS: Own Development
- IMS/PACS: Philips Intellisite



- Vestre Göteland, VGR (SE)
- Scanner: Oncotopix Scan (Hamamatsu)
- LIS: Tieto (Sympathy)
- IMS/PACS: Hyland VNA

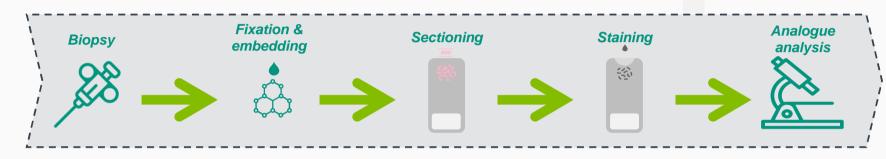


# VISIOPHARM®

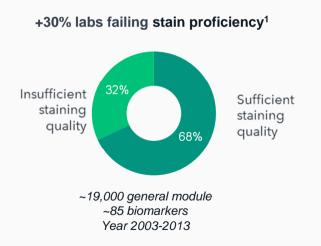
Al-driven stain consistency standardization of IHC



# Stain quality remains a challenges throughout the pathology workflow



Results of stain quality challenges in conventional workflows





Lack of sufficient standardization of IHC results in significant increases in healthcare cost<sup>2</sup>

1: Vyberg, M. & Nielsen, S. Proficiency testing in immunohistochemistry—experiences from Nordic Immunohistochemical Quality Control (NordiQC) 2016. 2: Vyberg M, Nielsen S, Røge R, Sheppard B, Ranger-Moore J, Walk E, Gartemann J, Rohr UP, Teichgräber V. Immunohistochemical expression of HER2 in breast cancer: socioeconomic impact of inaccurate tests. 2015. External quality assessment is essential in pathology Quality drift and fluctuations between runs are not detected

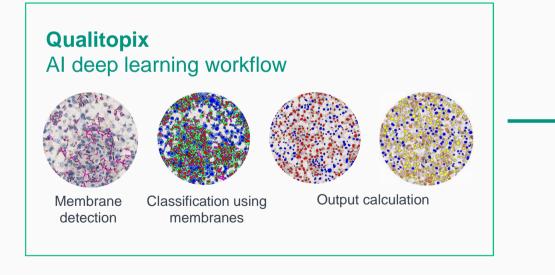


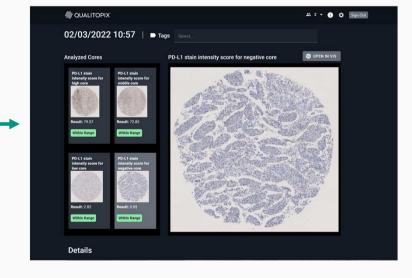
Reference: Data on file from UK-NEQAS.

Qualitopix is een doelgerichte oplossing die uw kleurings consistentie kan meten, bewaken en documenteren d.m.v. Algestuurde standaardisatie van uw weefsel biomarkers

### **Objective and robust testing** of your stain consistency

Objectively and reproducibly measure your stain consistency by using advanced AI deep learning technology and reference material. Qualitopix has been tested for more than a year across many diagnostic pathology lab with major staining instruments and important clinical assays.







Cloud-based stain quality management solution that combines powerful AI technology with reference material



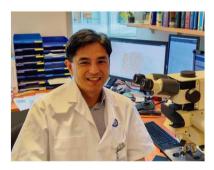


## End-user feedback has been an essential part of the Qualitopix development



Thanks to Qualitopix, we can check to quality of these important stainings continuously and can be fully confident that our assessments are correct"

*Tri Q. Nguyen, MD PhD, Pathologist at UMC Utrecht, The Netherlands* 



Thanks to the feedback we got, we were able to stabilize important markers like HER2 and PD-L1, and could solve some issues with our stainers"

Sven van Kempen, Histotech at UMC Utrecht, The Netherlands The upload is easy and the graphic visualization of staining variation in our lab has aided us in identifying problem areas."

Kristina Lystlund Lauridsen, Research Bioanalyst and Project Coordinator at Aarhus University Hospital, Denmark

