X-Log TAM-TMMIN QCC 2023

01. BACKGROUND

QCP

a. Company Hoshin - CPD role to support Part Sales Achievement

COMPANY BUSINESS REVIEW

Customer Satisfaction

92%

NPS[National Promotor Score]

Business Performance

34%

Market Share

60.3%

Service Share
[Unit Sales Vs Service]

4.3T

Part Sales

TAM - SPLD Rôle

Providing **Sustain** Lean Logistic Supply-ability [Demand - Inventory - Warehouse]

MARKET CONDITION



Company Strategy





Division Hoshin 2022

[AP1] Optimize shikumi for created demand fulfillment

[AP4] High speed Operation (ship w/o binn ops.)

Novi S. - SPLD Div. Head

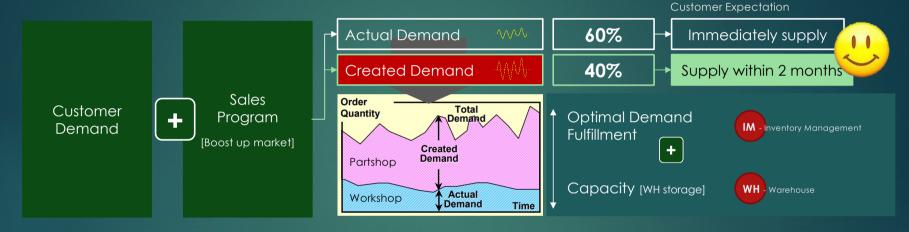
TAM – SPLD Role

Providing Warehouse Capacity to accelerate market condition

01. BACKGROUND (cont'd)

QCP

b. Customer Demand vs Expectation – Specific Treatment is required



c. Balancing C/S vs Inventory Cost









Target : < 80%

Providing best services with optimum cost and lowest WH space occupation SALES 6.9 T Fluctuated Demand for Campaign

Balance and Lean Logistic Operation

HAPPINESS for ALL

CUSTOMER

SUPPLIER

COMPANY

Achieving Sales Target by managing fluctuated demand with balance & lean logistic operation to deliver Happiness for ALL

03. PROBLEM IDENTIFICATION

a. Supply-ability Readiness

Fluctuated Demand (167%) impact to PO creation

Fluctuated PO creating uncertain operation level

Supplier unable to maintain the supply ability

Long Supply LT (Supplier – CPD – Cust.)

Create special treatment for fluctuated demand

b. System Readiness

PO managed directly w/ additional order



Created PO directly passed through to supplier with unheijunka condition

Create PO by following the heijunka concept

c. Capacity Readiness

WH running out of space (*)

Primary Loc. 74%

Reserve Loc. 104% *

QCP





Creating Ops. problem:
[S] part falling, [Q] incorrect stacking

Increase WH Capacity with lowest Investment

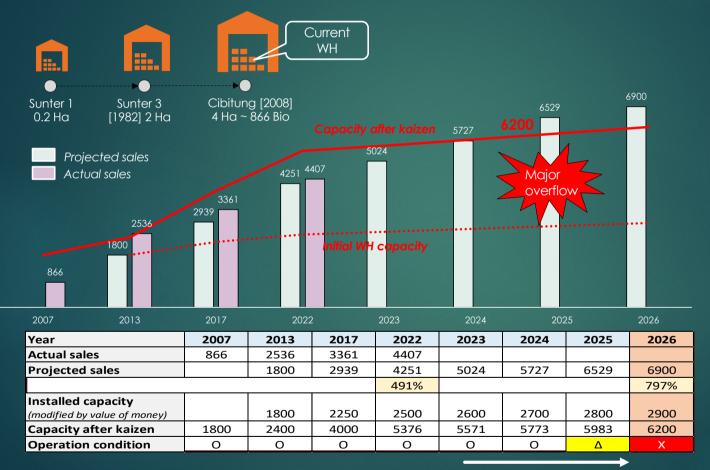
*) Target : < 80%

<u>|DEAL</u>

PROBLEM

QCP

03. PROBLEM IDENTIFICATION



(*) WH running out of space

Since moving to current WH (Cibitung) in 2008 sales has increase 508%.
Current calculation shows that without significant kaizen we will run out of space by 2026.

Need action

04. THEME

Modernized Logistic Operation through Automation
Technology implementation for creating Leveled
Purchase order with keeping fluctuated demand
fulfillment and Increasing Logistic capacity by
conducting shipping without binning concept
(CrossDock operation)

QCP



06. STRATEGY & SCHEDULE ACTIVITY

QCP

a. Strategy Activity: How to manage the issue?

I. SYSTEM PREPARATION

II. OPERATION PREPARATION







Easy
Communicate
W/ Supplier
(Forecast vs Supplier Capacity)

Levelling
Purchase
Order by **RPA**

INPUT

CrossDock
Operation
At Warehouse

To solve Issue a and b: fluctuated demand

To solve Issue c: capacity issue

07. STRATEGY & SCHEDULE ACTIVITY

QCP

			AREA IN CHARGE			2022							
NO	ACTIVITY	TAM		Sup								2023	
			LD	ISTD		Jun	Jul	Aug	Sep	Oct	Nov	Dec	
0	Easy Communicate to Supplier (Forecast vs Supplier Capacity Confirmation)	• IM	WH		0	Syst Enhanc		>	Socializ	ation		Impleme ion	
2	Levelling Purchase Order by RPA a. User Requirement, combine: - Supplier Capacity Confirmation - Customer Supply LT Expectation b. System Development	•		•		UR	D	System evelopmen	>>	ystem Test	Tri al	Go Liv	/e.!!
€	CrossDock Operation at Warehouse Step 1: a. Re-layout and Roller Installation b. SOP Making c. CrossDock Operation Trial Step 2: a. Criteria CrossDock & Customer Selection	0	•				Step 2:	e-layout & Roller stallation	M	SOP aking	Tri al	Impleme on	entati

QCP

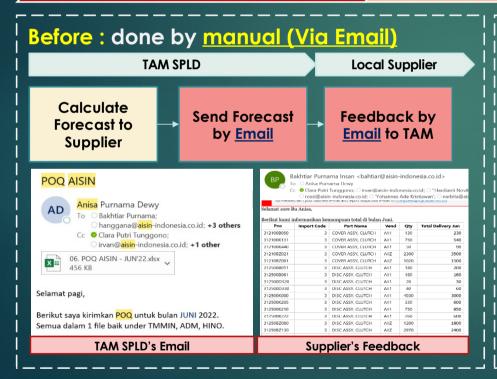
08. COUNTERMEASURE ACTIVITY

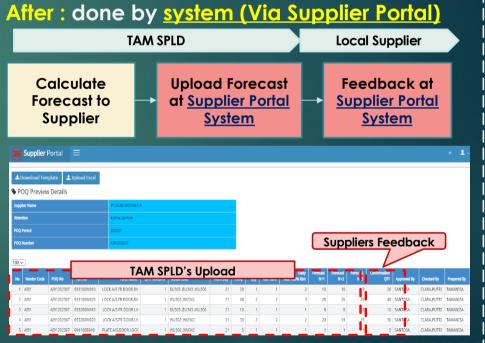
Strategy Activity:

1. Easy Communicate with Supplier (Forecast vs Capacity Confirmation)

2. Levelling Purchase Order by RPA

3. CrossDock Operation





08. COUNTERMEASURE ACTIVITY

QCP

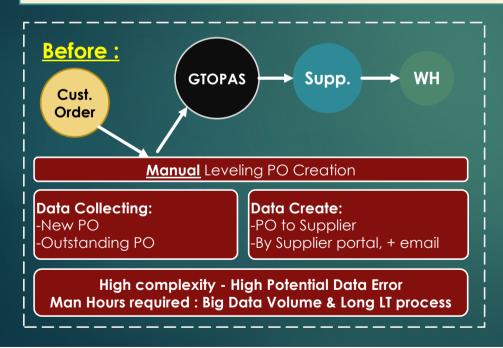
Strategy Activity:

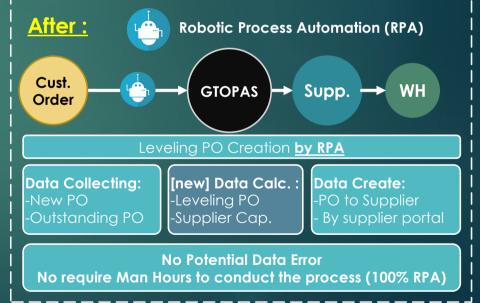
1. Easy Communicate with Supplier (Forecast vs Capacity Confirmation)

2. Levelling Purchase Order by RPA

3. CrossDock Operation

Summary Improvement Point in 2nd Strategy





08. COUNTERMEASURE ACTIVITY

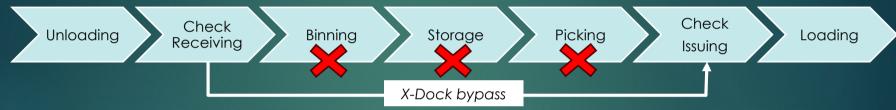
QCP

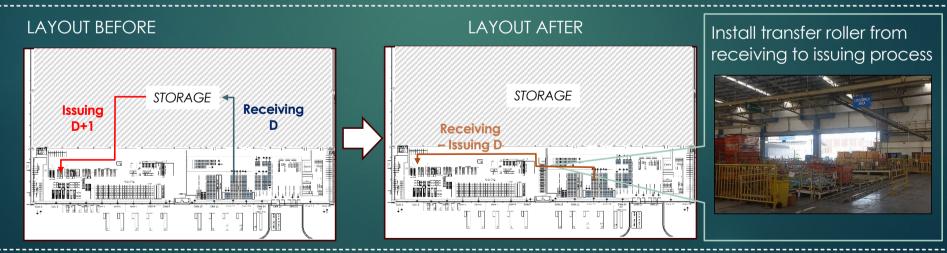
Strategy Activity:

1. Easy Communicate with Supplier (Forecast vs Capacity Confirmation)

2. Levelling Purchase Order by RPA

3. CrossDock Operation





09. IMPLEMENTATION ACTIVITY

QCP

Implemented to:

PHASE #1

Focus: Stock Reduction

- a. AISIN (Clutch)
- b. KAYABA (Absorber)
- c. SUGITY (Bumper)
- d. ICHIKOH (Lamp)
- e. DENSO (Filter)

Example:



Cover Clutch 31x31x5.5 cm | 6.22 Kg

Part No	Avg Stock before	Avg Stock after	Pcs reduction	Pcs/Pallet	Pallet saving
312100D180	222	89	133	72	2
312100K040	592	275	317	75	5
312100K101	1178	664	514	48	11
312100K131	248	191	57	18	4
312100K190	365	105	260	45	6
		Tota	al	28	

Total Part (up to June 2023)

38

Clutch, Absorber, Bumper, Lamps, Filters Total Pallet reduction

168

(reduction of usage in reserve location)

Stock Month - AISIN

a. Stock 1.2 Month 0.8 0.6 Reduction 0.4 [target: 0.3] 0.2



b. WH Space reduction





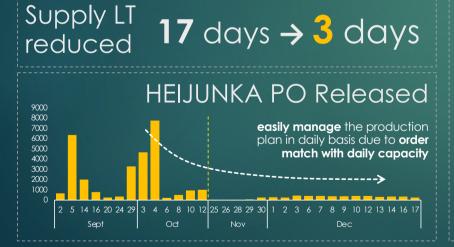
10. FINAL RESULT / BENEFIT

Customer Delight

Supply LT reduced

128 days → **62** days

Supplier Supply-ability



CPD Capacity

Stock Amount Reduced*

IDR 11.55 bio

Location usage reduced

Storage type	Used	Target	Eval	Life Time
1. Primary location	77%	<u><</u> 80%	0	2030
2. Reserve location**	85%	<u><</u> 80%	Δ	2026 (min)

Man Hour Reduction

1,795 hours /year IDR 133 mid

IDR 133 mio /year

27.3 m2 (IDR 36 mio/year)

**) lifetime increase 2022 → 2026

Expansion continued →

^{*)} Cross dock item only

11. EXPANSION ACTIVITY

CrossDock Expansion Plan

PHASE #2

Focus: Space Reduction

- 1. KOITO (lamp)
- 2. NOI (chemical)
- 3. HITACHI ASTEMO

(absorber)





CPD Capacity

Stock Amount Reduced*

IDR 1.1 bio

*) Cross dock item only

Location usage reduced

Storage type	Used	Target	Eval	Life Time	
1. Primary location	77%	<u><</u> 80%	0	2030	
2. Reserve location**	81%	<u><</u> 80%	Δ	2026 (min)	

55.5 m2 (IDR 74 mio/year)

Man Hour Reduction

1,188 hours
/year
IDR 88 mio
/year

11. FUTURE EXPANSION ACTIVITY

CrossDock Expansion Plan

PHASE #3

Focus: Future Space Reduction

All previous item but add destination to Sub Depot <need GTOPAS modification – under discussion with TMC>

CPD Capacity

Stock Amount Reduced*

IDR 39 bio

Location usage reduced

	Storage type	Used	Target	Eval	Life Time	
	1. Primary location	77%	<u><</u> 80%	0	2030	
The State of the S	2. Reserve location**	67%	<u><</u> 80%	0	2030 (min)	

241.2 m2 (IDR 318 mio/year) /year

Man Hour Reduction

13800 hours /year IDR 1,022

mio

^{*)} Cross dock item only

THANK YOU