

# DIGITAL UTILITIES

PLATFORM AS A SERVICE

Optimise Asset Performance, Save Energy & Water

USP

- Monitor Equipment Performance by its energy signature
- Plant Virtualisation & Continuous Optimisation by MBCx

Optimise  
Industrial &  
Building Utilities



Save Energy



Water



Asset

## What we do

Optimise Asset Performance,  
Save Energy & Water

## How we do

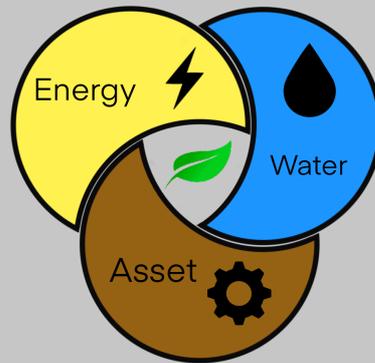
We Monitor and Optimise  
Rotating Equipment & Fluid Systems

### Sustainable Utilities Management

Scope

#### Utilities Management

- Chiller Plant
- Cooling Tower
- Pump Station



#### Resource Optimisation

- Energy Management
- Water Management
- Asset Management

#### Integrated Performance

Optimise their intertwined performance

The internal Utilities consumes significant energy in commercial buildings and industries. The dynamic nature of these rotating equipments and fluid systems makes them operate at a wide range of efficiencies. Performance of these systems depend on a number of interdependent functions. Significant cost reduction can be achieved by monitoring and optimising the performance of these utilities.

Datamatrix is a pioneer in Plant Virtualisation, with remote monitoring and optimisation of critical utilities. The technology simulates the operating parameters from the energy signature of the equipment using basic metering. This will drastically reduce the instrumentation cost for performance and condition monitoring. It will facilitate continuous optimisation of energy, water and asset performance.

#### Chiller Plant

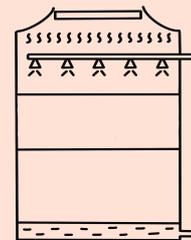
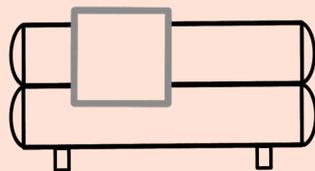
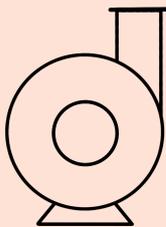


#### Pump station



# Innovations

Bring Complete Visibility on Performance  
Using Simple Instrumentation



## Virtual Pump Station

Pump Performance and Condition Monitoring using only an energy meter

Patent 236496

## Virtual Chiller Plant

Chiller Plant Virtualisation & Continuous Commissioning using only energy meters and temperature sensors

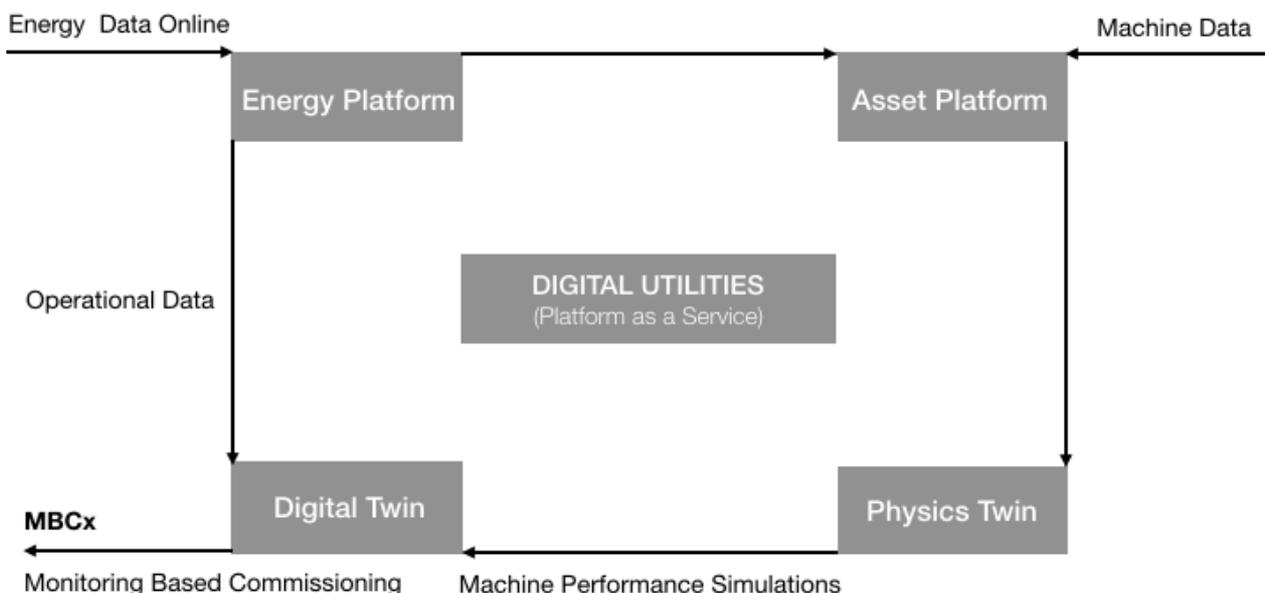
Patent pending

## Virtual Cooling Tower

Monitors Cooling Tower Performance, Fluid & Thermal Energy Flows using energy meters and temperature sensors

Patent 236496

## Integrated Performance Management of Utilities By Monitoring Based Commissioning (MBCx), the leading Best Practice



Utilities seldom operate at its best design efficiency, due to changing conditions.  
MBCx helps to operate them at optimum efficiency,  
**Saves 10-20% Energy & Asset Life.**

## Industries



Automobile



Food & Pharma



Water & Wastewater



Commercial Buildings

## Customers



Mercedes-Benz



## Awards

2015:  
Earth Care Award  
(National Award)

2016:  
Power of Ideas  
IIM-A

2019:  
Next Big Idea  
(India-Canada)

2023:  
Energy Transition  
(Infosys-Innovation)

You  
could have  
probably saved  
10% Energy  
Today!

## Services

### Digital Utilities (PaaS)

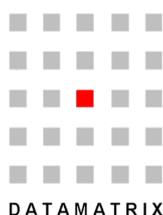
(Performance & Condition Monitoring of each equipment)

### Monitoring Based Commissioning (MBCx)

(Integrated Performance Management, by continuous Energy-Fluid-Asset Performance Optimisation)

### COMMITTED MEASURABLE & VERIFIABLE SAVING

(Pay as you Save, Platform as a Service)



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