

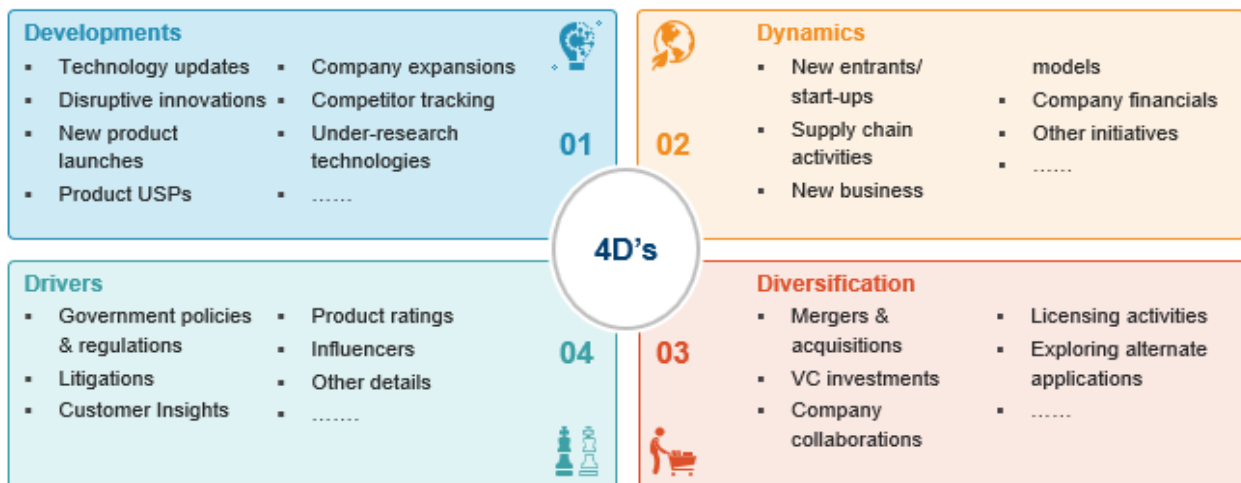
# INTELLOTRACKER

## AI IN ONCOLOGY FOR CANCER DETECTION

JUNE 2023



### ARANCA'S QUARTERLY SECTORIAL UPDATE ACROSS FOUR DIMENSIONS....





## DEVELOPMENTS

Under-research technologies		New research studies from Volpara Health demonstrated the important role artificial intelligence plays in objective breast density assessment, cancer risk assessment, and mammography quality evaluation to personalize and optimize breast cancer detection. Source: <a href="#">Imaging Technology News</a>
Under-research technologies		Oracle is developing an AI platform that utilizes quantitative phase imaging to detect radiation resistance in cancer, enabling highly accurate and cost-effective cancer diagnoses through automated and sensitive morphological recognition. Source: <a href="#">Oracle Blog</a>
Technology/Innovations		MIT researchers have developed an AI model that can detect future lung cancer risk. The Deep-learning model takes a personalized approach to assessing each patient's risk of lung cancer based on CT scans. Source: <a href="#">MIT Website</a>
New product launches		Medtronic and NVIDIA will integrate NVIDIA healthcare and edge AI technologies into Medtronic's GI Genius™ intelligent endoscopy module, developed and manufactured by Cosmo Pharmaceuticals. GI Genius is the first FDA-cleared, AI-assisted colonoscopy tool to help physicians detect polyps that can lead to colorectal cancer. Source: <a href="#">NVIDIA Press Release</a>



## DYNAMICS

New Entrants/Startups		Atom360's Berry.care is an app that allows patients to conduct convenient mouth checkups using their smartphones, utilizing AI algorithms to detect lesions and enabling early oral cancer detection without the need for appointments. Source: <a href="#">YourStory Blog</a>
New Entrants/Startups		South Korean startup Lunit said its artificial intelligence-powered cancer-detecting solution has received approval for use from the European Union. Source: <a href="#">UPI Health News</a>
New Entrants/Startups		NIRAMAI is creating a breast cancer detection method that makes use of thermaletics, or artificial intelligence applied to thermography images. Its primary goal is to decrease breast cancer fatalities by promoting early detection / identification. Source: <a href="#">VIE Stories</a>
New Entrants/Startups		Oxford Cancer Analytics (OXcan), an Oxford-based startup, has come up with a way of detecting some of the deadliest types, like lung cancer, at an early stage by using machine learning to analyse blood tests. Source: <a href="#">Sifted Article</a>



## DIVERSIFICATION

Company collaboration		Qure.ai and Therapixel Announce Partnership to Improve Access to Breast Cancer Detection Through AI, whereby Qure.ai will be a global distributor for Therapixel's MammoScreen. Source: <a href="#">Imaging Technology News</a>
Company collaboration		Turbine and Cancer Research Horizons utilize AI-powered simulations to assess the effectiveness of treatment with CRT'2199 by inhibiting CDC7 in digital cancer cells, aiming to identify responsive cancer types and patient populations. Source: <a href="#">BusinessWire</a>
Company collaboration		AstraZeneca Thailand announces partnership with Phyathai 2 Hospital to introduce AI to enhance the detection and diagnosis of early-stage lung cancer. Source: <a href="#">AstraZeneca Website</a>
Company collaboration		Sonrai Analytics and Alliance Care Technologies have formed a strategic partnership to bring Sonrai's AI cancer detection technology to the UAE, benefiting oncologists, hospitals, and medical providers by improving cancer detection and biomarker discovery. Source: <a href="#">Silicon Republic Blog</a>
Company collaboration		Google is partnering with Chang Gung Memorial Hospital (CGMH) in Taiwan to explore using ultrasound for breast cancer detection using AI models. Source: <a href="#">GoogleHealth Blog</a>
VC Investments		South African e-health startup Envisionit Deep AI has raised US\$1.65 million in funding to democratise access to diagnostic imaging and detection using artificial intelligence (AI). Source: <a href="#">Disrupt Africa</a>
VC Investments		Glasgow, Scotland-based startup Dxcover has raised \$11.9 million in series A and grant financing to support the development of its liquid biopsy technology platform for the detection of early-stage cancers using artificial intelligence algorithms. Source: <a href="#">Photonics Media</a>
VC Investments		French AI biotech unicorn Owkin has launched a €33 million AI-powered precision medicine project for cancer detection and treatment. Source: <a href="#">TechEU</a>

VC Investments		<p>Qritive, a healthcare AI startup has raised \$7.5 million in funding led by MassMutual Ventures. The startup provides fast and accurate interpretations of pathology whole slide image scans within seconds for cancer detection.</p> <p>Source: <a href="#">HealthWorld</a></p>
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## DRIVERS

Others		<p>Small Business Research Initiative (SBRI): Skin Cancer detection using Artificial Intelligence initiated a funding competition supported by the Scottish Health Industry Partnership (SHIP).</p> <p>Source: <a href="#">UK Government Website</a></p>
Others		<p>The European Cancer Imaging Initiative is progressing with the EUCAIM project and the AI Testing and Experimentation Facility for Health (TEF-Health), aiming to finalize the pan-European digital infrastructure design and establish collaboration mechanisms by December 2023.</p> <p>Source: <a href="#">European Commission</a></p>
Government regulations		<p>FDA Updates Mammography Regulations to Require Reporting of Breast Density Information and Enhance Facility Oversight.</p> <p>Source: <a href="#">FDA Website</a></p>

## SOLUTION PORTFOLIO – TECHNOLOGY RESEARCH & ADVISORY

<b>IP STRATEGY</b>	<b>TECHNOLOGY INTELLIGENCE</b>	<b>GROWTH &amp; STRATEGY</b>

How best can we proactively manage and monetise our technical knowhow / intellectual property?

How best can we keep abreast of technology trends, competitor activity and headwinds / tailwinds in our domain?

Which technologies do we invest in? How do we ensure quick wins? Speed to market?

- IP Portfolio Analysis
- IP Monetisation
- IP Valuation
- Prior Art Searches

- Competitor Benchmarking
- Tech / IP Landscapes
- Technology Watch
- Market Analysis / Trends

- R&D Strategy Roadmaps
- Technology Scouting
- Open Innovation
- Product Development

GROWTH ADVISORY	INVESTMENT RESEARCH & ANALYTICS	VALUATION & FINANCIAL ADVISORY	TECHNOLOGY RESEARCH & ADVISORY	PROCUREMENT & SUPPLY CHAIN INTELLIGENCE

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