

WORK ORDER IMPROVEMENT PROCESS

Introduction

This project aims to investigate and analyze the Work Order Process and come up with process improvements. The Work Order Planning process is the process whereby Schlumberger plans its manufacturing schedule.

Objectives

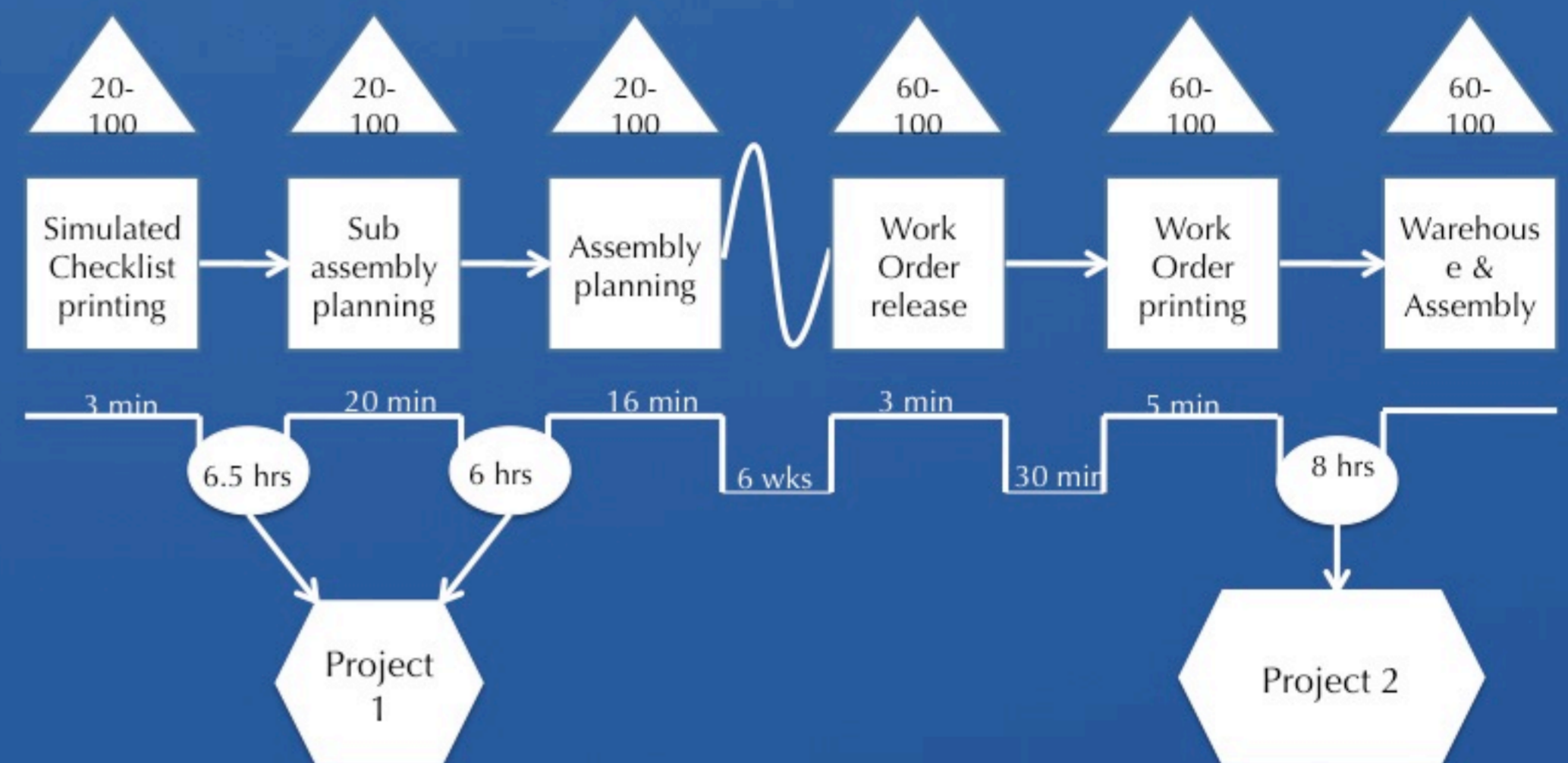
1. Process mapping of the current Planning Process via tools such as Flowcharts, Value Streams Maps and Simulation modeling
2. Process Improvement implementations based on the system analysis

Business Challenges

Make the Process more lean	• Reduce system Wastage
Improve Customer Service	• Increase operational efficiency
Make the process more environmentally friendly	• Save paper

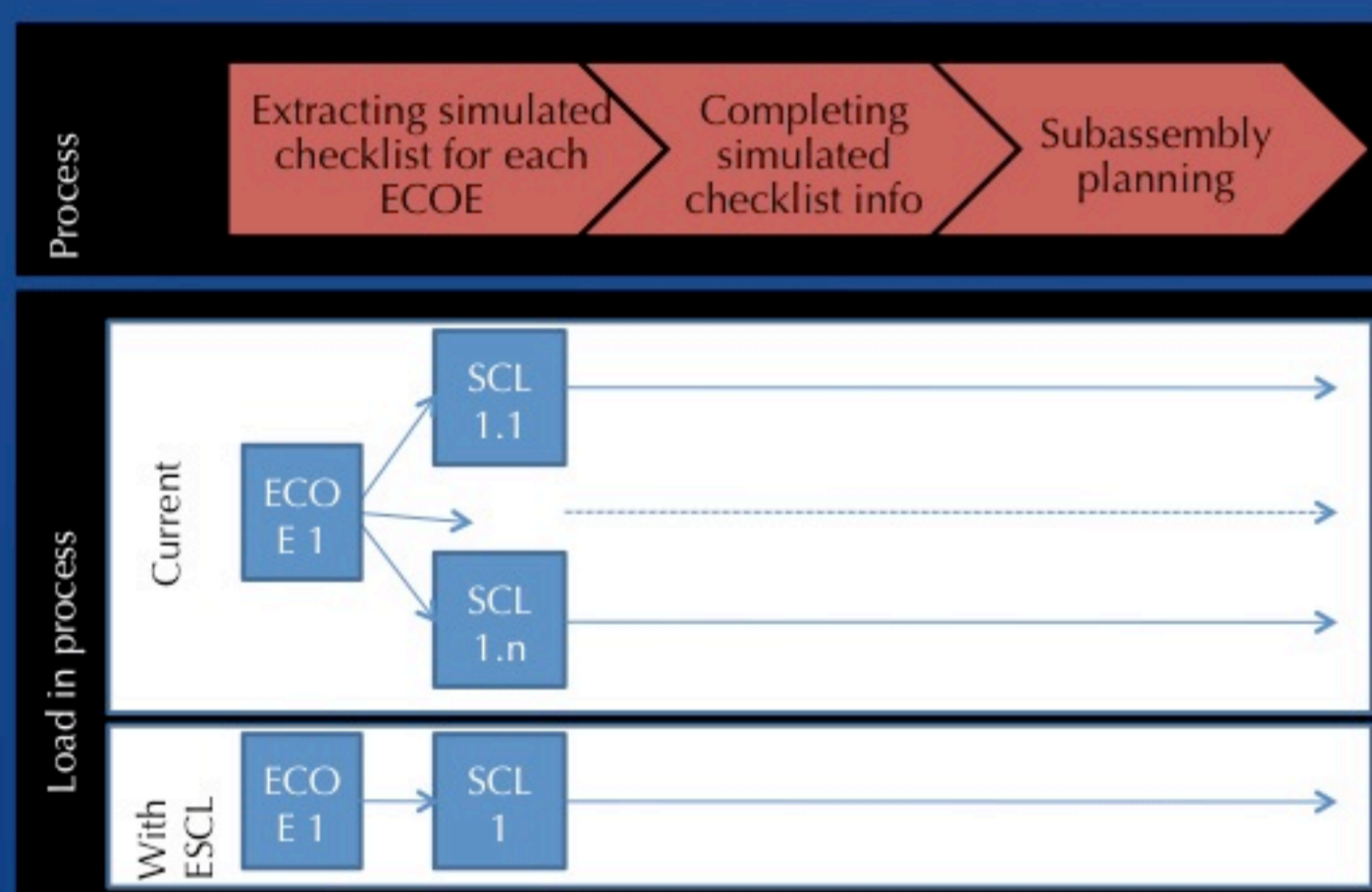
Operational Issues

Value Stream Map



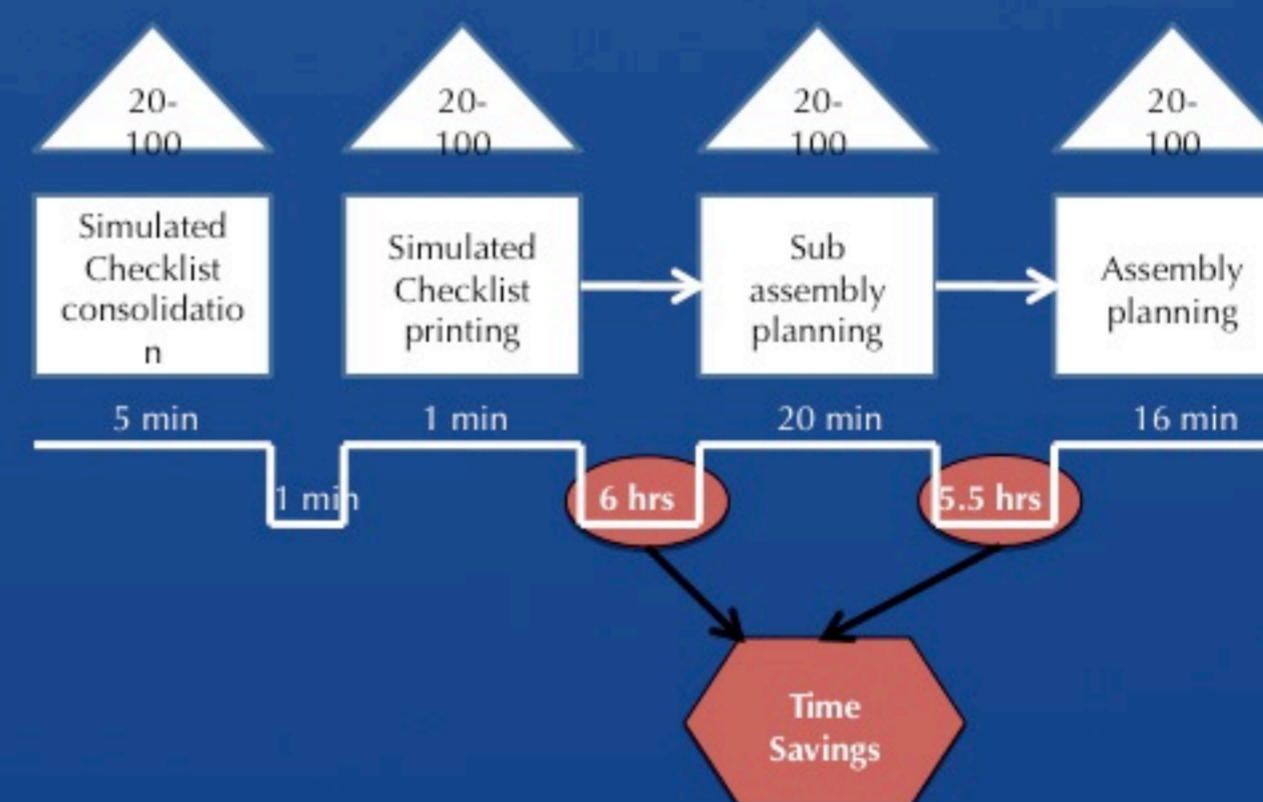
Business Challenges	Issues Identified
Lean Process	15 minutes per day per planner spent on sorting through the Simulated checklists.
Environmentally Friendly	80,000 pages (Work Order Package) and 32,000 pages (Simulated checklists) printed per month
Increase Process Efficiency	8 hours a day wasted between Work Order release and start of the picking at warehouse.

Project 1: Electronic Simulated Check List (E-SCL) for Order Commitment



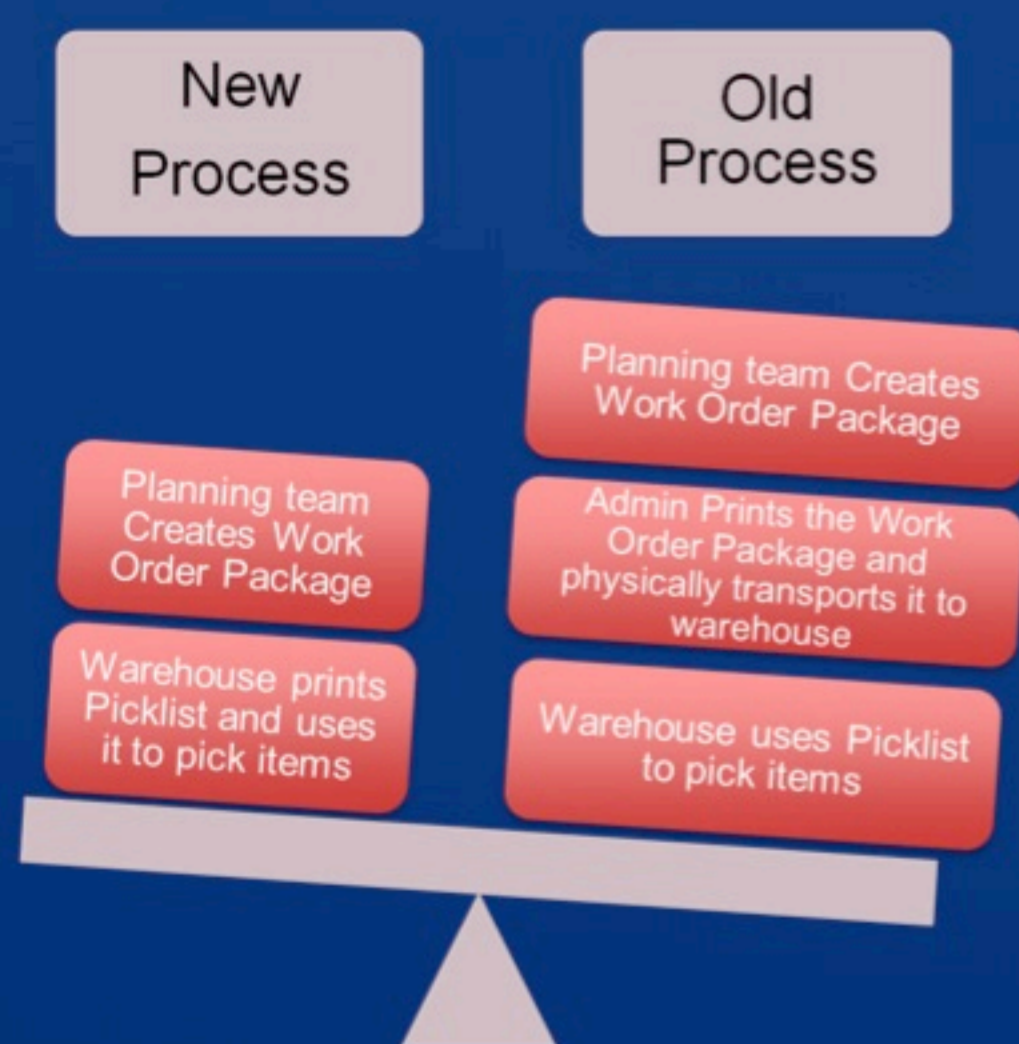
ESCL features

1. Consolidate multiple SCL according to ECOE
2. Reduce subassembly planning time
3. Eliminating paper use



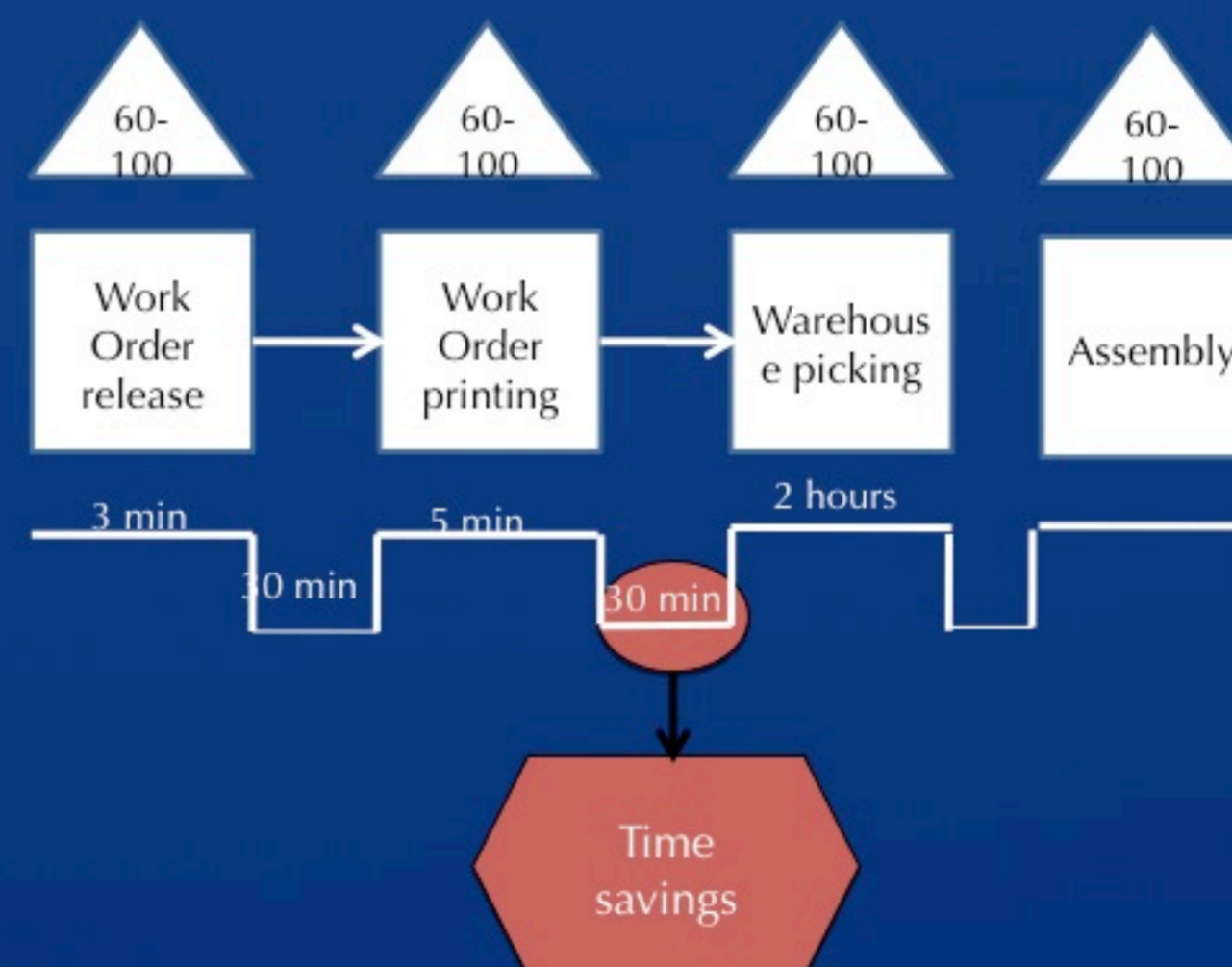
Project Realization	
PAPER Cost Savings (per year)	SGD 3500
Time Savings (per year)	300 hours

Project 2: New Work Order Release Process



Implementation Details

1. Fostering Collaboration between the various departments involved in changing the Work Order Flow
2. The Warehouse would be able to print Picklists well as match it to the right Accessory Picklist
3. Making sure the Work order Package is consolidated at the Machining Stage



Project Realization	
PAPER Cost Savings (per year)	SGD 2800
Time Savings (per year)	2160 hours

CONCLUSION

1. The two project implementations are stage one in making the manual Work Order Process paperless.
2. Changing the massive process gives rise to many other opportunities to reduce the inefficiencies in the future.