



Welcome To Lex^X

Digital Intelligence for Optimised Maintenance

LEX^X
TECHNOLOGIES

The Challenge

The primary challenge is to optimise the availability and on-time performance of our clients' critical assets

Asset downtime results in:



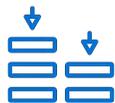
Revenue loss



Additional costs



Brand damage



Sub-optimal use of capital

Industries



Aviation

Renewables



Utilities

Defence



Transit

The Challenge In Perspective

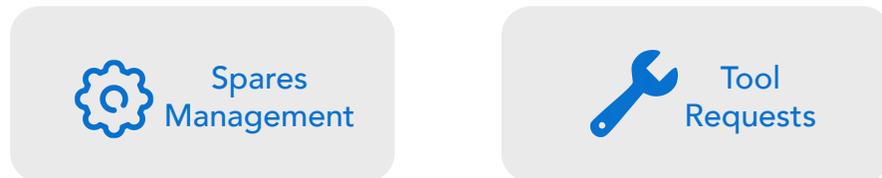
Critical knowledge is inaccessible due to Fragmented Systems



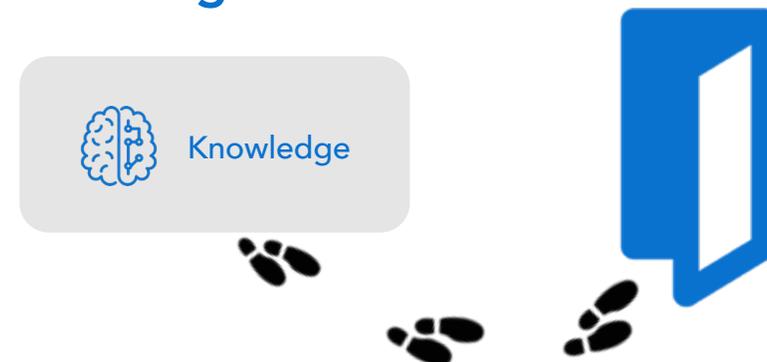
Man hours are wasted on Manual and Disconnected Processes



Inefficient use of technicians time with Lack of Automation



Experienced technicians retire and organisations lack Knowledge Retention



Transforming Maintenance

With Artificial Intelligence and Machine Learning



Artificial Intelligence (including Machine Learning and Neural Networks) enables a system to learn, self-improve and interpret as it performs a task, refining over time through strategic trial and error.



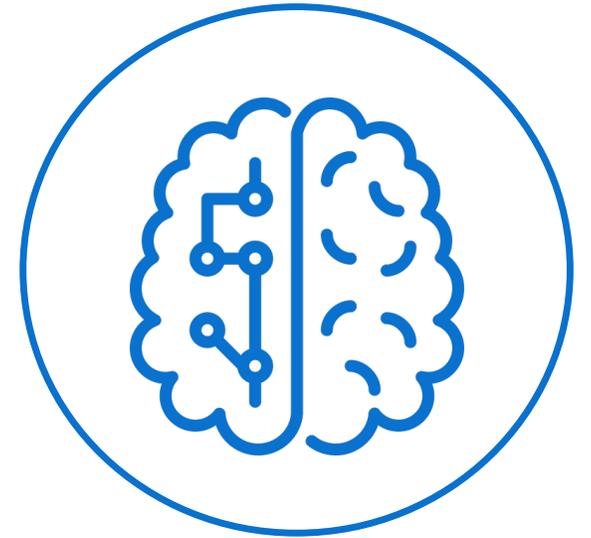
Natural Language Processing fills the gap between human communication and computer understanding.



Big Data allows systematic extraction of information from large and complex datasets.



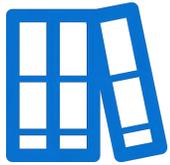
Our unique utilisation of these technologies allows us to perform tasks such as skilled analysis, pattern recognition, image and speech recognition, analysis of massive amounts of data, and sophisticated decision making.



***AI works like a human brain,
but with advanced analytic
and processing power***

Achieving Optimised Maintenance

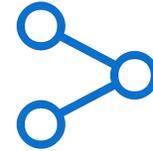
Requires a system that:



Provides the right **technical information** at the right time and place



Instructs and guides the technician



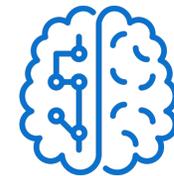
Enables real-time collaboration between technicians



Advises if the right **tools are available** and their location



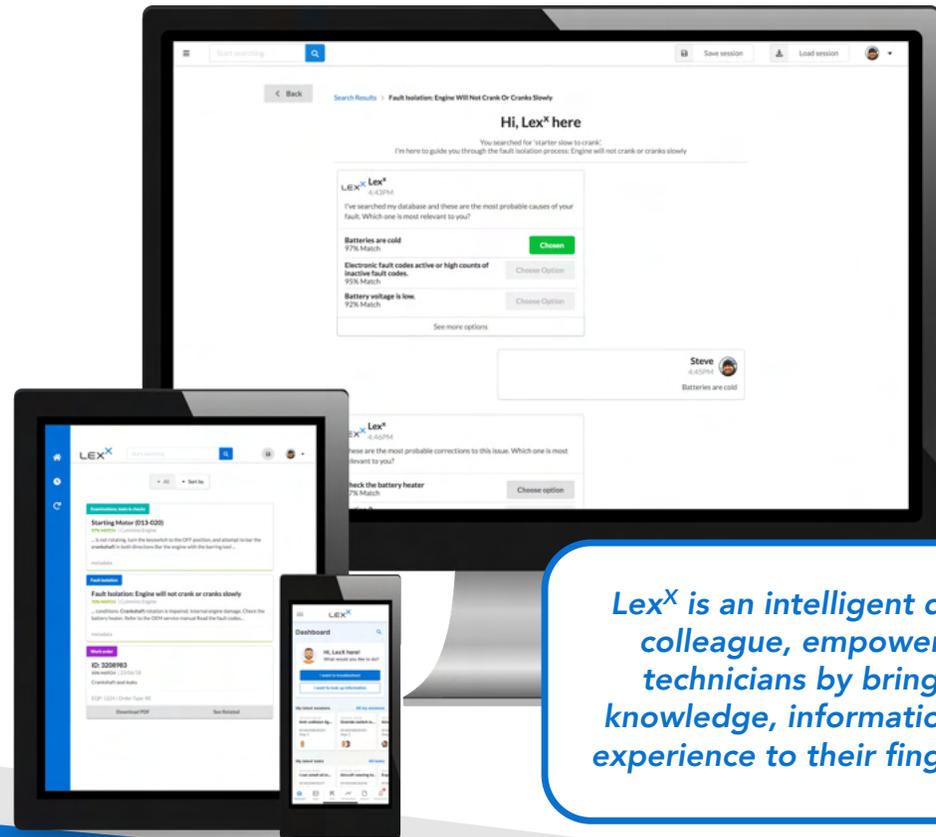
Ensures **optimisation** of the use of spares



Continuously **learns and optimises** the maintenance process

The Lex^X Platform

Provides the Solution



Lex^X is an intelligent digital colleague, empowering technicians by bringing knowledge, information and experience to their fingertips.

→ Provides a **natural language interface** to all relevant in-house systems (eg., ERP, Maintenance and Doc Management) so as to extend and enhance their capabilities

→ Utilises any device (phones, tablets, etc.) to provide solutions at **the right time and place**

→ Is a **digital intelligent system that learns** from:

- Asset behaviour
- Technician behaviour
- Organisational Data

→ Guides the technician at all stages of the maintenance process, providing advanced troubleshooting capabilities

Lex^X *Delivers. Enables. Empowers.*

- Makes all technical information available through **one platform**
- **Unlocks inherent knowledge and wisdom** in underutilised data
- Enables the ongoing **capture of field experience**
- Provides **data-driven insights**
- Provides **collaborative digital tools** for technicians
- **Reduces risk** of Maintenance errors

**Better Maintenance
Decisions, Faster**

The Value Lex^x brings to Maintenance Operations



Improved fault isolation resolution times and overall operational efficiency



Improves spares utilisation and lowers operating costs

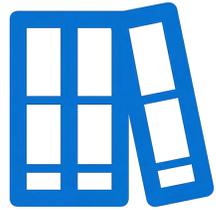


Enables the capture and retention of valuable knowledge



Empowers the modern day technician with a modern age technology

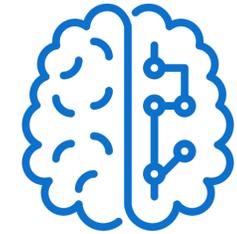
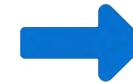
How our Technology Works



Lex^X Ingests all technical information (**digital and handwritten**) and structures the data in a unique manner to facilitate the AI and NLP capabilities of Lex^X.



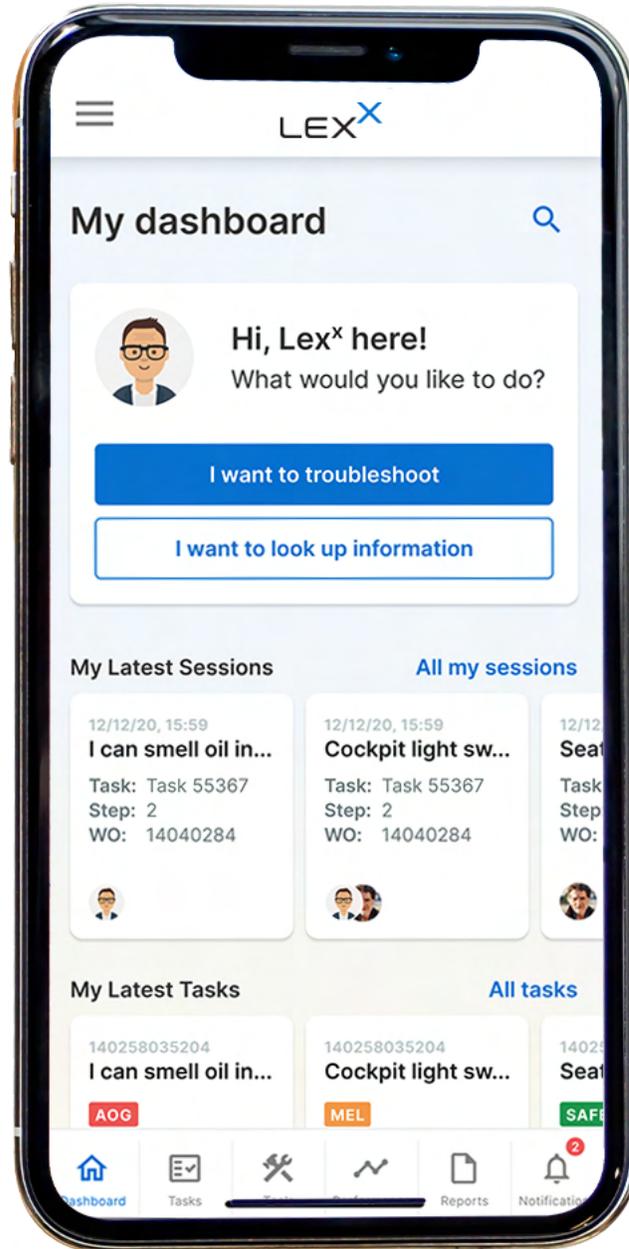
This information is used to provide solutions and guide the technician through **Natural Language interaction** (in Conversational style, like having an instant messaging discussion with a human)



Lex^X utilises AI and Machine Learning to **learn over time** from your organisational data, technician interaction, and equipment behaviour, so that troubleshooting is continually refined.

How our Technology Can Be Used

*The user interface is
customised around
individual Client
requirements and
processes*

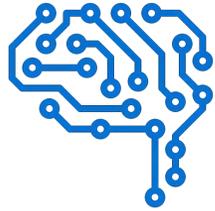


Lex^x can be used in the following Maintenance areas:

- ⚙ Troubleshooting;
- ⚙ Planned, preventive and breakdown maintenance;
- ⚙ Performance diagnostics and analysis;
- ⚙ Compliance & reporting;
- ⚙ Issue and problem management;
- ⚙ Asset life cycle management;
- ⚙ Training and simulation;
- ⚙ And publication management

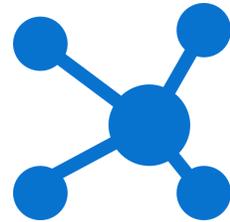
...and even more

Lex^X Platform Features



XAssist

Lex^X's foundational product guides the technician at all stages of the maintenance process, providing intelligent troubleshooting capabilities.



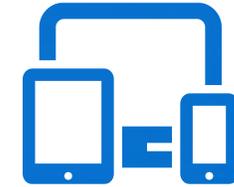
XTeam

Bring the team together for contextual help, advice, or approval. xTeam provides technicians with direct access to all personnel in their ecosystem



XCompass

Configurable dashboards for performance management and reliability engineering user groups

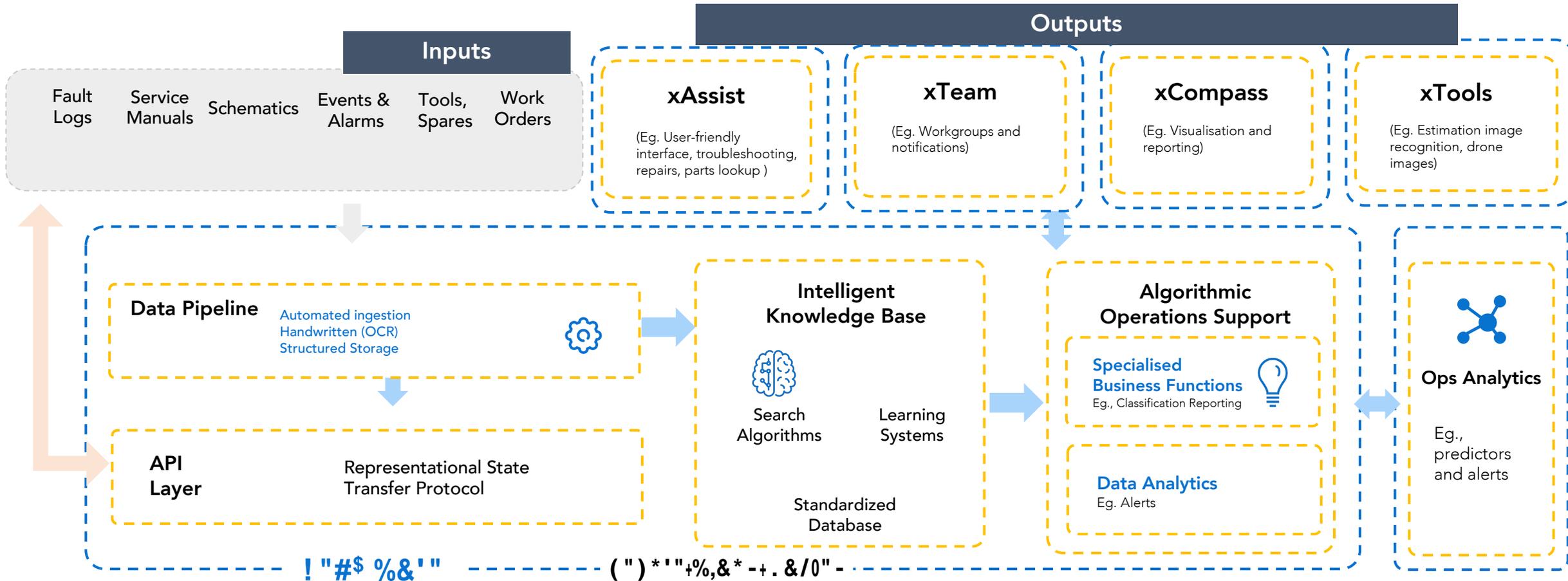


XTools

Tools that empower the technician, such as automation for repetitive tasks (i.e., estimation, image recognition, drone images)

Lex^X Platform Modules

How Is It Powered?



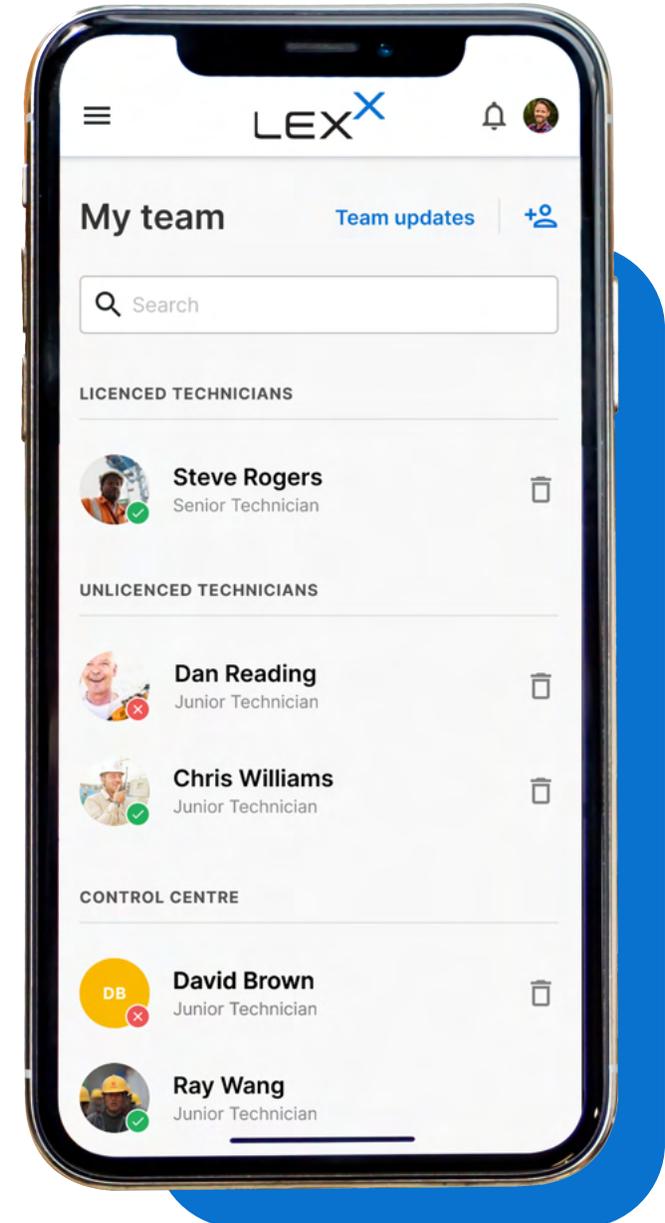
XTEAM

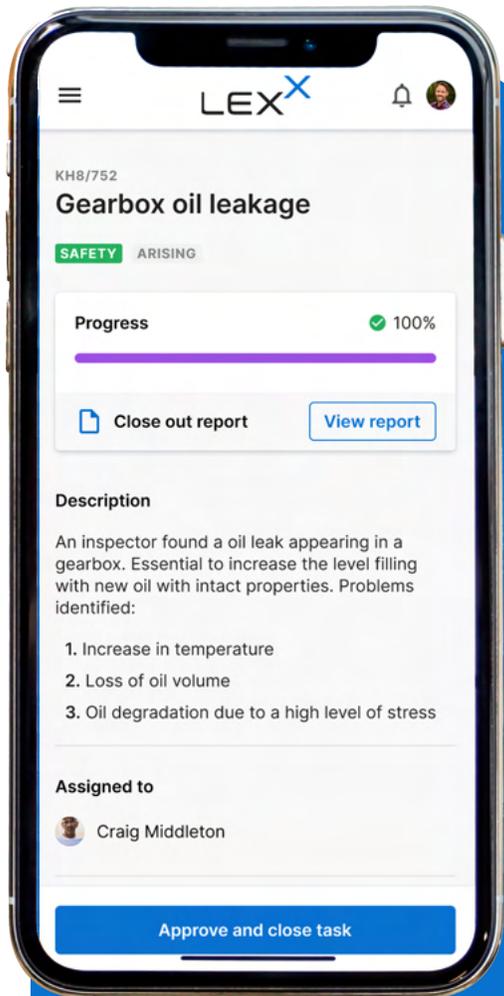
Our collaboration product xTeam brings an innovative tool to maintenance by **providing technicians with direct access to all personnel in their ecosystem** using digital capabilities.

xTeam **has been developed through extensive work with technicians on the ground**, understanding their pain points and barriers to strategic goals. This technology has been designed to **work across all portable field devices**.

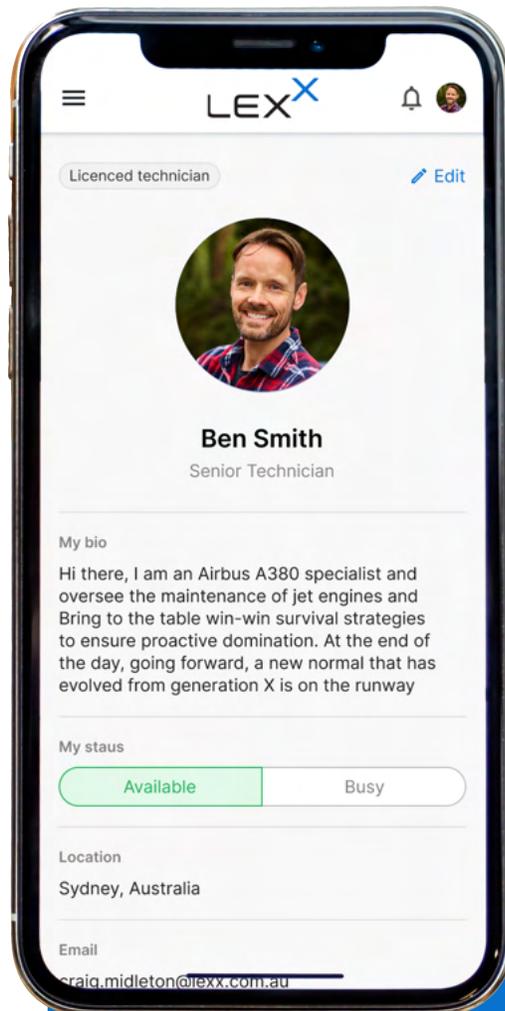
What Can xTeam Do?

- Instant Message colleagues in real-time
- Form teams or invite colleagues into the context of a problem
- Handing over and sharing tasks
- Automated report generation
- Recommend experts based on asset history
- Capture data from the field intuitively (eg., as photos, videos, or notes)
- Learn from collaboration to improve resolutions





Approve and close tasks, while viewing reports



View staff profiles and their current status



Instant Messaging with relevant staff

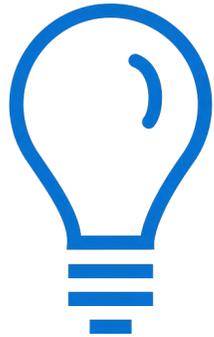
Key Benefits

With xTeam, we focus on supporting technicians that work on critical assets under pressure. The xTeam product demonstrates that intelligent digital tools **can reduce unwanted tasks and time spent** on non valuable activities

xTeam Improves:

- ⚙ Mean time to repair
- ⚙ First time resolution
- ⚙ Reduction in issues reoccurring
- ⚙ Average time to repair
- ⚙ Repair versus replace data
- ⚙ Impact on inventory

Our Vision



Our vision is to
transform Maintenance
for our Clients by
empowering every
technician every day



Enabling the Lex^X Vision

With Maintenance 4.0

Industrie 4.0 originated from a high-tech strategy initiative of the German Government



Lex^X CEO and Founder, [Anant Sahay](#), coined the phrase [Maintenance 4.0](#), applying Industrie 4.0 philosophies into the area of maintaining systems rather than manufacturing them.

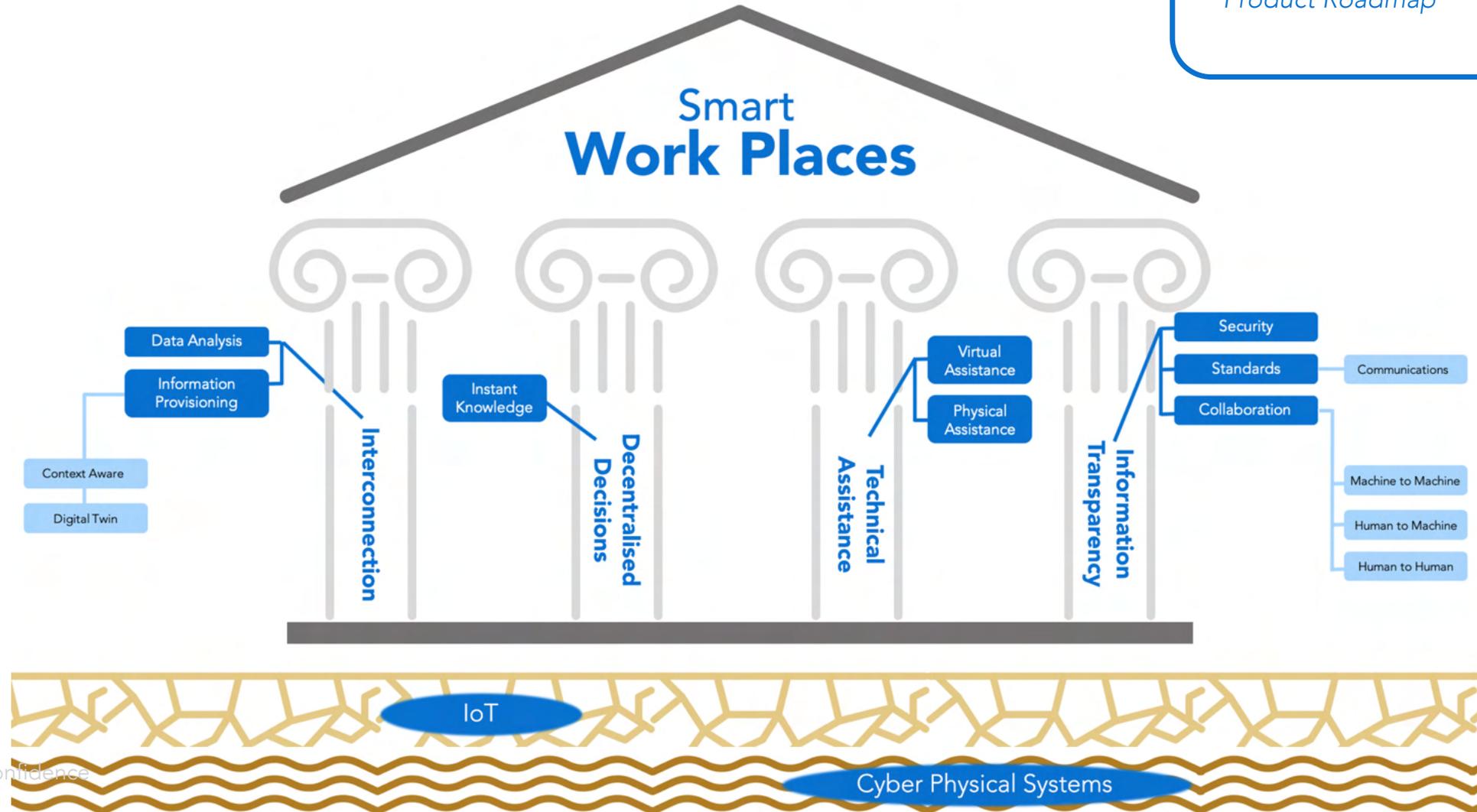
Maintenance 4.0 will [revolutionise maintenance operations](#) around complex equipment by use of new and emerging technologies, new philosophies and the move to a [fully digital world](#).



Maintenance 4.0

The Future of Maintenance

The four pillars of our Maintenance 4.0 vision will continue to drive our Product Roadmap



Success Stories



*"Lets you find the fault and make the decision **straight away**"*
EnergyAustralia Technician

*"**Lex^X** is addressing a critical challenge that the global industrial sector faces amidst a paradigm shift in workforce demographics and dynamics."*
Krishna Navalpakkam, Global Strategy



*"...it may help us **reduce the TAT of providing technical solution by 15 minutes.** This number is quite significant if the solution is for minimizing operational disruption"*
Etihad Engineering Executive

*"We identified a distinct need to invest in and bring up the best in startups and SMEs worldwide to lead in this revolution. We're excited by our engagement with Lex^X and look forward to **delivering their innovative capabilities across our O&M portfolio**"*

Carla Pimenta, EDP Group Innovation Head of Startup Engagement



*"The Lex^X platform is most certainly **the most succinct, intuitive and relevant aircraft trouble shooting platform I have utilised** in my 30+ year aviation engineering career. The fact it is linked to the OEM documents is clearly critical and certainly saves considerable time when assessing faults as they "roll in".*

Darren Stone, Licensed Engineer, Jetstar Engineering and Managing Director of Asset Excellence

Awards

Winners – Schneider Electric Bold Ideas Challenge | Global Innovation Summit

Winners – EDP Global Innovation Award | Lisbon Web Summit

Our Partners

Lex^X is a proud partner of the following organisations,
each experts within their fields



Australian Government
Department of Industry,
Innovation and Science



Why is Lex^X Unique?

What Others Say:



We believe that the Lex^X platform is an evolutionary, unique product. By incorporating machine learning concepts it has set an industry best practice of enhanced data-driven MRO operations

Frost & Sullivan

What We Say:



We have a user-centered design approach for product development – Lex^X is trained to understand the user, instead of the user needing to understand Lex^X

George Mathew | Lex^X Product Director

US Patent Pending (Application No. 63/031, 751)

*Lex^X is created in the digital age, for the digital age, **purely** for maintenance operations*

Operating Principals



Anant Sahay
Founder and CEO

Anant is an entrepreneur, inventor, thought leader, published author, aviation domain expert, and Data Scientist, with consulting, IT architecture and project management credentials. He is a qualified Production Engineer, with MBA. Anant has 30 years experience in the aircraft MRO field, including 15 years as world-wide domain expert for IBM.



Mike Harris
Head of Aviation, Defence, and Key Verticals

Starting in Aviation in 1979 when he joined the Royal Australian Air Force as an apprentice fitter, Mike has always looked to “make things better”. In the last decade or so, Mike was in Senior Engineering Management roles, including multiple stints as a CASR Part 42 “Responsible Manager” with a significant Australian. Recently was the “Manager Engineering Technology and Innovation”, and looking to focus entirely on Aviation Innovation at a Global level.



Nishant Sahai
Chief Technology Officer

Nishant has served in several leadership positions in the aerospace industry and the not-for-profit sector, including the process improvement group of the Boeing 787 Dreamliner and Senior National Lead Advisor at the Australian Red Cross Blood Service. Nishant holds a Bachelor of Engineering from RMIT, and a Master’s in Business Analytics from Deakin University.

Operating Principals



Hersh Sahai
Director Global Sales

Hersh has held positions at IBM and Accenture advising senior executives of Fortune 500's in Enterprise Asset Management and Supply Chain Optimization. Hersh holds a patent with the USPTO in data analytics, a B.A. in Economics from the University of Sydney and a dual M.B.A. from both Columbia Business School and London Business School.



George Mathew
Product Director

George is a business and technology leader, with credentials in delivering business and economic outcomes leveraging technology, strategy and design to enterprise clients globally. George has an engineering degree and over 25 years of experience, having held key leadership roles at Cochlear, IBM and Infosys Australia.



Michael O'Sullivan
Commercial Director

Michael has qualifications in finance and law (B Comm. LLB) gained from the University of NSW. He has an extensive background in building businesses including a key role as Commercial Director of KAZ Group Ltd. Michael has, in recent years, held similar roles across a number of technology based businesses.



Bryan Rutter
Business Development Executive

Bryan has a background across a number of different industries as CEO of a commercial product supplier for over 25 years to both large and small companies, manufacturing components in both Steel and Timber products. He is a non Executive Director of a recycling processing organisation with a number of outlets throughout Australia.

Thank You

Meet your Challenge > >

CONTACTS

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