

ensonno®

Innovation Lab



Make better happen
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Introduction

While many organisations are keen to explore ways to use Artificial Intelligence (AI) for business, they often struggle with launching these projects and understanding the true business impact of AI. How can AI be used to automate manual and repeatable tasks? How could a deeper understanding of customers and their behaviour affect the use of AI to improve processes or products?

The Innovation Lab from Ensono helps clients gain valuable knowledge in understanding the uses of AI and how these can drive growth, productivity, efficiency, and innovation within their organisations. We guide clients through a process to discover the business' readiness for AI; determine existing skills and technology gaps; and create new product lines to stimulate growth.

Ensono's Innovation Lab provides clients with:

Better Predictions

By delivering better forecasting, recommendations and personalisation for the enterprise by using machine learning founded on a modern data platform.

Improved Productivity

Through content generation, process automation and frictionless experience, leveraging our knowledge of the AI ecosystem, based on our deep learning expertise.

Through the Innovation Lab we provide two services:



Proof of Concept

which includes strategic analysis of business value for the application of AI, nominating use cases, design thinking and rapid prototyping. This offering uses experience with model training and Gen AI to deploy meaningful solutions and incorporates deployable templates for common scenarios.



Productionising

which includes hardening the solution; Machine Learning Operations (MLOps); model validation; ethical testing; model monitoring; and drift evaluation.

How the Innovation Lab works

Our Innovation Lab offering is supported by our team's agility, ability to pivot, and capability of rapidly applying and testing our hypothesis. We collaborate with best-of-breed cloud service providers through our strong relationships and privileged access to advanced support. Ensono is experienced in applying AI across a diverse set of platforms and our team includes exceptional analysts, engineers, and designers.

Each Innovation Lab engagement consists of a series of five steps:



Ideation

Starting with the ideation phase, our experts work with clients to explore opportunities for growth, innovation, efficiencies and improvements in their enterprises, and then validate the likely impact through identified use cases.



Business Value Mapping

Our methodology for identifying potential case studies includes examining both business value and impact. We take each use case identified during ideation and, using AI hypothesis, validate the feasibility of each before prioritising the list of use cases based on each one's potential business outcomes.



Exploration & Analysis

Next we look at the data to visualise and validate the hypothesis. Once that step is completed, we will promote and continue with the most successful and viable hypothesis.



Technology Review

We also review client's current technology and data landscape and determine dependencies, feasibility and scale of use cases.

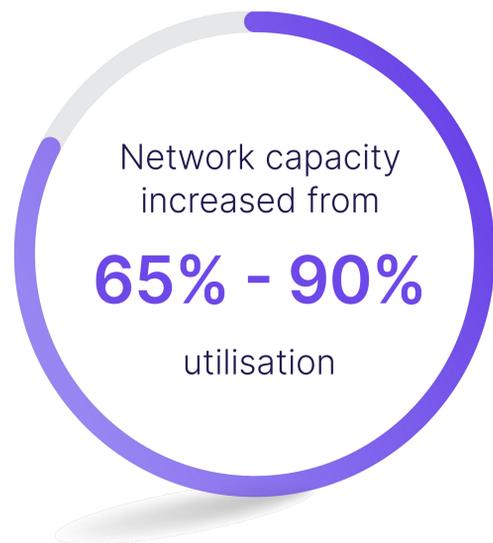


Pilot

The last phase consists of building the pilot, modelling data, training the machine learning (ML) model, integrating Gen AI, and visualising results. Finally, we will validate and measure success for the hypothesis, confirming the opportunity to create production use cases.

Retail Client Example

This client is a large retailer of trade tools, accessories and hardware products. It required five people, working seven days a week, to manually manage the retailer's supply chain. Using Innovation Lab, Ensono was able to automate the process with an uplift. Now, the client has more strategic controls for stock replenishment.



Manufacturing Client Example

This aerospace manufacturing company produces aircraft for customers looking for an entry-level business aviation solution. Before, engine overhauls would occur after 3,500 flight hours, regardless of condition. With each engine overhaul costing £500,000, the client wanted a better understanding of individual engine part degradation and leading indicators for unplanned engine-related Aircraft-On-Ground (AOG) events to extend the life of the engine overhauls.

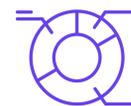
Ensono built an AI model to predict and forecast engine faults. The project involved using AI to parse and organise historic and current repair and fault data into an optimal format and structure to capture analytics. Then the team developed an outcome-based hypothesis for machine learning models, which resulted in these positive outcomes for the client:



Ability to track and predict the most common engine part faults through AI-enabled data sets



Dashboards that provide a clear view of data-driven trends and ability to segment data views based on individual aircraft and flight patterns



More confidence and predictability to visualise the data and invest into a platform that enhances maintenance predictability

To learn more about the Innovation Lab, visit Ensono.com or contact your sales representative.