LTIMindtree Canvas 2.0, an AI-driven, and Insights-led Software Delivery Acceleration Platform
About ISG Research™

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ISG’s Next-Gen ADM Services 2022 IPL Report shows that enterprises anticipate innovation in the Agile Product lifecycle, and ISG has observed that this is where Managed Service Providers (MSPs) invest their time and efforts. MSPs are:

- Increasingly becoming product-oriented to solve enterprises’ business problems in varied stages, from design to aftersales.

- Employing extensive consulting expertise and high-end technology partnerships and tools to accelerate application development and testing, and DevOps pipelines and to help clients achieve high performance while minimizing the time-to-market.

ISG’s 2023 Cost Optimization Study shows that enterprise leaders are placing the following areas as top strategic priorities – Data Security (48%), Customer Experience (48%), and Reduce Costs (32%).

Enterprises Need their MSPs to be their Transformation Partners and Design Easy-to-use Products/Software that Simplify User Experience and Reduce Costs

Post COVID, hybrid working has brought new challenges of work stress and burnout to the software developer community and delivering a superior experience to this community has become critical. Canvas by LTIMindtree is well-positioned to serve enterprises as an easy-to-use, one-stop SDLC Insights product to empower SDLC personas function faster and smarter.

SDLC (Software Development Lifecycle) Trends and Learnings for Product Providers

ISG predicts that the following SDLC trends will dominate the technology sector in the upcoming months.

- **User Experience Design** to reimagine customer and employee experience journeys.

- **DevSecOps** to monitor developers’ access to the technology stack and safeguard it.

- **Low-Code/No-Code Platforms** to help enterprises progress in their complex technology transformation journey.

- **MLOps (Machine Learning Operations)** to automate the difference between production data, training data and real-time insights.

- **API Economy** to design a complex web of APIs to integrate nontraditional channels.

- **Continuous Integration and Delivery (CI/CD)** for identifying and resolving bugs before they lead to expensive downtimes.

Enterprises are accelerating their journey in adopting these trends in their application development lifecycle. Canvas is designed to augment this journey to deliver AI-nudged actionable insights to accelerate and harden the software delivery lifecycle.
Unique Differentiators for LTIMindtree Canvas in the Crowded Marketplace

As an MSP, LTIMindtree has the unique advantage of recognizing enterprises' needs, environments, and product expectations. This awareness has helped LTIMindtree build an Agile Product that meets clients' end-to-end needs.

In large enterprises, hundreds of scrum teams design thousands of user stories that generate millions of lines of code with hundreds of thousands of defects. To add to the enormity of this SDLC challenge, there are hundreds of modules being generated across tens of large programs.

- Canvas is an AI-enabled platform that alleviates the enormity and complexity of the SDLC challenges by correlated and clustering end-to-end SDLC digital assets giving it a distinct edge in the competitive product market.

- Correlation and Clustering allow consumption of the SDLC digital entities – correlating across entities (user stories, test cases, defects, code files) and clustering within (user story/test cases grouping, and defect hotspots). Thereby, rapidly weaving the knowledge fabric in an unsupervised way.

- All the data and information that is generated is stored in a knowledge fabric that can be used by experienced developers as an insights-led decision-aider platform while it can be used as a knowledge management platform by newbies in the organization.

- Products in the market focus on use cases focusing on particular functions of SDLC. However, Canvas differentiates itself by generating AI led insights for improving productivity of personas across SDLC.

Figure 1: Driving Change Through Enhanced Product Engineering Principles

Empowering the personas across the product engineering lifecycle with its Insight-led use cases

Source: LTIMindtree
Another distinct differentiator of Canvas is that it houses all these features in a single platform to deliver:

- **Speed to market** by accelerating the time taken for sprint planning, change impact analysis.
- **Faster DevOps cycles** by optimizing regression quality checks based on code changes.
- **First-time right** code development and defect fix leveraging ML/NLP generated insights.
- **Improve Resilience** by forecasting the code hotspots and orchestrating chaos attacks.
- **Faster defect/issue resolutions** using the AI recommendation engine and proactive remedial solutioning using NLP techniques.
- **Considerable time and money savings** through reduced defect turn-around time using augmented impact-based quality checks.
- **Provide Insights-as-a-Service** by democratizing the insights and using AI/NLP algorithms.

**Cost Optimization** – As a license-based product, it can start small with focused use cases and evolve at scale. This makes it simple for engineering creative teams to derive value. The license-based solution also supports cost optimization and rebalances tech budgets to accelerate time to value.

**Smart ROI** – The API framework democratizes the data and uses ML/NLP-based recommendations to derive tangible, actionable insights which help the investment pay for itself.

**Smart decision making** – The inbuilt clustering and correlation techniques help in analyzing unstructured data and generate actionable insights that benefit business leaders.

**Employee Experience** – With a primary focus on improving the experience of software engineers, this product aids better decision making which in turn enables teams to work faster and smarter. This delivers resilient and highly available business functions to the end-users resulting in improved User Experience.

**AI assisted software** – A very powerful opportunity for next wave of productivity and the pro-activeness to introduce these new competencies (AI/ML/NLP) within their software deliveries.

**Appeal to Business Leaders and Decision-makers**

Canvas is a product that will connect favorably with business leaders across industry sectors. Technology is no longer just a platform for CIOs or CTOs. CMOs, CFOs, COOs, and CDAOs make business decisions regarding which technology infrastructure to invest in and the reason for investment. CXOs seek key differentiating features from their systems, applications, and tech platforms. These features can be tangible or nontangible but must support the business vision of top-line and/or bottom-line impact. Canvas showcases how it seamlessly complements the expectations of CXOs. Any business leader can find these values in Canvas:

- **Cost Optimization** – As a license-based product, it can start small with focused use cases and evolve at scale. This makes it simple for engineering creative teams to derive value. The license-based solution also supports cost optimization and rebalances tech budgets to accelerate time to value.
- **Smart ROI** – The API framework democratizes the data and uses ML/NLP-based recommendations to derive tangible, actionable insights which help the investment pay for itself.
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**Advantage of Emerging from an Intelligent, Product-centric Mindset within a Leading, Global Technology Services Company**

Technological prowess remains a unique advantage for any new product introduced in the market. Information architects and product designers must have a strong market, consumer, industry domain, and services background to create a technological edge.

We have noticed that product companies showcase their technology and features brilliance but face challenges around adoption and change
management. With its global reach, LTIMindtree brings in software engineering experience and learning from its client engagements to build a live environment for Canvas to mature into a robust and versatile product. Experience from various industries adds the domain nuances within Canvas Offerings. Canvas has used LTIMindtree’s capabilities to its advantage to better understand the business context and apply curated knowledge to develop an intelligent product.

The company’s extensive partner ecosystem comprising technology vendors, academicians, customers, and internal experts has invested in a continuous cycle of innovation and engineering. The Canvas development team benefits from an expanded vision of the enterprise lifecycle, the post-implementation business problems, and the seamless resolutions across geographies.

Enterprises’ Focus on Asset Intensive Information Architecture is Safeguarded

Keeping the customer data and technology infrastructure safe is of utmost importance to every enterprise.

- Canvas’s data access is limited to SDLC assets and comes in both on premises as well as multi-tenant platform, that allows flexible options to meet clients’ security posturing and requirements. Canvas undergoes procedural DAST security testing during its development and release process.

- Canvas helps the business leaders to capitalize their investments on SDLC digital platforms/ assets by deriving data led insights for software delivery acceleration and hence monetize it.

AI/NLP-led, Insights-fueled Software Delivery Acceleration Platform is a Strategic Investment and Competitive Leverage with a Smart ROI

Enterprises regularly seek insights to help them stay ahead of the competition. Canvas stands out from competition owing to its unique capability to proactively identify and assist in resolving SDLC’s flaws. It offers a single package advantage of correlating and clustering unstructured SDLC assets leveraging both deterministic and probabilistic techniques to deliver enhanced org resilience and rapid ability to iterate. Presently, no comparable products in the market offer such varied features and value realization.

LTIMindtree’s expertise in managing technology services for large enterprises across geographies gives the product access to reusable components that are managed, versioned, and curated. LTIMindtree’s robust collaboration and streamlined communication with clients equips its product team to seamlessly predict and handle post-implementation challenges. Seamlessly converting the unstructured SDLC digital assets into actionable business insights gives business leaders the chance to justify and monetize their data investments.
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Sush is the Capability Leader, Data & Analytics at ISG. With ISG’s Digital Practice, Sush is responsible for leading our advisory capability in developing and delivering Advanced Analytics solutions. Sush’s considerable knowledge of the industry from both an enterprise client and service providers’ point of view results in unique insights invaluable for effectively assessing the data analytics solutions and actionable business insights for ISG’s clients. With over 2 decades of global experience, Sush is an experienced business leader who has an in-depth knowledge of business analytics, data & digital transformation, and scaling and institutionalizing analytics in global organizations. Sush has a proven track record of building Centers of Excellence in Operations, Analytics and Supply Chain functions at various global organizations.
Headquarters
Mumbai, India

Revenue
~$4B

Employee Strength
~90,000+

Service Portfolio
Cloud, Cyber Security, Data & Analytics, Consulting, Enterprise Applications, RPA, Platform Operation

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