

**Data triggered workflows & cognitive automation bot platform**

**Intelligent data driven workflow automation apps for industrial IOT**



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**Data** is **power** when  
it drives **Action**



IOT allows instant communication across Men, Materials and Machines. **But data is only power when it drives action.** Too much information is often worse than too little.

Zvolv from Zestl, A Cognitive Workflow Automation platform interprets the IoT data streams and **translates it into clearly defined actions.**

Zvolv drives your **OT and IT convergence strategy** , with proof of value in under a week!

## Problem

Less than **5%** of all machine generated data is used to drive actions or decisions, leading to significant **productivity** and efficiency **losses**

### OBSTACLES:

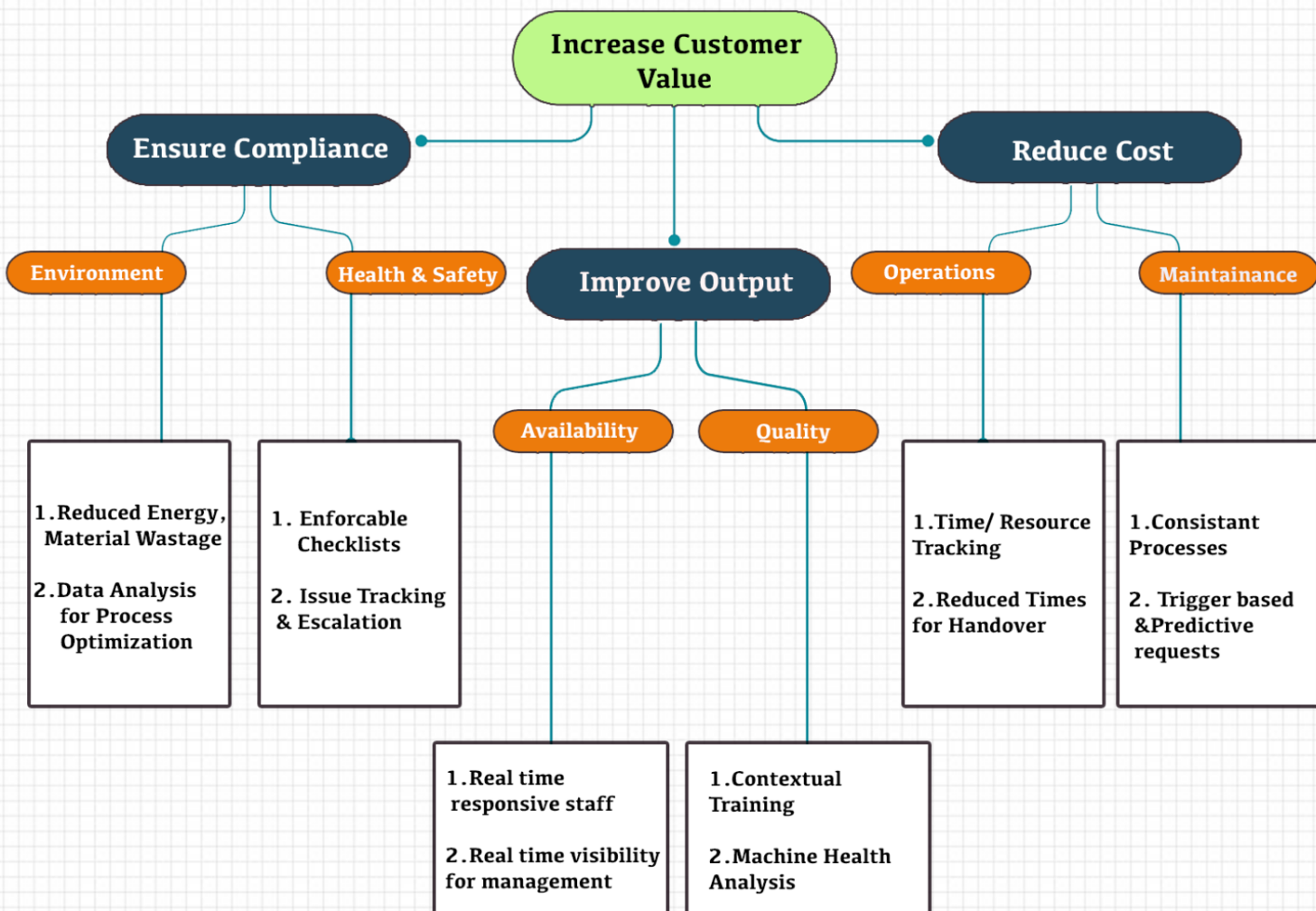
- 01 Manual triggers
- 02 Missed Communications
- 03 Repetitive, Error-prone tasks
- 04 Disparate Tools
- 05 Conflicting Priorities
- 06 Unstructured Data
- 07 Lack of Mobility
- 08 Non-Real-Time Data

## Solution

**Zvolv** intelligently uses your **machine data** to drive your people's actions with **structured data triggered workflows** and **cognitive automation bots.**



Connect your **Machines, People and Processes** with **intelligent data-triggered workflow automation apps** and drive exponential value for your customers



# Connecting your machines to your people

Reduce



**01** Reduce downtime with proactive alerts from connected devices

Accelerate



**02** Accelerate issue resolution by remotely monitoring devices

Improve



**03** Improve labor efficiency by dispatching the right technician only when needed

Enable



**04** Enable your service techs to deliver a first time fix with contextual training

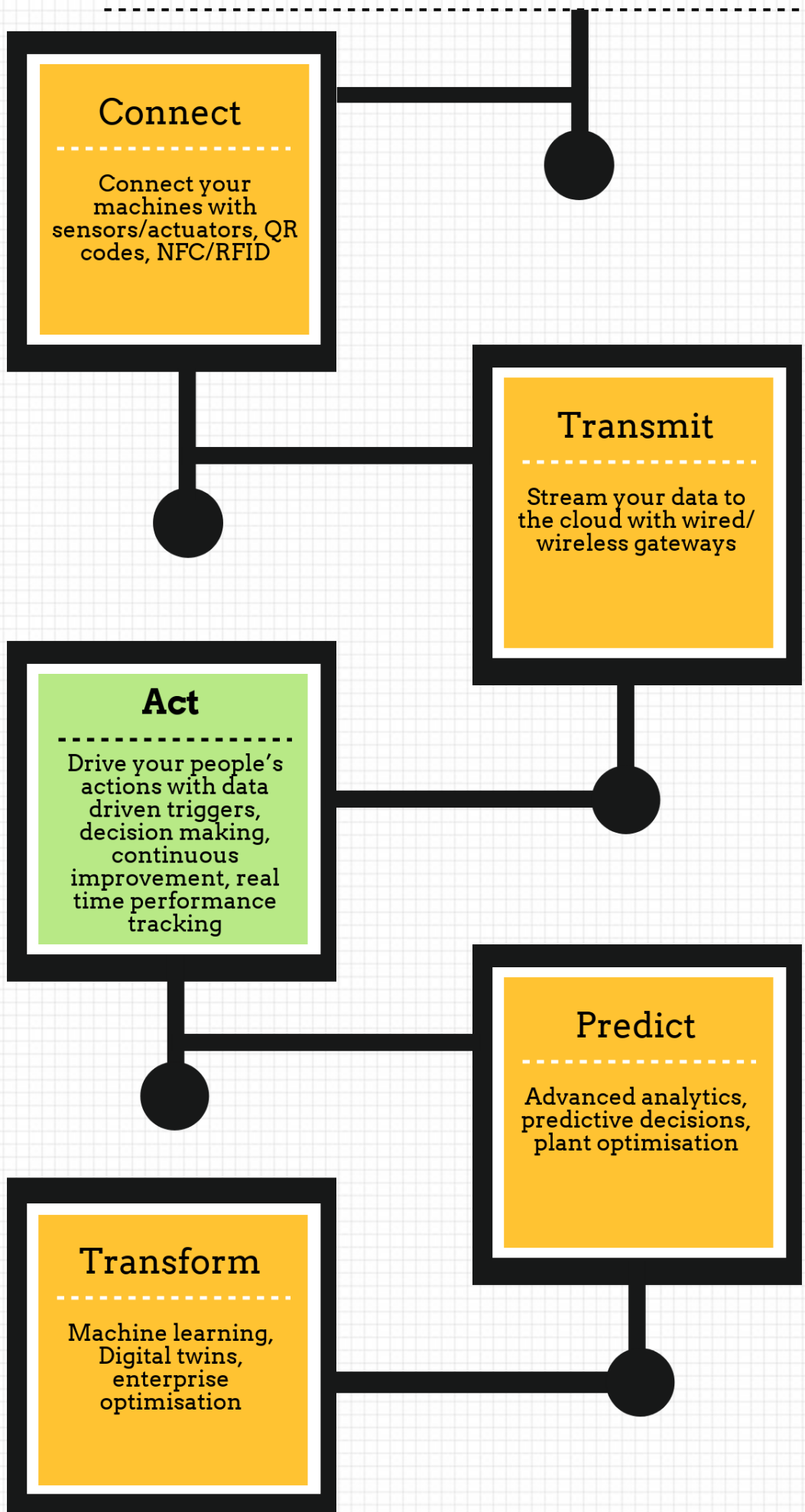
Enhance



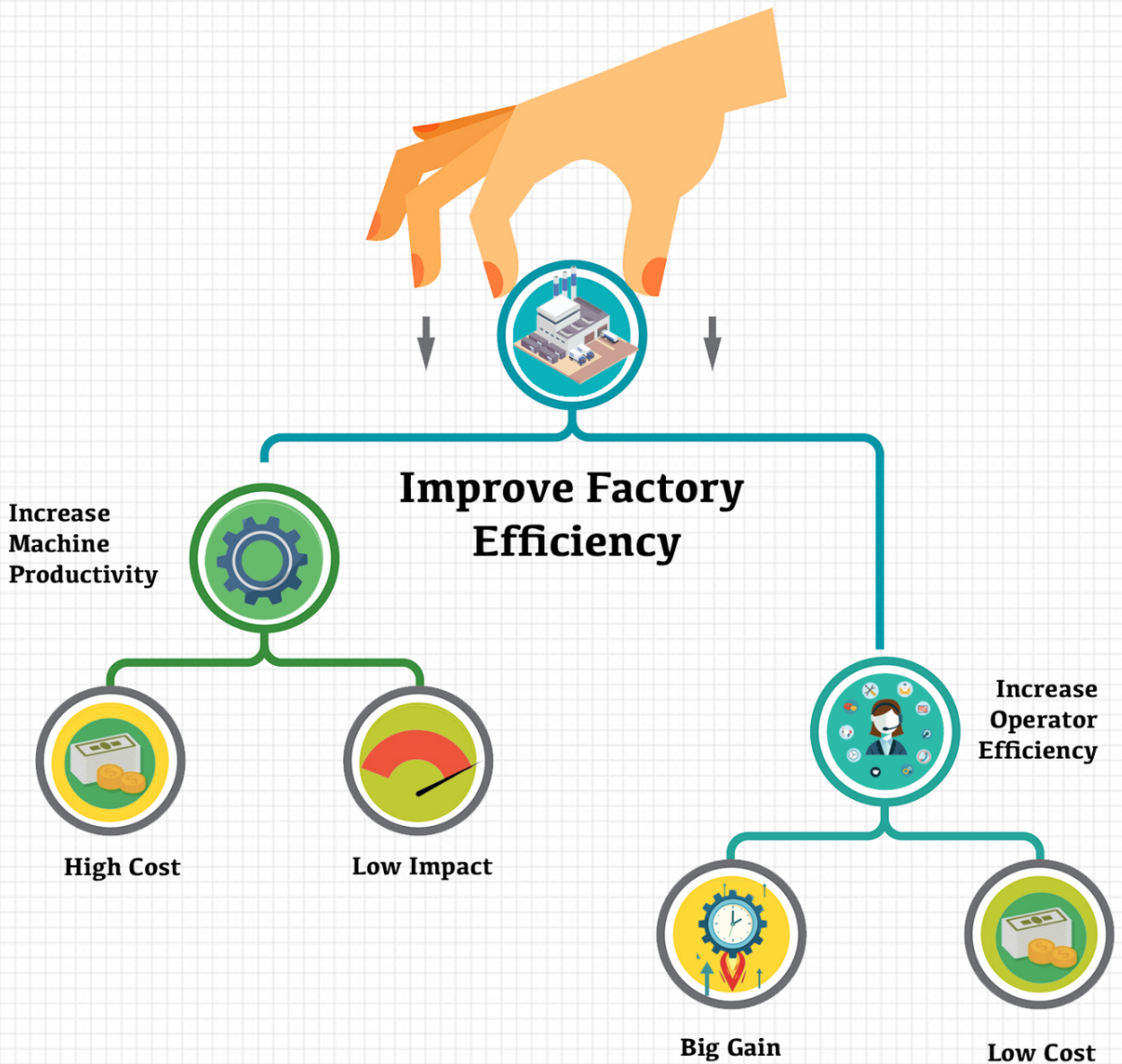
**05** Enhance visibility into product/service performance and customer satisfaction

# Drive your People's Action

05



Are you making the most of the data in your **machine** or **system**?



## Drive Efficiency

With Real Time data triggered workflows for maintenance, monitoring and compliances



## Improve Productivity

With process automation, contextual access to information and training



Zvolv enables you to derive meaningful value from your machine's data, today. And set's you up to continue evolving to derive exponentially more value in the future.

## Diagnosis

- Real time data
- WHAT happened?
- For ex. "Motor Fault - High Current"

PRESENT

## Actionable

- Real time action
- WHAT to do?
- For ex. " Motor Fault Resolution workflow"

## Predictive

- Future
- What is about to happen?
- For ex. "Motor will Fault"

FUTURE

## Actionable

- Future Action
- What can i do to avoid it?
- "Motor will fault - decrease load"

Create **Intelligent, Personalised Applications,**  
in a **Matter of Days**



**Integration with  
machine data  
streams to trigger  
actions**

- ✓ **No Coding** required, business processes can be configured via simple GUI
- ✓ Revisions (evolution) in a matter of minutes, with **no developer dependence**
- ✓ Mobile enabled, Customised (configured) to **exact business process** (nothing more, nothing less)
- ✓ Built in and **customisable AI** based predictions, analytics and dashboards
- ✓ **Bot based automation** to maximize efficiency

# Zvolv IOT Applications

**Connected Machines + Automated Workflows = Industry 4.0**



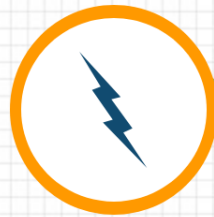
"Connect your Machines, People and Processes with intelligent data-triggered workflow automation apps in a matter of days."

**Facts:** IOT data will account for 10% of all data registered globally around 2020

**LOW ON  
EFFORT,  
HIGH ON  
IMPACT**

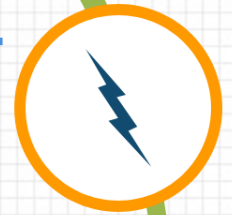
## 1. BUILD

Map out your processes in the intuitive workflow builder in minutes. Integrate forms, documents, training media, tasks, escalations, notifications, dependencies and much more to build processes that guide and monitor your people's actions.



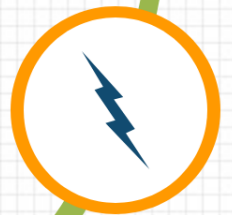
## 2. CONNECT

Zvolv integrates with machines via gateway devices that packetize and stream sensor data to the cloud. Connect a single machine with loads of sensors, or your entire machine floor.



## 3. TRIGGER

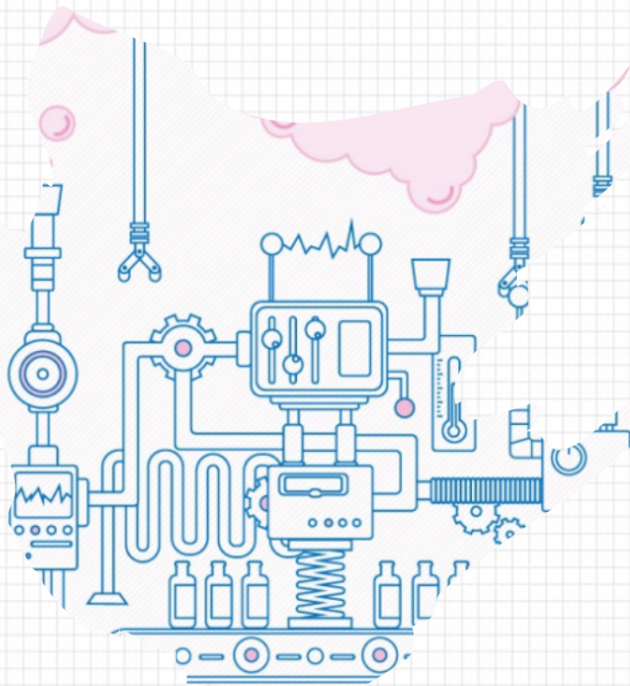
Zvolv connectors tap into machine data streams to monitor for actionable triggers. Setting up smart triggers via the rules engine lets you fine tune responses, and create complex combinations of sensor data streams.



## 4. IMPACT

Tasks, activities and entire workflows can be triggered with real time machine data, driving efficiency across the organisation, enabling real-time decision making and access to contextual information.





## Increase Visibility

With digital twins of your machine driving your planning, forecasting and scheduling



## Improve Productivity

With process automation, contextual access to information and training



## Drive Efficiency

With real time data triggered workflows for maintenance, monitoring & compliances

### ZVOLV Components

1

#### Structured Workflow

No Code, No Development

2

#### Cognitive Automation Bots

Rapid Development & Seamless Integration

3

#### Task & Resource Management

Feature Rich, Predictive

4

#### AI Driven Dashboards

Customisable & Learning Algorithm

5

#### Training & Service Management

Responsive & Contextual

6

#### Machine Integration

Real Time & Configurable Templates

7

#### Document Management

Smart Search & Contextual Access

8

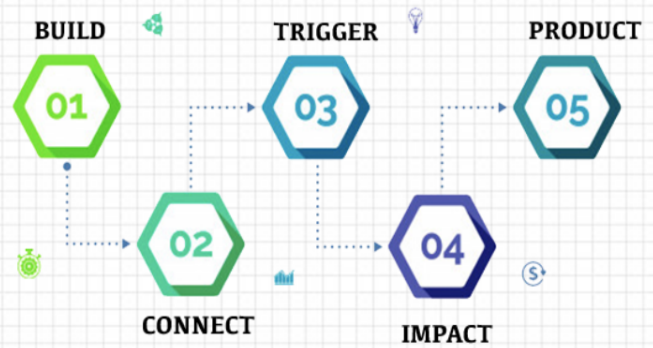
#### Smart Triggers

Data Processing & Event Isolation

## Configure your workflows

- Map out your processes into workflows
- Map out people roles, tasks, escalation processes
- Map out any automation bots

1



2

## Configure your Data Triggers

- Monitor machine progress, alerts, task statuses in contextual dashboards
- Monitor machine progress, alerts, task statuses in contextual dashboards
- Setup role based access permissions

## Configure your Dashboards

- Monitor machine progress, alerts, task statuses in contextual dashboards
- Select information from your triggers, workflows
- Setup role based access permissions

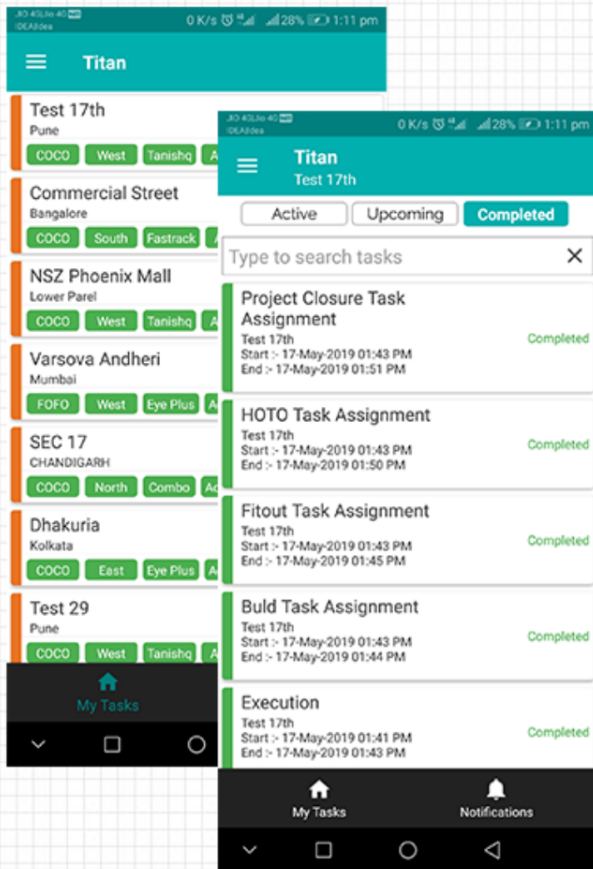
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## Opportunities in Manufacturing

### Example # 1: Driving Maintenance and Support Workflows with Data Triggers

**Case Study:** A large manufacturer of Industrial components looking to minimise downtime, ensure consistent processes and real-time visibility into support requests.



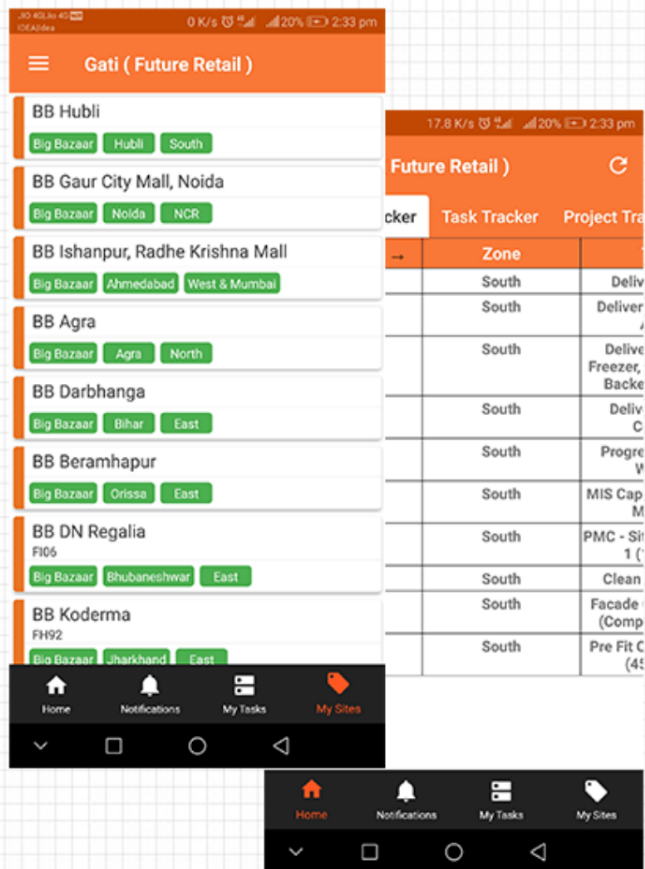
**The Challenges:** Older machines with frequent maintenance needs, inefficient handover processes, untrained staff.

**Solution:** Machine sensor data streamed to cloud via wired gateway devices. Zvolv apps configured to sniff data via APIs. Triggers and workflows programmed for common maintenance and support issues. Mobile apps for plant workforce ensures instant notifications, task assignments with step- step process training, response time tracking and web portal for real-time visibility into machine, staff performance.

# Opportunities in Manufacturing

## Example # 2: Cognitive Automation Bots and Real-time Task Tracking

**Case Study:** A product category leader in manufacturing wanted to transform financial reporting by getting real time visibility into costs and profitability by product, product line.



**The Challenges:** Manufacturing spread out across 6 facilities across India, Multiple systems being used for execution, Completely manual reporting.

**Solution:** An set of automation bots that compile work orders for the selected products and time frames, draw materials data from the Bill of Materials, identify manufactured and purchased components, calculate the cost of purchased components based on Purchase Order and Landing costs, calculate manufacturing cost for components and the finished product based on real-time Routing and Resource Costs, calculate costs of outsourced job work from Purchase Orders, add logistics costs and overheads and finally calculate profitability depending on sales orders. The Zvolv app for reporting is integrated with the customers ERP. Other applications for Exports and Logistics are being replaced with Zvolv apps.