



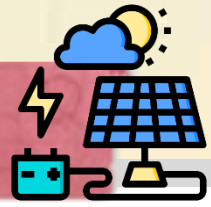
Improving Efficiency of Enterprise Resource Planning System for TSUS Energy Storage Co., Ltd.

Supapit Chantawat

Wapee Manopiniwes D.Eng.

Industrial Engineering Department, Faculty of Engineering, Chiang Mai University

INTRODUCTION



TSUS Energy Storage CO., Ltd(TES) engages in energy engineering business. TES has team of experienced engineers in design, production, installation, consultation, research and development. However, the company business processes are inefficient and slow. The company spends too much time searching for information, keeping track of, as well as storing data in many places. The improvement of Enterprise Resource Planning (ERP) system is needed.



OBJECTIVES

- To improve the Enterprise Resource Planning system of TSUS Energy Storage Co., Ltd.

METHODS

1 STUDY THE EXISTING OPERATIONS

The researcher inquired about the existing business operations of TES. There are four main business operations focused in this study as follows.

- Purchase : 10 steps
- Inventory Receipt : 6 steps
- Sales : 13 steps
- Inventory Delivery : 6 steps



2 ANALYZE AND SOLVE PROBLEMS OF EXISTING OPERATIONS

PROBLEMS

Excessive operating procedures
Redundant work
Too much operating time

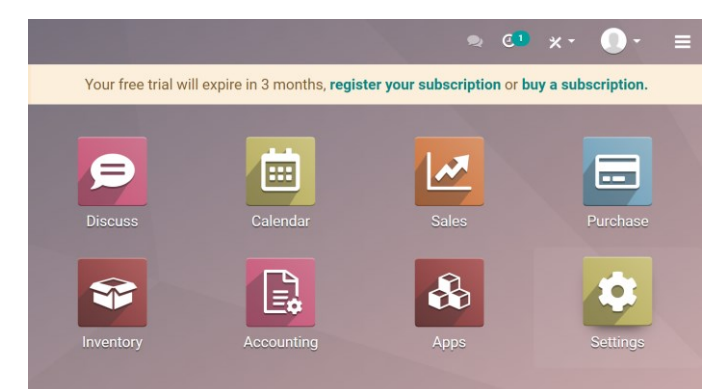
SOLVING

The idea of ECRS (theory) with S: Simplify is implemented by using cloud-based solutions called Odoo.



4 SYSTEM DESIGN AND DEVELOPMENT

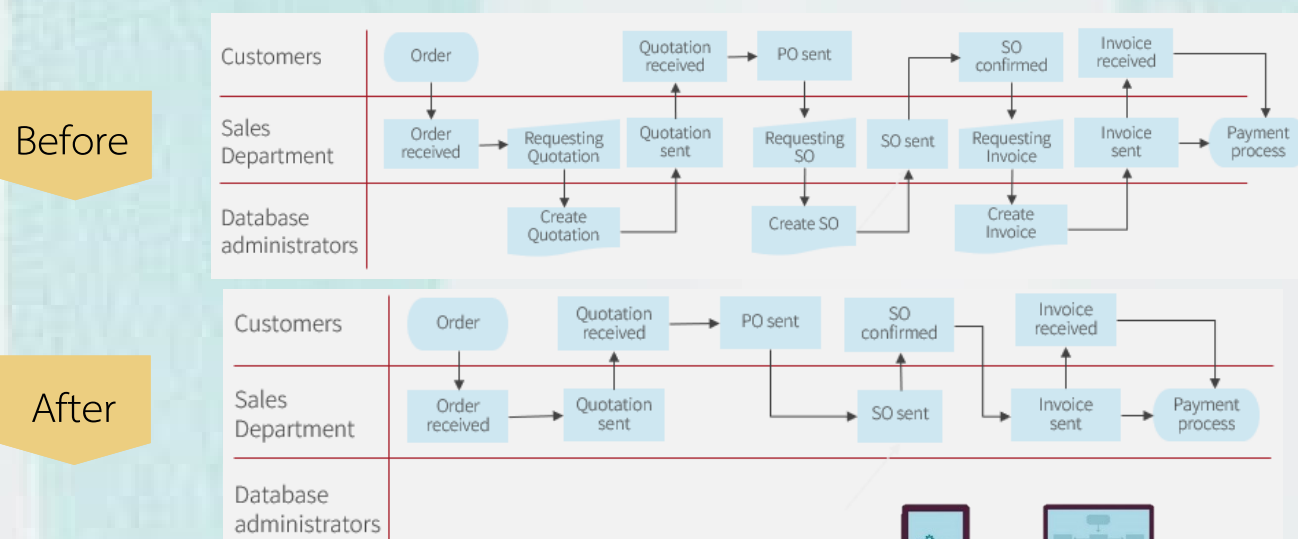
Module usage settings



- Creating a list of vendors and customers
- Creating a list of products
- Designing the document forms

3 PROPOSE NEW BUSINESS OPERATIONS BY ODOO

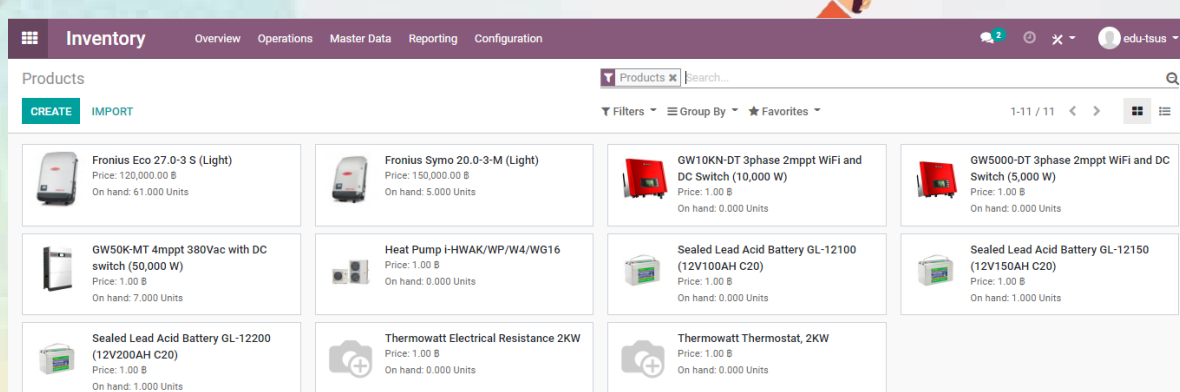
Example of Sales Operation



Before

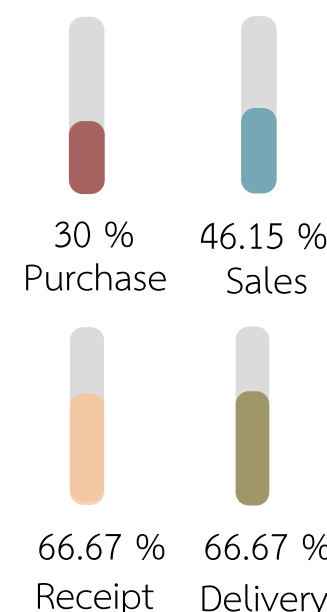
After

5 TESTING AND RECTIFICATION



6 SUMMARIZE RESULTS

Enterprise Resource Planning system is applied to the company that will help plan and manage the organization's resources for maximum efficiency.



PROCESS	Before Improvements	After Improvements
Purchase	10 steps	7 steps
Sales	13 steps	7 steps
Inventory Receipt	6 steps	2 steps
Inventory Delivery	6 steps	2 steps