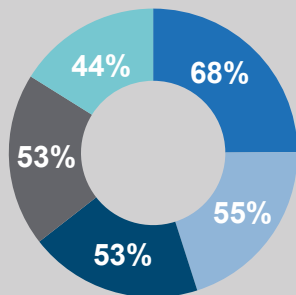


Applicability and importance of Artificial Intelligence through Machine learning, Natural Language Processing, Deep Learning and Visual Recognition is well understood by Life-Science Industry. One of the slowest adopters of AI transformation, Life-Science industry is gaining steady momentum in transforming their R&D, Clinical Operations, Regulatory & Safety services and Post Market activities.

Augmented Intelligence over Artificial intelligence is the way Pharmaceuticals would want machines and systems to cooperate in clinical development. It will simply assist the experts make the most correct decisions instead of making the decision itself.

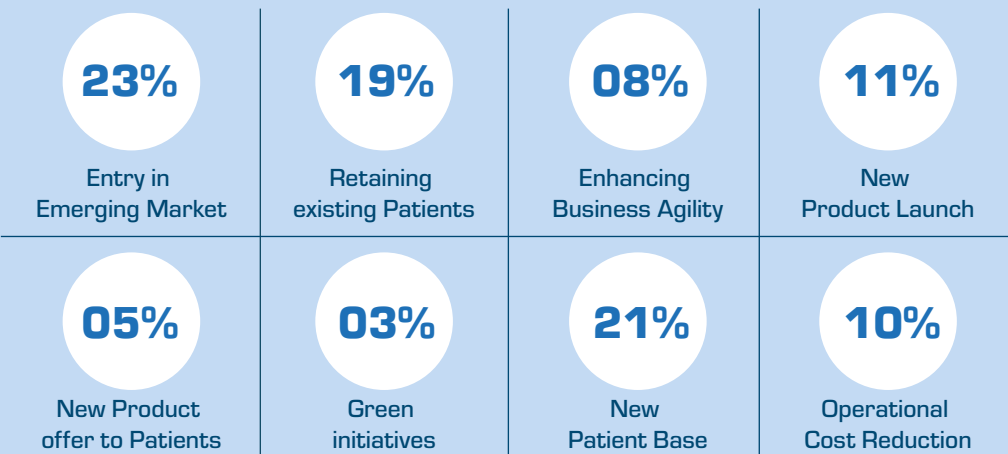
Overall AI Utilization in Life-Science Companies from survey done on 174 companies



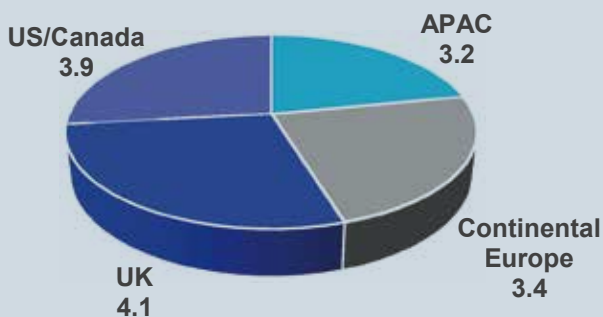
- General AI
- Algorithms Augmenting Human Cognition
- Machine Learning
- Natural language Processing
- Computer Vision

Outsourcing Outlook in Life-sciences

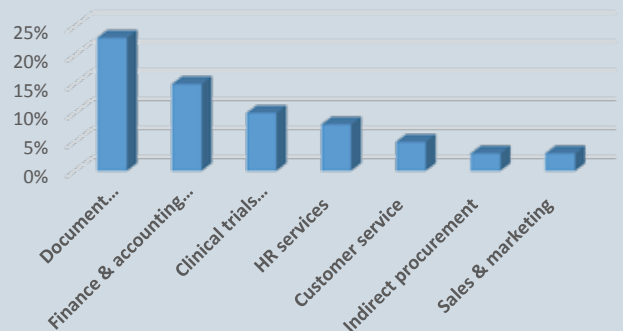
Primary reasons for Pharmaceutical Outsourcing



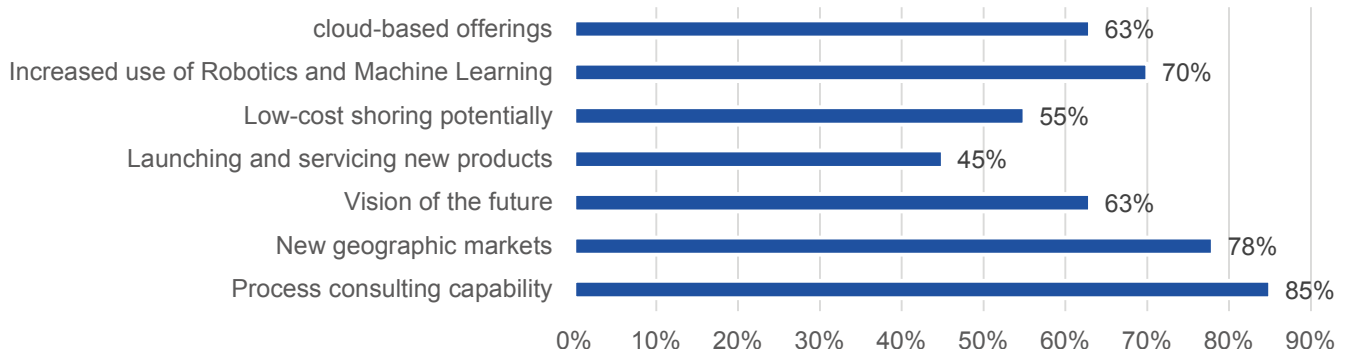
Automation acceptance by Pharmaceuticals by Region. On a scale of 5



Horizontal Services Outsourcing Pattern



Capability acceptance by Pharma clients



High Potential Process Choices for Transformation

Clinical	Safety Services	Regulatory Services	Commercial Services
Clinical data Management	AE Case Processing-Utility Model	Regulatory Publishing	PSP- Disease Mgmt.
Medical Writing	ICSR/AR/PSUR Reporting	Regulatory Submission	Post marketing Surveillance
Clinical Trial Management		CES/CER Writing	Connected Health
		Signal Detection & Risk Mgmt.	Field Support
		Artwork & Pack Mgmt.	

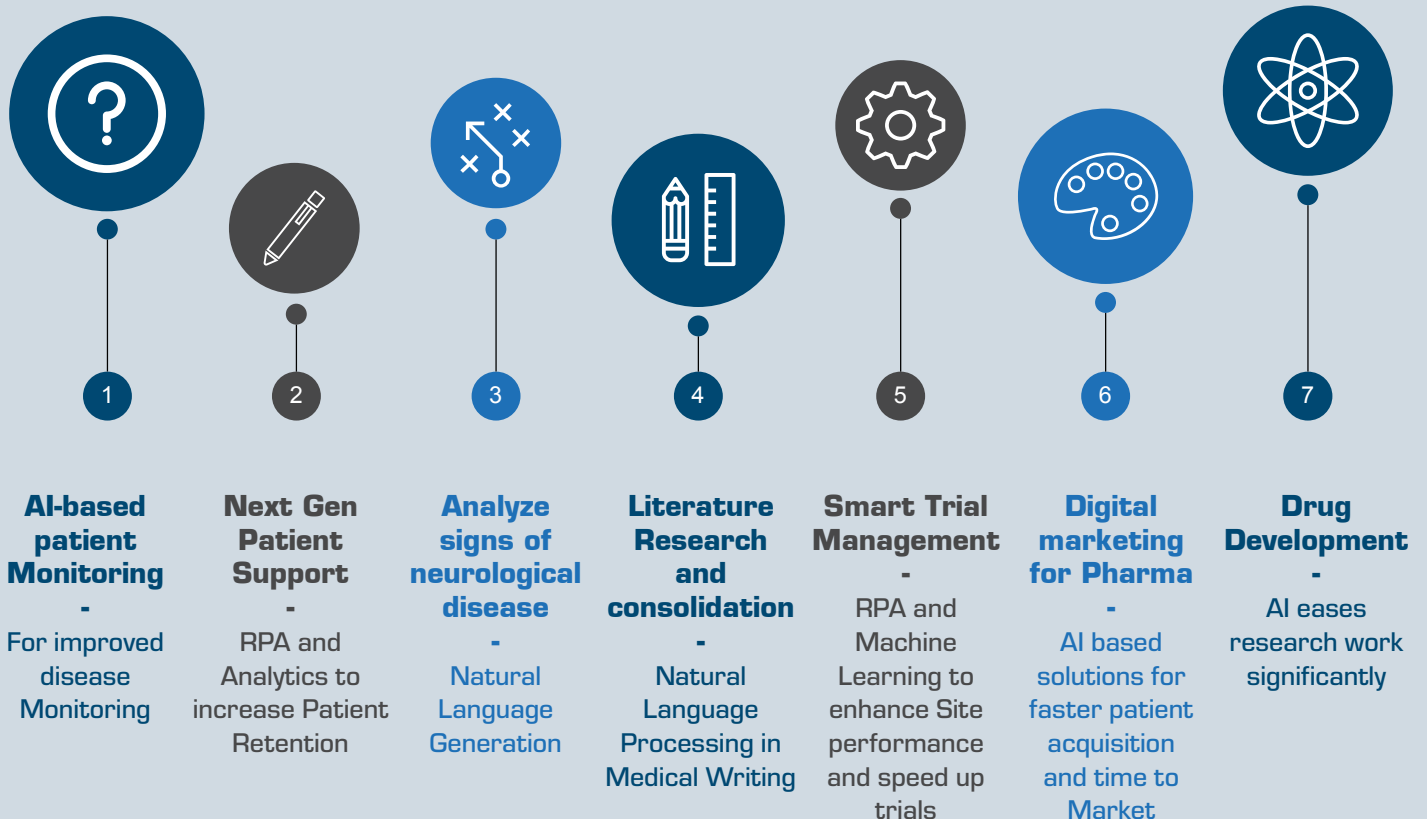
Defining AI Applicability



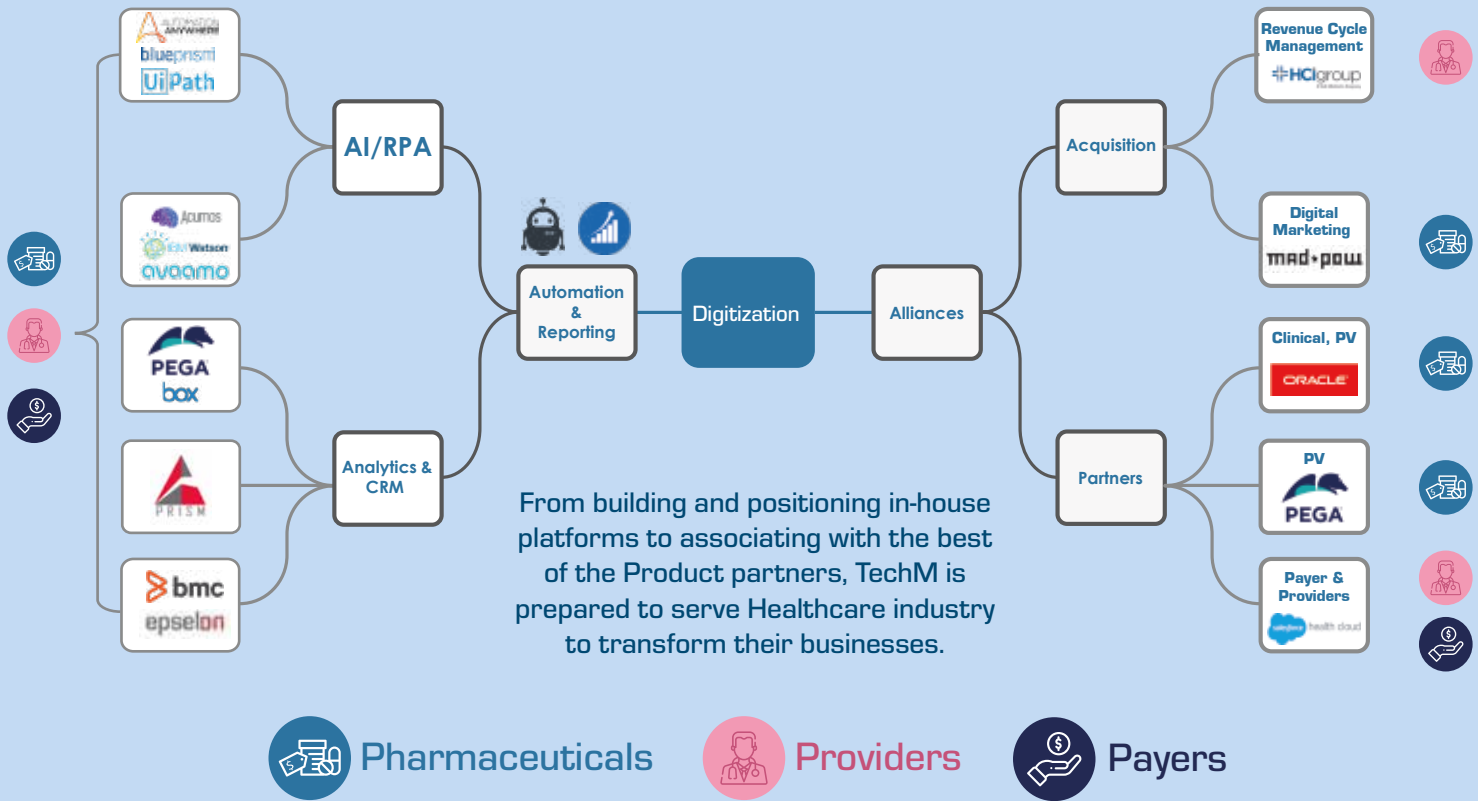
The defined applicability are basis Industry & Operational experience and the same may vary basis process study and process related matrix present in the respective organization for each processes.

Mapping of services with respective AI function is done basis potential prevalence of an AI function and its fitment in a service. In one process there can be more than one AI functions applicable and the same will be decided post due diligence and requirement analysis.

TechM AI & RPA propositions



Our Healthcare Enterprise Transformation Framework



Views from other Global Leaders

RPA can help health care and life sciences organizations collect and translate patient and transactional data into meaningful, actionable formats; streamline compliance-related processes; and relieve employees of some tasks they now perform.

WSJ

Finally, there is a solution that automates virtually any manual, repetitive, task that needs to be applied to content to ensure it is accessed and acted on as part of critical healthcare business processes. A new digital workforce made up of intelligent software robots is helping healthcare organizations automate the flow of information from multiple EHRs, partner ecosystems, finance and accounting systems, and payer portals without complex coding.

KOFAX

AI and RPA can help hospitals and health plans supercharge back-office staff and improve the customer experience.

Deloitte

As we look toward the future of healthcare, there are four industry-level changes that could disrupt healthcare value pools as they exist today: modernized transaction and data infrastructure; radically more efficient medical supply chain; faster, more effective therapy development; and new, personalized, and intuitive healthcare ecosystems.

McKinsey & Company

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