Ripples
Industrial IOT Solutions

CAPTURE DATA
CREATE INTELLIGENCE
&**COLLABORATE**
FOR SMARTER
PERFORMANCE
&DECISIONS

RIPPLES

An Industrial IOT solution which combines the power of multi-sided platform, smart sensors and data analytics. Ripples brings a world of opportunity with data capture, data analysis and data sharing that can add new dimensions in the way you are working, making it smart.

Ripples acts as a multi-location business intranet, collaborating work force and as an Industrial IOT platform, capturing information on your valuable assets and decoding them to actionable insights.

A **READY TO USE** COLLABORATION & INDUSTRIAL IOT PLATFORM

Exploring the opportunities that connected physical objects and effective information sharing platforms can bring, we have been working with leading players in technology developing collaboration and IOT platforms that can transform the way businesses are run.

Multi-location Business Intranet

Managing a multi-location business needs functional elements that are different from a single location operations. The considerations are given for standard business practices, team building, communication, knowledge management, asset monitoring, roles and responsibilities, staff tracking, project monitoring, human resource management, expense tracking etc.

Ripples act as a collaboration platform for multi-location business operations to easily communicate and collaborate among different functional teams to deliver customer delight. The benefits for small business can also be extended to bring key suppliers, customers and other partners like logistics providers, external consultants into the communication channels to improve productivity and reduce costs.

Keeping Track of Expensive Goods

Ripples as an Industrial IOT platform uses smart devices for tracking and monitoring high value assets, products and consignments. The smart sensors fixed to your assets captures critical data like temperature, humidity and vibration. These data gets transferred to Ripples IOT platform which analyses and decodes them to actionable information.

Ripples is a valuable tool for logistic companies handling high value, live and medical consignments and for manufacturers dealing with products sensitive to temperature, vibration and humidity.

RIPPLES
SELF-SUSTAINED
ENERGY EFFICIENT
STABLE
FLEXIBLE

CUSTOM IOT SERVICES FROM **SOFTWARE ASSOCIATES**

Backed with technology expertise that our application development wing brings in, we have been doing extensive research and developments on sensors, their applications, and how the data from sensors can be converted to actionable information across web and mobile.

Embedded Systems Prototyping

It is not viable for many organisations to invest in technology, skills and infrastructure to get their ideas for IOT tested. This requires talents in engineering and industrial design. We at Software Associates, bring the various components required to translate your ideas to workable prototypes. This includes system architecture, board and framework, mechanical design, prototyping and validation.

Custom IOT Tools/Platform

With millions of devices getting connected, there is requirement for systems integration, layout designing and application development. Software Associates offers a unique combination of skills in web technologies, sensor integration, PCB schematic & layout design and embedded programming, for end-to-end execution of IOT/M2M projects.
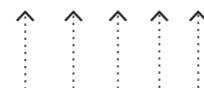
Devices/Platforms

Embedded Systems, Raspberry Pi, Arduino, Spark Core Platform, Micro controllers (PIC, Atmel and others).
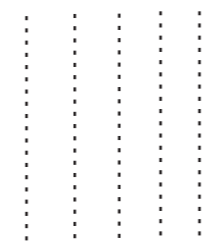
Hardware

RFID; UART, SPI, I2C, RS232; GSM module, RF communication modules, Sensors (DHT11, BMP085, IR, Hall Effect etc.), LCD module, Wi-Fi Communication, Zig bee, Bluetooth Low Energy, Robot prototyping.

DECODE

Partnering with technology leader like Acquia and global institutions like University of Utrecht and Windesheim Flevoland, we have successfully created a platform that can make sense of the data captured and match it against human cognitive capacities. The IOT platform can also connect with social intranets to create an empowered and agile work force.

RIPPLES CLOUD

CONNECT

Capturing data using semiconductors creates only 10% of the value. The game changer is in getting the silicon and internet intersect. With the API developed, our team has cross yet another milestone enabling the sensors transmit the data captured. These data gets stored in Amazon Cloud creating a world of opportunity to be unveiled.

CAPTURE

The brains at Software Associates have been exploring on the immense opportunities of IOT, testing the various combinations of algorithm and prototypes of semiconductors. The sensors designed can capture temperature, humidity, vibration and movements of a connected object or an environment at accuracy levels of international standards. This 'matchbox' sized sensors are highly durable with huge data storage capacity and a battery life of 10 years.

PRODUCTION

SHIPMENT

WAREHOUSE

SHIPMENT

CUSTOMER

PROTOTYPES

Environment and Asset Monitoring

Cluster of devices are deployed in an environment that captures real time information which will auto trigger alert mechanisms and controls.

Smart Agriculture: Climatic conditions are crucial for crops to yield better. With smart devices monitoring your crops you have a self-monitored system that can alert you on climatic changes and trigger any balancing mechanism like irrigation, right time reaping etc.

Smart Healthcare: Healthcare is one industry that uses high value equipment and drugs to save lives. These equipment are either purchased, rented or leased. Healthcare industry, especially in African region faces threats of misuse, abuse, theft of equipment and lifesaving drugs. With smart IOT tools you can monitor your equipment usage, operating conditions, theft and maintenance.

Smart Logistics: Yearly large amount of products are damaged or lost during the transit. It becomes inevitable for manufacturers and logistic companies to ensure prompt and safe delivery of the consignments.
With our smart IOT solutions you have a self- monitoring mechanism tracking the temperature, pressure, vibration and movements of your consignments. Unlike traditional GPS, the solution offers integrated monitoring, auto alerts and deeper business insights.

Smart Pillbox: Geriatric care is a global social issue. With Smart Pillbox we are connecting the elderly people with medical practitioners and their loved ones. This smart tool schedules medications remotely using web or mobile interfaces, alerts on medical appointment, tracks consumption patterns and responses to medicines, emergency alert mechanism etc.

ABOUT SOFTWARE ASSOCIATES

We are about doing original work

Software Associates is a name synonymous to reliability and innovation. With over two decades of its presence it has catered technology needs of global organisations like **Master Card, Tiger Beer, World Architecture News, J&J Transport** etc. It has grown from a humble beginning to **400+ global clients, presence in 12 countries and 100+ employees**. With its fresh initiative at Netherlands, it intends to offer smart industry and industrie 4.0 solutions. Software Associates innovation center at Almere, Amsterdam incubates data scientists and product engineers who in association with leading universities like **University of Utrecht** and **Windesheim Flevoland** and technology leaders like **Acquia**, researches and develops cutting edge IOT solutions.

We cater to global SME's in supply chain logistics, healthcare, manufacturing and construction industries providing IOT consulting, platforms and configuration management solutions.

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