



# NSP Corporate Presentation

High Value Global Product Engineer Services & Solutions Provider



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# Agenda

- What does NSP do
- What We Deliver
- Who are we
- What We Stand For
- Where can you Find Us
- What Are Our Quality Control Measures
- What Are Our Case Studies
- What are our core competencies



# What does NSP do

We unite technology and services, crafting uniquely tailored solutions for your business success. Trust us to solve your challenges with precision and innovation.

## NSP Impact

### PES

Low OPEX cost for  
Product  
maintenance and  
support



**Industry 4.0**  
Unleashing the  
Power  
of Connected  
Innovation



**Envision Energy & Sustainability**  
Energy-efficient  
technologies that  
create energy by  
saving it, thereby  
reducing  
CO2 emissions



**Security**  
Protecting our  
customers and  
business with  
security and  
privacy practices



**ITinfra**  
Our Focus is to  
provide the best-in-  
class support to our  
customers round  
the clock  
Managed Services Desk  
Modern Workplace Solution  
Cloud Infrastructure around



**Education ERP**  
Empowering  
Minds,  
Transforming  
Futures



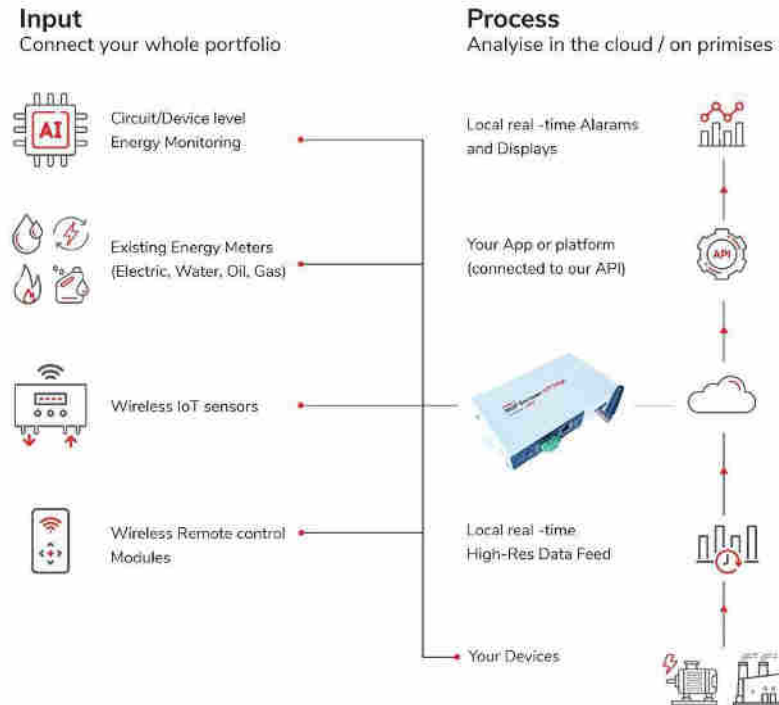
**AI/ML**

A trusted partner that delivers meaningful impact faster & creates your future with AI for business

# What We Deliver

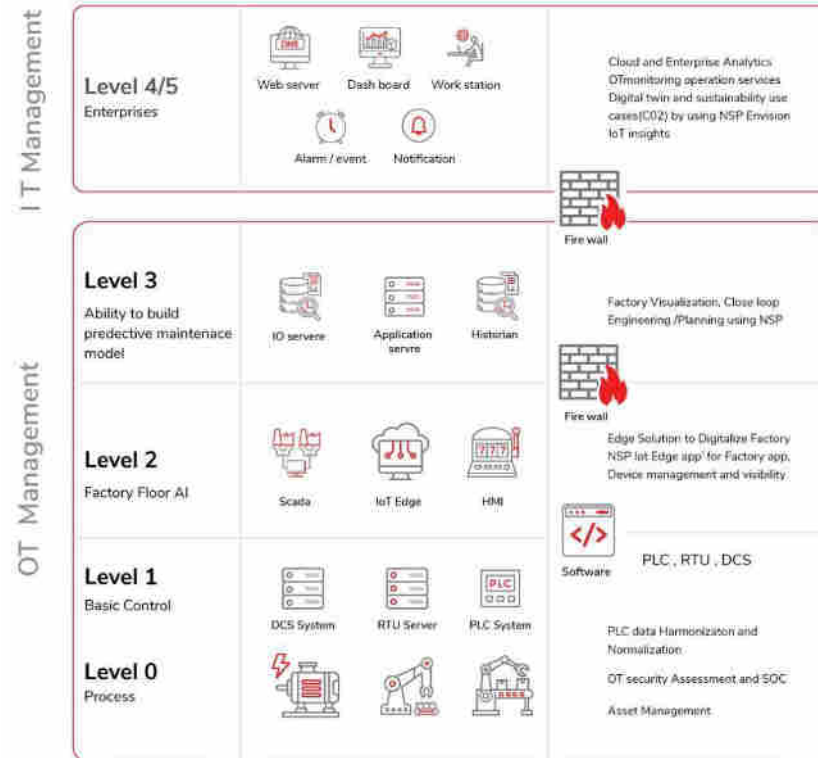
## Product & Solutions

### Bringing Intelligence to Devices with NSP Envision™ IoT Edge



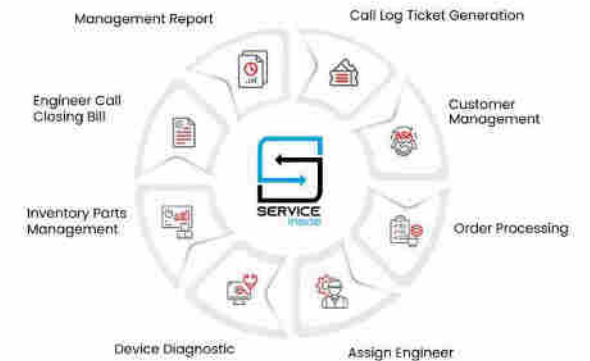
### Run Your Operations Smarter with NSP Envision™ IoT Insights

#### Sustainable Manufacturing Through IoT Integration



### Field Service Optimization with Service Inside

#### Manage your complete inventory and Service Cycle



#### Benefits of serviceinside

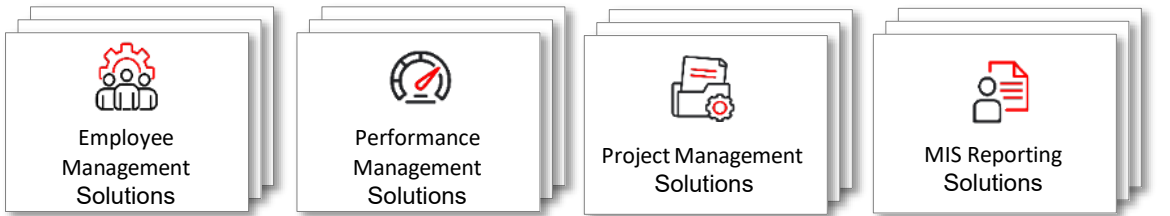
- Increase service productivity & saves time & money
- Automate the workflow
- Improve Communication
- Enhance Customer service & Loyalty
- Provide real-time analysis

# What We Deliver

## Product & Solutions

### Assisto

#### AI-Enabled HRM Platform

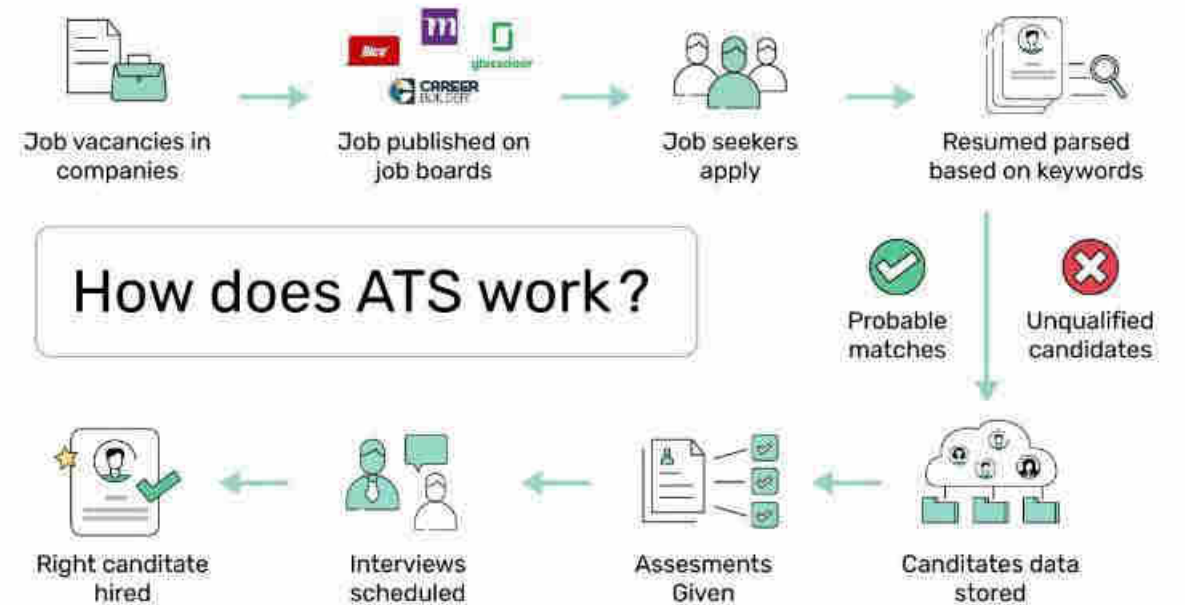


**Platform**  
Common technologies for Workforce management



### Hire Assisto

#### AI-Enabled ATS Platform





# What We Deliver

## Services & Solutions

### Software Development

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Specialize in designing, creating, and developing custom software applications, either for specific industries or tailored to individual clients' needs

### IT Consulting

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Helping clients make informed decisions about technology solutions, architecture, and strategy

### Web and Mobile App Development

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Design and build web applications and mobile apps for various platforms, catering to a wide range of industries and purposes

### Customization and Integration

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Customize existing software solutions to meet a client's unique requirements and integrate different software systems to work seamlessly together

### Software Testing and Quality Assurance

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Ensuring software quality and functionality is a crucial part of the business, with testing, bug fixing, and quality assurance being integral services

### Maintenance and Support

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Providing ongoing support and maintenance services to ensure the longevity and effectiveness of software applications.

### Cloud Services

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Migrating applications to the cloud, optimizing cloud infrastructure, and managing cloud resources

### Agile and DevOps Practices

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Agile and DevOps methodologies for efficient and collaborative software development and deployment

# How We Deliver

## PES

Engineering consulting activity, which uses various software and IT services solution for the designing and development of products

Consulting

Software Technologies

Gen AI

## IA

Software Services for software products that are used for data collection, historicizing, finding, analyzing, delivering, and visualizing

NSP Envision Energy

NSP Envision IoT Edge & Insights

Consulting

IA Software Application

## Security

Software Services for software products that are used for Identity And access Management

Biometric Technology

Cyber Security

OT Security

## EduTech

ERP Products & Software Services for software products that are used in Operation management

Campus360Plus

Scool360

Consulting

## Product

Assisto (HRM) & FSM

Assisto

Hire Assisto

Service Inside

Gen-AI

QA-CoE

PMO

UI/UX-CoE  
Infrastructure

HR



# Synergistic Collaboration and Partnerships

Alliances are critical for business relevance, growth, and sustainability. At NSP, we have partnered with some of the globally leading technology providers. With the combined competencies, we build industry-leading solutions and accelerators and extend support to make an impact in the tech ecosystem and to mutually gain a wider reach and competitive edge.



## Rationale

For web & application innovation, data & AI, Azure infrastructure, and modern workplace streams

## Key highlight

Built specialized industry solutions that accelerate Microsoft stack adoption within enterprises, and offering services for connected products development, automation security operations, identity and access management and O365 transformation.



(Strategic Partnership)

## Rationale

Connect directly to PLCs, OPC servers, files, databases, and IoT platforms to create world-class SCADA systems or industrial automation solutions

## Key highlight

Rapid rolling out of new functionalities in the NSEnvision Platform for Industry 4.0 use cases



(Solutions/Consulting Services Partner)

## Rationale

Help customers to leverage our professional services using the HID Global Product and solutions for Access Technologies, Identity Technologies, Identity Access Management, and Citizen Identity Solutions

## Key highlight

Built specialized industry solutions as Integrators, Distributors, Managed Services Providers, and Technical Alliance Partners



(Member of the Microsoft Cloud Partner)

## Rationale

Build synergies that support business growth in India / ME Africa and other parts of the Globe

## Key highlight

Mantra is a global high-tech manufacturer of biometric products and solutions, offering a wide range of products in the biometric and RFID industries. Partnering with NSP will help build synergies that support business growth in India, the Middle East, Africa, and other parts of the globe..



Cyber Security & IAM Solutions

## Rationale

The RSA and NSP partnership will help NSP build synergies that support business growth in India, the Middle East, Africa, and other parts of the globe in the areas of cybersecurity and IAM

## Key highlight

The partnership between NSP and RSA enhances cybersecurity and Identity and Access Management (IAM) solutions, expanding services to India, the Middle East, Africa, and beyond..



Technology Partners

## Rationale

open-source technology to build and own their national identity systems MOSIP aims to provide a customizable and scalable solution for governments and organizations implementing digital identity systems

## Key highlight

NSP and MOSIP have teamed up to enhance global digital identity solutions. Leveraging NSP's biometric tech and MOSIP's open-source platform, they aim to provide secure, scalable, and inclusive identification systems for governments and enterprises, promoting digital inclusion worldwide...

# Who we are

## Board Of Directors



**Manoj Kumar**  
*Founder and Chief Executive Officer*



**Swati Priya**  
*Founder & chief human resources officer (CHRO)*



**NSPians**



# Who we are

## Leadership Team



**Arnab Ghoshal**  
*Security Specialist*



**Charles Andersson**  
*Product Owner*



**Kshitija Vyapari**  
*QACaE-Lead*



**Libin Babu Joseph**  
*Backend Architect*



**Madhumitha K**  
*UX Strategist & UI-UX CoE Lead*



**Manas Hegde**  
*Frontend Architect*



**Punit Bhardwaj**  
*Test Automation Lead*



**Ramchandra Joshi**  
*Software Architect & TEG Lead*



**Rajesh Ramaswamy**  
*Project Management Office (PMO)*

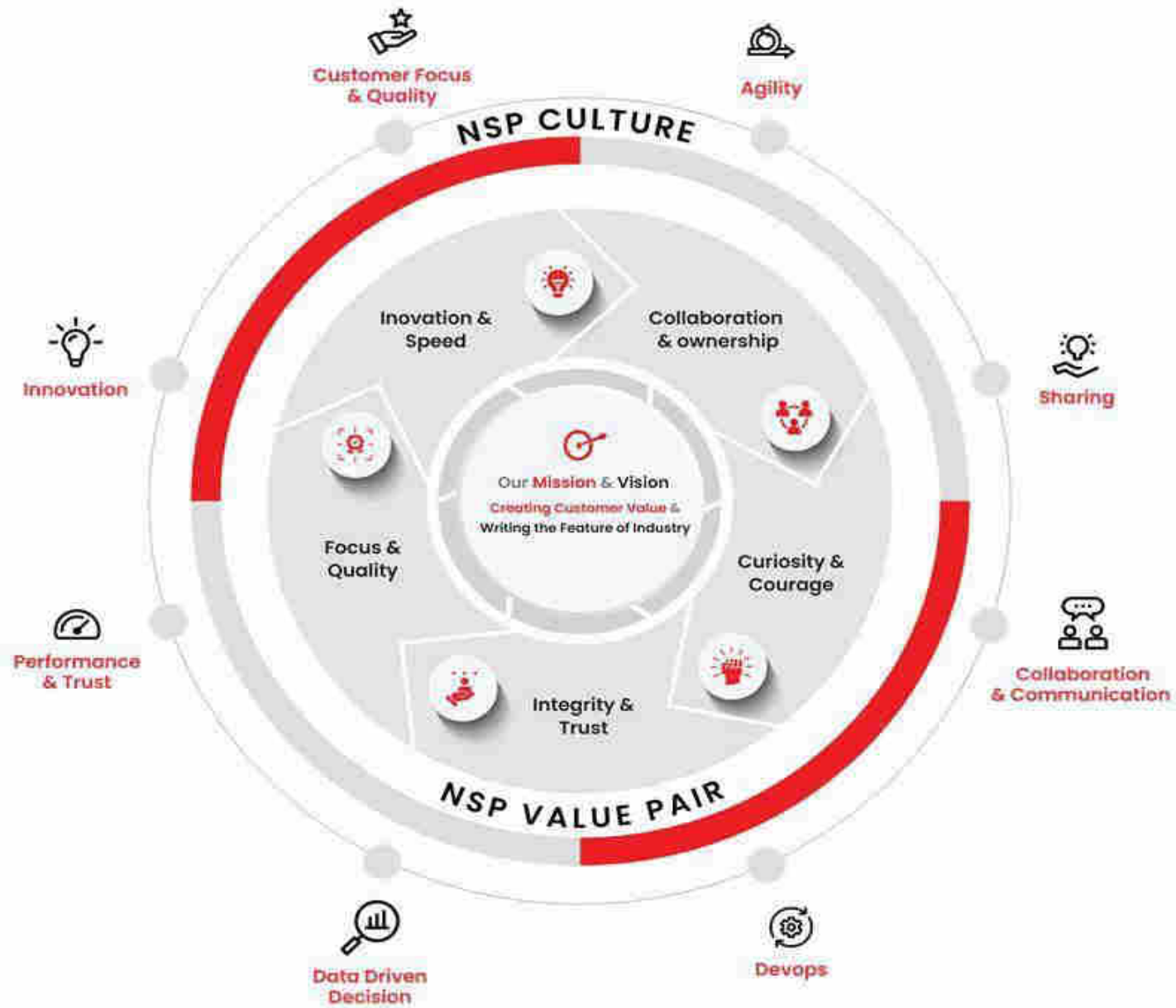


**Suresh MJ**  
*Business Development Manager*



**VinothKumar Srinivasan**  
*IT Infra Specialist*

# Our Mission, Vision, Value Pair & Culture





# Where can you Find Us

## Our Location

Project Completed

68

Active Projects

32

Footprint

Our presence in 2+1 country

Customers based across the globe





# What Are Our Quality Control Measures

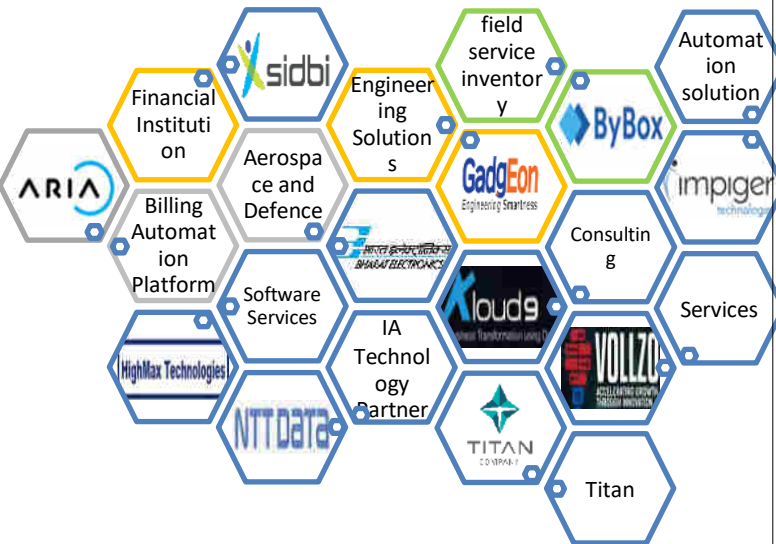
Quality/Certifications



# What Are Our Case Studies

## Product Engineering Services(PES)

NSP helps companies to create future-ready software products, Platforms, and IT Service Solutions



### Web Portal Development

- Microservices
- React.JS, Angular. JS, JS , SCSS,HTML, ASP.NET, Web API,
- .NET Core, C#, Node
- Oracle, SQL Server, MongoDB, PostgreSQL

### Mobility

- Cross-platform Mobile SDK with React Native technology.
- A cross-platform React front-end cordova application
- Cross-platform Mobile App using flutter

### Window Application

- C#, UI Development using Winform Framework
- WPF: C#, UI Development using WPF Framework

### Data Analytics

- Prescriptive, Predictive, Diagnostic, Descriptive and Cognitive Analytics
- Python, Power BI, Tableau

### Testing

- Selenium, API, Java , UFT, ALM, Jmeter, Loadrunner, ALM, Appium, BDD Cucumber, Serenity

### Consulting

- Due Diligence activity for
- Defining Strategy
- Technology
- Operation

### UI/UX Design

- Prototyping, wireframing, user flows, mockups
- Visual design and design software
- User research and usability

## Case Studies



Industrial 4.0  
Automation IoT Data  
Acquisition



[Industrial IoT portal UI/UX Design for LMW](#)



[Using Docker for Greater Productivity with CI CD](#)



Impiger (Sitecore 9)  
CMS website Dev, User Ex,  
VXD, frontend, backend  
Dev



Remove the Limitations of your  
Architecture to Move on with  
Business

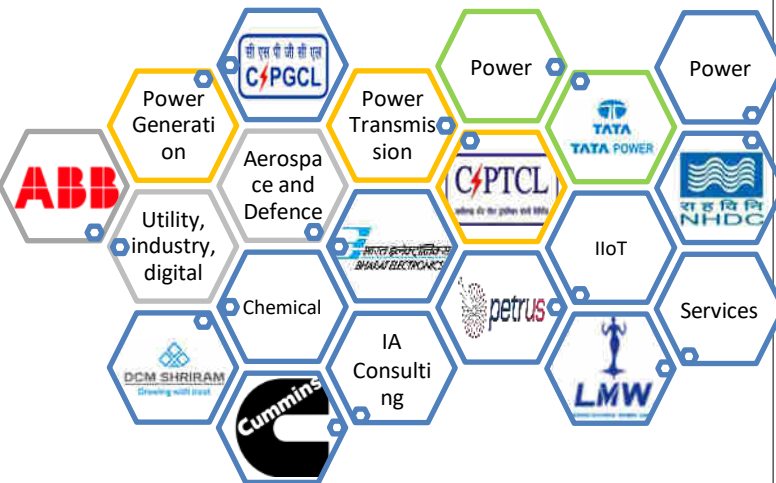


[How adaptation of intuitive drill-down dashboard improved operational efficiency in a Textile industry](#)

# What Are Our Case Studies

## Industrial Automation

Helps organizations develop a digital Roadmap, Real-time, data-driven decisions for advanced operations (IIOT)



### Industrial (IoT) Internet-Of-Things Applications

- Predictive Maintenance in the Process and the Manufacturing Industries
- IIoT application development using Java,C#,MongoDB
- C++, C , Modbus TCP, MQTT,Python

### Edge Computing Strategy

- A Microservice Architecture for the Industrial (IoT) Internet-Of-Things Applications

### IoT-Based Online Energy Management System

- Real-time monitoring of power generation

### AI Strategy

- Predictive Maintenance
- Energy Optimization

### Dashboarding Strategy

- How adaptation of an intuitive drill-down dashboard improved operational efficiency in a Textile industry

### Cloud Strategy

Cloud native application (Azure IoT Hub/AWS)

### Consulting

- Due Diligence activity for
- Defining Strategy
- Technology & Operation

## Case Studies



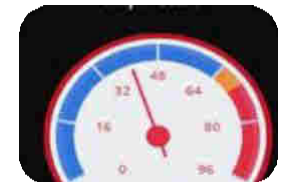
[Predictive Maintenance in the Process and the Manufacturing](#)



[How adaptation of an intuitive drill-down dashboard improved operational efficiency in a Textile industry](#)



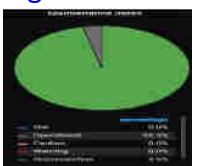
[A Microservice Architecture for the Industrial \(IoT\) Internet-Of-Things Applications](#)



Dashboarding Solutions for Sugar Plant



[Real-time monitoring of power generation](#)



OEE for Chemical and Textile Industry

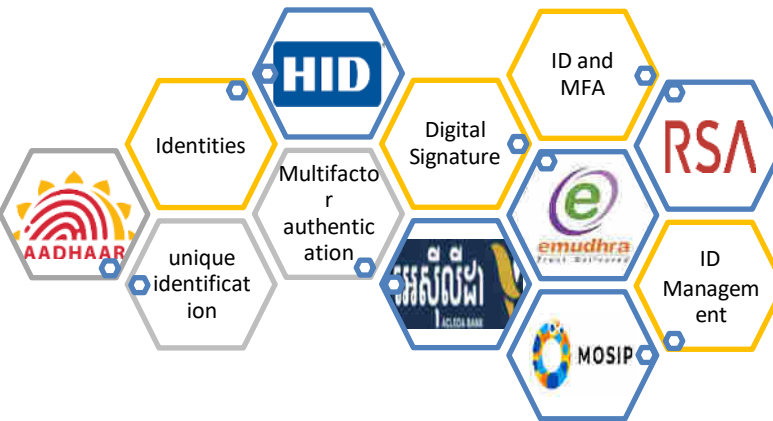


[Integrated Energy Management System](#)

# What Are Our Case Studies

## Security

Offers end-to-end Trusted Identities and to securely access the digital places



### Next Generation Border Control (XBC)

- Microservice Arch, Rest API, Support multiple workflow, and can be used in Web Portal, any handheld devices, custom devices from HID

### Universal Criminal Workstation

- Rest API, Support multiple workflow, and can be used in Desktop, Web Portal, any handheld devices

### Identity Management Software

- ArcID, MOBS, LSMS
- Microservice Arch, Rest API, Support Asynchronous backend process and can be used in Web Portal, any handheld devices and, custom devices from HID

### Multifactor Authentication

- DigitalPersona
- Microservice Arch, Rest API, Support Desktop, Mobile app & web with Two-factor and multi-factor authentication

### Cybersecurity

- Vulnerability assessment and penetration testing (VAPT)
- Managed security services (MSS)

### OT Security

- OT vulnerability assessments
- Security posture of OT infrastructure
- Access control and authentication mechanisms to protect critical assets

## Case Studies



Identity Management Software for US Gov

[Link](#)



Criminal Workstation solutions for Saudi Government

[Link](#)



Secure Border Crossing via Air, ground and sea.

[Link](#)



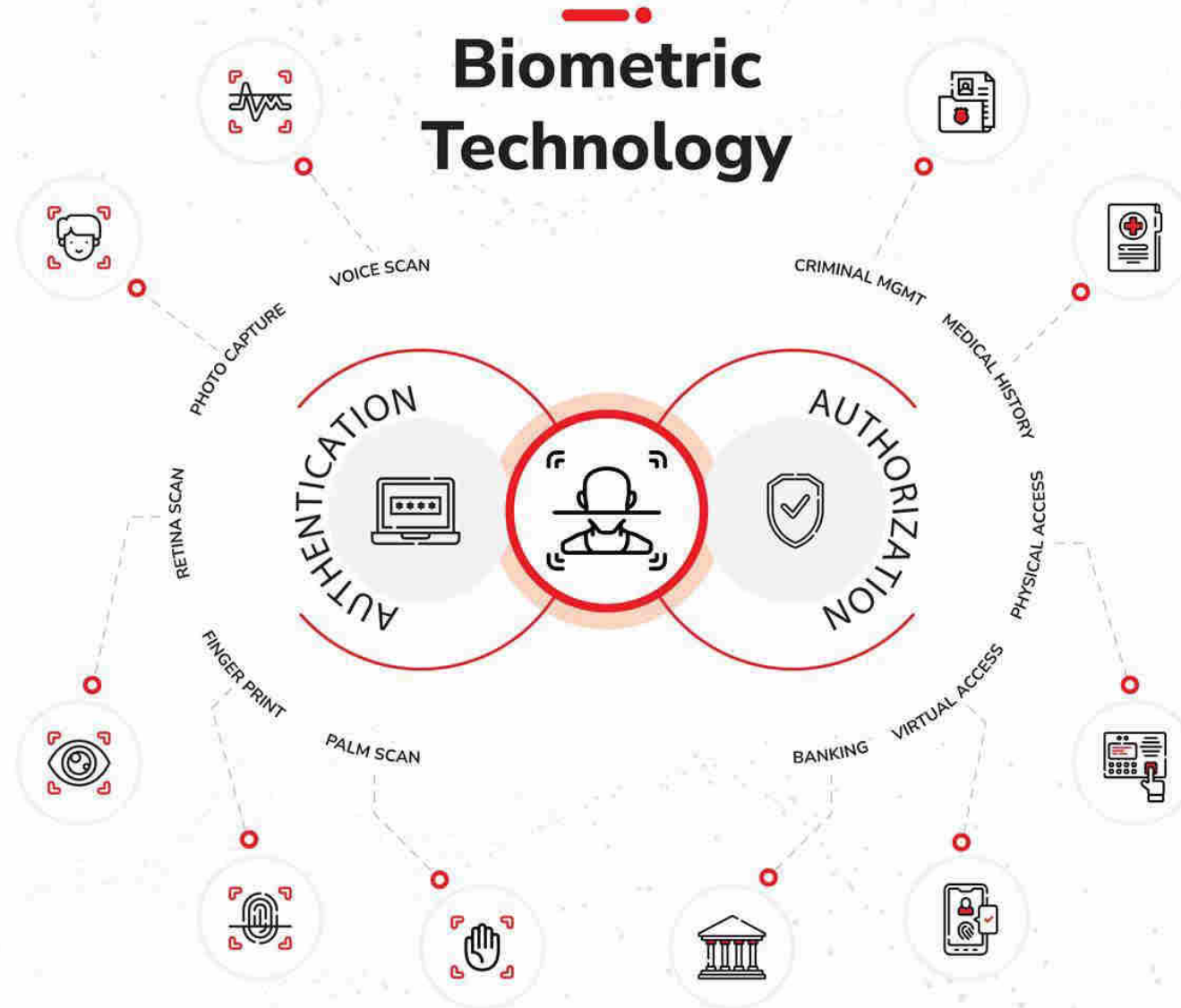
End to End Identity Access Management (IAM) Enhancement and Support for Indonesia's Largest Bank

[Link](#)



# What Are Our Case Studies

## Biometric Technology





# What Are Our Case Studies

## EduTech

Enabling Digital Transformation in education institutes using Technologies



### Integrated ERP Product for Collages and Schools

- Microservice Arch, Rest API, Support multiple workflow, and can be used in Web Portal, any handheld devices, custom devices from HID

### LMS

- Rest API, Support multiple workflow, and can be used in Desktop, Web Portal, any handheld devices

### Re-Architecting to improve the performance

- Improve the performance by 76%

## Case Studies



Remove the Limitations of existing Architecture to Move on with Business

LMS product development

[Link](#)



Campus360Plus



Scool360

# What Are Our Case Studies

## Center of excellence(CoE)- Testing

TCOE is a model for centralized testing platform that provides for standardizing test processes and optimal utilization of resources for test purposes. It brings the infrastructure and resources together for achieving excellence in testing functions.



### QA Solution (Domain Agnostic)

- Functional & Non-Functional Testing
- Web, Desktop, IIOT, API, Test Automation, Performance testing, Mobile App testing with Industry best Tools, Technologies, Process & Framework

### Our Service Catalogue & Portfolio

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>• <b>Our Service Catalog:</b></li><li>• Test Management</li><li>• Test Automation</li><li>• Performance Testing</li><li>• Compliance Testing</li><li>• Cross-Platform Testing</li><li>• Localization Testing</li><li>• Testing in Production</li></ul> | <ul style="list-style-type: none"><li>• <b>Our Service Portfolio:</b></li><li>• Test Planning</li><li>• Test Design(Preparation)</li><li>• Test Execution</li><li>• Test Reporting</li><li>• Dashboarding</li><li>• Monitoring</li></ul> |
|--|--|

### Tools, Frameworks, Process

- Selenium, UFT, SOAP UI, Ready API, Jmeter, LoadRunner, ALM, Dynatrace
- Selenium C#, Java BDD Framework, Selenium Serenity etc



Testing as a Managed Service for HID Biometric



Functional and Automation service UI & API for Aria smart billing and Invoicing system



Mobile App automation for edu 360 and HID



Test Execution Dashboarding with Extent report integration

**Team:** 35+ QA testers averaging 6+ Yrs experience, Proven track record of Multi Domain specialist with 10K+ Regression Suite Automation

# What Are Our Case Studies

## Generative AI and Chat GPT

### Generative AI Use Cases

#### Assisto Sentiment Analysis

##### AI-Enabled Performance Management System

Using Sentiment analysis and Natural Language Understanding, we have developed a model which will be able to articulate the given message and provide the relevant scorecard

#### NLP

##### Rank Resumes based on any skills or your current requirements

Analyze any resume to uncover deep insights about the professional's career

#### Enterprise Chat GPT

##### NSP Chat GPT

Help employees quickly generate content, analyze or compare data, summarize documents, learn new skills, write code, and much more.

#### Student Progress Tracking & Prediction

##### Facilitating data-driven decision-making by teachers and administrators

Track student progress in real-time, providing actionable insights into their learning journey

### Generative AI Use Cases

#### Areca Grading System

##### AI-enabled classification grading system

Using Convolutional Neural Networks (CNN) for computer vision, we developed an efficient classification system for Areca nuts.

#### Smart Office + Automated Attendance

##### Facial authentication

Modern office with automatic attendance using computer vision

**●**

Area currently we  
are working on

