

## Industry 4.0 -SMART FACTORY

## Business Automation



## Process Automation



## Field Instrumentation

## Company Overview

A value driven partnership company **SEEGLOBAL INTERNATIONAL** continues to create strategic partnerships within the business community that are vital in helping our customers achieve their goals in today's ever evolving business environment.

**SEEGLOBAL INTERNATIONAL** has played a growing role in product innovations and applications. Our range of products together with comprehensive system knowledge effectively enables system & process applications.

Our portfolio includes a wide range of products in categories including, metal and steel, Hydrocarbon, chemicals, Industrial manufacturing as well as other business processes. With one of the largest data base that we and our partner companies have with inter-related Knowledge on automation / digital transformation based on Industry 4.0. We have built and nurtured long standing relationships with our stakeholders, our customers and business partners. Because we consistently adhere to the following principles of coexistence, we strive to reap from and enjoy mutual success today and in the years to come.

## Digital Transformation- Industry 4.0



## Industry 4.0 Solutions



### Condition Monitoring for Predictive Maintenance



#### IOT Devices



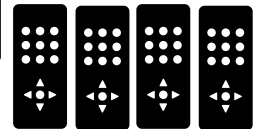
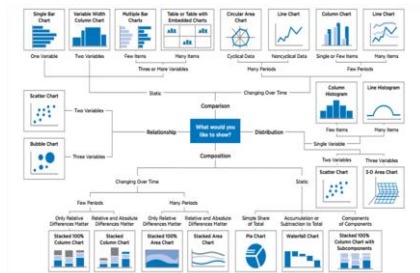
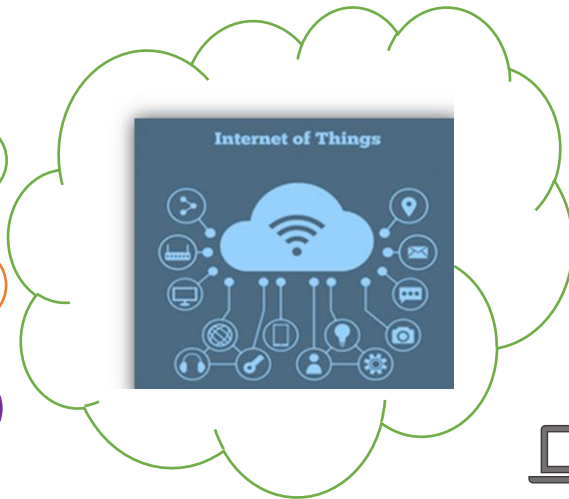
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3



1. Advance Automation system, technological upgradation, Integration & improvement in running units
2. Advance Analytic solutions: - Machine Learning / Deep Learning / Python, AR/VR/MR
3. Track and Trace and Video Analytic solutions with use of IoT Devices
  - a. People,
  - b. Assets & Tools,
  - c. Vehicles & Yards,
  - d. Material Management
4. Data Engineering: - Data Warehouse/Data Lake/Data Warehouse modernization/Azure Data Warehouse/Azure Data Factory

## Viking Analytics

MultiViz Vibration

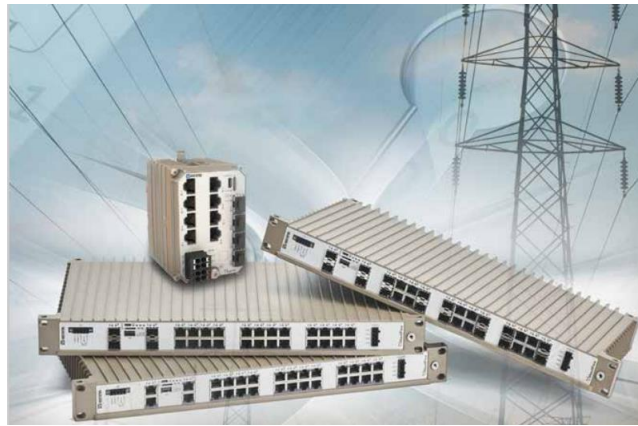
# AI-assisted vibration analysis



### State-of-art automated vibration diagnostic analysis

- A. Detecting asset failure in advance and acting to solve it before a breakdown occurs
- B. *Continuous monitoring and PdM is not fault detection alone. It is about operational efficiency*
- C. Keeping up with the higher demand for vibration experts
- D. Filter out normal machines from the risky suspicious ones

## Westermo Network Products Sweden



1. Networking Products (Westermo Swedish Products)
2. Industrial cybersecurity(Westermo Swedish Products)
3. Managed Ethernet Switches
4. Unmanaged Ethernet Switches
5. Managed PoE Ethernet Switches
6. Unmanaged PoE Ethernet Switches
7. Converters - Westermo
  - a. Serial Converters/Repeaters
  - b. Current Loop Converters
  - c. Ethernet Media Converters
  - d. Protocol Converters
8. Modems – Westermo Swedish Product
  - a. Fibre Optic Modems
  - b. Leased Line Modems
  - c. Short Haul Modems
  - d. Multidrop Modems
9. Accessories – Westermo Swedish Product
  - a. Optical Transceivers
  - b. Power Supplies/Adapters
  - c. Backup Device
  - d. Cables and Antenna

## Products: Field Instrumentations

### Process Instruments

1. Pressure, Temperature, Level & Flow measuring instruments  
(Gauge + Transmitter + Switch)
2. Automated Control valves (Needle, Ball, Butterfly, Globe), ON-OFF valve, Solenoid valve & electric actuators
3. Analytical Instruments- Liquid & Gas analyzers (pH, Conductivity, Turbidity, Chlorine etc)
5. Temperature Elements (RTDs, Thermocouple) with or without Thermowells – Flanged, Threaded, Weld type
6. Temperature Transmitters – Head Mounted, Field Mounted, Panel Mounted & Temperature Switches
7. Temperature Gauges (With/ Without capillary)
8. Ultrasonic Level Transmitters
9. Guided wave Radar Level Transmitters (Rigid/Flexible lead)
10. Open path Radar Level Transmitters
11. DPTs (With/without diaphragm seals and With/without Capillary)
12. Level gauges & Level Switches
13. Mass Flow Meter
14. Vortex Flow Meter
15. Ultrasonic Flow Meter
16. Electromagnetic Flow Meter
17. DPT with Primary flow elements

### Erection Hardware

1. Impulse pipe/tube, tube fittings, Matching Flange for process instruments
2. Manual valves (Needle, Ball, Butterfly, Globe)



## Instrumentation Offerings

### Process Instruments

1. Pressure, Temperature, Level & Flow measuring instruments (Gauge + Transmitter + Switch)
2. Pneumatic Control valves , ON-OFF valve, Solenoid valve & electric actuators
3. Analytical Instruments- Liquid & Gas analyzers (pH, Conductivity, Turbidity, Chlorine etc)



### Erection Hardware & Installation

1. Impulse pipe/tube, tube fittings, Matching Flange for process instruments
2. All type of Tray, Junction Box & instrumentation cables etc.
3. Panels for electrical and instrumentation



### Test & Measuring Instruments

1. Pressure, Temperature test instruments & test bench
2. mV, mA, V, A, frequency etc. Electronics & electrical test instruments.
3. HART Communicators
4. Vibration Sensor 4-20mA + Loop Power indicator Masibus.
5. Panel instruments – Signal Isolator, Multiplier , Indicators



## Products: IT

1. Offline & Line Interactive UPS 600VA to 3KVA
2. Online UPS 1KVA to 800KVA
3. Inverter 600VA to 10KVA
4. SMF Battery (Quanta) Amara Raja Grp
5. Servo Control Voltage Stabilizer (Oil cooled / Air Cooled)
6. Active Harmonics Filter
7. Static Transfer Switch
8. Isolation Transformer
9. Aruba Switches
10. Battery Charger



### Services Offered for UPS

11. Comprehensive Annual Maintenance Contract (Emerson, APC, DB, ABB, Hitachi Hi-rail,) 1KVA to 800KVA