Asset Management System for Water & Wastewater Facilities

March, 2019



Our Innovative SMART Technology



Asset Management System (Blitz GROW) for Water and Wastewater Facilities



Facility Ledger / Inventory

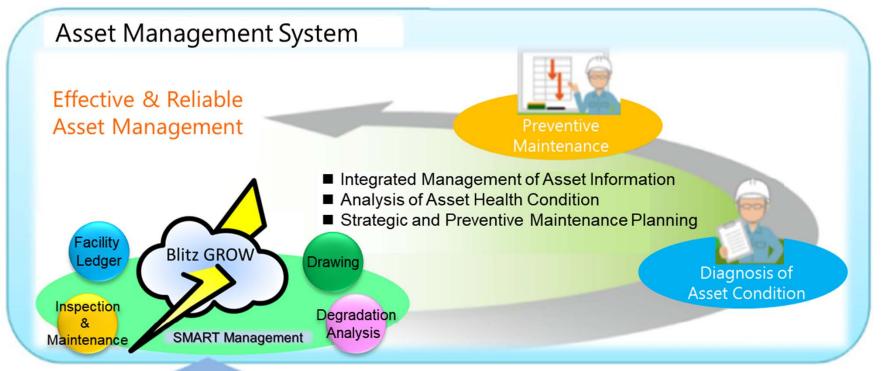
Inspection & Maintenance

Degradation Analysis & Renewal Plan

Drawing Storage

Outline of the Technology (Blitz GROW)





Inspection & Maintenance Results
Degradation Analysis

Outcome

- Save cost for renewal and rehabilitation
- Prevent sudden shutdown and malfunction
- Access facility database anytime, anywhere

Outline of the Technology (Blitz GROW)



Facility Ledger / Inventory

Ledger/inventory of facility and equipment can be easily checked and updated on Cloud System.

Inspection & Maintenance

➤ Daily and periodical inspection and maintenance can be scheduled and recorded on Cloud System.

Degradation Analysis & Renewal Plan

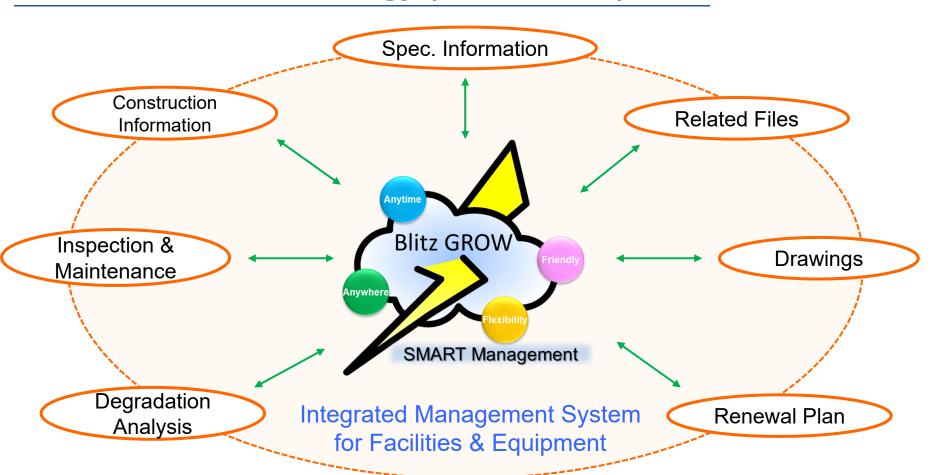
- > Degradation progress can be predicted according to soundness evaluation.
- > LCC(Life Cycle Cost) and various scenario on renewal can be evaluated.

Drawing Storage

Every drawings of facility and equipment can be stored and updated associating with their ledger/inventory.

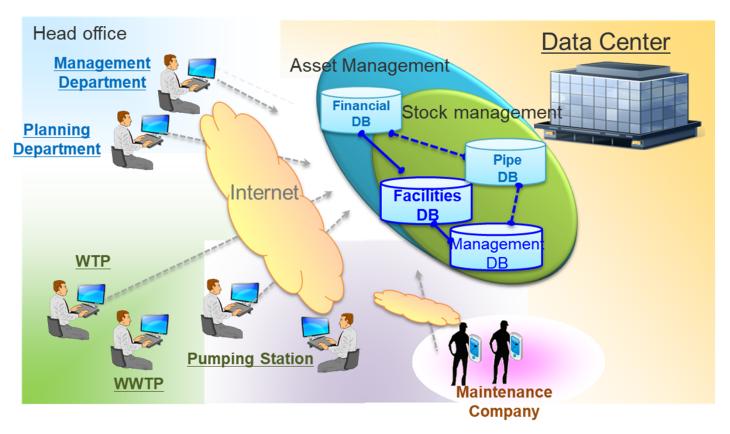
Outline of the Technology (Blitz GROW)





Cloud Server System

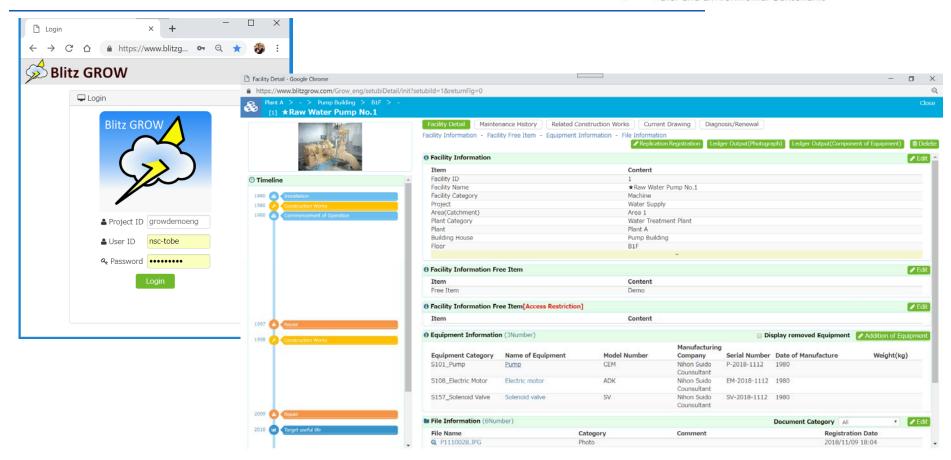




Anytime, Anywhere Available on Cloud Server

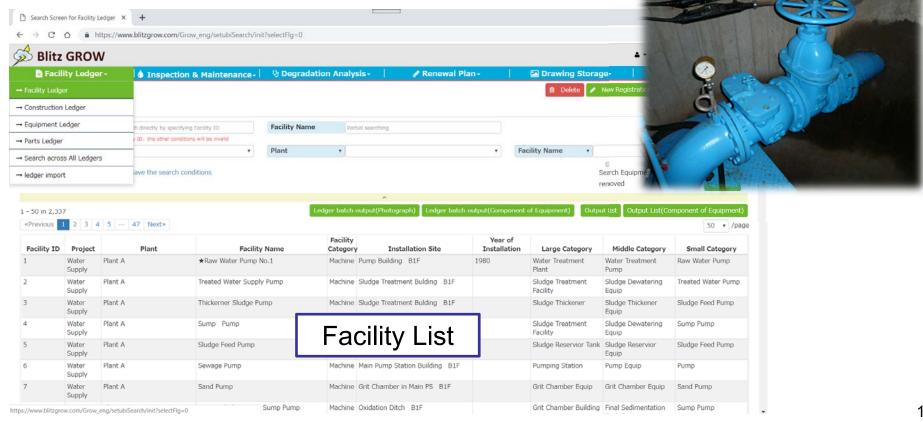
Introduction of Service Menu



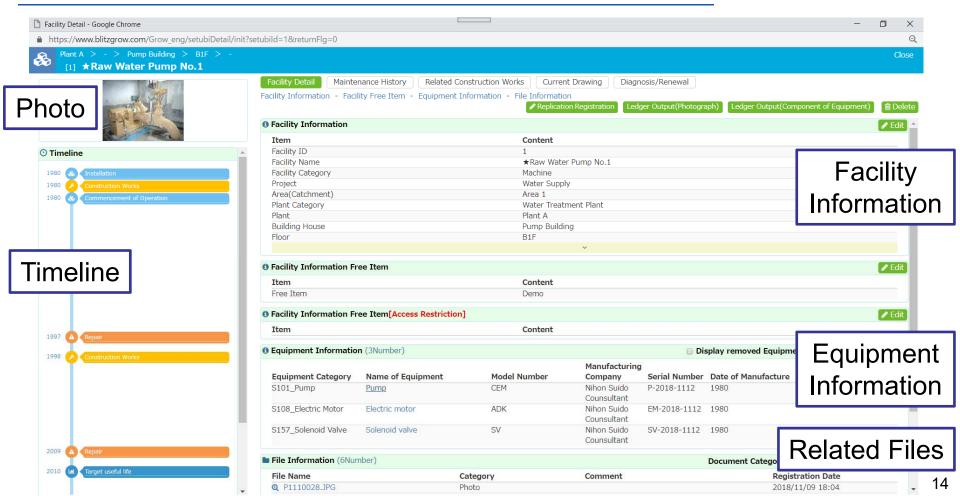


Service Menu 1: Facility Ledger / Inventory

Every ledger/inventory of facility, equipment and parts are integrated in Blitz GROW.

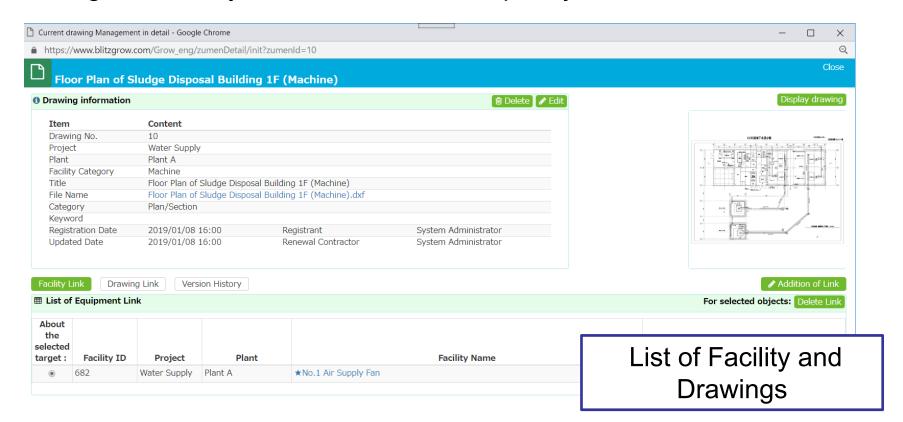


Service Menu 1: Facility Ledger / Inventory

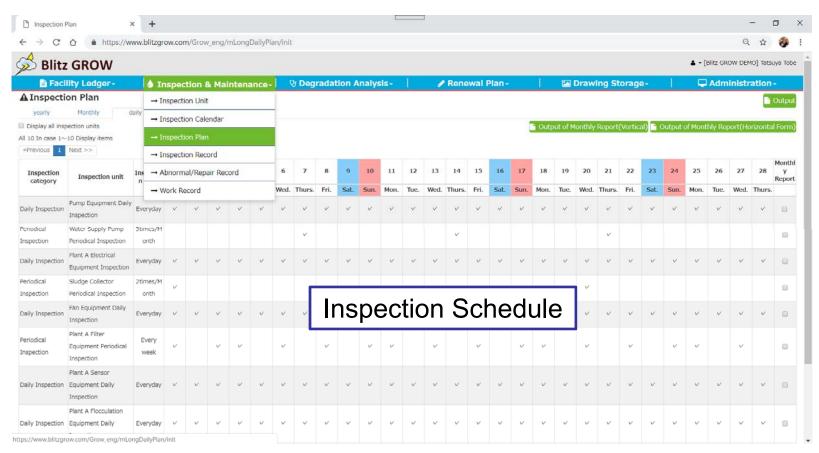


Service Menu 2: Drawing Storage

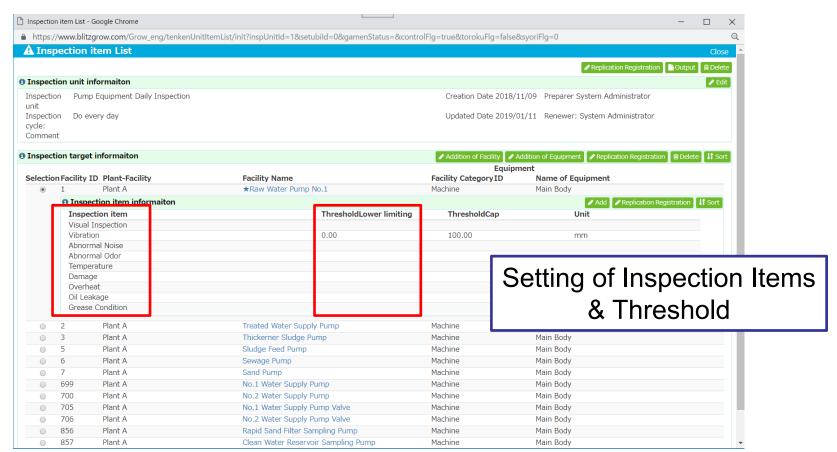
Every drawings of facility and equipment are associated with their ledger/inventory and can be checked quickly.



Daily and periodical inspection can be scheduled for every facilities.



Daily and periodical inspection items can be set for every facilities.



Inspection results can be recorded by tablet/mobile and linked on Blitz

GROW.



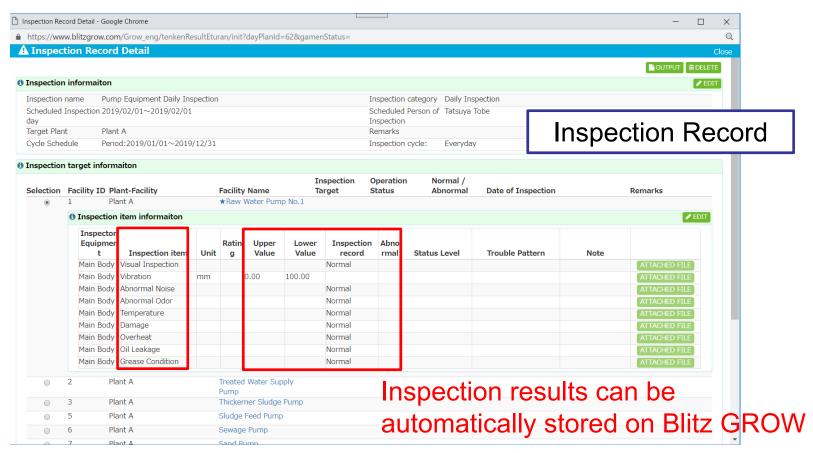
Inspection at site



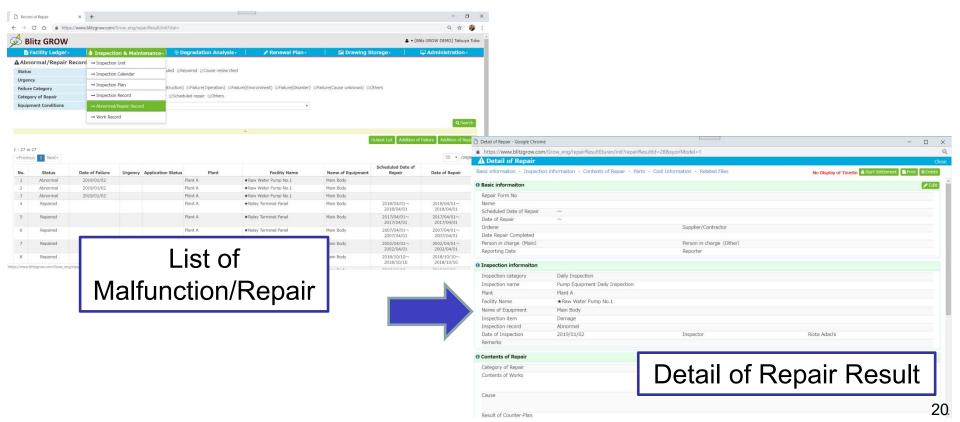




Inspection results can be linked on Blitz GROW.

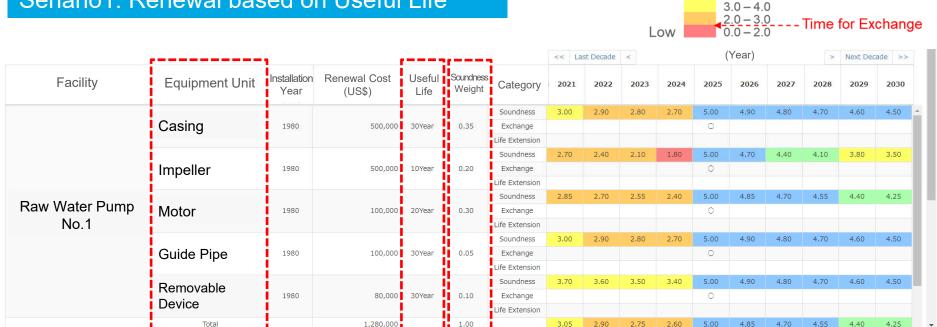


> Every malfunction and repair for the facility and equipment can be accumulated on Blitz GROW.



➤ The degradation progress and LCC (Life Cycle Cost) can be compared based on various scenario on life extension and renewal.

Senario1: Renewal based on Useful Life



Composing Equipment in Raw Water Pump No.1

Useful Soundness Life Weight

Prediction of Degradation (Soundness),

Soundness

4.5 - 5.0 4.0 - 4.5

High

Senario2: Life Extension

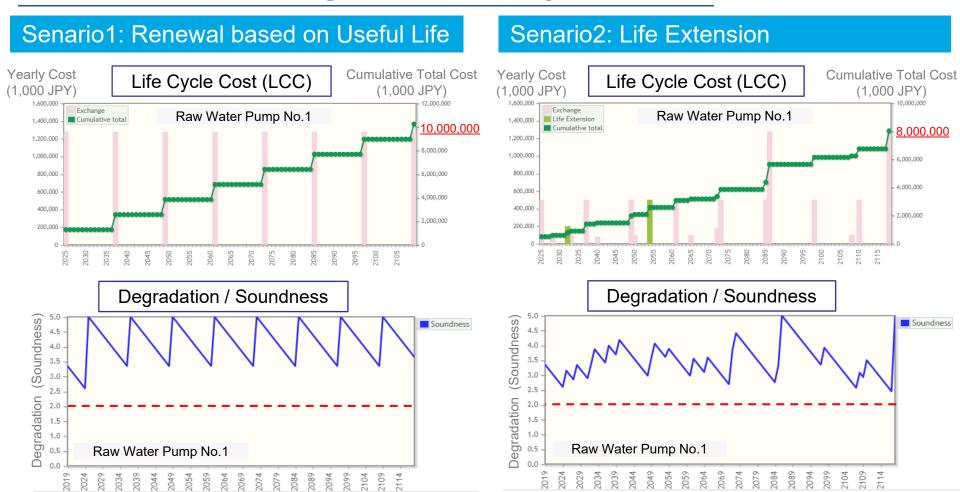




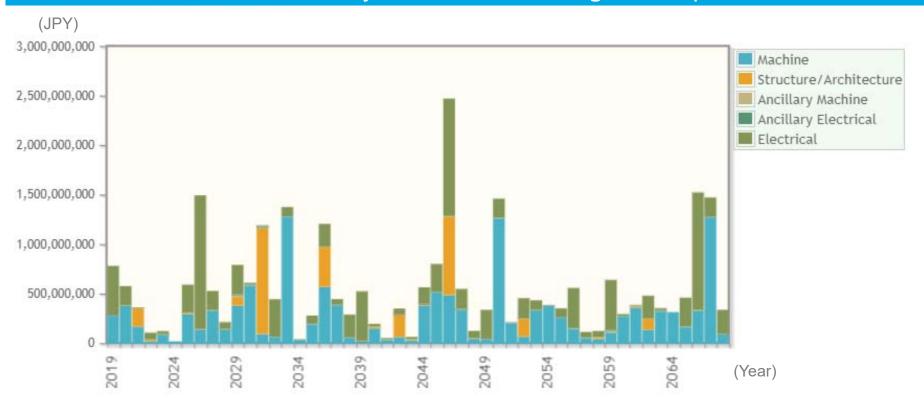
Composing Equipment in Raw Water Pump No.1

Useful Soundness Life Weight

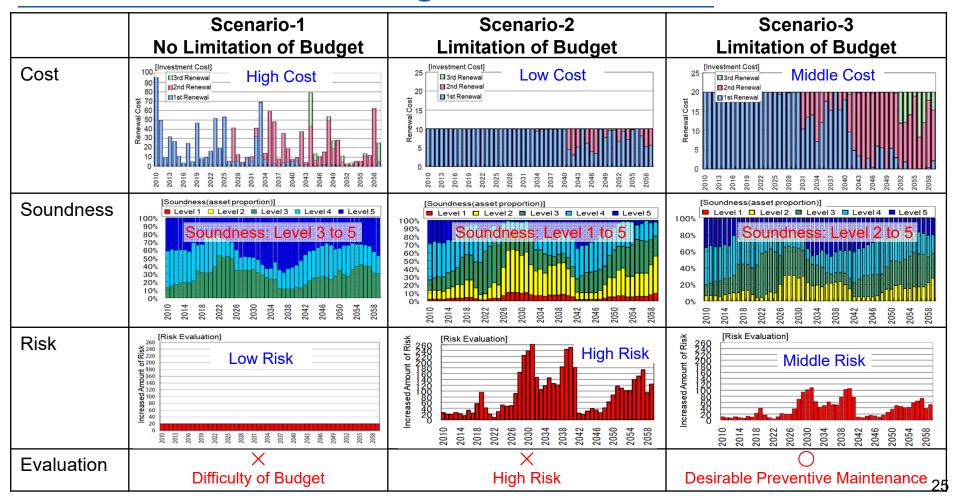
Prediction of Degradation (Soundness)



Overall Renewal Cost for Every Facilities according to Adopted Scenario



Evaluation of Asset Management Scenario



Outcome through the Technology



- Every information related to water and wastewater facilities is integrated into user-friendly Blitz GROW.
- Daily and periodical inspection and maintenance can be scheduled and recorded on Blitz GROW.
- Users can estimate degradation trend and Life Cycle Cost for every facilities based on various scenario of life extension and renewal.



Preventive Maintenance Approach

- Save cost for renewal and rehabilitation
- Prevent sudden shutdown and malfunction





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