IoT

IoT Consultants is a technology-based company providing solutions, services, and products using IoT, BIM, AI, and Machine Learning to make faster, smart decisions about business operations and empower the whole organization to get benefits and enhance the return on investment.
iotconsultants.com.au

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Helping Your Company Enhance Your Operational Efficiency

Discriminators

IoT Consultants can help enhance your operational efficiency to meet your projects and products commitments through usage of digital twins and sensor networks through
- Identifying and modeling workflows and processes
- Identifying sources of costs reduction & optimization
- Incorporating sensors and develop predictive analytics

In order to find key metrics for enhancing efficiency

Our experts have an average of 20+ years delivering these products and services to clients in civilian and defence industries as well as extensive scientific publication record

Key Customers and Partners

We have worked with a large number of major companies including the below:
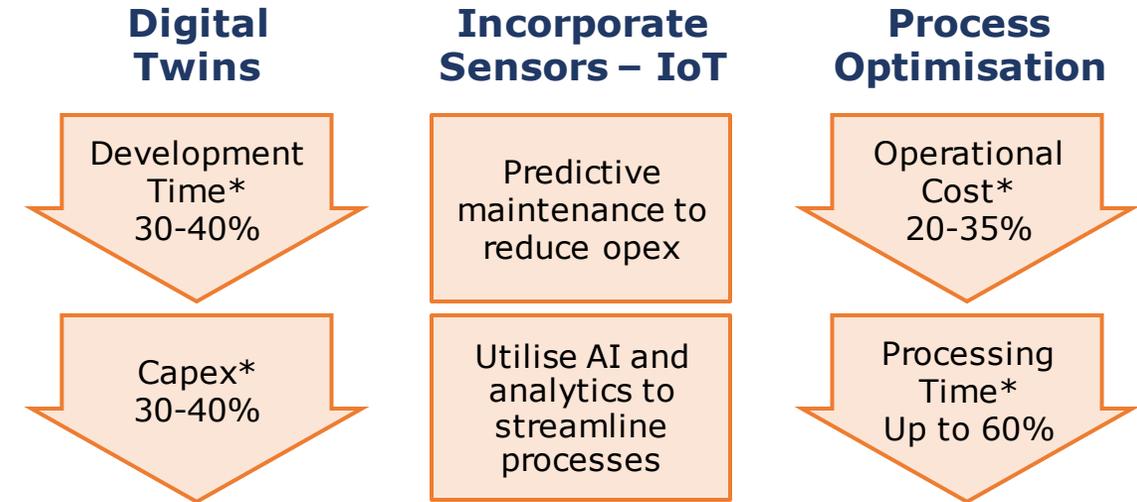
Capabilities

Given a background of
- Increasing demand flows
- Increasing requirements on reliability, availability and supportability in operation & maintenance phases
- Need to reduce life-cycle costs and risks

IoT Consultants provide Digital Transformation solutions for Enhanced Efficiency through
- Modelling / Digital Twins
- IoT and continuous monitoring
- Process Optimization and Automation
- Predictive maintenance (with Machine Learning support)
- Support for Integrated Logistics Support / Asset Management to efficiently deliver your services and products

As illustrated below, these solution can provide significant benefits:

Digital Twins
Development Time* 30-40%

Capex* 30-40%

Incorporate Sensors – IoT
Predictive maintenance to reduce opex

Utilise AI and analytics to streamline processes

Process Optimisation
Operational Cost* 20-35%

Processing Time* Up to 60%

*Based on research by McKinsey

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Helping Your Company in Facilities and Physical Assets Management

Discriminators

IoT Consultants design and support facility and physical assets management solutions to optimise your operational & maintenance processes, reducing delays and increasing productivity
- Digital transformation to enhance data management
- Physical asset digital twins for enhanced transparency and operational efficiency
- Monitoring and predictive maintenance through Artificial Intelligence and Machine Learning

Our experts have an average of 20+ years delivering these products and services to clients in civilian and defence industries as well as extensive scientific publication record

Key Customers and Partners

We have worked with a large number of major companies including the below:

Capabilities

Given a background of
- Increasing complexity of stakeholders
- Costs of maintenance and need to maintain productivity
- Increasing number of events (changes, incidents, maintenance)

IoT Consultants provide Digital Transformation solutions for Enhanced Efficiency through
- Asset Management through Integrated Logistics Support / ISO-55000 standard
- Incorporate sensors for measurement and predictive analytics
- Support for digital Transformation in Facilities Management, including design of Digital Twins for:
    - Scheduling, configuration & changes
    - Incidents, maintenance activity
    - Enhanced collaboration between multiple stakeholders

Digital Twins

Development Time*
30-40%

Capex*
30-40%

Incorporate Sensors – IoT

Predictive maintenance to reduce opex

Utilise AI and analytics to streamline processes

Facilities Management

Operational Cost*
11%

Maintenance Expenditure*
27%

*Based on research by McKinsey

Helping Your Company in Construction Engineering, Design and Architecture

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Discriminators

IoT Consultants can support your Design and Architecture activities, including application of Building Information Modeling (BIM) technology, and incorporating sensor networks for

- Design 3D, 4D, 5D, 6D and 7D models of physical assets (buildings, factories, plants)
- Incorporate architectural, structural, mechanical and electrical components, as well as IoT
- Create Digital Twins for lifecycle management of design, construction and operation stages of the assets

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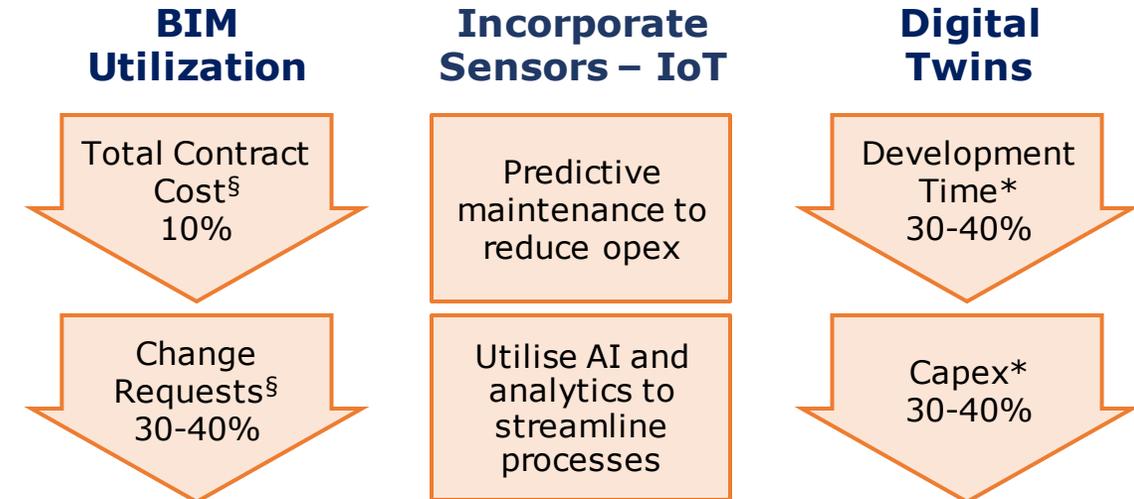
Capabilities

Given a background of
- Increasing demand in drafting, and computer-aided design
- Usage of sensors and internet of things
- Importance of lifecycle management
- Measurement and management of emissions, and sustainability (ESG)
- Usage of BIM software for stakeholders' communications

IoT Consultants provide Digital Transformation solutions for Enhanced Efficiency through
- Usage of internally developed BIM software for extended functionalities
    - Scheduling, configuration & change management
- A BIM platform including 3D-7D database
- Gaming environment for enhanced visualisation
- Incorporation of sensors in for lifecycle management

As illustrated below, these solution can provide significant benefits:

BIM Utilization	Incorporate Sensors – IoT	Digital Twins
Total Contract Cost§ 10%	Predictive maintenance to reduce opex	Development Time* 30-40%
Change Requests§ 30-40%	Utilise AI and analytics to streamline processes	Capex* 30-40%

§Based on Stanford University research   *Based on research by McKinsey

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Helping Your Company with Artificial Intelligence and Machine Learnings

Discriminators

IoT Consultants incorporate Machine Learning and Artificial Intelligence, combining with Sensor Networks and Internet of Things to optimize your operational efficiency and reduce business complexity
- Identify necessary organizational internal and external data to optimize operation
- Use mathematical models to visualise and analyse data
- Digital transformation of internal processes and systems to take advantage of the insights data provide

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Key Customers and Partners

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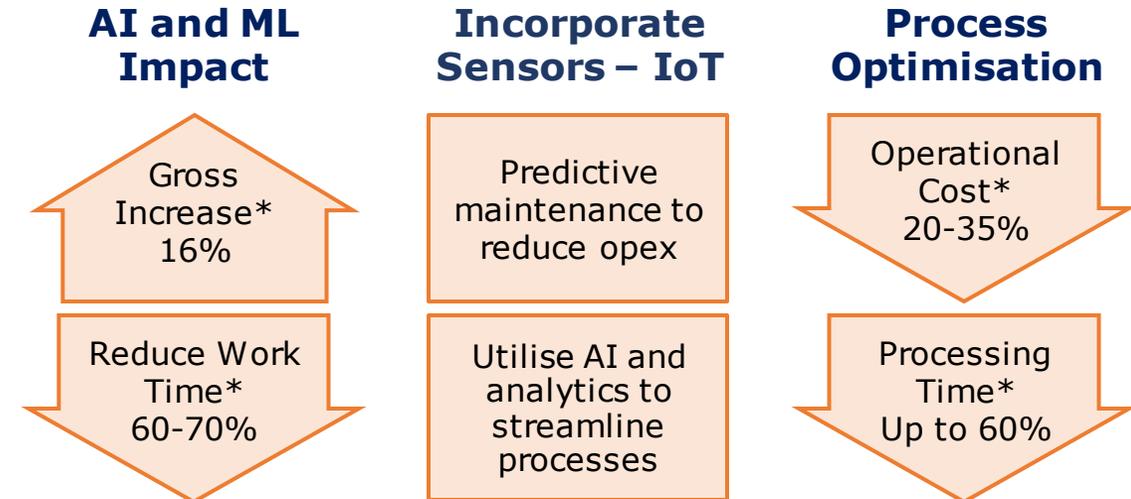
Capabilities

Given that "Data is the new Gold"
- Organisations collect large quantity of data on their customer, suppliers and their business environment
- Sensor networks and IoT facilitate data collection
- AI/ML technologies have enabled large scale data analysis

IoT Consultants provide Digital Transformation solutions for Enhanced Efficiency through
- Deploy Machine Learning Frameworks
  - Deploy Machine Learning as a Service (MLaaS) Platforms
- Big Data opportunities
  - Identify internal and external sources of data for analysis
- Business Intelligence
  - Design dashboards for reporting and decision making

As illustrated below, these solution can provide significant benefits:

AI and ML Impact
- Gross Increase* 16%
- Reduce Work Time* 60-70%

Incorporate Sensors – IoT
- Predictive maintenance to reduce opex
- Utilise AI and analytics to streamline processes

Process Optimisation
- Operational Cost* 20-35%
- Processing Time* Up to 60%

*Based on research by McKinsey

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