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March 26, 2025

BSE Limited,
Phiroze Jeejeebhoy Towers,
Dalal Street,
Mumbai- 400001, India.
Scrip Code: 544172

National Stock Exchange of India Limited
Exchange Plaza, C-1, Block G,
Bandra Kurla Complex, Bandra (E),
Mumbai - 400 051, India.
Trading symbol: INDGN

Dear Sir / Madam,

Sub: Investor Presentation

Pursuant to Regulation 30 of the SEBI (Listing Obligations and Disclosure Requirements) Regulations 2015, please find enclosed a copy of Investor Presentation for the upcoming Analyst/Investor meet.

The aforementioned presentation has been uploaded on website of the Company: https://www.indegene.com/

This is for your information and records.

Thanking you,

Yours sincerely,

For Indegene Limited

Srishti Ramesh Kaushik
Company Secretary and Compliance Officer



Indegene Limited

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CIN: U73100KA1998PLC102040

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Indegene's Approach to Gen Al

March 2025

Trends in Embedding LLMs into Business Processes

Initial Phase:Prompt Engineering

- Zero-shot, few-shot: Basic interaction with foundational models using explicit prompts.
- Limitations: Inconsistent outputs, prone to hallucinations

Intermediate Phase: Retrieval-Augmented Generation (RAG)

- Responses grounded in curated external knowledge sources.
- Limitations: Limited active reasoning capability

Current Phase:

Agents and Multi-Agent Orchestration

- Autonomous, reasoning-capable agents collaborating in real-time
- Enhanced accuracy and contextual reliability
- Tools, memory, and reasoning support

Increasing model capabilities, modalities, access, guardrails, and performance + maturing interoperability standards

Current Challenges



Domain Gap

Lack of deep domainspecific context



Validation Issues

Difficulty validating agent output and decision logic



Change Management

Complexity integrating agentic-workflows



ROI Realization

Challenges in use-cases and reducing time to true ROI

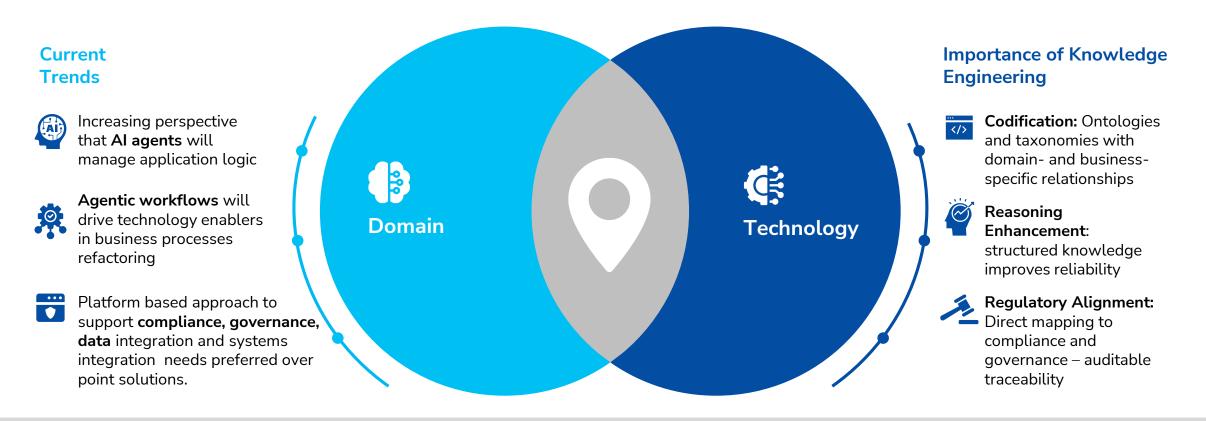


Regulatory Concerns

Compliance and risk management complexity



Our PoV on Building Agentic Business Applications



Knowledge First, Agents Follow:

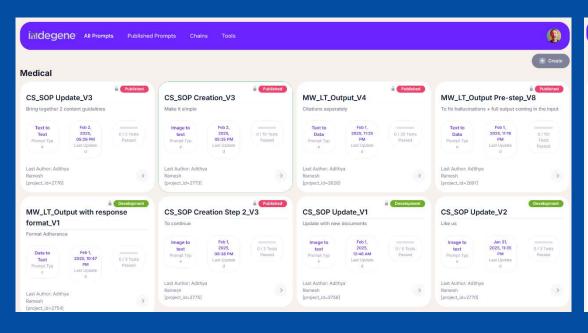
Expert-curated domain knowledge graphs augmenting business process agents leads to shorter time to ROI.

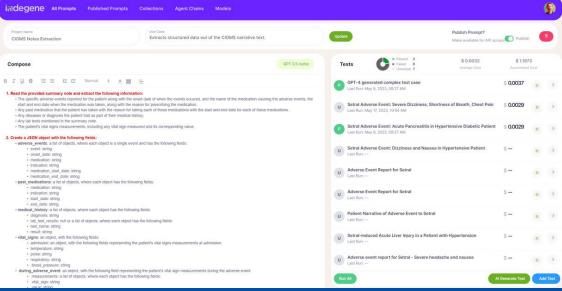




SME Workbench: Engineering using DSL (Domain Specific Language)

Revised SDLC with Domain Experts owning GenAl services and Engineering consuming those services



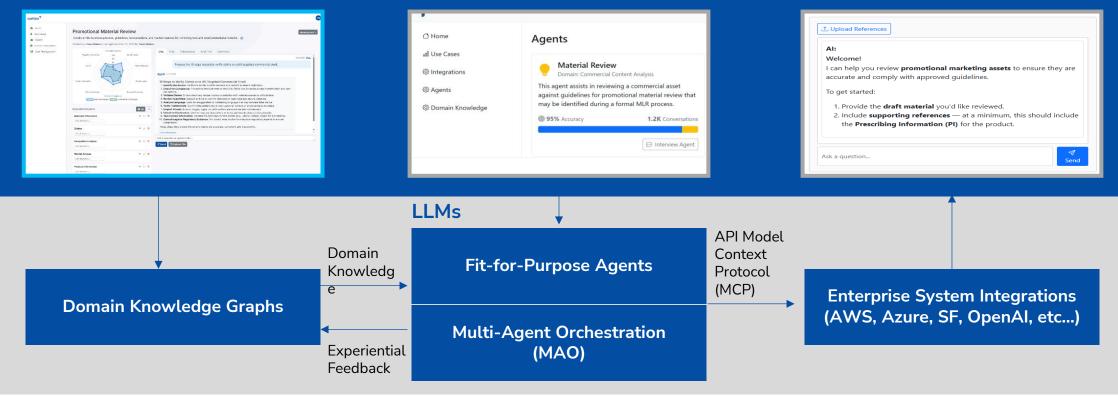


Cortex

Designed to scale the adoption of LLM-based verticalized agents across use cases with a pragmatic enterprise-grade approach

Knowledge Engineering Led By Domain Experts

Business Applications (Use Cases) Built With Agents





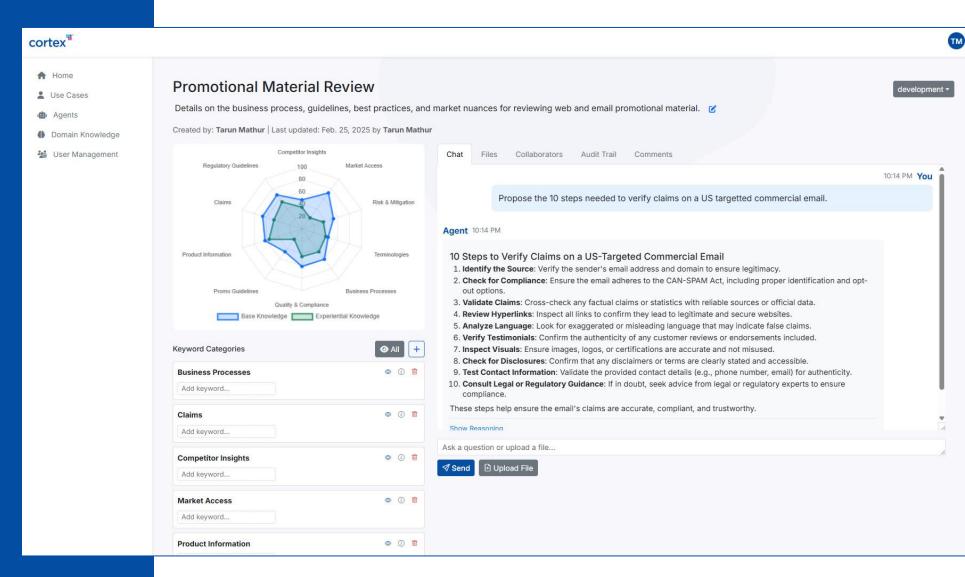
Cortex

Knowledge Engineering Interface (KEI):

The KEI allows subject matter experts to codify domain process knowledge into knowledge graphs using a domain expert friendly interface.

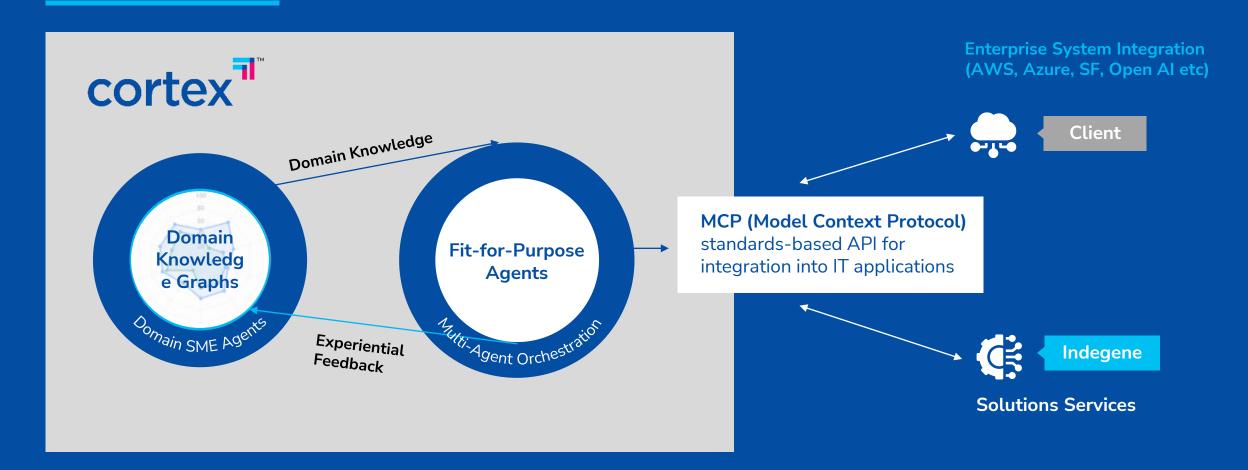
It facilitates evaluation of the depth and quality of the codified knowledge as well as continuous improvement.

These domain knowledge graphs capture the nuances and details about domain specific processes and tasks that are unlikely to be present in pre-trained models and benefit from continuous improvement.





Cortex Interoperability for IT Application Integration



8

Executive Summary of Indegene's View









Agents and Multi-Agent orchestration bring us closer to embedding **LLMs into business processes** with tangible ROI.

Successful
transformation of
business processes
through technology
will depend on a
knowledge
engineering mindset
connecting domain
experts to the
technology in
innovative ways.

A platform approach facilitates the shift of fragmented point solutions into agents powering application logic resulting in shorter time to ROI and increased compliance, governance, and scalability.

Leveraging modern agent interoperability standards and / or protocols allows enterprise IT to adopt agents into business processes with more control and personalization.



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Gen Al in Commercial

March 2025

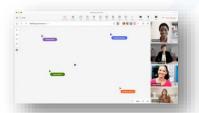
Gen Al-Powered Agentic Workflows in Commercial



Agent Driven Content Creation & MLR Automation

 Accelerating creative, copy, and modular content production using Content Agents

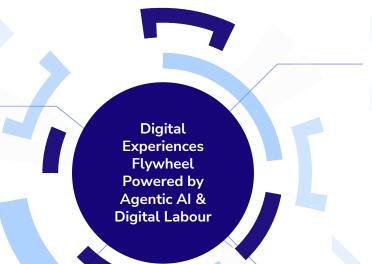
E.g. Transcreation, KOL Video, Content Al



Workflow & Collaboration

 Conversational interfaces & automated task management

E.g. Virtual Liaison

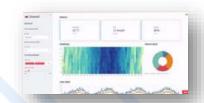




Experience Delivery & Activation

Contextual and human-like experience in delivery with immersive channels

E.g. Digital Avatar



Analytics & Optimization

 Digital agents working 24x7 to mine insights from content & interactions

E.g. Semantic Search





Front-runners

Providers ahead of the Fast-followers and rank in the top 35th percentile of the profiled firms Indegene as a Front-Runner in its "AI-Ideas to Action"
Operationalizing Generative AI in Life Sciences' Market Report

-2025

Expanding Focus & Disrupting Value Chains With Gen Al

Current Core Focus Shift Right (Downstream) Shifting Left (Upstream) (Content Creation & Production) (Localization, Delivery & Optimization) (Research, Ideation & Concepting) **Brand Strategy & Creative Conceptualization &** Offshore MLR & Campaign Analytics & Sales Global To Local Activation Content Production **Enablement Planning** Onshore Creative Design Studio Tagging Omnichannel Strategy Asset Copy & Material Content Creative Campaign **Asset Development** Asset Production Field Asset & Research **Planning Concepting Derivation Content Writing** Review **Deployment Activation Optimization** Localization ₽ (iiii Market/Competi Channel Strategy Creative Scientific. Creative Manuscript Creative Content Channel Functional MLR Review Localization Sales Rep Campaian Tactic tor Research. Key moments Brief. Bia Sourcing Design Medical & Development Development Tagging & Adaptation Execution & Build & Translation Deployment Detailing **Analytics** Consumer mapping, Persona ldea & & Creative & Layout Promotional Personalization Upload, Insights Brand ▲channel mapping Concepting Origination Writing Strategy & Positioning Research & Ideation Agent Concepting & Creative Agent Content Agent MLR Agent Content Tagger Replicator Campaign Agent Analytics Agent Agent Contextual Content Conversational Multi-modal research Creative ideation & concept Brainstorming & copy refinement leveraging existing asset Journey Mapper development Parsing Taxonomy Broad Insiahts Summarized insights on Copy creation for derivative assets Channel Mix Optimizer Automation Language Gen Al disease and therapy Creative Storyboarding Narrative Summaries Accelerate Code Generation, Code Matching, Code Modernization Personalization Engine Coverage powered Metadata Gen Al Journey Planner - Creative Personalization Desk Similarity Enrichment Journey Simulator Domain HCP/Patient journey Gen Al Powered Test Automation Scoring Customizabl Auto tagging through semantic search e Translation Proofing & Editorial Production Checks Ready Super App Agentic Workflow (Agent+ Human) GenAl Contextualizer & Guardrail- As-A-Service (CORTEX) aprimo zoom salesforce TEALIUM Veeva



MarTech Integrations

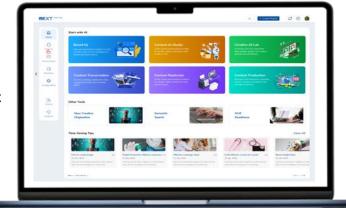
Super Agent – Gen Al Operating System for Commercial

Personalization at Scale Becomes the Standard, Not the Aspiration



Enterprise Content Super Agent

Powered by Cortex



GenAl Instant Content & Experience

with

Trust & Global Scale

Powered by

3P (Precision, Personalization, Performance)

Impact

3x Variation in Creative Personalization	Asset creation in real time	45% Hyper Automation in Replication
More Impactful Content	Hyper Personalization (n=1)	Real-time engagement insights and recommendations

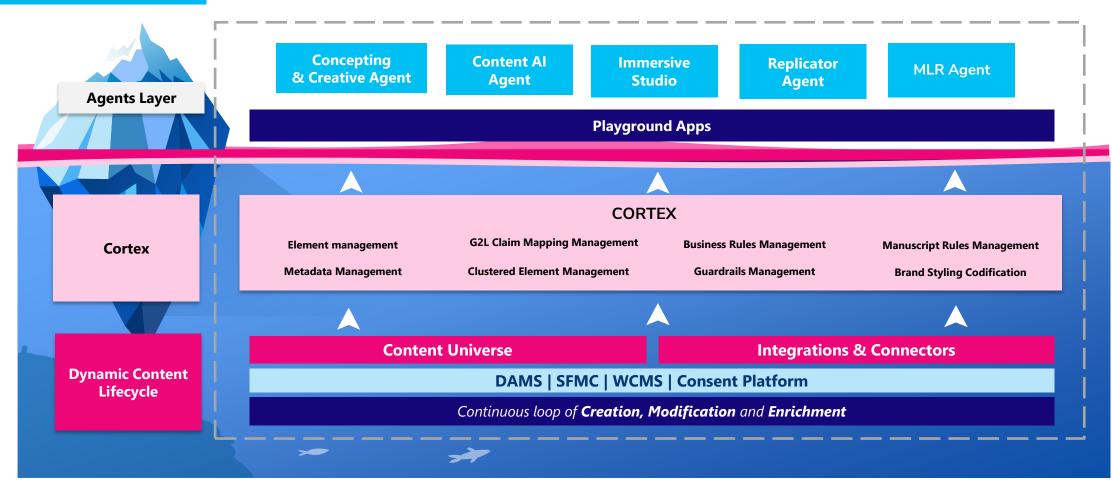


Enabling Value Through Super Agent

COMING And In Production With Top Pharma **Character Generation** Image Generation Design & Wireframe Creative Creatives Concepting Agent Storyboarding Agent & Localization & Localization **Template Generation** Generation Content Localization & Copy/ Content Written Content Translation Content MLR Agent Asset Transcreation Personalization Generation Storyboarding Agent Complete Expression Gen Al Powered Interactive **Avatars Based** Avatar Based **Immersive Studio** Avatar Based Videos **O&A Videos** PDFs. PPTs Podcasting control Website Chatbots Smart Suggestions & Narrative Summaries & Market Research Conversational Forecasting & Report Generation Research & Analytics **Next Best Action** Data Visualization **Predictive Analytics** Agent Dashboard Insights Domain Specific Knowledge (CORTEX)



Layered Super Agent Architecture





Making it real: Pillars that Power the future

01

Responsible Al

- FASTER Framework
- Compliance Standards- NIST AI RMF
- Data Privacy Regulations: GDPR, EU AI ACT, HIPAA, CCPA
- Human in the Loop (HITL)

02

Trust Layer Enablement

- Explainable AI
- Logging and Traceability
- Prompt Security and Safety Filters

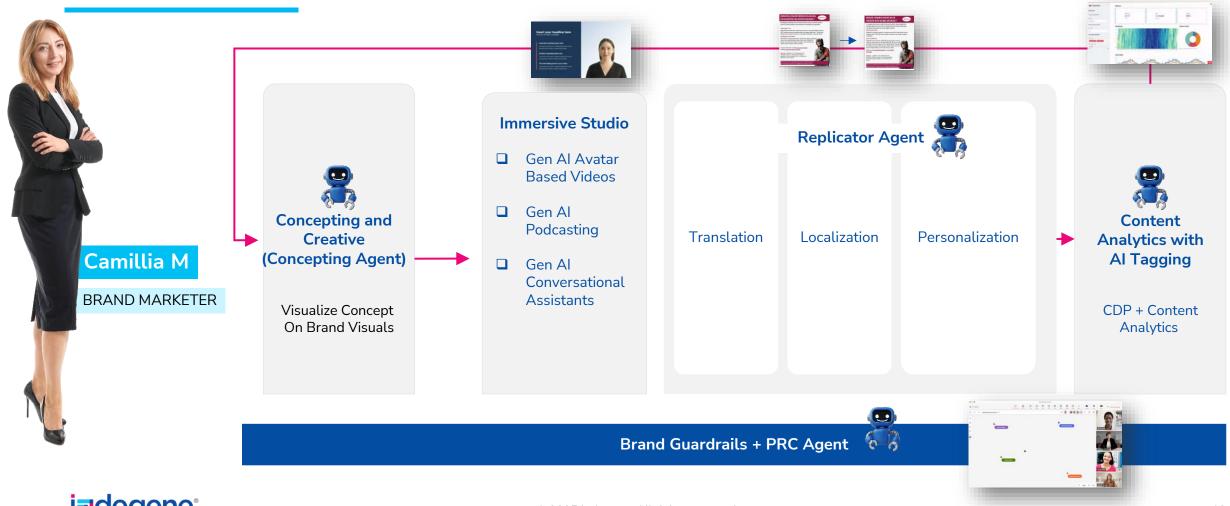
03

Pharma Guardrails

- Disclosures
- Label Codifications
- Live Compliance Scoring
- PII & Sensitive Data Controls
- Automated compliance checks
- Brand , Market, Persona guardrails



Transforming Marketer Experience with GenAl – Solving Content Scarcity & Personalization

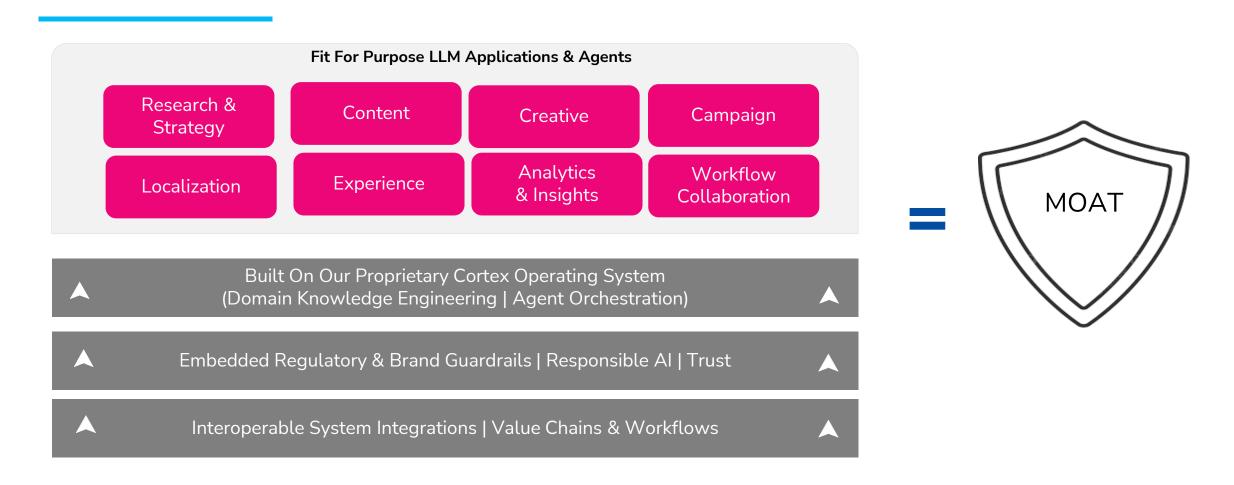






Why Indegene Wins

Enterprise-grade Gen AI solutions, purpose-built for Pharma. Trusted by IT, proven with Brand Teams.





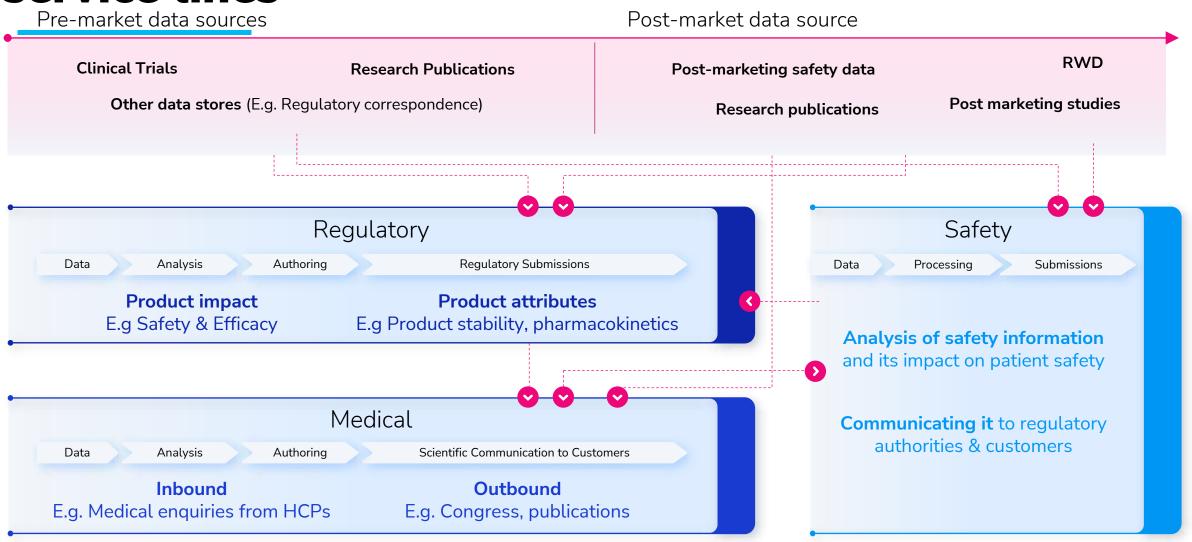


indegene®

Generative Al Enterprise Medical



Understanding the R&D value chain and EMS's service lines





The focus of our solutions is aligned to our clients'

Solutions Focus

Regulatory Data Analysis Authoring Regulatory Submissions

Product impact
E.g Safety & Efficacy

Product attributes
E.g Product stability, pharmacokinetics

Convert data into regulatory submissions document

Regulatory compliant formats & evidenced based messaging

Medical Data Analysis Authoring Scientific Communication to Customers

Inbound
E.g. Medical information enquiries from HCPs

Outbound
E.g. Congress, publications

Convert data into scientific positioning

Generation of medical communication artifacts

Safety

Data Processing Submissions

Analysis of safety information and its impact on patient safety

Communicating it to regulatory authorities & customers

Safety data monitoring & processing

Data into insights & safety documents



Enterprise Medical Services' GenAl solutions Pharmacovigilance **Regulatory Affairs Medical Affairs** MLR Review Automation Adverse Events Management **MEXT TEXT** Medical Content Medical Writing Automation



Our NEXT suite address some fundamental objectives of Lifesciences organisations

	Speed to market	Speed to submission	Enhanced compliance	Efficiency
■ EXT MLR Review Automation	Y		Y	Y
■ Medical Content Automation	Y			Y
Adverse Events Management			Y	Y
EXT **Literature Surveillance	Y			Y
TEXT Medical Writing Automation	Y	Y		Y



Along the way, we have built an IP stack that significantly differentiates our solutions

Different technologies/ technical & solution levers, and learnings*



Domain Optimized User-Experience

DomainLens™

Customized for domain workflows

Integrated Technology
Framework

FusionArchitecture[™]

Combining programmatic and Al approaches

GenAl Technical Expertise

AlCore™

Promoting, model behaviour, RAG, agents, tools, functions etc

Techno Domain Convergence

DomainTechConvergence™

Ways of working, SME and solution architect combination



We've had great traction with GenAl across the Life Sciences value chain, but a lot of headroom remains

Medical Affairs

- Lit Search and Screening
- SRD creation
- MLR Fact validation, Industry guideline check, label (E.g. SMPC) check, image checks (persona, graphs), editorial checks
- Med Comm Content
- Newsletters, Abstracts, Manuscripts
- Insights

Safety and Pharmacovigilance

- Aggregate reporting
- Literature management
- Automated case processing
- Social media AE Monitoring

Regulatory writing

- Protocol to ICF, PLPS
- Response to Queries
- Clinical study report, Narratives
- Probability of Regulatory Success, Clinical study design
- HA feedback database
- CMC







The Engine Underneath: Indegene's Capabilities at Work

Source Integration

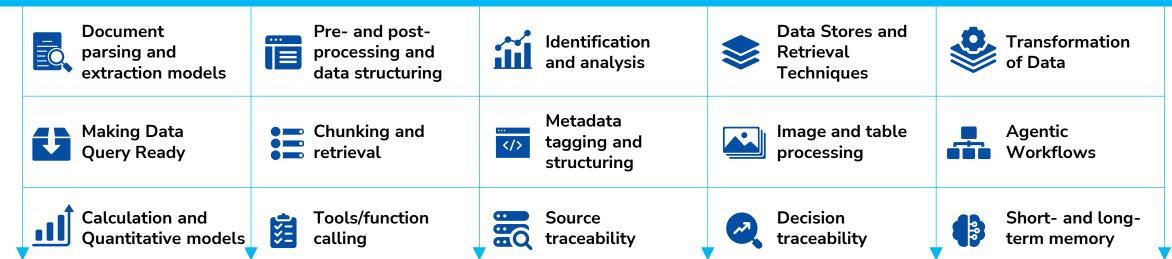
Patient Cases

Line Listings

CSRs

Web APIs: External websites - e.g., FDA, EMA, Industry newsletters etc.

GenAl enabled Transformation Layer



Unified Application Layer

Transformation layer capabilities contextualized to address Servier's use-case scenarios

Scenario 1:

Author key sections of RMP

Scenario 2:

Anticipating Author key sections of PBRER

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Horizontal Capabilities Enabling Seamless Adaptation Across Report Types

Clinical Study Reports

ADVERSE EVENTS: NUMBER OBSERVED AND RATE WITH PATIENT IDENTIFICATIONS

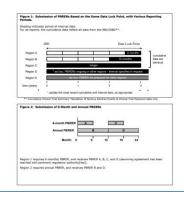
	M	ild	Mod	orate	Sev	ere	Tol	al	Total
	Related*	NR*	Related	NR	Related	NR	Related	NR	R+NR
Body System A									
Event 1	6 (12%)	2 (4%)	3 (6%)	1 (2%)	3 (6%)	1 (2%)	12 (24%)	4 (8%)	
	N11**	N21	N31	N41	N51	N61			
	N12	N22	N32		N52				
	N13		N33		N53				
	N14								
	N15								
	N16						1		
Event 2							1		

* NR = not related; related could be expanded, e.g., as definite, probable, possible

in addition to these complete tasks provided in 14.3.1, an additional summary date comparing treatment and control groups, without the patient identifying numbers limited to relatively common adverse events (e.g., those in at least 1% of the treated group), should be provided in the body of the report.

In presenting adverse events, it is important both to display the original terms use by the investigator and to attempt to group related events (i.e., events that probable represent the same phenomena) so that the true occurrence rate is not obscured. Or

Aggregate Reports



Label updates



Standard Response Docs



Plain Language Summaries

4.	What patients/people were included in this study?
4.1	the number of subjects included in the trial by country both within and outside of the EU
For	example:
	is trial included [specific population to whom this applies, including healthy volunteers and tients as appropriate]
Th	trial was run in the following [list country[ies] that encoded patients]. In each country [name the untry] [8] people were encoded in this study. If there are a lot of countries involved, it may be use to present this data in a table or pic chart. It may be helpful to combine the requirement under the to present this data in a table or pic chart. It may be helpful to combine the requirement under the properties.
	tion 3.1 with those of this section presenting both together rather than separately.
4.2	Age group and gender breakdown
	Provide basic breakdown of participants by age and gender in the trial as a whole
Co	nsider including a simple graphic that helps the reader understand the study.
4.3	Inclusion and exclusion criteria
	The number of inclusion and exclusion criteria can vary substantially, and long lists of technical criteria can be very difficult to understand. It is suggested that when there are large numbers of inclusions and exclusion criteria, the power should only by the most important inclusions and exclusion criteria. In the contract of the
•	If possible, sponsors should include references to age, gender, diagnosis, indication, disease stage or severity as this will help define the scope of the trial (for example, 'very severe chronic obstructive lung disease')
•	Sponsors should also evoid using technical terms that lay persons might struggle to understand. For example, "myocardial infarction" would be better described as a "heart attack". Explain the concept simply. If you wish to use the medical term, use it in brackets after the simple explanation.
•	Care should be taken not to provide information that might inadvertently identify specific individuals who have taken part. Particular care should be taken in trials for rare diseases where the number of potential participants will be relatively small.
	the number of potential participants will be relatively small.

Informed Consent Forms

Day/month/year		
Day/month/year		
If illiterate		
A literate witness must sign (if possible have no connection to the research team) as well.		
I have witnessed the accurate reading	g of the consent form to	the potential participant, and
individual has had the opportunity to a freely.	isk questions. I confirm t	that the individual has given con
	•	that the individual has given con Thumb print of participant
freely.	. AND	-
freely. Print name of witness	. AND	-



Case In Point: Contextualizing core capabilities for Aggregate Report sections to deliver up to 40-60% automation

PBRER Sections (as archetype report)	Effort reduction (after QC of Gen. Al output)	Core-capabilities
Introduction Worldwide marketing auth status Actions in the reporting interval Changes to RSI	50-65% Input format standardization drives higher automation	 Relevant info. from contributions (Gen. Al + programmatic automation)
Clinical and non-clinical exposure Use in special population and other post auth use	30-45% Input format standardization drives higher automation	 Programmatic techniques for calculations Safety data analysis for use in special populations/ other post auth
Findings from clinical trials Special topics such as medication error/ lack of efficacy Overview of signals and signal and risk evaluation	40-50%	 Safety case analysis Literature analysis Relevant info from contributions (E.g. from CSR, signal documents)
Literature	40-55%	 Identification of new/ significant information from literature Relevant info extracted for safety topics
Characterization of risk and benefits	30-45%	 Relevant info. from contributions (RMP, signal documents, historic reports) & other sections (Gen. AI) Safety analysis of case data, clinical trials, Lit



Leveraging Gen AI for PSUR Authoring Automation

Business Need

- The Client, a global biopharmaceutical company, was looking to reduce the time taken to author its aggregate reports and bring about operational efficiencies in the end-to-end authoring workflow enabling consistency across inputs received from different sources and authors.
- The key areas of focus included:
 - Leverage GenAl to author aggregate reports
 - Extraction of information from the provided data sources across different formats
 - Summarization of information within in-scope PSUR report sections

Solution Highlights

- Indegene formed a cross-functional team for development, deployment, and support
- Dedicated, secured instance of GenAl enabled NEXT Aggregate Reporting platform was setup for client
- Gen Al solution phases:
 - Discovery and Diagnostic phase was initiated to analyze existing client process, data sources, report formats and output requirements specific to PSUR. A milestone-based automation roadmap was created with phase-wise deployments. Also, success criteria were defined before the start of design and implementation.
 - Design and build phase involved development of prototype solution for the identified use-cases.
 - The solution then underwent SME testing, followed by client testing for refinement & stabilization. Also, quality metrics were published.
- Focus of report: PSUR/PBRER format

Outcomes delivered

96%

Quality and consistency (pre-medical writer's review)

>50%

Effort reduction

2x

Speed

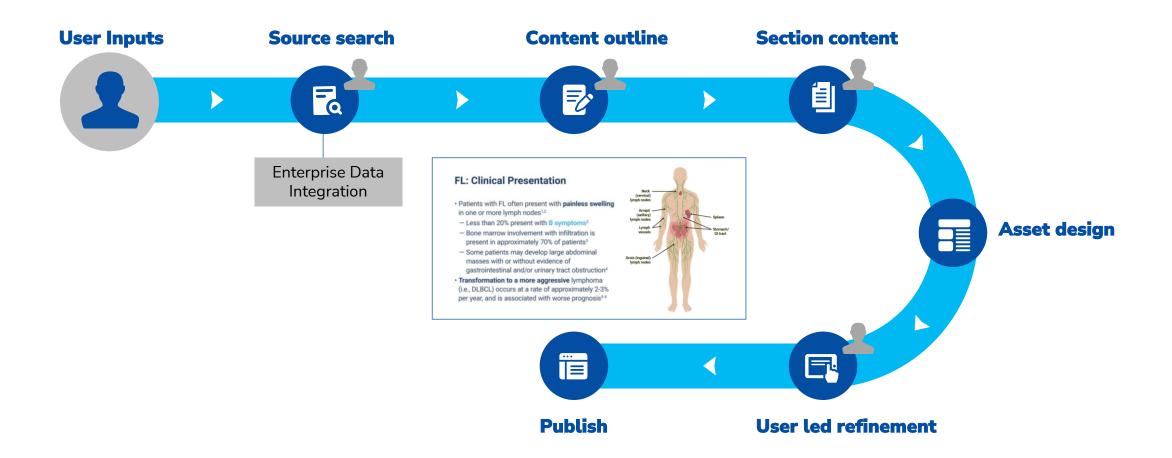
Indegene able to auto-generate first draft of in-scope PSUR report sections

- Successfully able to integrate case data and case narrative to auto author section 16 (safety concerns and risks) of report
- Able to screen and identify new and significant info available in literature and summarize relevant articles
- Ability to summarize clinical finding from different clinical trial documents in the specified format





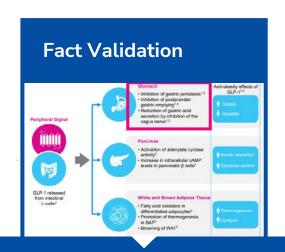
GenAl led asset generation with human in the loop







GenAl assisted medical, legal, regulatory (MLR) review platform (in production use)



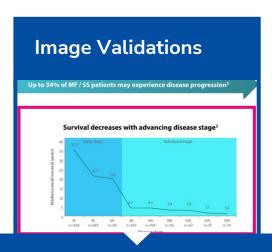
Claims and scientific statements are identified and validated against references



Asset is checks for reg and industry code violations



Appropriate content validated against label



Graphs, figures and persona images for appropriateness, integrity and plagiarism

Improves content quality when used upstream

30-40% reviewer productivity

Reduces oversight errors and brings review standardization

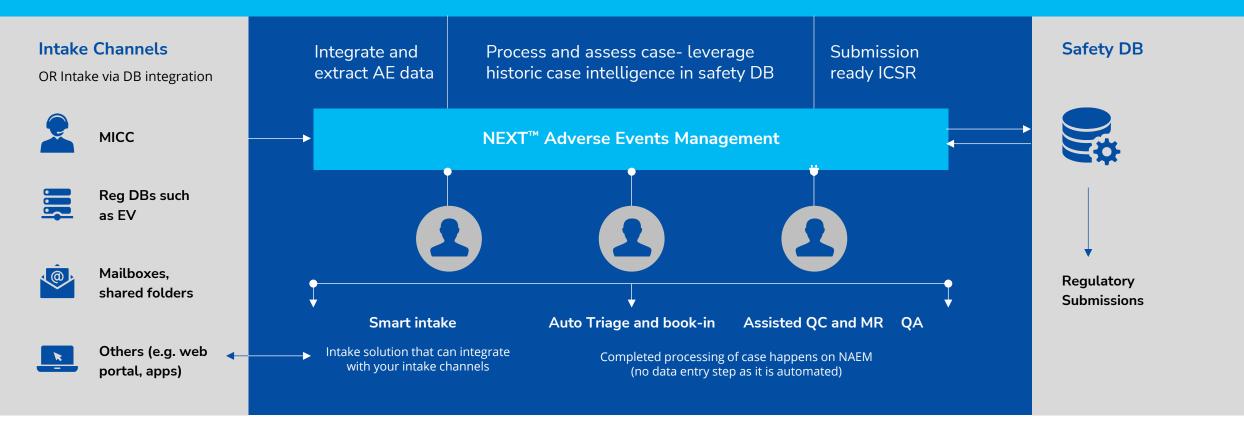




NEXTTM Adverse Events Management

Indegene proprietary GenAl platform for case processing automation

Indegene has delivered >600K live cases via NEXT[™] Adverse Events Management in production







NEXT[™] Literature Surveillance

NEXT™ Literature Surveillance is envisioned to automate ~70% of literature processing effort

