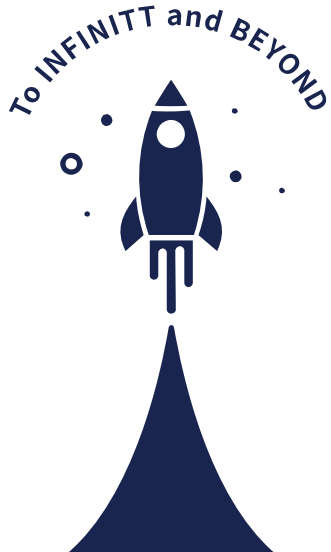
International Collaborative Research Proposal

June 2024



INFINITT Healthcare

Company Profile

INFINITT Healthcare provides
medical imaging · information solutions
and creates a virtuous cycle
by reinvesting profits earned
into developing better products & services

	INFINITT Healthcare Co., Ltd.
Founded	December 2002
Type	Public (listed in 2010 on the Korean Exchange)
Global offices	U.S, Japan, China, Taiwan, Malaysia, UAE, Germany, U.K, Brazil and about 50 dealers worldwide
Employees	630 (2023)
Customers	Over 6,300 facilities worldwide in 55 countries (2021)
Business	Medical Imaging software & services

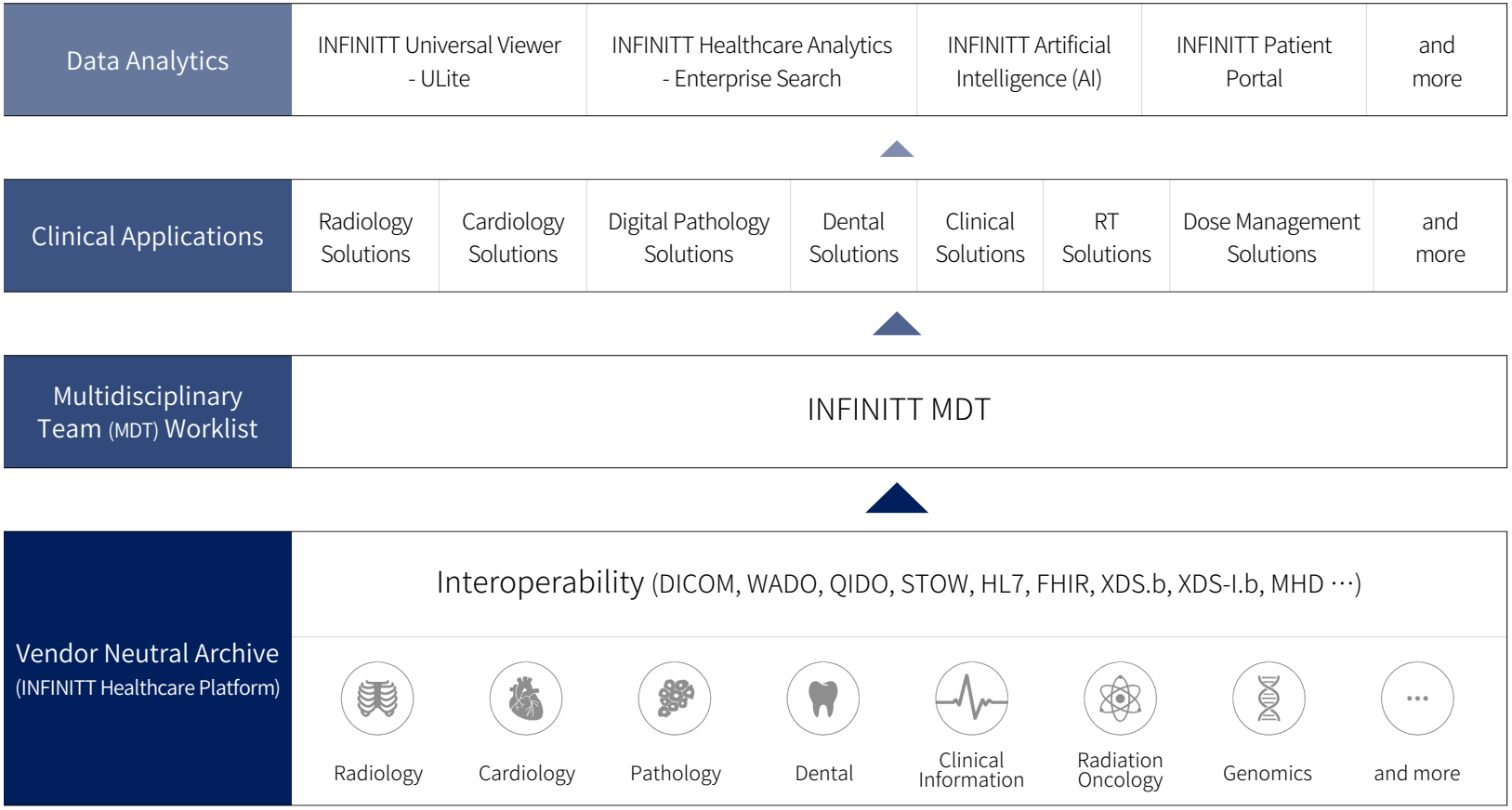
Global Network

INFINITT provides optimized solutions & services through its local and global offices.

1. INFINITT headquarters - Korea
2. INFINITT Japan
3. INFINITT China
4. INFINITT Taiwan
5. INFINITT South East Asia
6. INFINITT Indonesia
7. INFINITT Middle East Asia
8. INFINITT Europe
9. INFINITT France
10. INFINITT UK
11. INFINITT North America
12. INFINITT Brazil

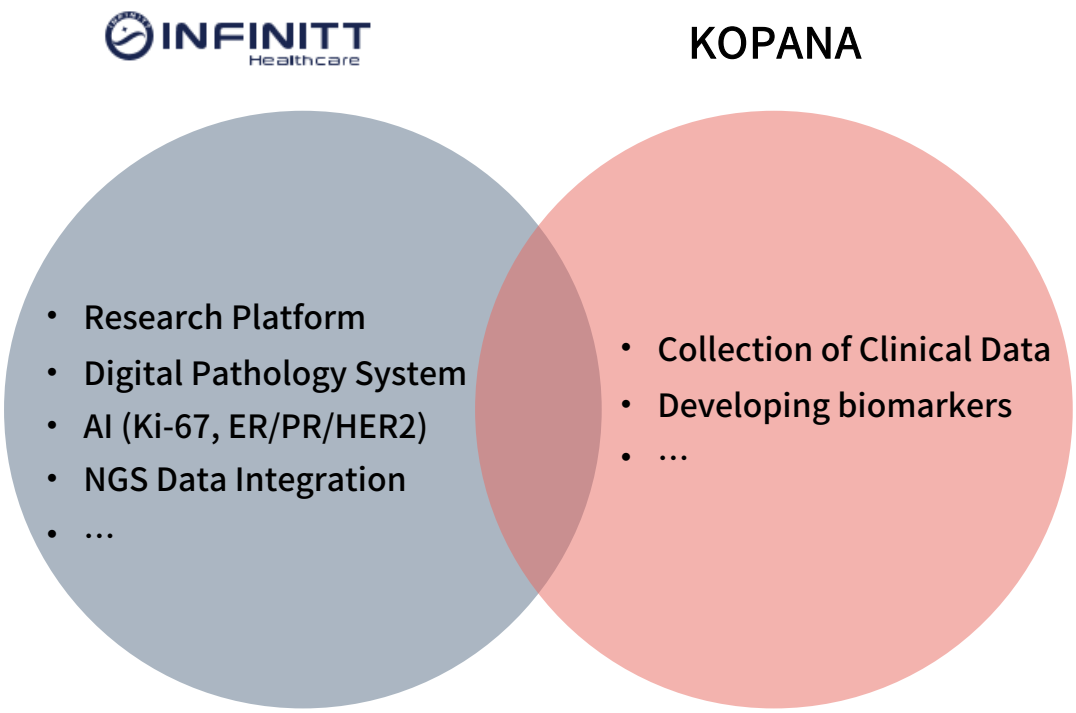
Roadmap

INFINITT proactively responds to the fast-changing industry trends such as big data application, multidisciplinary and patient-centered care.



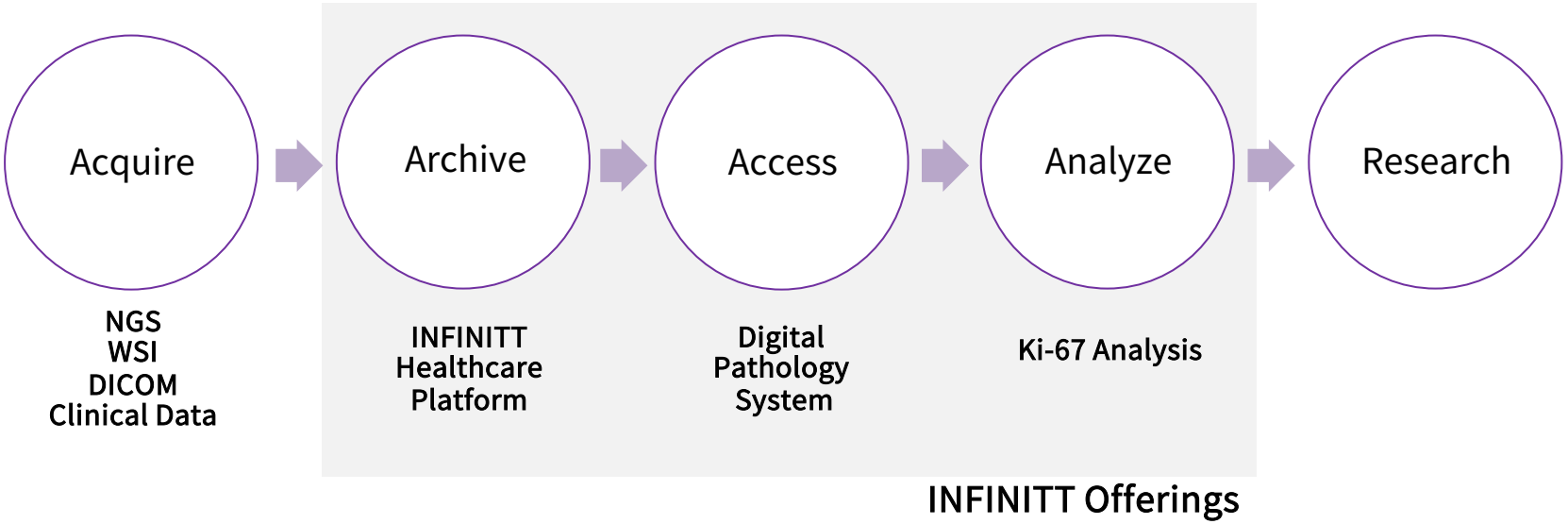
Research topic : DPS-based AI+NGS collaborative research

Developing biomarkers for diagnostic or prognostic purposes by collecting and analyzing genetic and phenotypic data to identify patterns, correlations, and genetic variations associated with specific phenotypes.



INFINITT Offerings ：DPS and AI+NGS based Research Platform

- Accessing and storing various type of research data
- Integrating NGS analysis solution
- Connecting with other research platforms
- Research-friendly management platform



Trends in the Correlation Study between Phenotype and Genotype ①

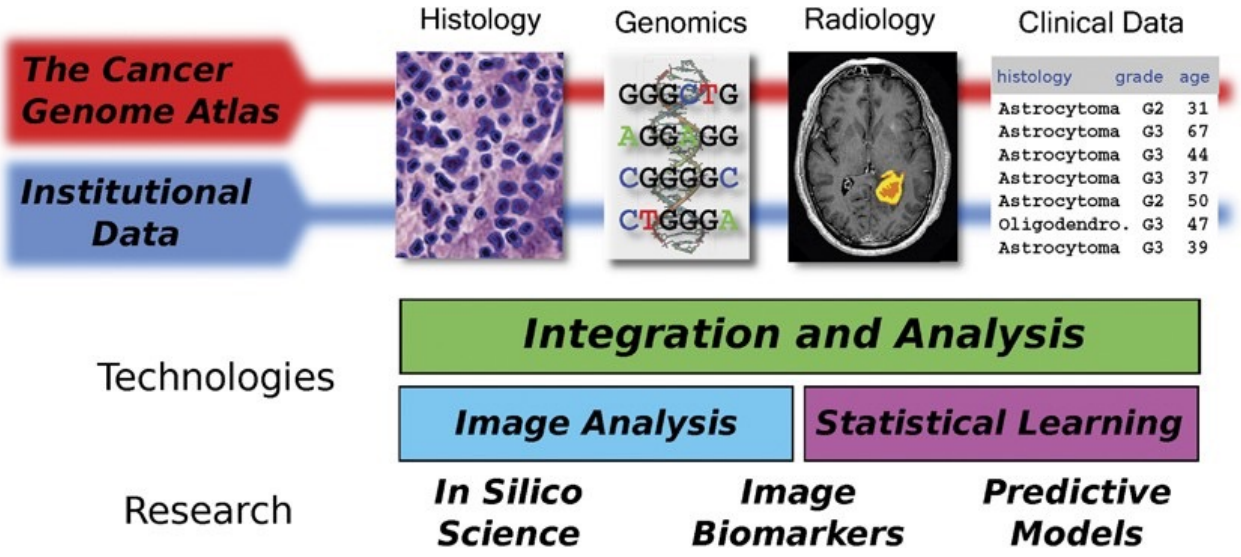
Published: 19 January 2015

Novel genotype-phenotype associations in human cancers enabled by advanced molecular platforms and computational analysis of whole slide images

Lee AD Cooper, Jun Kong, David A Gutman, William D Dunn, Michael Nalisnik & Daniel J Brat

Laboratory Investigation **95**, 366–376 (2015) | Cite this article

- By integrating WSI (Digital Pathology) + Genomic + Radiology (DICOM) + Clinical Data, image biomarkers of genetic mutations can be identified and a prediction model for clinical outcomes can be built.



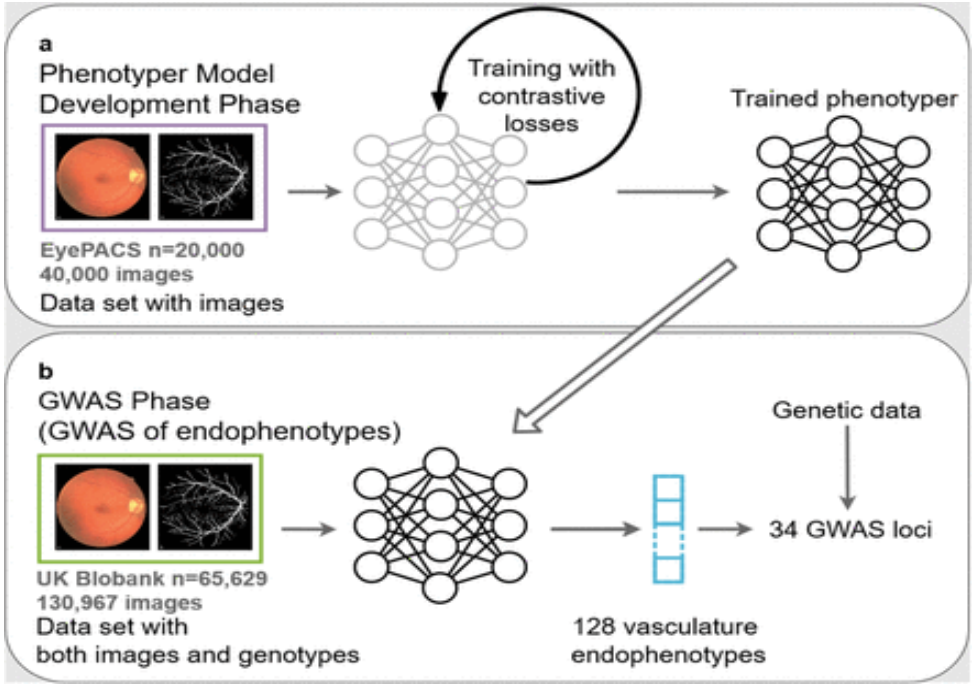
https://www.nature.com/articles/labinvest2014153#citea

Trends in the Correlation Study between Phenotype and Genotype ②

iGWAS: image-based genome-wide association of self-supervised deep phenotyping of human medical images

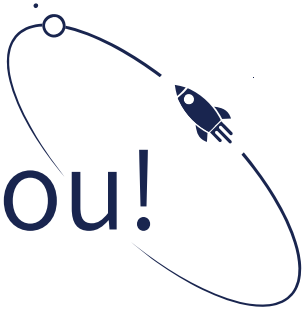
Ziqian Xie, Tao Zhang, Sangbae Kim, Jiaxiong Lu, Wanheng Zhang, Cheng-Hui Lin, Man-Ru Wu, Alexander Davis, Roomasa Channa, Luca Giancardo, Han Chen, Sui Wang, Rui Chen, Degui Zhi

- The primary goal of iGWAS is to identify genetic factors using phenotypes discovered in medical images
- Through iGWAS, new phenotypes can be discovered in medical images, and these can be utilized to identify genetic factors



https://www.medrxiv.org/content/10.1101/2022.05.26.22275626v2.full

Thank you!



Please contact Seungho Ryu (shryu@infinitt.com) for further discussion.

INFINITT Healthcare