

LISA | Intelligence redefined for Aerospace & Defense

As the Aerospace and Defense (A&D) industry continues to navigate changing travel patterns and supply chain disruptions, they shift their focus to digital technologies/capabilities to build a resilient future. While the industry accelerates AI adoption and finds new ways to improve passenger safety, redefine the design and manufacture process, maintenance services and transform customer experience, they are faced with multiple challenges.

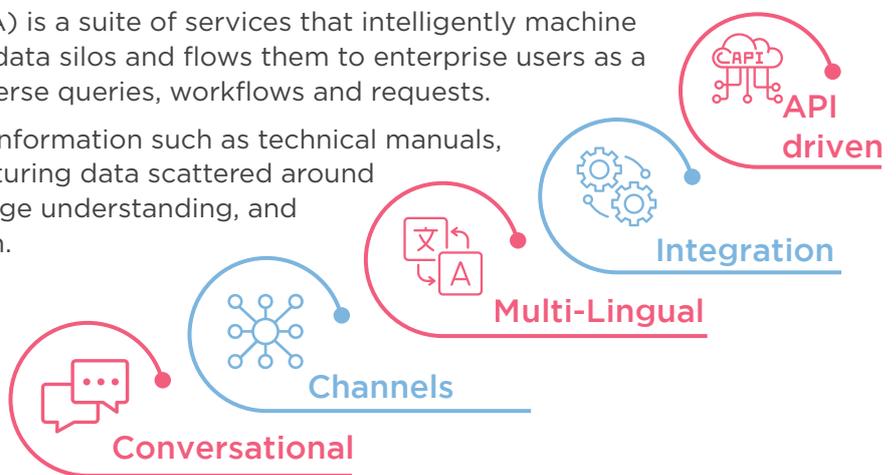
LISA powered with AI and NLP can help navigate these challenges and revolutionize Digital Transformations in the A&D industry, enhancing agility, efficiency and data-driven decision making.

HCL leverages the benefits of AI and NLP in A&D Industry with LISA, an offering built on Cloud

Language Intelligence Services AI (LISA) is a suite of services that intelligently machine learns complex information residing in data silos and flows them to enterprise users as a conversational assistant addressing diverse queries, workflows and requests.

LISA offers digitalization of enterprise information such as technical manuals, MRB, design artifacts, service/manufacturing data scattered around the organization via AI powered language understanding, and domain adaptation with personalization.

LISA promises improved operational efficiency and increased employee productivity with cost reduction.



FEATURES

Document Processing

- Text and Image extraction
- Building AI Enriched Knowledge Base
- AI Search Solution
- LISA Utilities [QnA Engine, Search Engine, Language Translation, Document Processing]
- AI Skills - Forms, Custom Forms

End User Features

- LISA cognitive search
- Digital Voice Assistant
- Multilingual Chat Services

Image AI Features

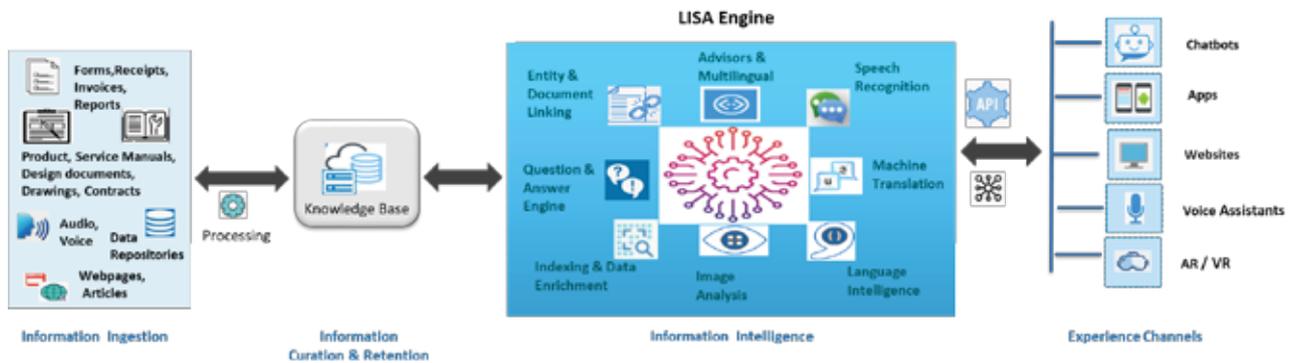
- Image Difference & Comparison
- TIFF file processing

BENEFITS

-  50% Reduced cycle time maximizing business efficiency
-  25% Productivity increase with minimal manual steps
-  Elevation of enterprise information access channels
-  Using and comprehension of service manuals and other information repositories.

Aerospace and Defense Applications

WAYS IN WHICH LISA CAN ACCELERATE DIGITAL TRANSFORMATION



LISA is an AI-first accelerator with NLP & NLU suite of services that easily builds Document Intelligence and Conversational Language Intelligence over any content and can be integrated with multiple channels

Case Studies

DOCUMENTATION SUPPORT FOR AERO MAINTENANCE

Problem Statement

Extensive human intervention required and Tedious process of manually updating, allocating & accessing maintenance documents and logs

Solution

- Contextual Search, Automatic extraction of questions & answers, knowledge entities and linking.
- Interactive Conversational Assistant with Summarization, Report Generation.

Business Impact

- 25-30% Productivity improvements
- Enriched data - better inputs to analytics and troubleshooting.

DIGITAL MAINTENANCE ASSIST

Problem Statement

Reduced efficiency of technician and maintenance staff in leveraging enterprise data to locate information on time and access real-time and historical data.

Solution

- Multi-lingual Digital Voice Assistance
- Maintenance Troubleshooting
- Maintenance Job Reporting, Inventory Management

Business Impact

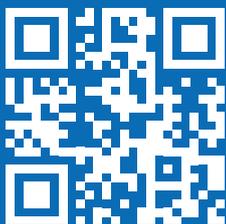
- 25-30% Productivity improvements
- Standardized quality of service and user experience

HCL

HCL Technologies (HCL) empowers global enterprises with technology for the next decade today. HCL's Mode 1-2-3 strategy, through its deep-domain industry expertise, customer-centricity and entrepreneurial culture of ideapreneurship™ enables businesses to transform into next-gen enterprises.

HCL offers its services and products through three lines of business - IT and Business Services (ITBS), Engineering and R&D Services (ERS), and Products & Platforms (P&P). ITBS enables global enterprises to transform their businesses through offerings in areas of Applications, Infrastructure, Digital Process Operations, and next generation digital transformation solutions. ERS offers engineering services and solutions in all aspects of product development and platform engineering while under P&P. HCL provides modernized software products to global clients for their technology and industry specific requirements. Through its cutting-edge co-innovation labs, global delivery capabilities, and broad global network, HCL delivers holistic services in various industry verticals, categorized under Financial Services, Manufacturing, Technology & Services, Telecom & Media, Retail & CPG, Life Sciences, and Healthcare and Public Services.

As a leading global technology company, HCL takes pride in its diversity, social responsibility, sustainability, and education initiatives. As of 12 months ending on December 31, 2021, HCL has a consolidated revenue of US\$ 11.2 billion and its 198,000 ideapreneurs operate out of 52 countries. For more information, visit www.hcltech.com



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