## The 2024 Artificial Intelligence in Diagnostic Imaging Landscape

Medical imaging is an essential approach in diagnosis and treatment of various conditions, with estimates that about 90% of health care data are medical images and are a critical source for clinical decision making. Health systems spend an estimated \$65 billion each year on imaging, and approximately 80% of all hospital and health system visits include at least one imaging exam.

Artificial intelligence (AI) applications that process and analyze medical images and optimize workflows have gained prevalence in scientific research and are becoming part of clinical practice, bringing the ability to improve accuracy, efficiency and personalized healthcare delivery.

A variety of AI companies are pursuing clinically relevant solutions and are partnering with health systems, research institutions, pharma companies and diagnostic imaging hardware manufacturers in bringing validated tools to clinical practice. These tools are gaining regulatory approval, being reimbursed by payers and ultimately are being implemented in hospital practice.

<u>Click here</u> to learn more about the report.



## **Table of Contents**

OVERVIEW	
The 2024 Artificial Intelligence in Diagnostic Imaging Landscape	5
EXECUTIVE SUMMARY	6
AI ADOPTION IN DIAGNOSTIC IMAGING	7
Radiology Department Uses in 2024	7
Workflow	7
Clinical Decision Support & Image Analysis	g
Large Language Models (LLM) in Radiology	11
Use of General LLMs in Radiology	11
Multimodal AI Models & Diagnostic Imaging	13
AI RESEARCH & CLINCIAL ADVANCES IN IMAGING	14
PACS & Enterprise System Evolution with AI Adoption	17

AI PRIMARY	DATA ACROSS MODALITIES	18
Early Adop	otion of AI Applications in Radiology	19
Prioritizati	ion of Radiology Use Cases for AI Applications	21
Al Conside	eration and Usage	25
BUSINESS LANDSCAPE OF AI IN RADIOLOGY		27
AI Softwar	re Companies in the News	28
Diagnostic	Imaging Company Leaders in Al	29
GE Heal	lthcare	29
Siemen	s Healthineers	31
Philips I	Healthcare	33
Technolog	gy Company Leaders in Al	34
Profiles of	Companies Involved in Imaging AI	35
Braid He	ealth	36
Cellmat	iQ GmbH	37
Covera	Health	38
Diagnoo	cat	39
DilenyT	ech	40
Dr CAD	×	40
Dyad M	ledical, Inc.	40
GLEAMI	ER	41
Hasty.a	i	41
HeartLa	ab	42
Hexarac	d Ltd	42
Imageri	e.fr	43
Intixel		44
Intellige	ent Retinal Imaging Systems – IRIS Pensacola, Florida	44
MARS B	Bioimaging Ltd	45
Mediwh	nale	45
Olea Me	edical	46
Persimi	0	47
Promed	lius Inc.	47
Quantiv	vly	48

	Qubiotech	48
	Quibim	48
	Rology	48
	ROB'E	49
	RT MEDICAL SYSTEMS	49
	Synapsica	50
AI REGULATION		51
A	Al Market Approval Processes	51
	FDA and AI Regulation	51
	FDA AI Program Approvals	53
	CE Mark and AI	54
(	Other Global AI Collaborators	54
	Good Machine Learning Practice (GMLP)	54
CO	NCLUSION	54