Smart Shopfloor Data Collection System

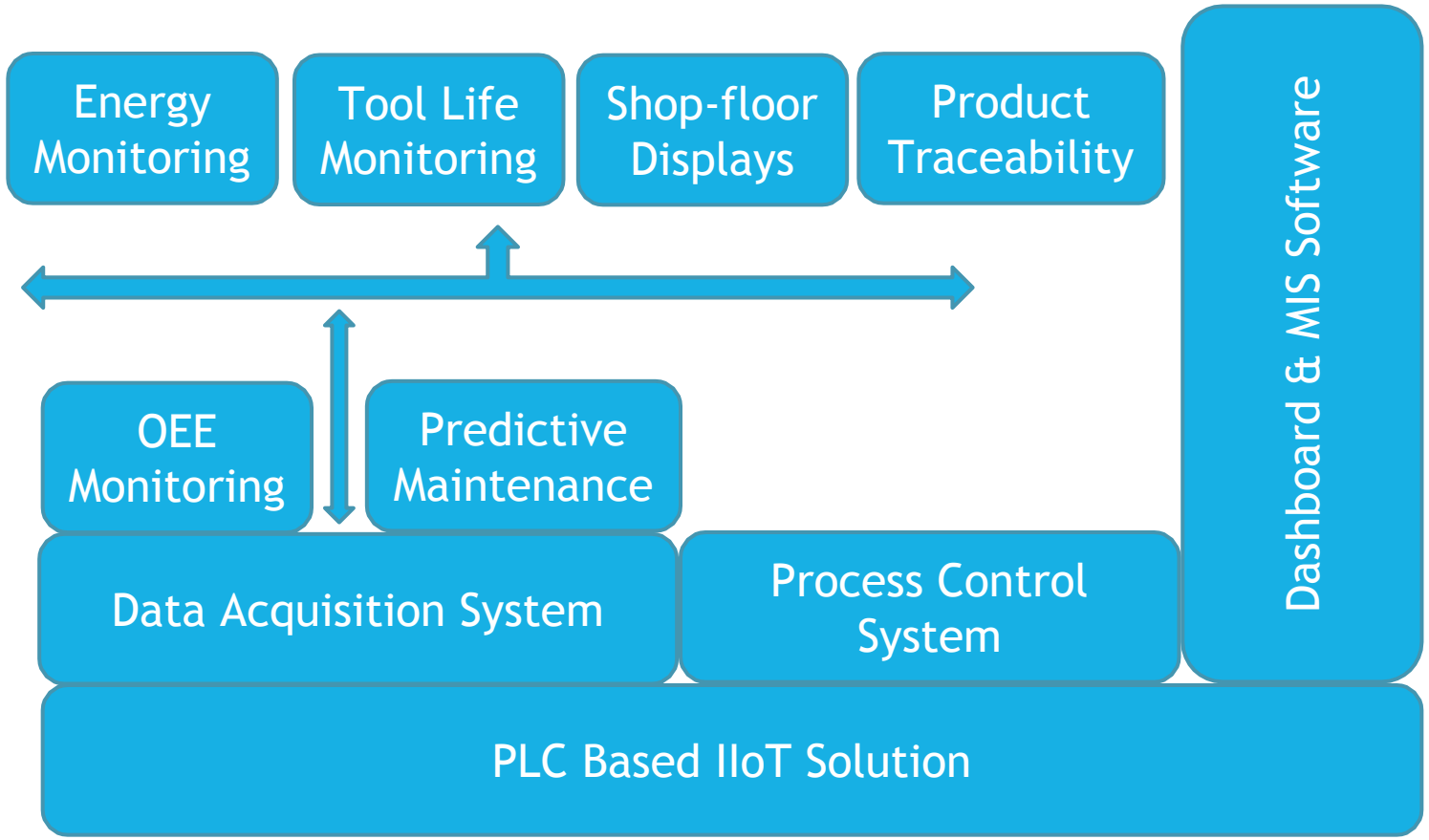
A True IIoT Plateform with collaboration of IT and OT Experts

By Softgear Systems and Partners

Industrial Internet of Things

- IIoT = Internet of Things
- Technologies and concepts keeps evolving
- Organizations keep looking for opportunities for improving process efficiencies and effectiveness (TPM, Lean, Kaizen etc)
- IIoT solution helps in reducing data hangover, People can focus on Data Analysis instead of Data creation
- Minimum error in Data
- IIoT helps to look at Process and Data in a Integrated way
- Improved Visibility and build responsive culture on floor

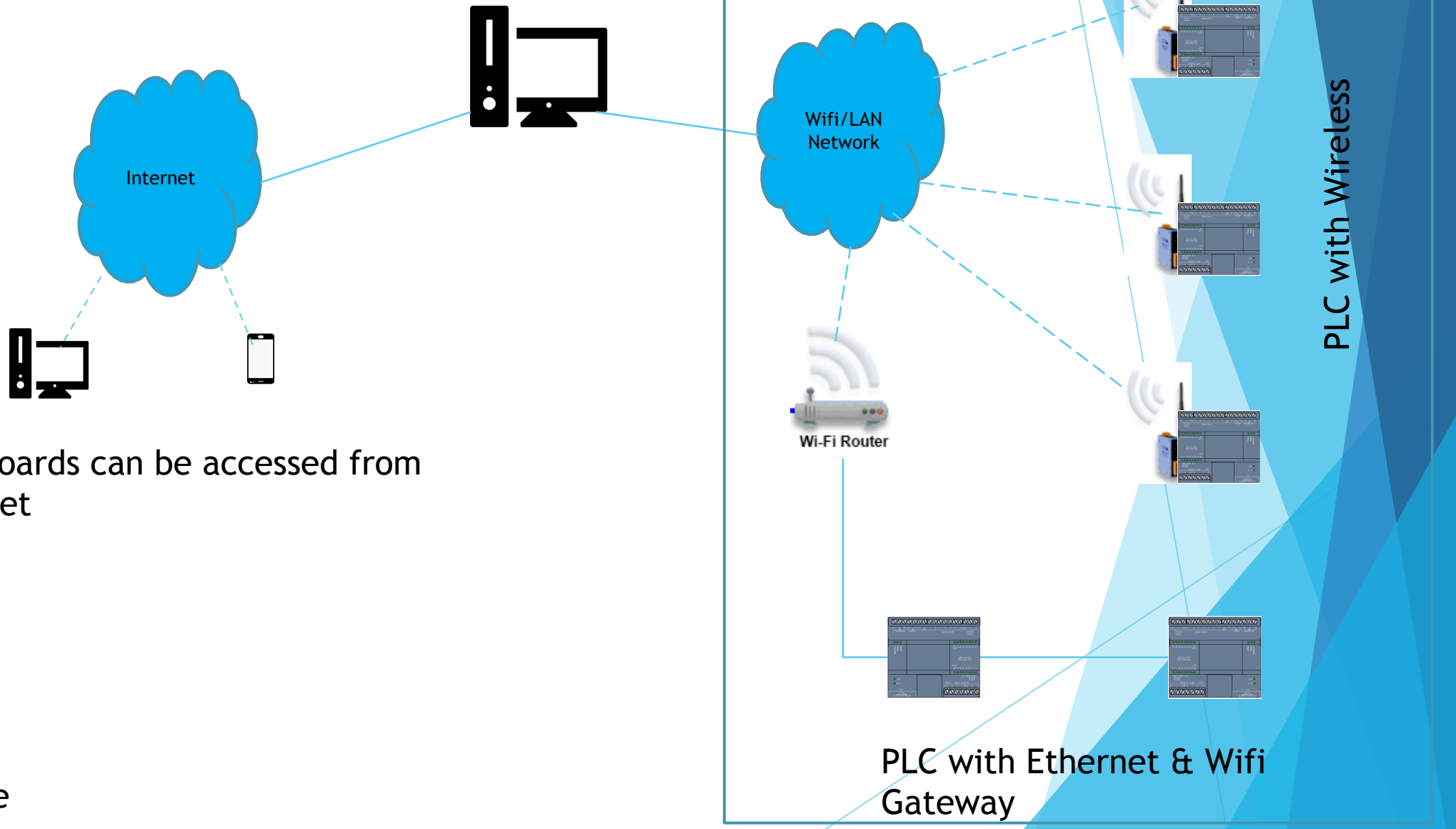
IIOT Landscape



Solution – OEE Monitoring

- OEE – Overall Equipment Effectiveness
- Created by collaborating with experts from IT and OT fields
- Helps in Near realtime OEE Monitoring from anywhere
- Most of the shopfloor Machines (Old and New) can be interfaced using PLC gateway
- Helps in Shopfloor Monitoring using %OEE, Machine status, Plan vs Actual Production Dashboards
- Important step towards Industry 4.0
- Supports PC and Mobile Interface
- Integration with ERP possible
- Wifi Integration Possible
- Inbuilt Data Security

Solution Architecture



Dashboards can be accessed from Internet

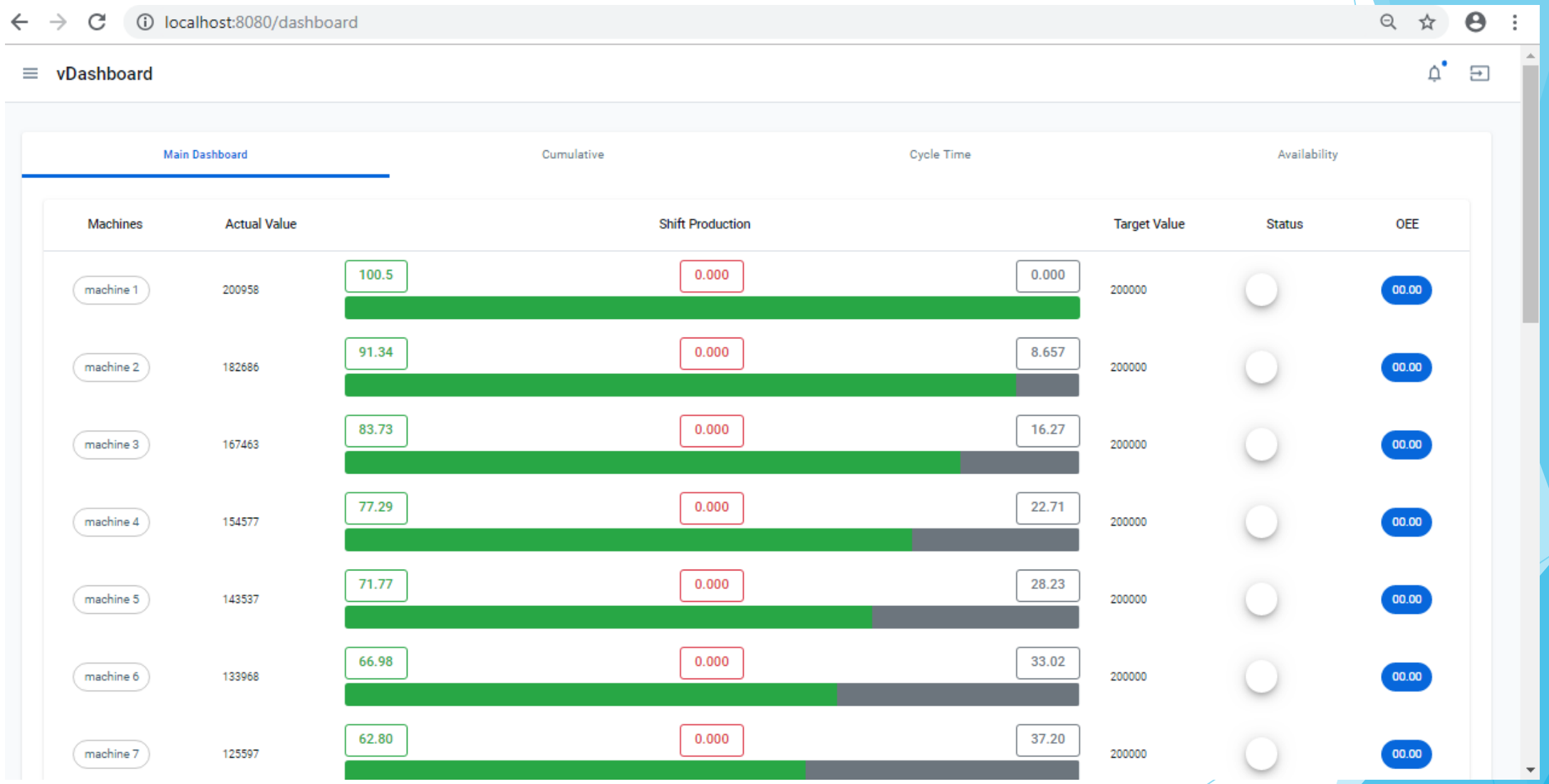
Ethernet Cable

Wifi Connection

Benefits of IIoT

- Improved Shopfloor visibility can bring overall OEE improvement by approx. 10%-15%
- Lot many organization specific improved can be seen:
  - Reduction in WIP
  - Better Planning and Scheduling
  - Improved Working Capital
  - Better Response to Customer Queries
  - Better Tracebility
  - Better Job Costing visibility
  - Reduction in Direct and In-direct expenses
  - And Many More depending on How organization wants to make use of collected Data ?

Dashboard Screens



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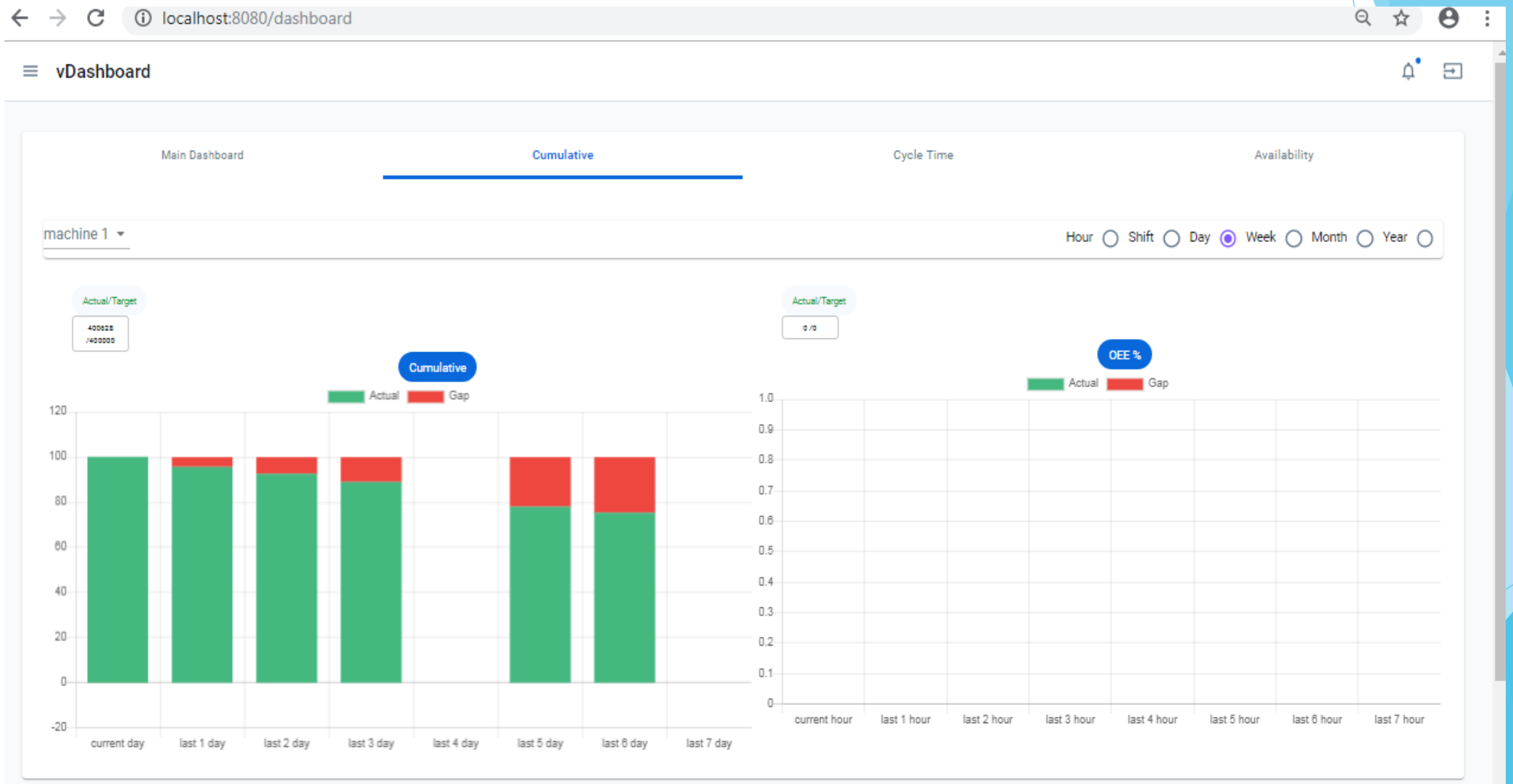

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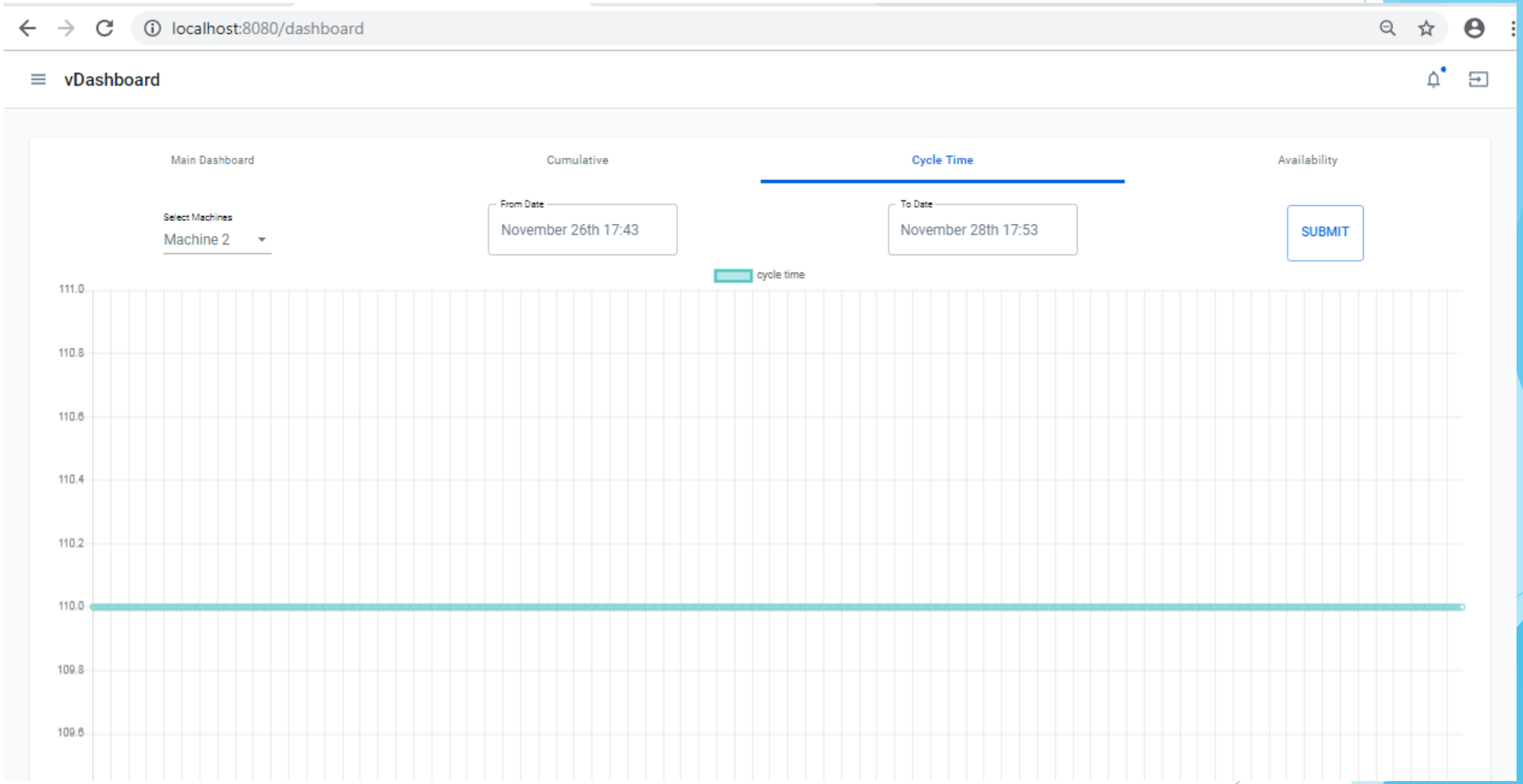

Extended Solution

- Solution can be customised for following requirements as well
  - Utility Monitoring
  - Shop Floor Dashboard
  - Critical Process Parameter Monitoring
  - Machine Health Monitoring for OEM’s
  - Integration with Building Management solution
  - Online Reporting and Alerts (SMS/Email)

About Softgear Systems

- More than 10 Yrs of Industry Experience
- Integrated Solution Provider for Shopfloor Automation (Siemens and Mitsubishi)
- Expert on Die-casting Machines
- Specialist in Machine Reconditioning
- Customer Reference
  - SIGMA
  - Endurance
  - Whirlpool
  - Honda
  - Minda Industries
  - Foundation Brake

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