



ITRES[®]

BIG DATA GUARD

AI HEALTHCARE

DIGITAL PATHOLOGY WORKFLOW

Histological examination

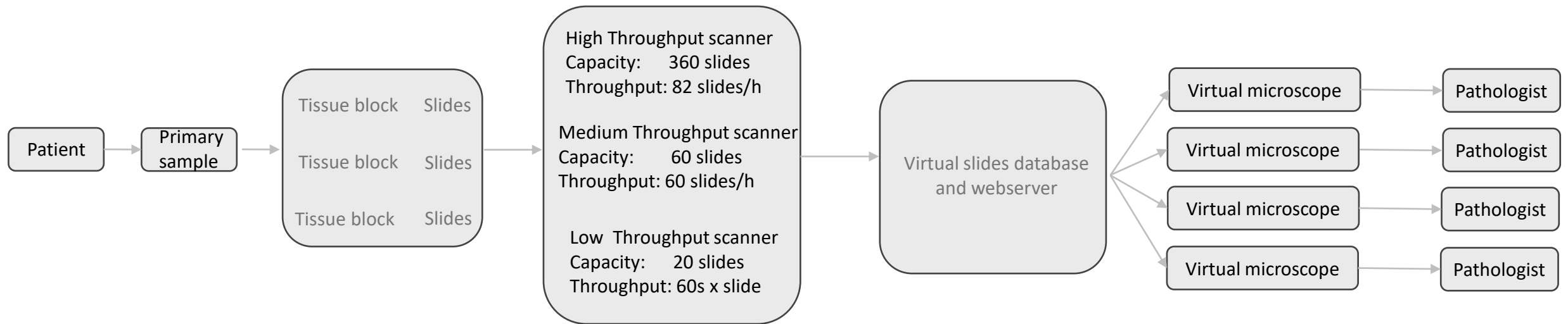
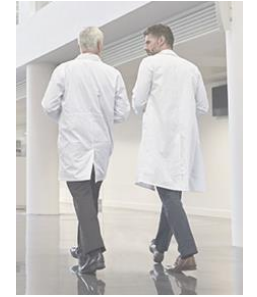
Patology laboratory sample processing

Scanner digitization procedure

Data Storage and sharing server

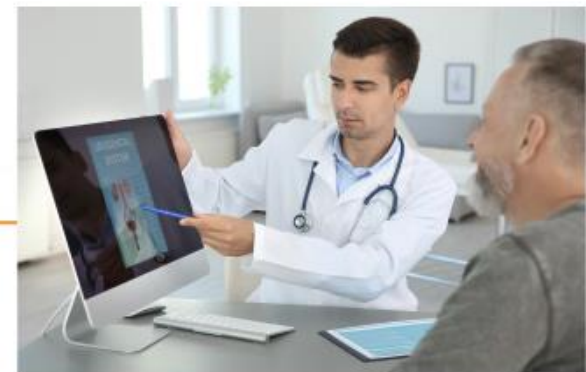
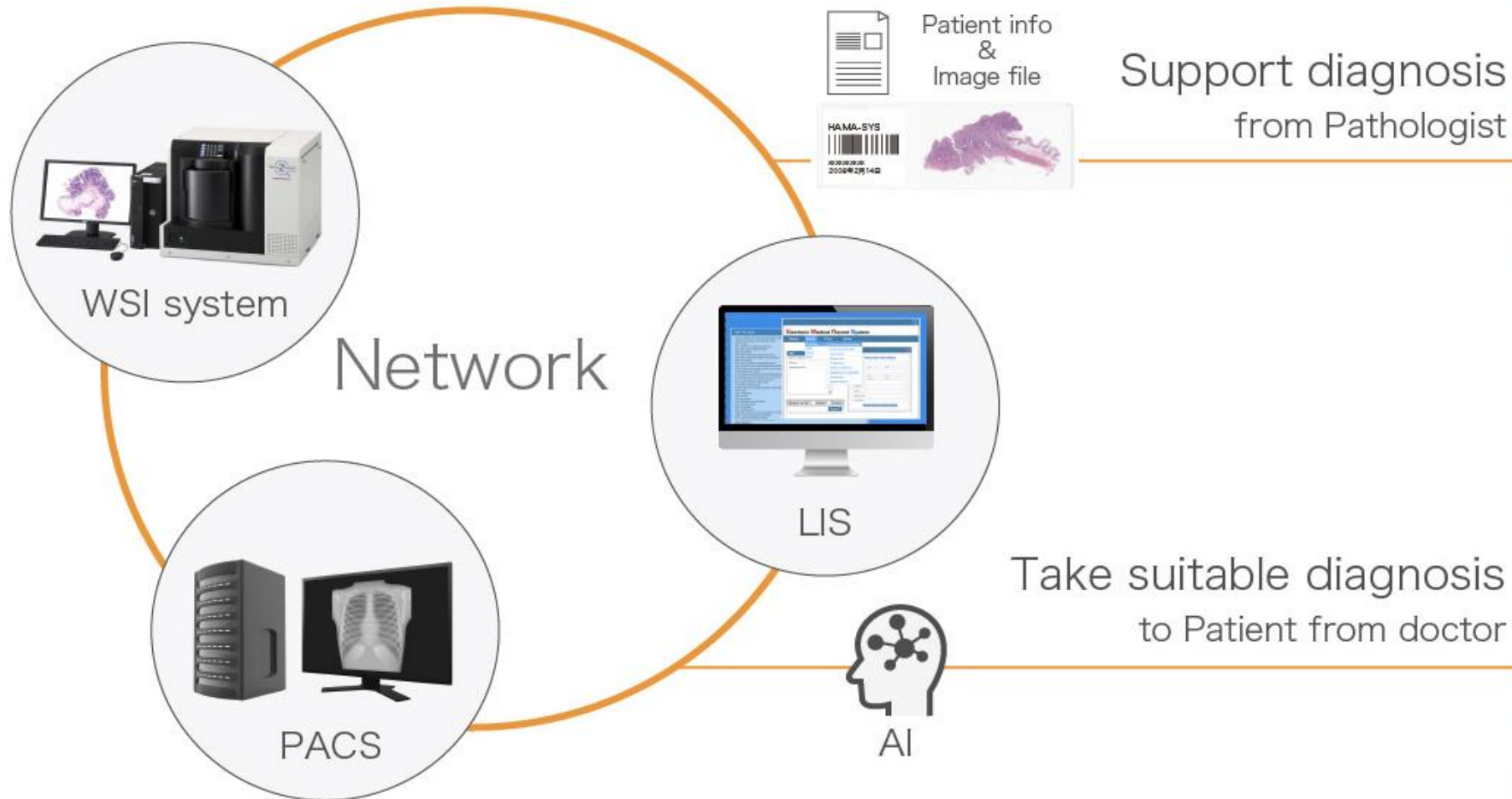
Virtual slide sharing for digital pathology

Diagnosis





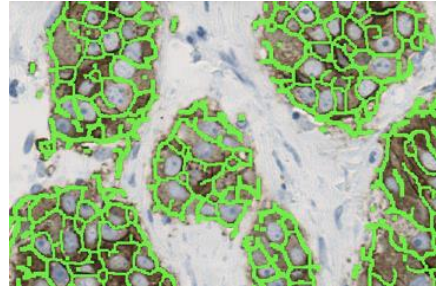
System integration with Intranet



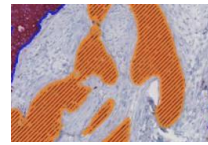
Data Storage and sharing server



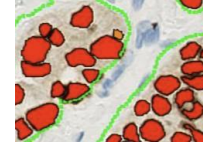
Software AI-driven Image analysis



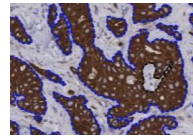
Dedicated AI-driven module tumor detection



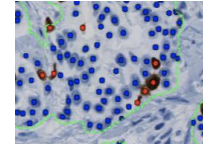
Invasive Tumor detection



Her 2 breast cancer

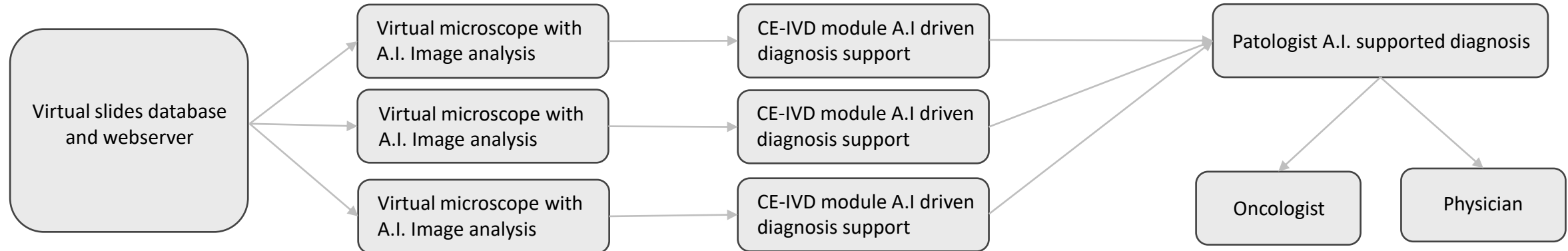


PCK VDS, Tumor detection

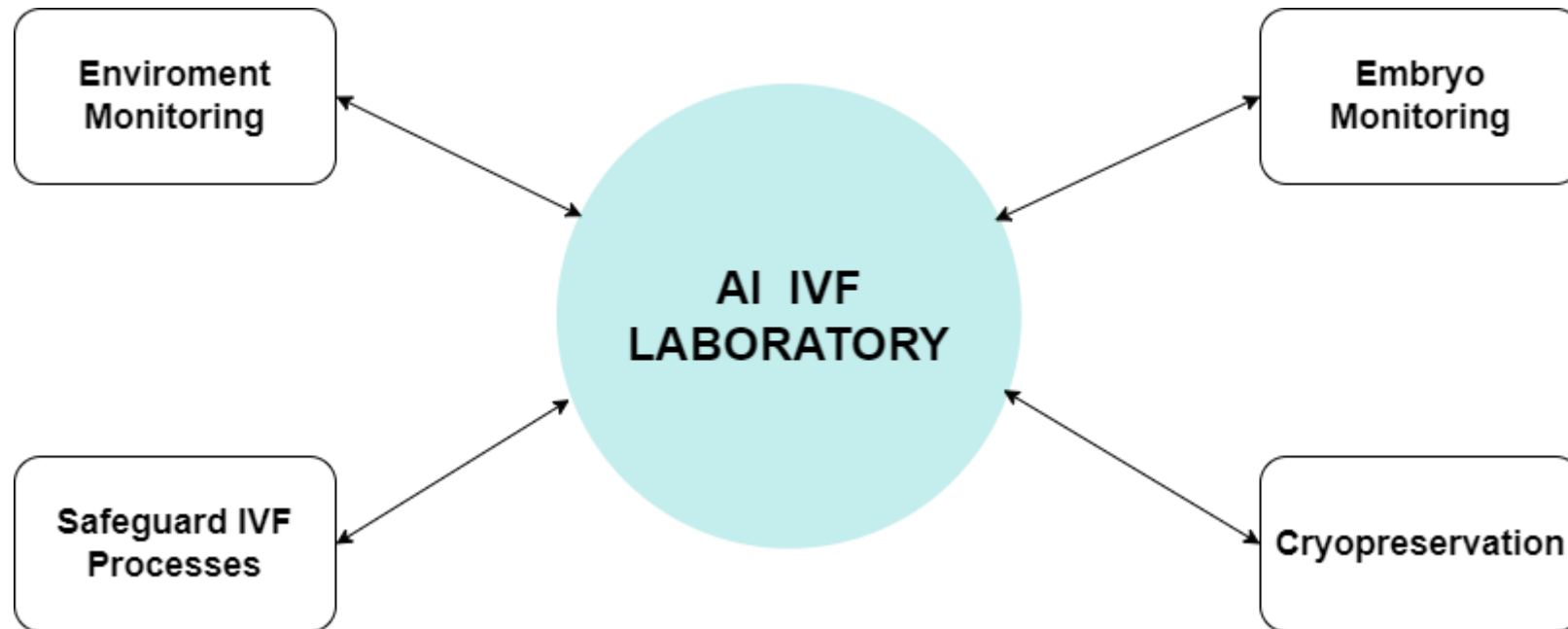


KI 67 breast cancer

A.I supported pathologist diagnosis



Artificial Intelligence and predictive Analysis to finalize the best result



We provide straightforward and immediate solutions for monitoring and controlling environments. Our expertise lies in designing and implementing alarm monitoring and automated management systems tailored for Biobanks, Cryobanks, Laboratories, Research Centers.

- ✓ 24/7/365 Monitoring of critical parameters
- ✓ Real Time multi-platform AI smart alerts
- ✓ Redundant security in alarms and logging of data
- ✓ High adaptability of the system to different environments and instruments
- ✓ Quick and non-invasive installation
- ✓ Developed in collaboration with industry operators

Smart UNI - 100

Currently SmartWeb is able to monitor:

- Incubators
- Refrigerators (> 0°)
- Freezers (-20°, - 80°, - 150°)
- Cryogenic containers with liquid nitrogen
- Temperature-controlled environments
- O₂ – CO₂ Environments concentration



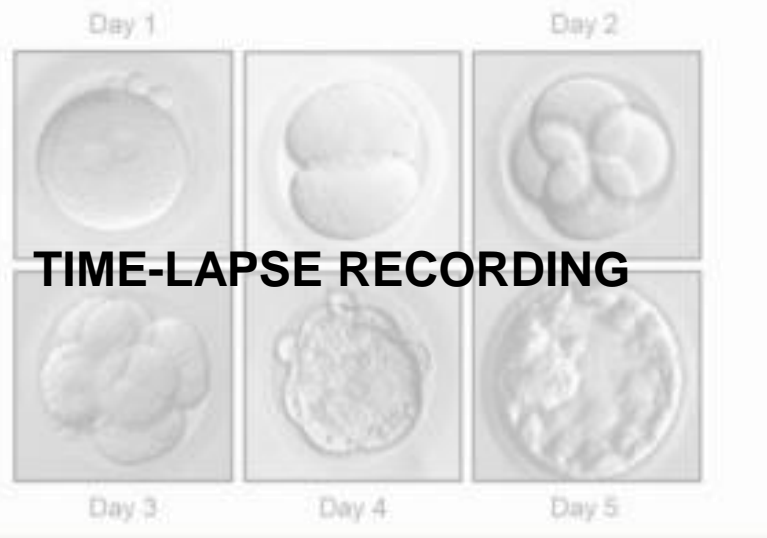
- Temperature (-200° to + 150°)
- CO₂ and O₂ concentration
- Instrument's dry contacts / relay
- 4 – 20 mA output
- Serial interface rs232 / 485 / modbus
- Relative humidity
- Differential pressure
- Weight of cryogenic containers (from Q1/2024)

- Improves patient scheduling and documentation procedures in fertility clinic
- Tasks and procedures scheduled promptly post-consultation stage
- System updates all scheduled tasks/procedures in real-time with any treatment modifications
- Automatically generates task or to-do list for missing data, ensuring comprehensive data collection for each cycle.



- Verification and recording of oocytes, embryos, and sperm samples during transfer through devices
- Elimination of the need for human double-witnessing
- Guarantee of correct sample processing and handling at all times
- Prevention of accidents due to accidental mismatches or mix-ups

Introducing an AI-driven scoring system capable of conducting fully automated analysis of time-lapse sequences. With just a simple touch of a button, you can now receive an objective ranking based on the probability of achieving a fetal heartbeat on days 2, 3, or blastocyst stage for all of a patient's embryos simultaneously.



The advancement of freezing technology, such as vitrification, and embryo culture, including time-lapse microscopy, has made One by One IVF possible in recent years. We are prioritizing the integration of these technologies into our program, and our initial findings indicate that they significantly enhance the likelihood of successfully bringing home a healthy baby.



- Cryo Control system enhanced with Artificial Intelligence leveraging Big Data analytics
- Automated monitoring and management of cryogenic storage facilities
- Real-time data analysis for predictive maintenance and optimization
- Integration of machine learning algorithms for anomaly detection and fault prediction
- Utilization of large datasets to identify trends and improve cryopreservation processes
- Enhanced efficiency and reliability through AI-driven decision-making
- Continuous learning and adaptation to evolving conditions for improved performance.



- Integration of cutting-edge technologies and equipment
- Rigorous testing and quality assurance protocols
- Ongoing support and maintenance services
- Collaboration with clients to ensure satisfaction and success of the laboratory implementation.

- Tailored laboratory solutions according to specific client needs and requirements
- Comprehensive project management from conception to implementation
- Customized design and layout for optimal functionality and efficiency

