START SMALL...
INNOVATE AT SPEED...
FINISH BIG!

With an Enterprise AI x IoT Platform & Solutions
Innovate at Speed...
Areas of Focus

Industry 4.0 & Smart Factory

Connected Car

Society 5.0 & Smart Spaces

Remote Monitoring Insights

Life Science

Video Insights
# Smart City Platform

<table>
<thead>
<tr>
<th>MyNumber</th>
<th>Common E-Payment System (cashless) Bus/Parking Tickets, Challans</th>
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<td>Payment G/W</td>
<td>Smart Parking (On/Off Street)</td>
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<td>GIS</td>
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<td>Other Departments</td>
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<td>City Surveillance Incident &amp; Response Management Police, Fire &amp; Ambulance</td>
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<td>Citizen Connect (Portal, Mobile Apps)</td>
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<td>Intelligent City Operations and Management Centre (ICOMC)</td>
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<td>Dashboards &amp; Analytics</td>
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<td>Asset Management</td>
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<td>ERP &amp; Document Mgmt System</td>
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**Digital Platform for Integration and Delivery of Smart Solutions & G2C & G2G Services**

- **Sensor Gateways / DCS / Single Board Computers**
Industry

Accelerating Digitalization with 4.0 Solutions
Tri-axial High-frequency Vibration FFT Predictive Analytics

Press

Blower

Motor

Pump

Car Engine

Bearing

Compressor

Chiller

Spindle, Shaft (Crankshaft / Camshaft), Gearbox, Pulley, Flywheel

5000+ Assets

Global deployments every month!

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Automotive MNC Multiple IIoT Initiatives on a Single On-Premise Platform

- KPI Analytics Dashboards and Reports
- OEE & Breakdown Error Analysis of Welding Robots
- Integration of siloed systems
- 5S Audit
- Work Order Workflow & Analysis
- Compliance
- PLC integration
- Iotized BPM
Asset Maintenance

Maintain the schedule & checklist of maintenance activities, raise alerts, record parts replacement & actual maintenance tasks

- Dashboard
- Asset Categories
- Customer-Asset Allocation
- Maintenance Tasks
- Parts
- Maintenance Reports
- Maintenance alerts
Energy Monitoring

Monitor Energy usage across multiple facilities & save energy costs and reduce maintenance overheads
Bring predictability to your business through timely notifications (SWS or push or email) on failures or depletion; Stay informed of events that need immediate attention.

Reduce downtime, Save energy & indirect costs.

Maximize asset utilization.

Save logistics cost of periodic maintenance visits.

Analytics Dashboard with AI and Alerts in 2 hours for thousands of devices!

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Forms360 for Process Industry

Enables business users to create Digital Forms and Workflows in just a few hours

Get rid of paper records and bring about complete traceability of process parameters

- 21CFR Part 11 compliant digitalization with audit trails and digital signature for Pharma
- Ability to ingest data from PLCs/SCADA systems
- Configurable workflows with location-wise role based access
- Seamless interoperability with existing enterprise systems such as CRM/ERP
- Fully responsive screens supporting mobile phones and tablets
- Analytics and reports

Digitalize Quickly; Be Compliant
Connected Vehicle

Deliver journeys of the future!
Picomobi at a Japanese MNC plant of a leading supplier of advanced automotive components

In-plant commute with shared vehicles
Fleet Management

Allows employees to reserve corporate vehicles or sync reservations with existing groupware; Monitors fleet utilization, parking, after office hours usage and driving behavior.
ADAS Vehicle Control Prototype

Community Autonomous Transportation System

① Reserve a Vehicle
② Confirmed Reservation
③ JIT Allocation & Send route to Pickup location
④ Navigate to Pickup Location
⑤ Check-in
⑥ Send route to Destination
⑦ Navigate to Destination
⑧ Check-out
⑨ Send route to Energy Stand
⑩ Recharge

1000 Vehicles
1 OBDII Device per Vehicle
0.5 Data sending frequency
20GB
Fuel Tank Smart Locking

3 Factor Authentication before a lock can be opened

Avoid Fuel Pilferages
Route Optimization
Traceability
Smart Spaces

Transforming lives!
Video Edge Insights

Pluggable algorithms, configurable rules, video alerts on a timeline!

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Smart Street Lighting

Shopping street lighting energy consumption monitoring and footfall analytics
Smart Spaces

Equipments or appliances, lights, curtains can be monitored and operated not just locally with an app or voice commands but also from remote locations. Control drip irrigation or pet feeder and ensure door safety through video surveillance.
Solution

Connecting Consumers to Farmers

- An App for consumers, farmers and logistics providers
- Farmer connects by his/her face; Consumers order directly from the known farmer
- Shopping lists at a button click
- IoTized weighing machines helping the farmers pack the right quantity
- Third-party logistics providers deliver daily orders
- Farmers can manage inventory of their produce that they want to sell through the App
- OTP for verification of transaction at each step
Smart Farming (Conceptual)

Smart Monitoring & Control
- Temperature
- Humidity
- Moisture
- Sunlight
- Irrigation
- Soil PH, moisture, salinity, nutrients
- CO2
- Wind
- Electricity
- Pest
- Trespasser

Livestock Management
- Animal Health
- Feeding control
- Dairy Chiller Monitoring

Cultivation Monitoring & Control
- What to plant and when
- Fertilizer, pesticides
- Growth, Time to harvest
- Yield
- Seasonal changes, Predictive analytics

Useful Data archives
- Market Pricing
- History & trends
- Analytics & Reports

Sales and Distribution Management
- Storage, Dehydration Control
- Links to Market
- Agricultural supply chain
- Seasonal Demands
- Cool Logistics
Smart Farming - Screens
Intelligent Transport Systems

GPS

GPRS Network

Cloud / On-premise Servers

Monitoring & Control Center

CCTV

PIS

Signage

Solar

eTicket

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Open Mobility Platform - OMO

- Reduced Wait Times
- Citizen Comfort
- Maximize Vehicle Utilization
- Increased Revenues
Smart Parking

RFID Controlled Boom Barriers

Parking Sensor (Magnetic/Infrared/Camera)

Parking Guidance

Street Parking Meters & Sensors
Energy Plant Monitoring

- Intelligent Edge Gateway
- Protocol Converter
- Power conditioner
- Power conditioner

- Conversion Efficiency
- Co2
- Solar Radiation
- Fuel Consumption...

- Power GWh
- Voltage
- Current

- Hourly/daily/monthly/annual energy production
- Planning and maintenance of assets
- Automatic Smart Meter Reading
- Demand/Consumption/Usage patterns
- Peak load profiling
- Weather Vs. Production Vs. Consumption
- Real-time alerts and notifications

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Water Management - Integrated Metering and Monitoring System

Overview
- Smart Water Management system manages water supply and distribution for residents by integrating underground and overhead water tanks and water tankers suppliers

Potential Uses
- Municipal bodies can use this system in public places such as gardens, public offices etc.

Benefits
- Monitoring of parameters such as NRW (non-revenue water) and UFW (unaccounted-for water) in the distribution system
- Significant reduction in water wastage and optimum logistics for water supply
- Human resource are typically used to manage water distribution. Automated supply and distribution can help use human resources for more fruitful tasks
- Assures timely water supply to residents by automatically connecting water tankers based on depletion alerts
Solid Waste Management

Monitoring & Control Center

Cloud / On-premise Servers

Garbage Processing Plant

Landfill

Weighbridge

CCTV

Large Trucks

GPRS Network

Transfer Stations

Smart Card

Tippers

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Cold Chain Perishable Logistics

- Cold Storage Facility
- Wholesale Market
- Produced Food Storage
- Raw Produce
- Restaurant Delivery
- Retail Markets
- Home Delivery
The engine behind...
Contineo

An Enterprise AI & IoT Platform **churning out new solutions every week!**

1. Almost Codeless
2. Geared with AI
3. Interoperable
Meaningful IoT solutions need multiple devices and multiple point solutions to integrate seamlessly.

The monetization layer is the **APPLICATION** layer.

**Business users** are able to craft their own solutions in an almost codeless manner.

**Contineo AI x IoT Platform**

- **Connectivity & Control**
- **Device Management & Edge Computing**
- **Enterprise & Social Interoperability**
- **High Speed Big Data Processing**
- **Visualization & Analytics**

**CONNECT, BUILD & PROVISION QUICKLY**

**Contineo AI x IoT Platform**

- **Edge & Cloud Intelligence**
  - Run analytics anywhere
- **Seamless Integration**
  - Integrate disparate systems, devices and technologies
- **Scalable High-Performant**
  - High speed parallel computing

[Website: www.contineo.world]
Rapid prototyping, development and deployment of production grade applications to save up to 80% of Time and Money
Geared with AI

Machine Learning, Neural Networks, Edge Intelligence
Run multiple agents simultaneously with different features and hyper parameters to arrive at the right model.
Digitalization Scenarios

Visualization of sensor/PLC & IoT data

Device Management & Edge Intelligence

Smart Products
Smart Machines

Video Insights & Digital Signage

ETL, BPM

IoT enabling existing software products
Contineo Solution Map

**Industrial IoT**
- OEE & Breakdown Error Analysis
- Asset Preventive Maintenance
- Forms 360
- 5S Auditing
- KPI analytics

**Smart Spaces**
- LEV Car Sharing
- Smart Street Lighting
- Home Automation
- From the Farmer
- A-Eye Video Insights

**Remote Monitoring**
- Solar Plant
- Vending Machines
- Dairy Chillers
- Hospital Gas Cylinders
- Marathon Runners

**Connected Vehicle**
- Vehicle Control (ADAS)
- Corporate Fleet Management
- School Bus and Student Tracking
- Oil Tank Smart Locking

(Proposed)

**Smart Machines**
- Insulation Paper Cutter
- Medical Waste Disinfection
- Heaters
- Refrigerators
Enterprise Digital Transformation
What’s happening?

With budgets in hand, every department is working on their own agenda and building even more siloed systems.
The point is...

Why spend on point solutions and build islands of data?
- One integrated platform!

Why waste time when you can innovate at speed?
- Run multiple cycles of innovation effectively in weeks

Few months to a couple of years

Worried about future readiness and availability of resources?
- Contineo has a growing ecosystem of technology partners and device vendors
Digital Transformation – Transforming the “Business”

Processes, Business Models, Products
Company Overview

Vision
Accelerate the future digital world with CONTINEO high productivity AI x IoT Platform

Philosophy
We have developed a high performance AI x IoT development and execution Platform “CONTINEO” & several ready to use I4.0 and S5.0 solutions. One can configure model-driven, multi-tenant, ML enabled secured enterprise applications using the Designer Studio and realize unprecedented efficiencies. The platform has been deployed in several systems from marathon tracking, car sharing, student safety SaaS to IIoT applications for smart factories.

Location
Japan : Tokyo
India : Pune

Service Lines
◆ AI x IoT PaaS Contineo & SaaS Service / Products
◆ AI x IoT Consulting & Custom Implementation Services

Awards
Winner of the Global TiE50 Award for the Year 2017
Thank You!

www.contineo.world

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