



# Al-Enabled Cognitive Virtual Assistant







#### INTRODUCTION

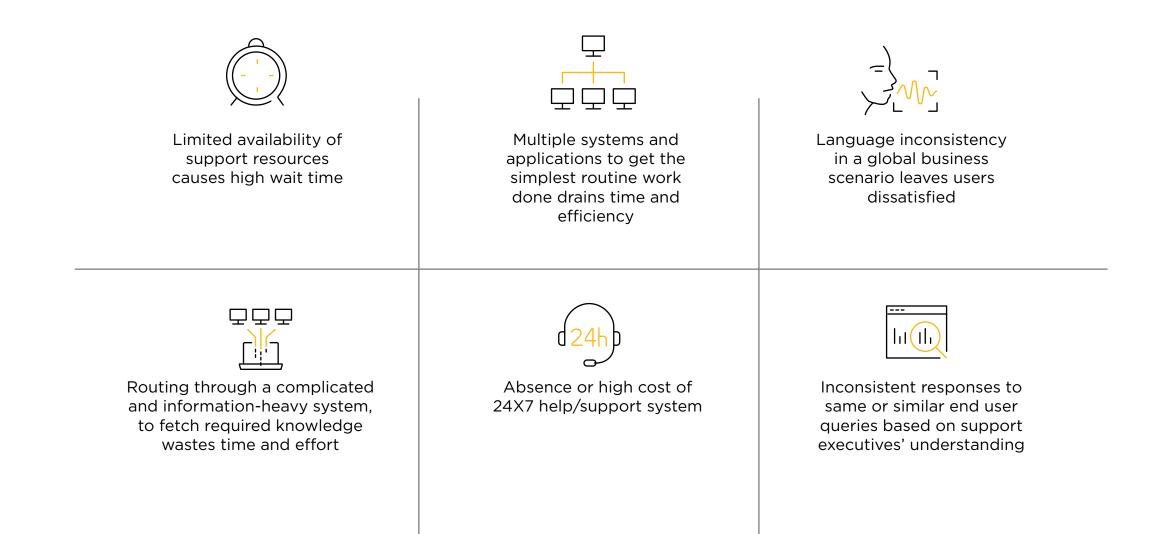
Enterprises have grown at an exponential scale. Multiple business units operate within an enterprise. It is these business units that an end user belongs to. An abundance of resources are deployed by enterprises to transform end-user (employee and customer) experience, while improving productivity and fostering innovation.

In an effort to further bolster end-user experience and uphold innovation, enterprises offer multiple channels of communication like social media, websites, call support, forums, etc. However the perpetual challenge is to ensure consistent, personalized, and immediate digital experience across all channels.

Focusing on these enterprise business problems, HCL designed it's cognitive virtual assistant **DRYICE Lucy** (Lucy). It mimics human interactions, learns, and adapts to user needs through smart conversations by leveraging enterprise-grade Natural Language Processing (NLP) and Machine Learning (ML). Users can leverage Lucy to procure relevant information spread across a multitude of enterprise systems. Lucy helps organizations move up the maturity curve and enhance user experience for both employees and customers. By deploying advanced NLP, Lucy reduces human error and increases productivity. It comes with out-of-box use case for various scenarios and can be easily extended to cover the "Cognitive Chatbot" needs of modern enterprises.

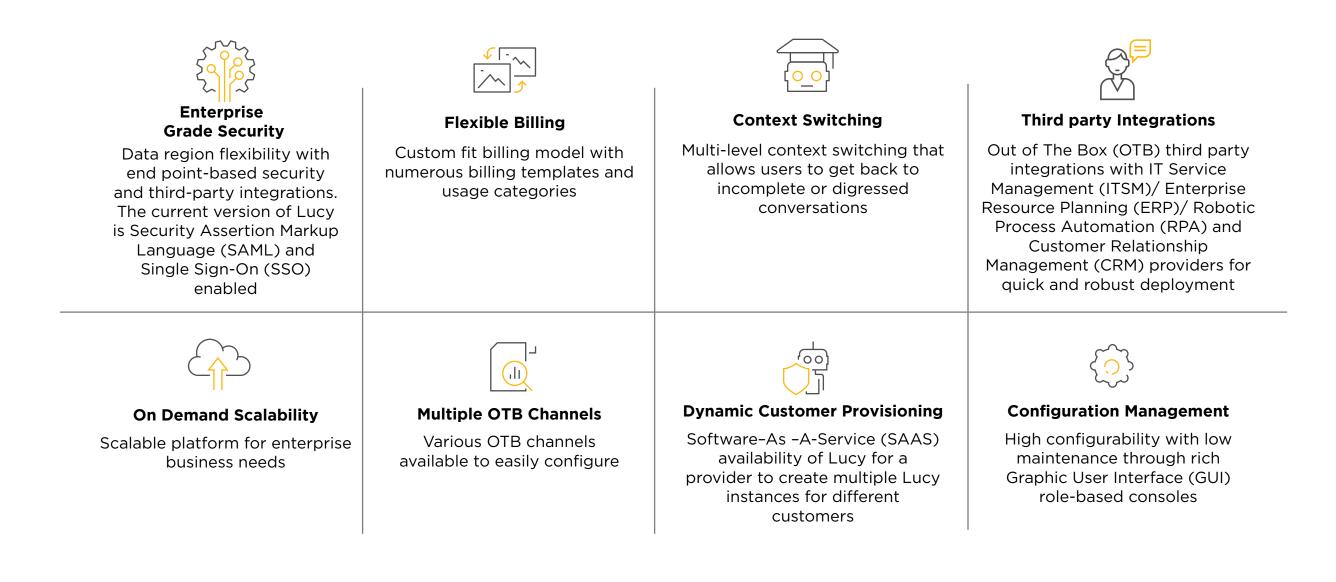


## CHALLENGES ADDRESSED BY DRYICE LUCY



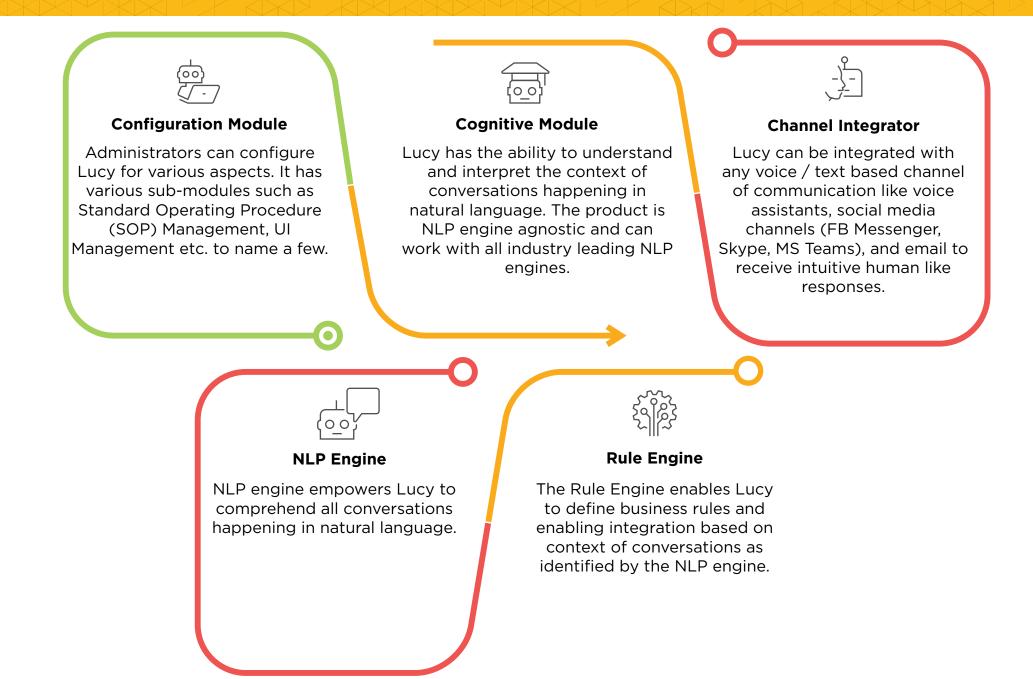


# **KEY FEATURES**





#### **KEY MODULES**





# BENEFITS





## **CASE STUDY**



- Finnish industrial machinery organization focusing on providing technology and services.
- Revenue USD 3.2 Billion (2018)
- Employees 14,000+



PROBLEM STATEMENT

- Complex infrastructure and application landscape with multiple data repositories.
- Sluggish user experience with impact on user productivity leading to decrease in business efficiency.



- HCL implemented Lucy as an assistant available on customer portal, with the ability to access various web portals to procure relevant information. This eliminates the need for manual routing between and within various repositories.
- Lucy leveraged its NLP capabilities to converse with the end user and retrieve information.
- It ingested and analyzed 83,000 documents spread across 2 different repositories for multiple business domains including HR, Finance, IT and Legal to understand, index and fetch the relevant information.
- In a scenario where Lucy could not find a relevant answer in any of the repositories, it fetched that information from external sources (web) and presented it to the user.
- Lucy can also transfer the conversation to a human expert when required or otherwise open a service desk ticket on user's behalf.
- As a next step Lucy will mature into taking actions on user's behalf driven by RPA integration

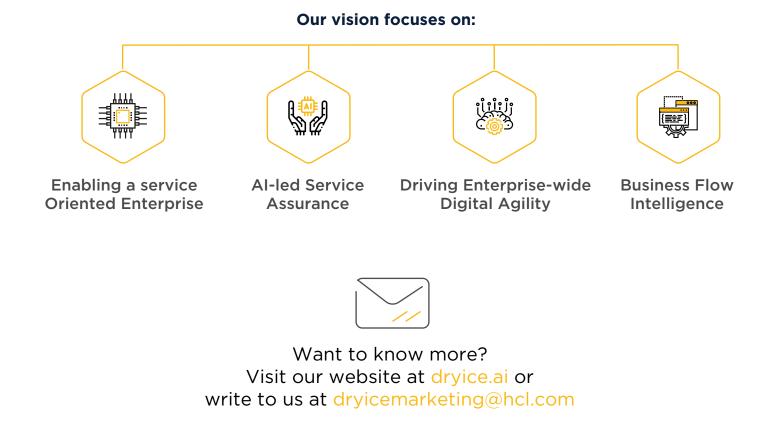


- Enhanced user experience
- Time efficient information retrieval
- 24 x 7 availability
- Transformation from Search based experience to a Conversation driven experience



# **ABOUT DRYICE**

DRYICE is a division of HCL Technologies focused on building industry-leading software products for transforming and simplifying IT and business operations by leveraging AI and Cloud.



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