T-iDigital Field / Tunnel
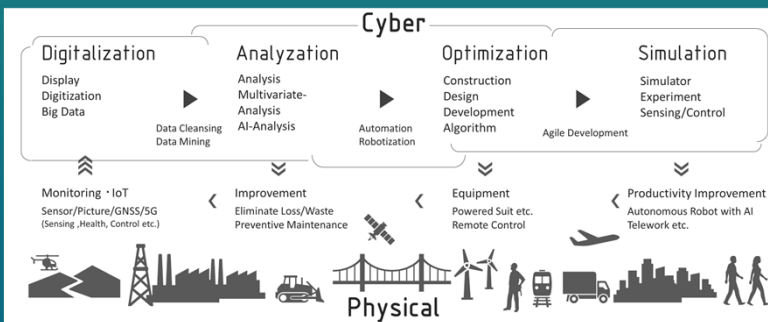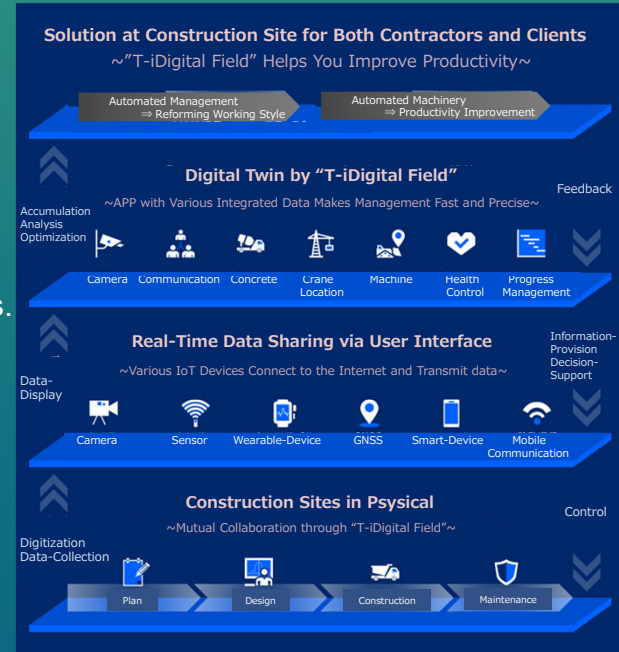
TAISEI CORPORATION
For a Lively World

Benefits

◆ T-iDigital Field is developed as a platform to accumulate, analyze, and link a variety of information about workers, stuff, and issues scattering everywhere at construction sites. It is now routinely implemented and customized not only at tunneling sites, but also in many construction projects.

◆ T-iDigital Field collects data on "workers", "stuff" and "issues", showcases them on the cloud, and realizes the concept of a Cyber Physical System (CPS) shown below. The "stuff" here describes the environment and behavior of heavy equipment, machinery, and structures. Whereas the "issues" represent safety, quality, and process-related information. With this state-of-the-art technology, you can predict and solve problems that happen at any site, enhancing productivity by reducing mistakes and downtimes.
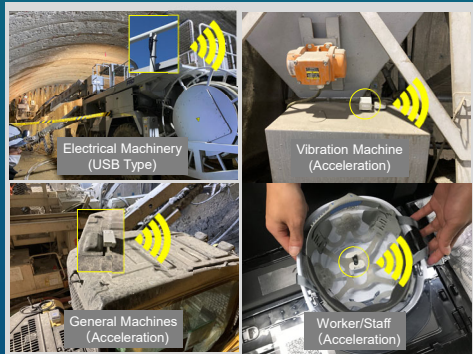

Concept of Cyber Physical System (CPS)

Cyber Physical System with T-iDigital Field

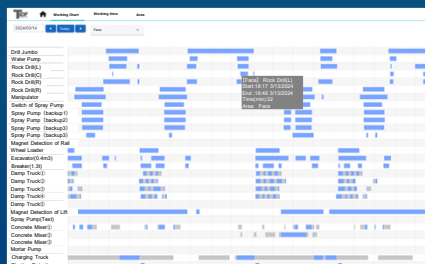## System configuration

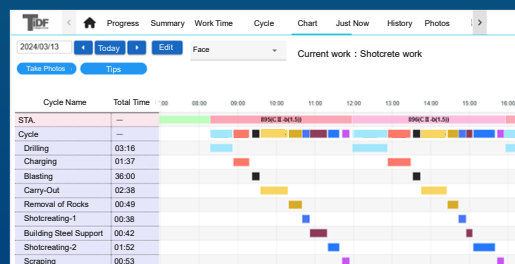Transmitter : Beacon (USB / Acceleration)

Receiver: Gateway

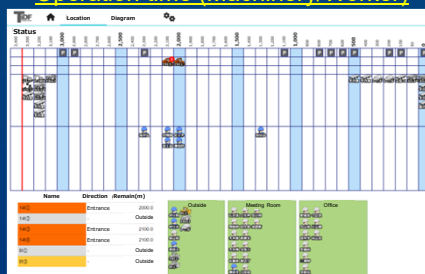Application for construction management

Application

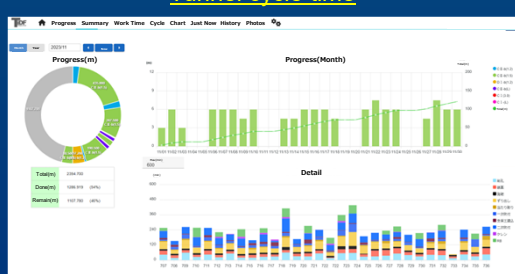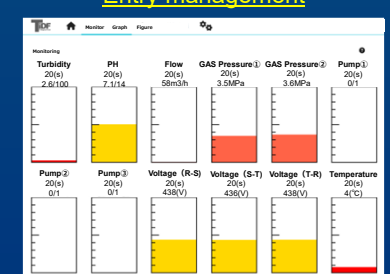Operation time (Machinery/Worker)

Tunnel cycle time

Entry management

Location（Machinery/Worker)

Progress

Monitoring of turbid water treatment