D L S

Digitalized Logging System (E-Logbook)

PTTEP

….A part of PTTEP digital transformation project …

Objectives

BEFORE

AFTER
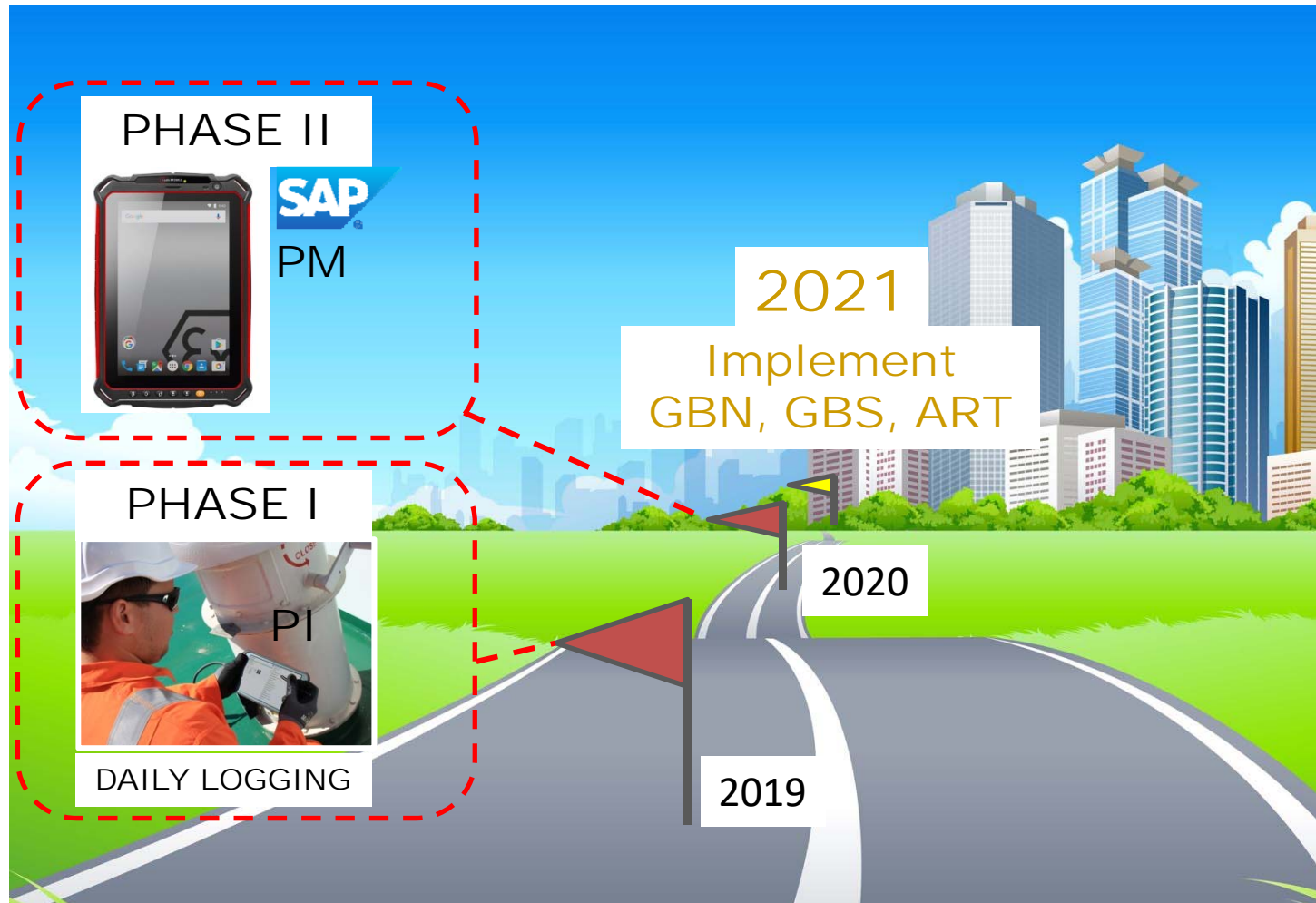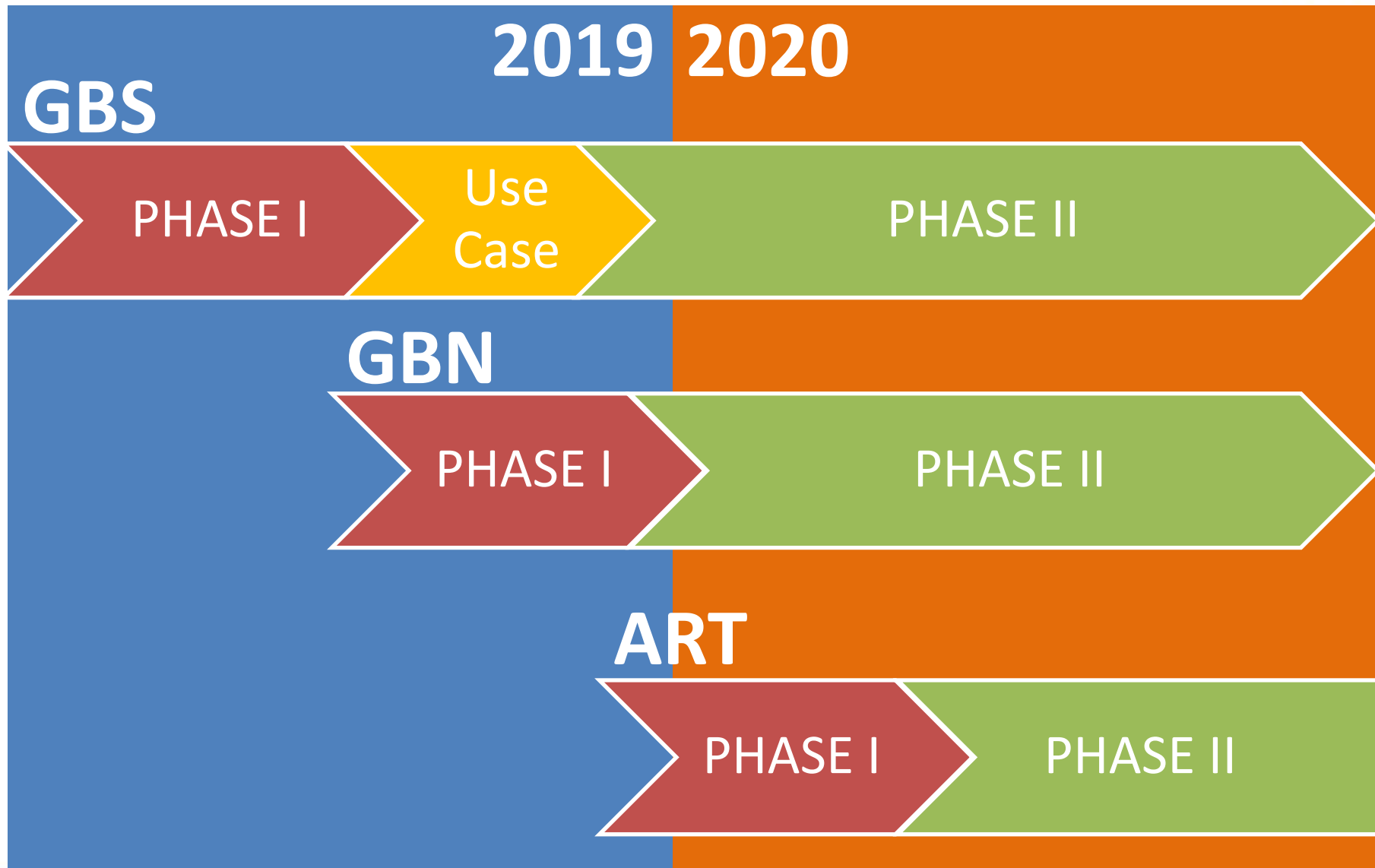
Benefits :-

- Save tariffs and improve work efficiency
- Support field troubleshooting and reduce downtime
- Digitalize all data for data analytic and reduce unplanned shutdown
- Unlock other potential USE CASE such as e-SOC, e-HRC, Smart Logistic, etc.
- Employee engagement

Road Map

PHASE II

SAP
PM

PHASE I

PI

DAILY LOGGING

2021
Implement
GBN, GBS, ART

2020

2019

Project Phases

PHASE I
DAILY LOGGING

Scope of Work :-

- Prove of Concept (POC) for Daily Logging Application and Ex Tablet/ Smartphone
- Workshop with Users
- Explore USE CASE with Users (Production & Maintenance as pilot)
- Provide hardware and software
- Enhanced software to meet defined USE CASE and to obtain expected benefits
- User Acceptance Test (UAT)
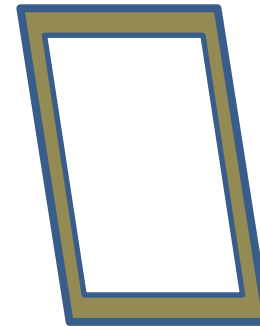- Field deployment (Training)

Use Case : QR Code to support maintenance
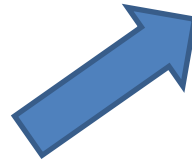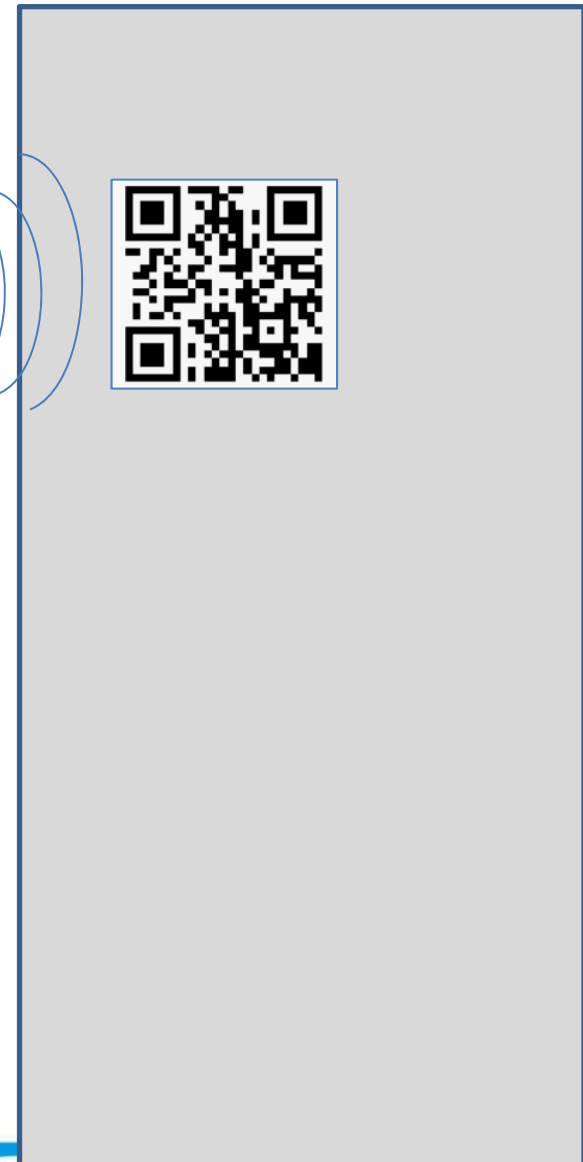
Turbo Machinery Packages

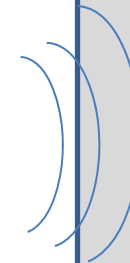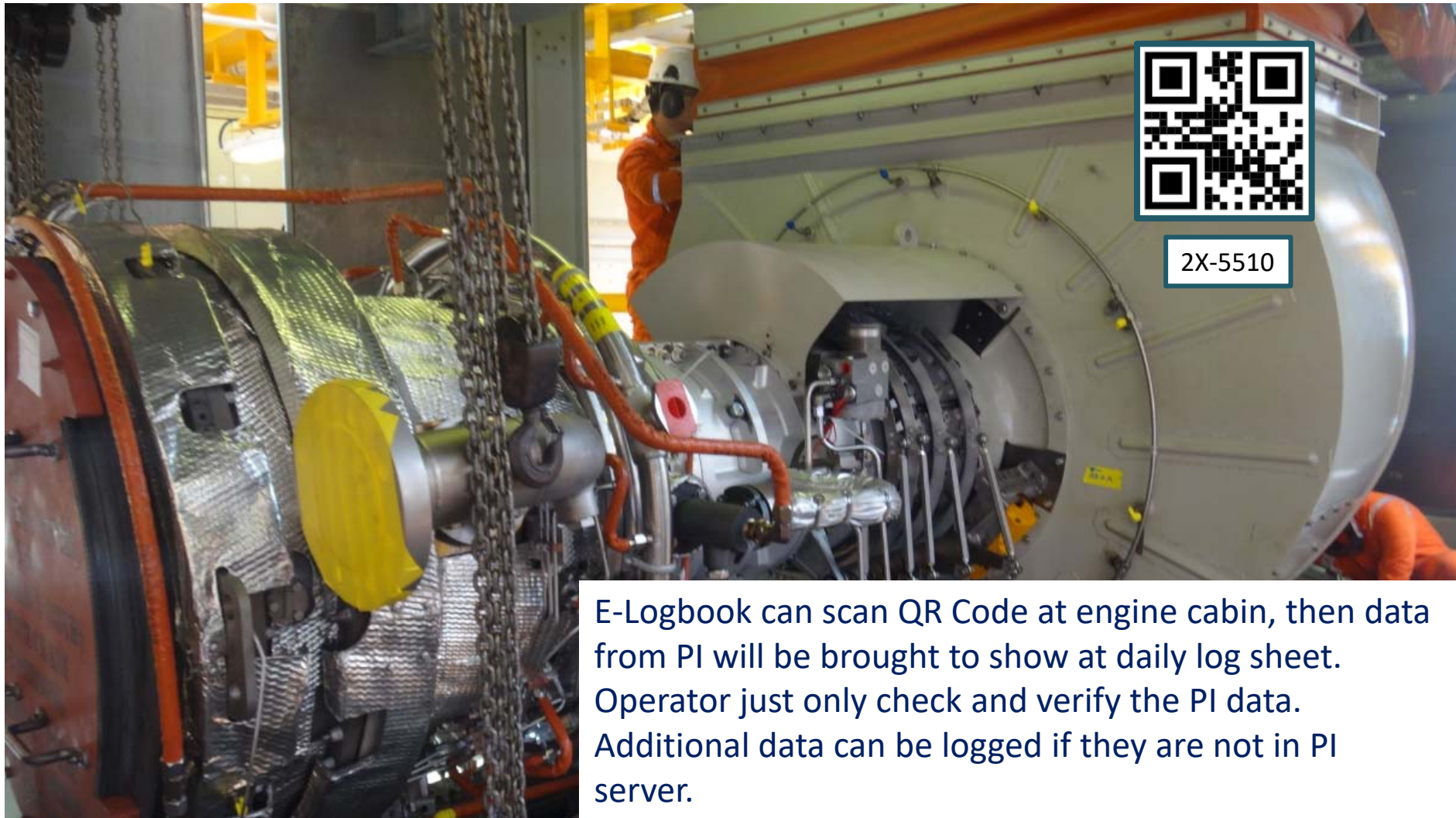**Data**

PI Data

E-Logbook

Instrument Reading Verification
Abnormally warning
Work Notification

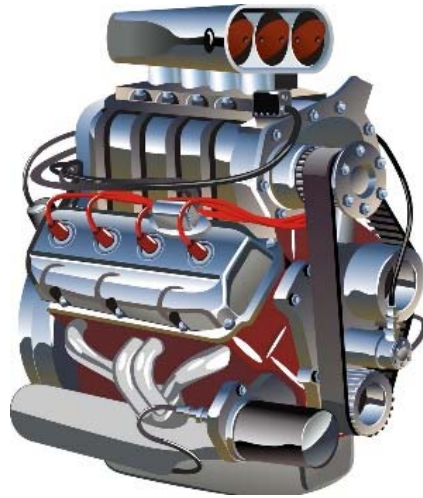# Use Case : QR Code to support maintenance

2X-5510

E-Logbook can scan QR Code at engine cabin, then data from PI will be brought to show at daily log sheet. Operator just only check and verify the PI data. Additional data can be logged if they are not in PI server.

Benefits : Saving MH and Create Value to Digitalized Data

Save 80%

Save 20%

Turbine Tech. Record Data

Mech. Supv. Verify Daily Data
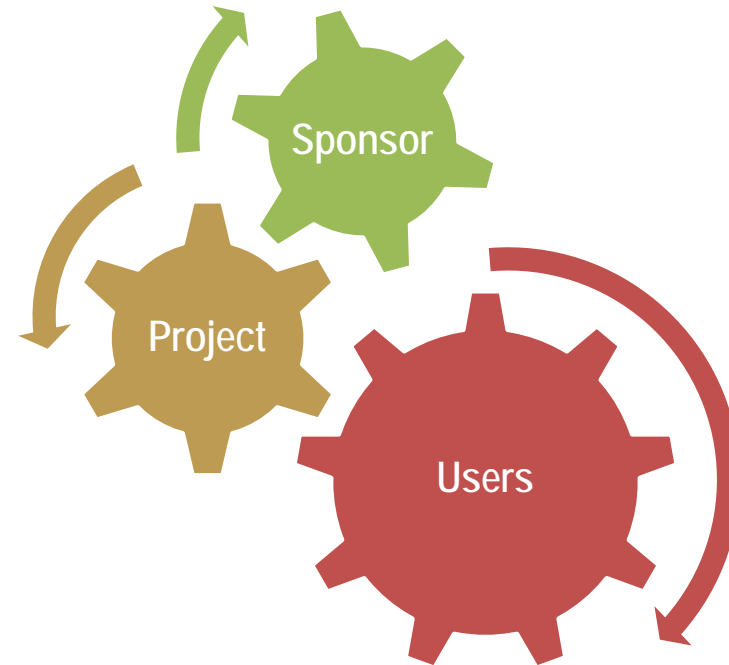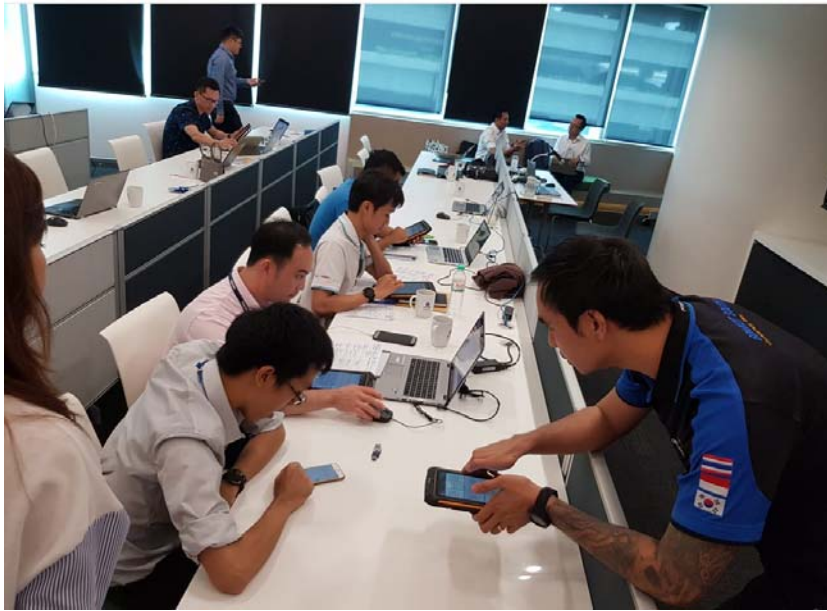
Save 90%

CMM key-in Data to Excel

CMMS generate Monthly Report

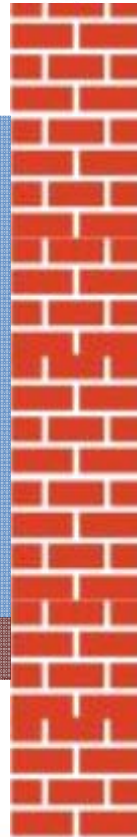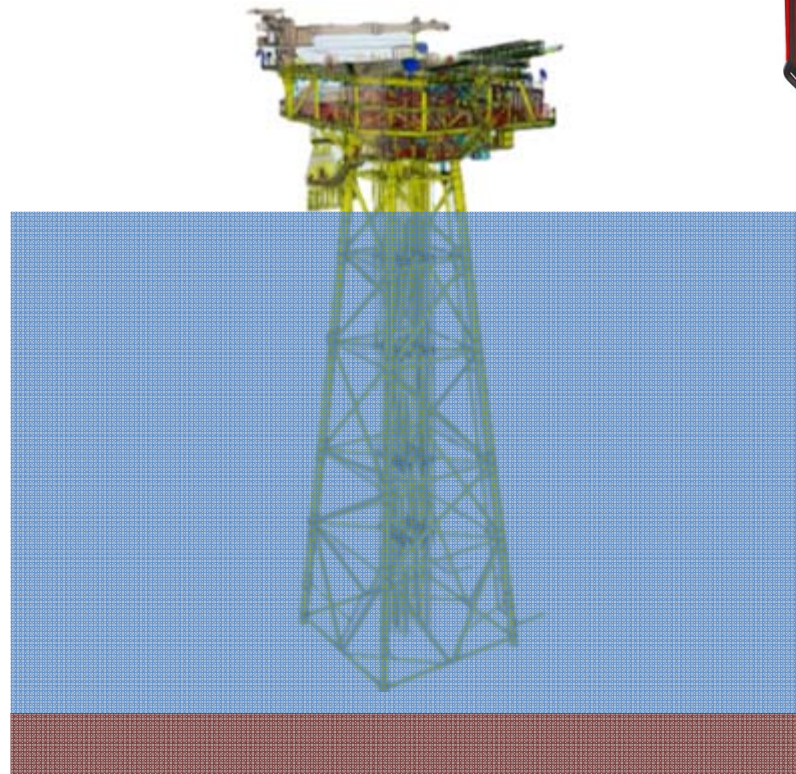Maint. Supt. Verify and Publish Report

User Acceptance Test and Training (May 2019)

Enabler to <u>Future</u> USE CASES

USE CASES

DAILY
LOGGING/
REPORT

PI
DATA

SAP PM

EXMS

ECM

CMMS

e-HRC

e-SOC

AR

SKF

Bluetooth
Field Testers

Teleconf

Q & A

Passion to Explore for a Sustainable Future