![happiest minds - The Mindful IT Company. Born Digital . Born Agile](logo)

CREATING A SMART, SECURE AND CONNECTED WORLD WITH THE INTERNET OF THINGS

IoT – Solutions and Services

We are now living in a world where the number of smart devices has far exceeded the number of human beings using them. So it shouldn't come as much of a surprise that we are rapidly moving towards a reality where devices are able to connect with each other and their users in an intelligent and timely manner. In addition, the technological landscape we operate in is increasingly becoming "software defined" and forcing enterprises to embrace a paradigm that will fundamentally change how we create, consume and communicate.

The Internet of Things is based in the simple yet revolutionary idea of blurring the lines between the physical and digital worlds to create an ecosystem that is smart, secure and connected. The true potential of the Internet of Things (IoT) lies in the ability to combine device-generated data with data created by humans for deeper insights and better real-time decision making.

Happiest Minds brings the right blend of technology, domain and consulting expertise to understand each customer's unique requirements and develop a solution that can be readily integrated across several business processes. We look to provide ideas and insights to enterprises and work with them in a collaborative and consultative manner to help them maximize the true potential of IoT.
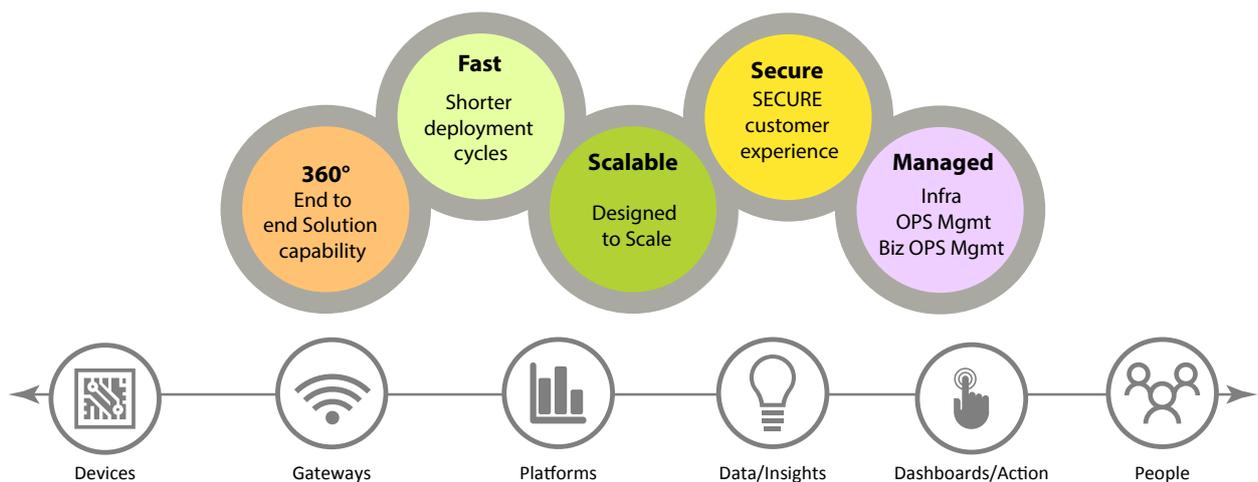
Our expertise can be described through 7 pillars:

Unlock the potential of IoT for a Smart, Secure and Connected Customer Experience

CONNECTED DEVICES
Make your "things" smart

ASSESSMENT SERVICES
Your IoT Blueprint

SECURE MANAGED SERVICES
Protectively manage your downtime

BUSINESS SPECIFIC APP DEVELOPMENT
Integrated Business Workflows

7 Pillars

INTELLIGENT PLATFORMS
Get your devices and data business ready

ANALYTICS AND VISUALIZATION
Realize your business potential
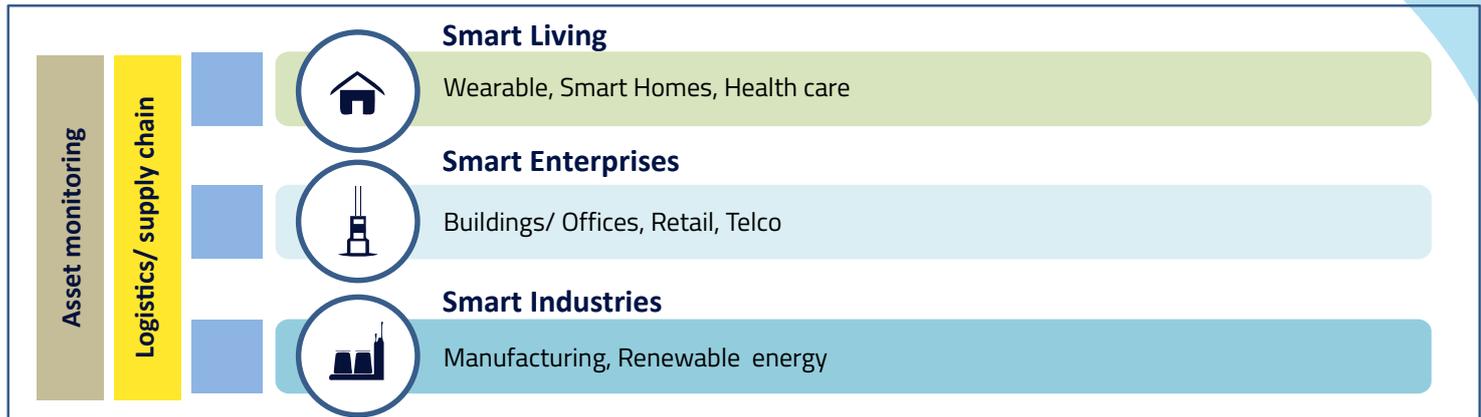
DEVOPS/ AUTOMATION
Quality Automated

The 7-pillars represent the de-construction of the what it takes to build a successful IoT solution. Our endeavour is to help our customers cover all the 7-pillars by understanding and filling the gaps in our customer's IOT journey. At Happiest Minds, we have a dedicated IoT Center of Excellence that works on providing the most holistic set of services.

Happiest Minds looks to provide services in the IoT space which are intended to drive business value and improve efficiency while bringing down operational and maintenance costs. Our objective is to help our customers connect and scale efficiently, analyze and act on new data, integrate and transform business processes while benefiting from a secure and managed infrastructure.
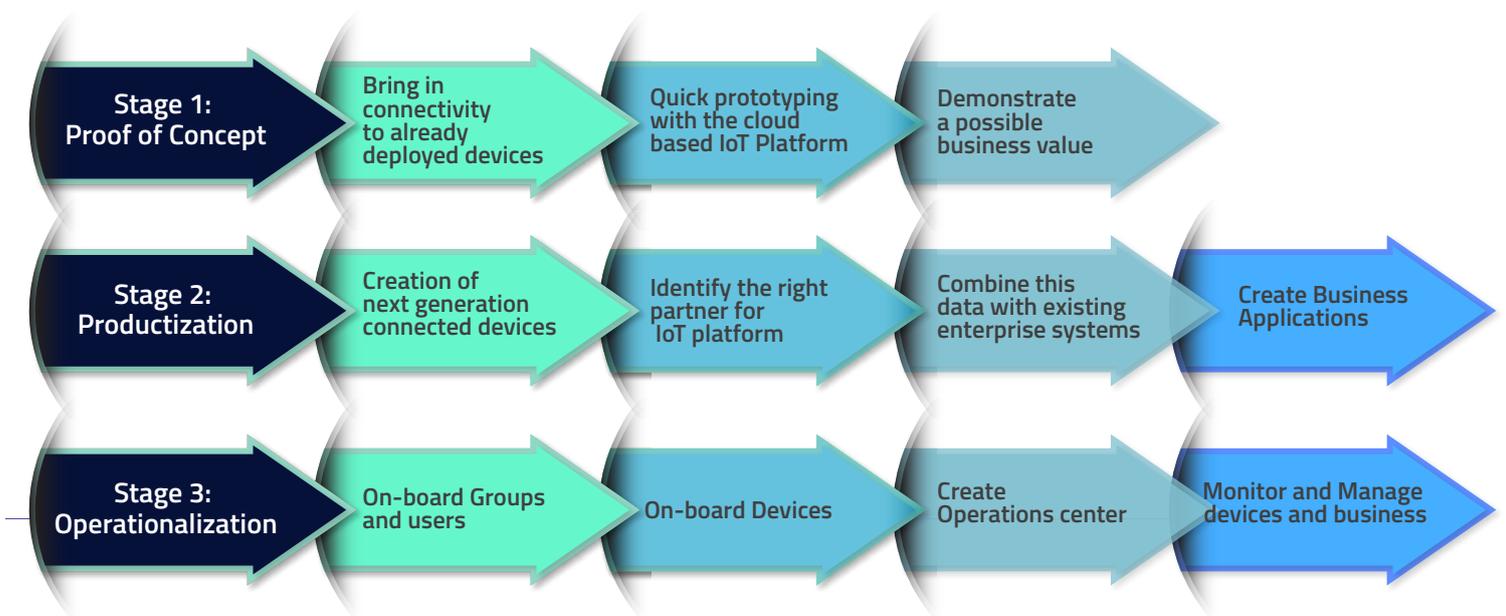

Fast
Shorter deployment cycles

Secure
SECURE customer experience

360°
End to end Solution capability

Scalable
Designed to Scale

Managed
Infra
OPS Mgmt
Biz OPS Mgmt

Devices — Gateways — Platforms — Data/Insights — Dashboards/Action — People

IoT Focus Areas for Happiest Minds

Asset monitoring | Logistics/ supply chain

Smart Living
Wearable, Smart Homes, Health care

Smart Enterprises
Buildings/ Offices, Retail, Telco

Smart Industries
Manufacturing, Renewable energy

While we focus predominantly on the segments mentioned above, we have expertise across all stages of IoT adoption to provide our customers with a seamless single vendor experience to maximize their efficiencies. We work with you in delivering just the right proof of concept to secure the approval of your management. We then work with you closely across the different phases of your IoT journey all the way to creating a dedicated IoT operations center that is necessary for an enterprise wide IoT rollout.

Expertise across all stages of IoT Adoption

Stage 1: Proof of Concept → Bring in connectivity to already deployed devices → Quick prototyping with the cloud based IoT Platform → Demonstrate a possible business value

Stage 2: Productization → Creation of next generation connected devices → Identify the right partner for IoT platform → Combine this data with existing enterprise systems → Create Business Applications

Stage 3: Operationalization → On-board Groups and users → On-board Devices → Create Operations center → Monitor and Manage devices and business

Creating the building blocks of a smart and successful IoT journey

We at Happiest Minds have taken an approach that involves building proprietary frameworks across our focus areas and subsequently leveraging a strong partner ecosystem to deliver the greatest value to our customers. We have strategically chosen to build different frameworks that are meant to address unique customer needs.

These frameworks are:

Gateway Management Framework - A software based, hardware-agnostic gateway framework that allows secure connectivity to sensors and the cloud

MIDAS - A secure platform that has the right components and infrastructure to ensure smooth implementation of IoT solutions.

Anomaly Detection - A feedback based domain agnostic solution that uses statistical, supervised and artificially intelligent algorithms to automate the process of finding outliers

Developer Engagement Platform – An innovative solution that gives API providers a method to socialize their APIs and then educate, communicate and contribute with the developer community.

In addition to these frameworks, we have built a strong ecosystem of partners across platforms and devices. This has resulted in us acquiring a host of customers across the globe and receiving recognitions from the analyst and advisor community. Provided here is a quick snapshot:

30+ IoT Customers	200+ SMES	50+ Partners	20 + Analyst mentions

Industry Memberships	Partner Eco system		
	Platform	Device	Semi
tsdsi · IIC MEMBER industrial internet CONSORTIUM www.iiconsortium.org	Microsoft Azure IoT · ThingWorx · Cortana R · Power BI · IBM Watson	kontron · ADVANTECH · MULTITECH · ARROW · HUAWEI	intel · ARM · TEXAS INSTRUMENTS

Case Study – Helping a Manufacturing Conglomerate unlock the full potential of IoT

Client	Leader in the chemical processing and water treatment space providing solutions for 13 market segments
Client Situation	- Some segments experimented with connected solutions but adoption was an issue - Other segments were lagging and were yet to get into IoT and Digitization - Each segment had its own IoT initiative with no common infrastructure - There was a strong need to have a common vision of IoT across the organization to optimize development and maintenance costs
Happiest Minds Scope	- Consulting on creation of the technology roadmap for common controller, cloud platform and mobile SDK architecture applied to all the businesses - Controller and gateway to redesigned for LoRa based communication - Build the common IoT infrastructure using Azure IoT to: - Collect data from thousands of devices simultaneously and do streaming analytics - Design a big data platform for scalability and performance - Stream analytics and data models for the data captured - Security built in into the design - Portals and mobile Apps for multiple use cases
Technology	- Azure IoT Suite, Stream Analytics, Data Factory, Data Catalog - Blob Storage and Document DB - Web API, C#

Device Gateway

Sensor 1

Sensor 2

Sensor 3

IoT Hub

Stream Analytics

Machine Learning

Mobile App

WebJobs

Event Hub

Document DB

Azure SQL database - Connection Data

Enterprise Data Warehouse

salesforce

Other Cloud Apps
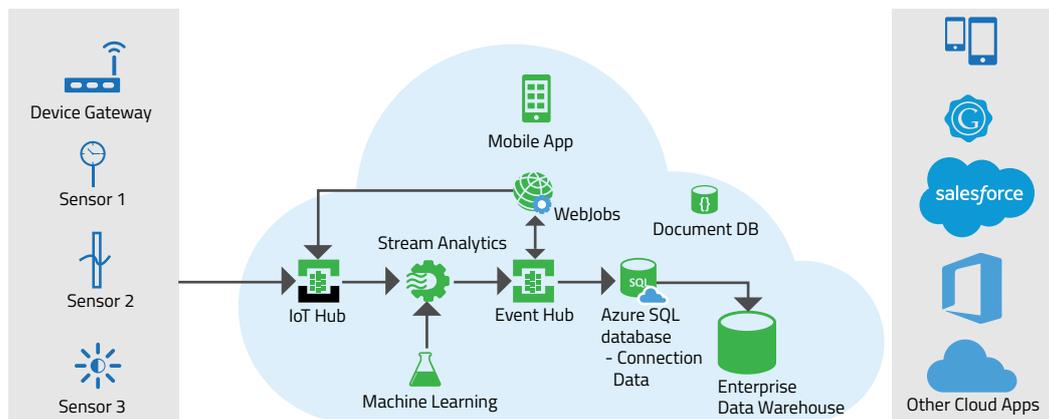
About Happiest Minds Technologies

Happiest Minds, the Mindful IT Company, applies agile methodologies to enable digital transformation for enterprises and technology providers by delivering seamless customer experience, business efficiency and actionable insights. We leverage a spectrum of disruptive technologies such as: Big Data Analytics, AI & Cognitive Computing, Internet of Things, Cloud, Security, SDN-NFV, RPA, Blockchain, etc. Positioned as "Born Digital . Born Agile", our capabilities spans across product engineering, digital business solutions, infrastructure management and security services. We deliver these services across industry sectors such as retail, consumer packaged goods, edutech, e-commerce, banking, insurance, hi-tech, engineering R&D, manufacturing, automotive and travel/transportation/hospitality.

Headquartered in Bangalore, India; Happiest Minds has operations in USA, UK, The Netherlands, Australia and Middle East.

United Kingdom

United States

Australia

Bangalore

Write to us at business@happiestminds.com

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