



Suggestion System

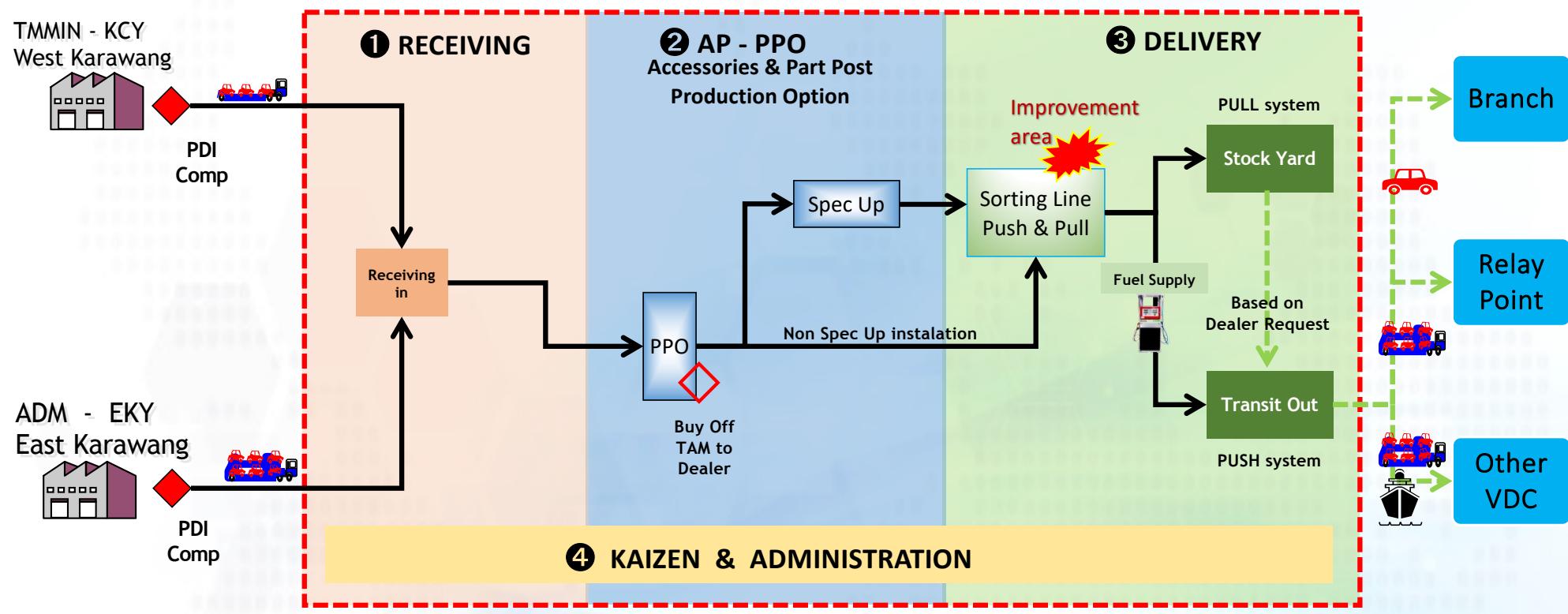
Drive Thru transit out area by Auto parking suggestion

*“Don't stop and limit your dream,
because innovation comes from a dream.....
Just do it.....*

Poeloeng Asmirantono

*PT. Toyota Astra Motor
Vehicle Logistics Division*





1. Kanban



Kanban :
Tools untuk visualisasi
unit parkir

2. Rak Kanban Transit Out



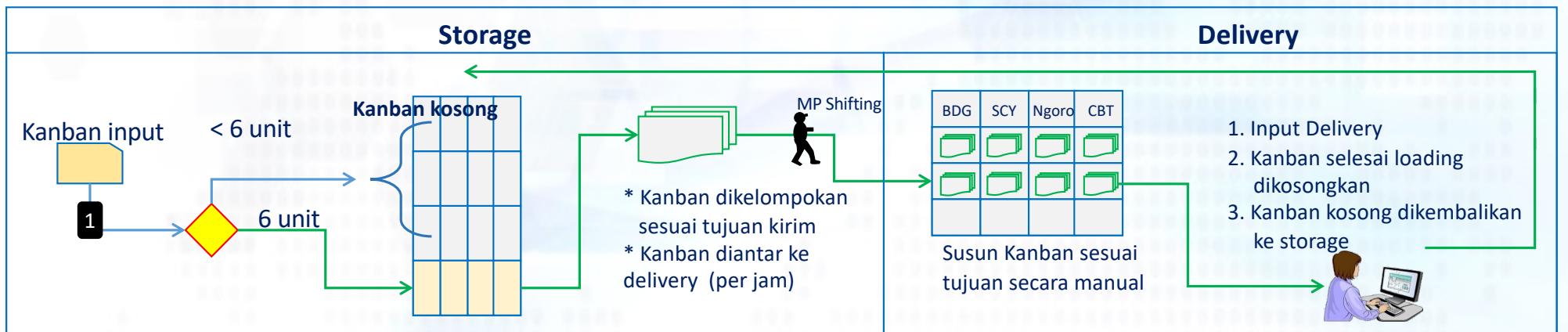
Visualisasi Transit out

3. Rak Kanban unit siap kirim - area Delivery



Ready unit for delivery Visualization

Kanban Flow



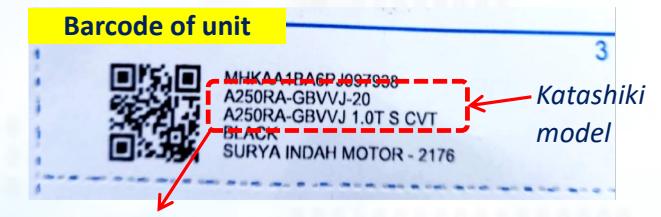


1. **MP TAM** : PIC untuk **judgement transit out**, mengacu pada :

Komposisi **dimensi model** di car carrier

2. **MP BPO** : **Manual** Susun Kanban kosong sesuai tujuan kirim, dan
support kebutuhan Kanban MP TAM

- A. Butuh **MP dengan** skill khusus, untuk menentukan **judgement parkir**
=> **Mengerti & menghafal katashiki**
untuk mengetahui **dimensi model**



Model Raize => Dimensi Kecil

- B. Komposisi loading di car carrier :

- 2 unit dimensi **besar**
- 2 unit dimensi **sedang**
- 2 unit dimensi **kecil**

- C. Judgement Komposisi dimensi & parkir **secara manual**

KPI :

- **Productivity : MP TAM & BPO**
- **Cost Reduction terhadap OPEX**

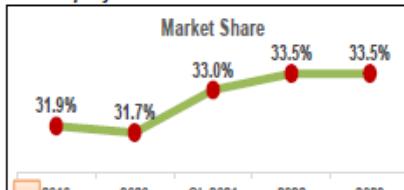
 PT. TOYOTA ASTRA MOTOR
HUMAN RESOURCES AND GENERAL AFFAIRS DIVISION

FORM-001 / SOP-HRDTAM-102						
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Phase	Date	Ack. By	Date	Approved By	Date	Proposed By
Planning	26/01/2022	Imam Setyawan	21/01/2022	Andy Surya Setiawan	21/01/2022	Poeloeng Asmirantono
Mid Review	02/06/2022	Imam Setyawan	28/05/2022	Andy Surya Setiawan	27/05/2022	Poeloeng Asmirantono
Final Review	30/09/2022	Imam Setyawan	22/09/2022	Andy Surya Setiawan	21/09/2022	Poeloeng Asmirantono

Key Result Area	Performance Planning		
	KPI / Objective	Weight	
Fixed Cost Reduction	Opex per unit (in Mio) : 0.15 Activity : Man Power Productivity Improvement for Indirect Labour by Automation study (RPA) -> max 2 jobs	15%	
Fixed Cost Reduction	Opex per Unit (in Mio) 0,15 Activity : BPO Man Power Productivity improvement through productivity & overwork monitoring & reduce overwork	15%	

A. SECTION ACTION PLAN

KPI	SECTION ACTION PLAN																																
	<p>1. Ensure PPO Achievement :</p> <p>1.1 NVDC Capacity Integration (PDI, PPO, TCO, DLV) either to cover increase volume or new model introduction</p> <p>1.2 Daily efficiency monitoring process by process through daily asakai & weekly hirukai + PPO motionboard daily</p> <p>1.3 Optimize AGV implementation and achieve 90% efficiency</p>																																
1. Maximize Our Leadership in Existing Business	<p>1.A Company KPI :</p>  <p>Market Share</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Market Share (%)</th> </tr> </thead> <tbody> <tr> <td>2019</td> <td>31.9%</td> </tr> <tr> <td>2020</td> <td>31.7%</td> </tr> <tr> <td>OL 2021</td> <td>33.0%</td> </tr> <tr> <td>2022</td> <td>33.5%</td> </tr> <tr> <td>2023</td> <td>33.5%</td> </tr> </tbody> </table>	Year	Market Share (%)	2019	31.9%	2020	31.7%	OL 2021	33.0%	2022	33.5%	2023	33.5%																				
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Division KPI : B. PPO ACHIEVEMENT	<p>Link to KPI Department Point B.6 & B.7</p> <p>2. Cost reduction activity through :</p> <p>2.1 Man Power Productivity Improvement : - Direct Labor : overwork monitoring - Indirect Labor : automation study → max 2 jobs</p> <p>2.2 BPO Man Power Productivity improvement through productivity & overwork monitoring</p> <table border="1"> <thead> <tr> <th>No</th> <th>Department KPI</th> <th>YTM Aug'21</th> <th>KPI</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Unit TA (in PPO)</td> <td>3.6%</td> <td>max 1%</td> </tr> <tr> <td>2</td> <td>Aging (D/T) Before PPO</td> <td>1.94 day</td> <td>max 1 day</td> </tr> <tr> <td>3</td> <td>Direct OK Ratio PPO</td> <td>92%</td> <td>98%</td> </tr> <tr> <td>4</td> <td>AA</td> <td>100%</td> <td>98%</td> </tr> <tr> <td>5</td> <td>DA</td> <td>99%</td> <td>98%</td> </tr> <tr> <td>6</td> <td>Production Capacity (MDP based)</td> <td>100%</td> <td>100%</td> </tr> <tr> <td>7</td> <td>NVDC LeadTime</td> <td></td> <td></td> </tr> </tbody> </table> <p>Link to KPI Department Point G.1</p>	No	Department KPI	YTM Aug'21	KPI	1	Unit TA (in PPO)	3.6%	max 1%	2	Aging (D/T) Before PPO	1.94 day	max 1 day	3	Direct OK Ratio PPO	92%	98%	4	AA	100%	98%	5	DA	99%	98%	6	Production Capacity (MDP based)	100%	100%	7	NVDC LeadTime		
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TAM - VLD

Problem Identification

Production	Day	Night	Total
Pull DR	255	201	456
Push PIO	290	270	560
a. Total	545	471	1016

Sorting Line Achv.	Day	Night	Total
T/T input per unit	1 minute	1 minute	1 minute
Working Hours	435 minutes	370 minutes	805 minutes
b. Achievement	435 units	370 units	805 units
GAP (a - b)	110 units	101 units	211 units
Productivity (b / a)	80%	79%	79%

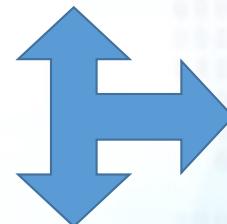


Note :
Catch up GAP
melalui over time

Ideal Condition

Production (PIO & DR)

1016 unit => 0,79 menit per unit



GAP Sorting Line
0.21 menit / unit

Actual Condition

Sorting line achievements

805 unit => 1 menit per unit

a. Produksi	1016 unit
b. Jam Kerja	805 menit
c. T/T (b / a)	0.79 menit



Challenge Pimpinan :

Review proses :

- Peningkatan pencapaian
- Penurunan overtime

Tindak lanjut :
(Penurunan Takt time)

TAM - VLD

Problem Analyze

Pre input

O

Input & Judgement Process

X

Arrange Kanban siap kirim

O

Process	Activity	Duration	Method
Scan input nomor rangka	Scan barcode	1 detik	Scan
Judgement transit out Total Waktu : 57 detik	Cek tujuan kirim	2 detik	Manual cek data
	Cek Loading pattern (Sesuai dimensi model)	53 detik	Cek manual katashiki di barcode
	Cek tanggal kirim	2 detik	Manual cek data
Cetak tiket parkir	2 lembar	2 detik	Klik tombol
Grand Total Process time		60 detik (1 menit)	

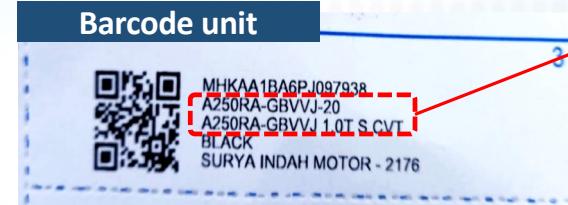
a. Simulasi cek Kanban



Kanban

- Isi Kanban : (4 units, max 6 units) :
- Fortuner 2 unit (Besar)
 - Avanza 2 unit (sedang)
 - **Manual cek barcode**
 - **Suggest : dimensi kecil**

b. Simulasi dimensi model



Barcode unit

Model Raize :
Dimensi Kecil

PIC harus menghafal
Katashiki untuk
mengetahui dimensi
model



Root cause 1 : Cek dimensi model di Kanban secara manual

Idea Improvement : Membuat system Auto parking suggestion (by excel base)

Root cause 2 : Data tersedia di kakudahyo hanya katashiki

Idea improvement : Membuat Visualisasi model unit pada tiket parkir

TAM - VLD

Problem Solving / Improvement

Root cause 1 : Cek dimensi model di Kanban secara manual

Autoparking Suggestion (Drive thru system)

From Scan Input		Stall Configuration		Loading Suggest		Transit Out Configuration						
		Free Stall	Stall CC		CC Pattern Suggest	T/O Stall	Dest 1	Dest 2	Dest 3	Dest 4	Dest 5	Dest 6
Destination	MHFJW8EMXN2403982					TO CB01	S. Lake					
Model Dimension	Sedang	1				TO CB02	Ngoro	Ngoro	Ngoro	Ngoro	Ngoro	Ngoro
Planning	P15					TO CB03	BDG	BDG	BDG	BDG	BDG	BDG
Moda	CC Pull		2			TO CB04	SCY	SCY	SCY	SCY		
TO suggest	TO CB04					TO CB05	Padang	Padang	Padang			
Free Stall	TO DB02	3				TO DB02						
Delivery System	Pull					TO DB03						

Model Dimension Configuration

```
=IF(OR(A15="",BJ5="Full",BJ5="NG"),IFERROR(IFERROR(IFERR OR(SEARCH("Batam",AJ5),SEARCH("CC",AJ5)),SEARCH("Medan",AJ5)),SEARCH("MDN",AJ5)),0)=0,"",IF(AND(AJ5="CC",COUNTIFS(AL5:AQ5,"P adang")>0),"",IF(AND(COUNTIFS(AX5:BC5,"Besar")=3,COUNTIFS(AX5:B C5,"Sedang")>=1),"Kecil",IF(COUNTIFS(AX5:BC5,"Besar")=3,"Sedang/K ecil",IF(AND(COUNTIFS(AX5:BC5,"Besar2")=1,COUNTIFS(AX5:BC5,"Bes ar")=1),"Sedang/Kecil",IF(AND(COUNTIFS(AX5:BC5,"Besar2")=1,COUNTIFS(AX5:BC5,"Besar")=2),"Kecil",IF(AND(COUNTIFS(AX5:BC5,"Besar2")=1,COUNTIFS(AX5:BC5,"Besar")=0),"Besar/Sedang/Kecil",IF(AND(COUNTIFS(AX5:BC5,"Besar2")=0,COUNTIFS(AX5:BC5,"Besar")=2),"Besar2/Bes ar/Sedang/Kecil",IF(AND(COUNTIFS(AX5:BC5,"Besar2")=1,COUNTIFS(A X5:BC5,"Besar")=2),"Sedang/Kecil","Besar2/Bes ar/Sedang/Kecil")))))))))
```

Stall suggest configuration

```
=IF($R$5="", "",IF(AND(BJ8<>"Full",AJ8="Bata m",$R$5="P.Batam",IFERROR(SEARCH($R$6,Y 8),0)>0),"Batam1",IF(AND(BJ8<>"Full",AJ8=" CC",$R$5="P.Batam",IFERROR(SEARCH($R$6, Y8),0)>0,COUNTIFS($AL8:$AQ8,"P.Batam")>0 ),"Batam1",IF(OR(AI8=" ",BJ8="Full",BJ8="NG" ,LEFT(AJ8,2)<>"CC"), "",IF(OR(LEFT($R$8,2)<>" CC",COUNTIFS(AL8:AQ8,$R$5)=0,COUNTIFS(B D8:BI8,BD8)=0,IFERROR(SEARCH($R$6,Y8),0)= 0,"",IF(MID($R$7,2,2)<=MID(BD8,2,2),$R$7& $R$8&$R$5&1,"")))))
```

Root cause 2 : Data tersedia di kakudahyo hanya katashiki

Sorting Line	0028385	TO DB37
9:30		
6-May-22		
Pertamax		
- 2 Ltr		TO DB37 - PA IJO
AVANZA		MHFAB1BY4N0028385
P. MDN		AUTO2000 SISINGAMANGARAJA
P9		

- Visualisasi model unit pada tiket parkir
- Instruksi stall parkir

1. Drive thru input
2. Suggest dimensi model sesuai tujuan kirim
3. Konfigurasi dimensi
4. Konfigurasi Stall
 - a. Jika input VS suggest = OK : previous stall
 - b. Jika input VS suggest X : stall kosong

1. Dispatcher input

Scan Barcode Frame Number	X
Scan Input Sorting Line	
08:51:06	
MHFJW8EM7P2409872	
Pajoi	

2. Hasil input

MHFJW8EM7P2409872	
Destination	Polygon a
Model Dimension	Sedang b
Planning	P17
Moda	CC

3. Excel Auto parking

Konfigurasi Loading Pattern		Konfigurasi Transit Out								
MPC/SD/SC/Dyna/Hiace	CC Pattern Suggest	T/O Stall	Alokasi	Cap	Dest 1	Dest 2	Dest 3	Dest 4	Dest 5	Dest 6
CC1	Besar2/Besar/Sedang/Kecil	TO CB01	CC	6	Polygon a					
CC1	Besar2/Besar/Sedang/Kecil	TO CB02	CC	6	CC IBT BJM	CC IBT BJN				
CC1	Besar2/Besar/Sedang/Kecil	TO CB03	CC	6	CC NGORO	CC NGORO	CC NGORO	CC NGORO		
		TO CB04	CC	6	CC PORT AN	CC PORT A	CC PORT A	CC PORT A	CC PORT A	
CC1	Besar2/Besar/Sedang/Kecil	TO CB05	CC	6	Storage Poly	Storage Po	Storage Po			
CC1	Besar2/Besar/Sedang/Kecil	TO CB06	CC	6	CC IBT BJM	CC IBT BJN	CC IBT BJN			
CC1	Besar2/Besar/Sedang/Kecil	TO CB07	CC	6	CC NGORO	CC NGORO	CC NGORO			
		TO CB08	CC	6	CC CIBITUNG	CC CIBITU	CC CIBITU	CC CIBITU	CC CIBITU	
CC1	Besar2/Besar/Sedang/Kecil	TO CB09	CC	6	CC SEMPER					
		TO CB10	CC	6	CC CIBITUNG	CC CIBITU	CC CIBITU	CC CIBITU	CC CIBITU	
		TO CB11	CC	6	CC NGORO	CC NGORO	CC NGORO	CC NGORO	CC NGORO	
CC1	Besar2/Besar/Sedang/Kecil	TO CB12	CC	6	CC CIBITUNG	CC CIBITU	CC CIBITU	CC CIBITU	CC CIBITU	
		TO CB13	CC	6	CC CIBITUNG	CC CIBITU	CC CIBITU	CC CIBITU	CC CIBITU	

1. Drive thru input oleh Dispatcher

2. Hasil input :

- a. Tujuan kirim : Polygon
- b. Dimensi : Sedang

3. Excel, kalkulasi otomatis :

- a. Previous input : Polygon
- b. Model Suggest : besar, sedang, kecil
- c. Suggest stall parkir

Auto Parking Suggestion Configuration

MHFJW8EM7P2409872	
Destination	Polygon
Model Dimension	Sedang
Planning	P17
Moda	CC
TO suggest	TO CB01

Input : Polygon, Medium Dimension
 Suggest : Polygon, (Big, Medium, Small)
 Result : *Stall Suggest at TO CB01*

Auto print out
for parking ticket

Sorting Line	2409872	TO CB01
9:37		
16-Jun-23	Demo	Demo
Pertamax		
2 Ltr		TO CB01
INNOVA		MHFJW8EM7P2409872
Polygon		TUNAS AUTO GRAHA PALEMBANG
P17		

TAM - VLD

Operation Flow

Improvement Result

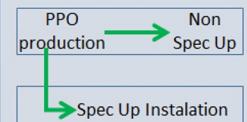
Before

- A. Rak kanban
- B. Tiket parkir : 2 lembar
- C. Susun kanban siap input delivery
- D. Kanban diantar oleh MP shifting

- ❖ Input process by man power
- ❖ Manual Judgement

PPO & Stock area

PPO : Post Production Optional
(Buy off TAM)



Pick unit from stock
(Dealer Request)

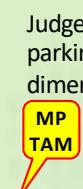


Arrangement kanban



Sorting Line - Push

Judgement manual
parkir sesuai komposisi
dimensi

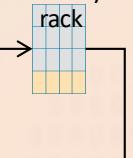


Ticket
2 lembar



Delivery

Delivery
rack



Delivery
input



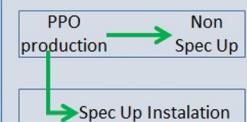
Transit Out Stall

After

- A. Visualisasi transit out
- B. Tiket parkir : 1 lembar
- C. E - Kanban (data input)
- D. Auto link to delivery input

- ❖ Drive thru process
- ❖ Auto judgement from excel base to auto parking suggestion

PPO : Post Production Optional
(Buy off TAM)



Pick unit from stock
(Dealer Request)



Transit out
Visualization



Ticket
1 sheet



E - kanban

Delivery
input



Transit Out Stall

TAM - VLD

Improvement Result

Before



After



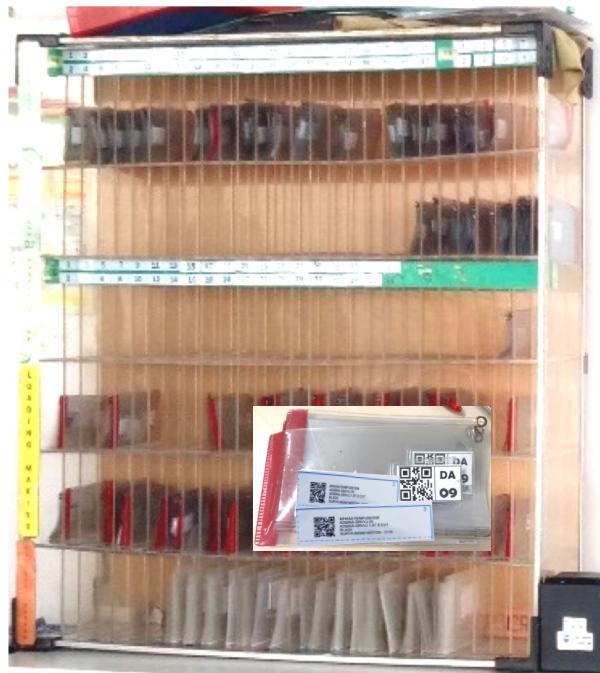
- **2 MP** (1 MP TAM 1 MP BPO) : *per shift*
- **Manual Judgement** for transit out
- Takt time : **1 menit (60 detik)**

- **0 MP** (*Drive thru* by dispatcher)
- **Auto parking suggestion**
- Takt time : **0,25 menit (15 detik)**

TAM - VLD

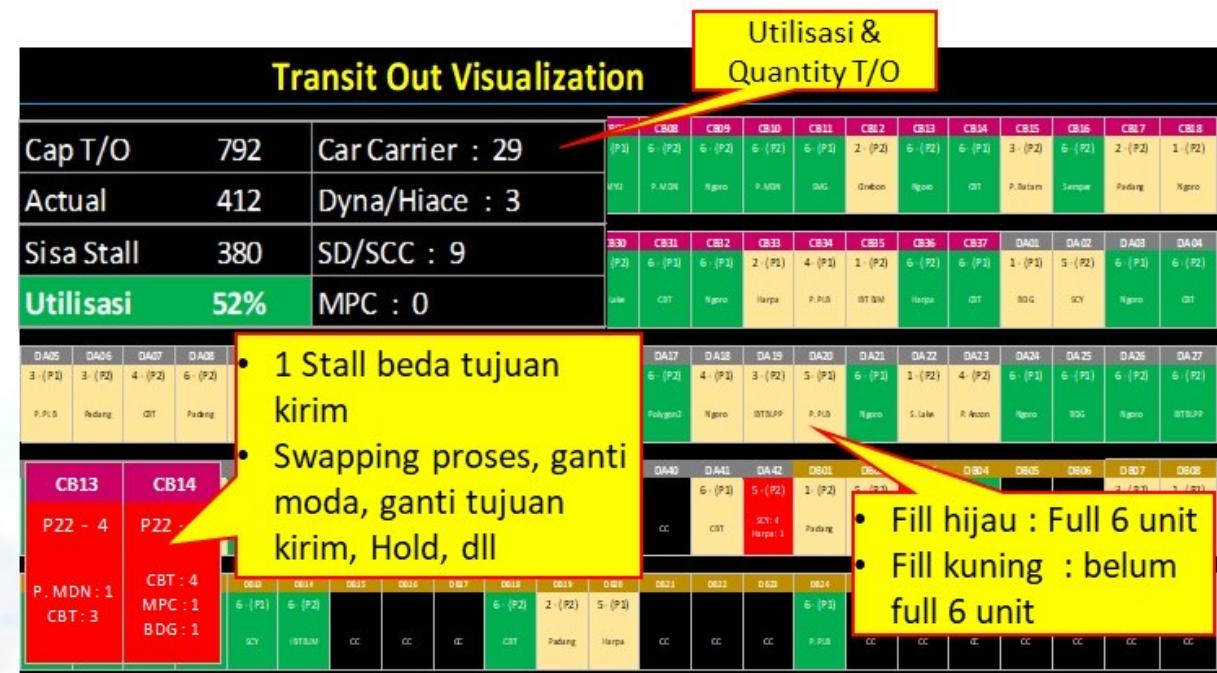
Improvement Result

Before



- Kanban unit
- Rak kanban Transit out
- **Sulit mendeteksi abnormality**

After



- *Digital Visualization* : Kanban less
- Abnormality & utilisasi stall **tervisualisasi**
- *Early Detection Early Response* (E D E R)

Before



After

E Kanban T/O NVDC Karawang : 543 unit						
Stall	Seq	Frame Number	Model Name	Branch Name	Destination	Delv. Pa
DA04	1	MHFA83EMX M0023095	INNOVA	AUTO2000 DAAN MOGOT	SCY	5-Apr-22
	2	MHFA81BYN 00021766	AVANZA	AUTO2000 PRAMUKA	SCY	5-Apr-22
	3	MHFAA8G51N0777192	FORTUNER	PLAZA TOYOTA KYAI TAPAK	SCY	5-Apr-22
	4	MHFAA8G56N0777136	FORTUNER	ASTRIDO TOYOTA HARMONI	SCY	5-Apr-22
	5	MHFJ88EMN1101135	INNOVA	ASTRIDO TOYOTA FATMAWATI	SCY	5-Apr-22
	6	MHFAA8G53N0777386	FORTUNER	ASTRIDO TOYOTA KLENDER	SCY	5-Apr-22
DB15	1	MHFA81BY1N0012550	AVANZA	NASMOCO WONOSOBO	SMG	5-Apr-22
	2	MHFA81BY1N0015312	AVANZA	NASMOCO WONOSOBO	SMG	5-Apr-22
	3	MHFA81BY3N0015188	AVANZA	NASMOCO WONOSOBO	SMG	5-Apr-22
	4	MHKAB1BY2N KO16363	AVANZA	NASMOCO TEGAL	SMG	5-Apr-22
	5	MHKE8FA3JN K07604	RUSH	NASMOCO WONOSOBO	SMG	5-Apr-22
	6	MHFAABGS50N0776843	FORTUNER	NASMOCO WONOSOBO	SMG	5-Apr-22
DA16	1	MHKE8PBJ1NK C012340	RUSH	TUNAS TOYOTA BANDAR JAYA LAMPUNG	CBT	5-Apr-22
	2	MHFA81BY4N0027009	AVANZA	TUNAS TOYOTA BALARAJA	CBT	5-Apr-22
	3	MHKA4GA51N J061920	AGYA	AUTO2000 PANDEGLANG	CBT	5-Apr-22
	4	MHKA1BA8N J043134	RAIZE	AUTO2000 BINTARO JAYA	CBT	5-Apr-22
	5	MHKA6GU6JN/151217	CALYA	AUTO2000 TULANG BAWANG	CBT	5-Apr-22
	6	MHKA6GU6JN/151216	CALYA	AUTO2000 TULANG BAWANG	CBT	5-Apr-22
DA17	1	MHKAB1BY6N KO17510	AVANZA	NASMOCO RING ROAD	SMG	5-Apr-22
	2	MHKAB1BY8N KO16228	AVANZA	NASMOCO TEGAL	SMG	5-Apr-22
	3	MHFA81BY9N 00026132	AVANZA	NASMOCO PURWOKERTO	SMG	5-Apr-22
	4	MHKAA1BA3N J043431	RAIZE	NASMOCO SLAMET RIYADI	SMG	5-Apr-22
	5	MHFJW8EM1N2400274	INNOVA	NASMOCO PURWOKERTO	SMG	5-Apr-22
	6	MHFAABGSXN 0777076	FORTUNER	NASMOCO SOLO BARU	SMG	5-Apr-22

- Rak visualisasi kesiapan delivery → Susun Kanban **manual**
- Kanban **diantar** oleh MP → **batch per jam**
- Electronic Kanban → **Auto arrangement**
- Transit out **Real time** data



- Sorting line achievement as the production
Day : 545 Night : 471 Total / day : 1016
- ***Increase for Productivity : 21%***
(79% => 100%)

COST

1. OPEX	Before	After	Reduce
Reduce 2 MP BPO (fixed cost)	Rp 13,539,959	Rp -	Rp 13,539,959
Overtime 32MP : Jan - Apr	Rp 371,665,071	Rp -	Rp 371,665,071
Total	Rp 385,205,030	Rp -	Rp 385,205,030
2. Other Benefit	Before	After	Reduce
Reduce 2 MP TAM	Rp 14,920,000	Rp -	Rp 14,920,000
Kertas cetak	Rp 6,600,000	Rp 3,300,000	Rp 3,300,000
Kanban	Rp 13,042,500	Rp -	Rp 13,042,500
Rak Kanban	Rp 24,000,000	Rp -	Rp 24,000,000
Total	Rp 58,562,500	Rp 3,300,000	Rp 55,262,500
Total Benefit	Rp 443,767,530	Rp 3,300,000	Rp 440,467,530

**Contributed to decline
the OPEX : 0.005**

		Before			After	
		Jan	Feb	Mar	Apr	May
a	Budget	Invest & Expense	Rp 79,790,026	Rp 79,790,026	Rp 79,790,026	Rp 79,790,026
		Fixed Cost	Rp 216,639,341	Rp 216,639,341	Rp 216,639,341	Rp 216,639,341
		Variable Cost	Rp 109,370,890	Rp 97,056,147	Rp 108,163,576	Rp 57,074,459
b	Pemakaian	sum(a)	Rp 405,800,257	Rp 393,485,514	Rp 404,592,943	Rp 353,503,826
c	Handling (Unit) : PIO & DR	16362	16117	21161	19204	15211
d	Opex (per unit)	(b/c)	Rp 24,801.38	Rp 24,414.31	Rp 19,119.75	Rp 18,407.82
e	Opex (per unit in Mio)	(c/1.000.000)	0.025	0.024	0.019	0.018
f	Std Opex	KPI	0.15	0.15	0.15	0.15
g	Actual Opex	Avg(e)	0.022		0.005	
h	GAP				0.017	

Aspek	After
Q	<ul style="list-style-type: none"> • Automation Process • Digitaly (Transit out visualization)
D	<ul style="list-style-type: none"> • Reduce for takt time : 60 detik (1 menit) => 15 detik (0,25 menit)
S	<ul style="list-style-type: none"> • Eliminate for loss monitoring the abnormality
M	<ul style="list-style-type: none"> • Easy operation : eliminate for memorize the unit type code for dimension
E	<p>Support for GO GREEN COMPANY by :</p> <ul style="list-style-type: none"> • Eliminate for paper waste : 66 rol per year • Eliminate for Kanban plastic: 12.300 sheets • Eliminate for Kanban rack

**Zero cost
in making improvement
(self-made programs & applications)**

TAM - VLD

Yokoten Activity

Evaluation

1. NVDC Cibitung, July 2022

Self Drive 42 Stall	Free Stall	Car Carrier 37 Stall	Free Stall	SCC 39 Stall	Nomer Rangka	MHFJB8EM9P1113396
TO C10	1	TO D01	1	TO C45	Moda	SELF D
TO C10	2	TO B45	2	TO C45	Cabang	AUTO2000 JATIASIH
TO C09	3	TO B42	3	TO C45	Keterangan	PDI
TO C09	4	TO B36	4	TO C44	BBM	4,5 Ltr
TO C09	5	TO D25	5	TO C42	Jam	09:44
TO C09	6	TO D24	6	TO C41	Tanggal	20-June-2023
TO C08	7	TO D23	7	TO C40	Parking Sugestion	TO C10
TO C08	8	TO D22	8	TO C40	Parking Input	
TO C08	9	TO D20	9	TO C40	Model	INNOVA
TO C08	10	TO D19	10	TO C40	Repair	
TO C07	11	TO D18	11	TO C39	Simpan & Print	
TO C07	12	TO D17	12	TO C39	Reprint	
TO C07	13	TO D16	13	TO C39	Print Reject	
					Kirim Data	
					Input	SUM PDI
					Sum Tiket	Closingan bree !!!

2. East Karawang Yard - ADM : July 2022

fresh hold Stall
fresh Priority unit

PDI Achievement East Karawang Yard
20 Juni : Day Shift

Last Update : 1 Dec 7:26

Frame Number	Dispatch	Model
MHKAA1BA8NJ070494	JAEANI	Raize
MHKAA4GB5NJ056824	ACEP	Agya
MHKAA4GA5NJ068964	JAEANI	Agya
MHKAA1BAXNJ070481	ACEP	Raize
MHKAA4GB5NJ056824	JAEANI	Agya
MHKAA1BA6NJ070395	ACEP	Raize
MHKAA1BA8NJ070410	ACEP	Raize
MHKAA1BA9NJ070441	JAEANI	Raize
MHKAA1BA8NJ035392	ACEP	Raize
MHKAA1BA8NJ035380	ACEP	Raize
MHKAA4GA5NJ068965	JAEANI	Agya

NL02 - World Class
20 June 2023 16:48:23

MHKAA1BA8NJ070446

Karyo **J001**

3. Pull system, September 2022

Scan unit Pull Stockyard	Input Manual	Cetak Tiket			
MHFAB1BY0M0009220	Nomer Rangka	MHFAB1BY0M0009220			
Paijo	Dispatcher	Paijo			
NL0 2 - World Class	Stall Tujuan	HB011			
Input Unit Pull Stockyard area	9 unit	Stall Manual =>			
No	Nomer Rangka	Model	Warna	Cabang	Alamat Parkir
1	MHKE8FB2JMK011535	RUSH	BLACK MICA	AUTO2000 BOGOR SILUWAI	HU002
2	MHKAA1BA7MJ017350	RAIZE	BLACK SILVER METALIC	AUTO2000 CIKAMPEK	IL006
3	MHKAA1BASMJ016729	RAIZE	BLACK SILVER METALIC	AUTO2000 GSO & PK	HT007
4	MHKME5EA3JM19904	AVANZA	BLACK MICA	TUNAS TOYOTA PASAR MII	HO007
5	MHKAA1BA3MJ015577	RAIZE	SILVER METALLIC	TUNAS TOYOTA HAYAM W	HP008
6	MHKE8FB2JMK057317	RUSH	BLACK MICA	AUTO2000 KARAWANG	IF010
7	MHKAA1BA4MJ015703	RAIZE	WHITE	TUNAS TOYOTA CIPUTAT	HI004
8	MHKAA1BA3MJ015594	RAIZE	WHITE	WIJAYA TOYOTA SUBANG	HI007
9	MHKAA1BA0MJ015584	RAIZE	GRAY METALLIC	AUTO2000 KARAWANG	HG007

4. Relay Point Bandung, October 2022

Relay Point Gede Bage		NVDCKRW/20220912/0082/U6			
No	Nomer Rangka	Cabang	Area	Stall	NoPol
1	MHFK23F32N2182094	AUTO2000 PASTEUR	Dalam Kota	A001	B 9609 SEH
2	MHKAA1BY5NK012222	AUTO2000 CIBIRU	Dalam Kota	A001	B 9609 SEH
3	MHKE8FB2JNK013817	AUTO2000 ASIA AFRIKA	Dalam Kota	A001	B 9609 SEH
4	MR2B63HK6N4010720	AUTO2000 PASTEUR	Dalam Kota	A001	B 9609 SEH
5	MHFJW8EM0N2403747	AUTO2000 ASIA AFRIKA	Dalam Kota	A001	B 9609 SEH
6	MHKAA6GJ6NJ635742	AUTO2000 ASIA AFRIKA	Dalam Kota	A001	B 9609 SEH

5. Relay Point Semarang, October 2022

R/P Semarang		NVDCKRW/20221204/0002/U6			
No	Nomer Rangka	Cabang	Grup	Stall	
1	MHKAA1BY8NK017964	NASMOCO SLAMET RIYADI	D	D2 - 1	
2	MHFAB3EMXN0027536	NASMOCO MAGELANG	B	B1 - 1	
3	MHKE8FB3JNK077457	NASMOCO BANTUL	B	B2 - 1	
4	MHKAB1BY5NK040051	NASMOCO KLATEN	D	D2 - 2	
5	MHKAA1BA0NJ070506	NASMOCO MAJAPAHIT	A	A1 - 1	
6	MHFABAAA2N0001268	NASMOCO MAGELANG	B	B3 - 1	

COMING SOON!

6. Sunter Common Yard area

=> On progress study at NVDC Karawang

7. Gate 4 Car carrier Automation at

NVDC Karawang

Benefits for yourself

- Increase for automation capabilities
- Changing the mindset in innovation

**“ Nothing is impossible,
before trying => Start your
impossible ”**

BOD & Management Genba



Benefits for other colleagues

1. can share knowledge with other areas

Webinar
"Tips & Trik Ide Berkonsep"

Keynote speakers:
Poeleeng Asmarinto Juara I SSI VLD 2022

23 Mei, 2023 | 13:00 – 14:00 WIB
at Big Meeting Lt. 2 RVDC Ngoro

Continuous Improvement Is Better Than Delaged Perfection

Dapatkan hadiah menarik untuk peserta teraktif
(Hilhan memberikan Hp & Headset Masing-Masing)

PT. Toyota – Astra Motor Vehicle Logistic Division

SHARING SESSION
Ide Berkonsep
SEMESTER 1, 2023

Sharing Session Ide Berkonsep

AR

Mezan P (Owner) 2 Jun 22 13:00 23°C

Angga RH (Owner) 2 Jun 22 13:00 23°C

Ariadi Mardiyah (Owner) 2 Jun 22 13:00 23°C

Rach Leksono (Owner) 2 Jun 22 13:00 23°C

Jodika Jastin (Owner) 2 Jun 22 13:00 23°C

Project RPA VLD
Andy Surya, bagas ngeselin, Dad...

Jodika Jastin
reminder jam 3 sore ini kita diskusi lagi yaaa

terkait dengan RPA case 2 delivery planning..
Training template di support oleh pak Poeleeng..
@Raden Mas Poeleeng @Lia Cibitung @Nurhadi scy @JAUD @Deny Setiawan scy

Cc @pak Eko Broto Leksono @rio j2
@Andy Surya

1:34 PM

BOD & Management Approval

13. PENILAIAN		Kepala Seksi	Kepala Departemen	Kepala Divisi	Komite	14. Komentar
Hasil Nyata	Pengurangan biaya (Rp/Bln)	55	55	55		
	Pengurangan tenaga kerja (orang)	-		-		
	Pengurangan jam kerja (jam/Bln)	-		-		
	Safety	6	6	6		
	Ergonomi kerja/Higiene	16	16	16		
	Kualitas	16	16	16		
	Lingkungan	6	6	6		
Hasil Tidak Nyata	Manfaat	8	8	8		
	Usaha	12	12	12		
	Kepekaan	6	6	6		
	Keastian	10	10	10		
	Potongan	-	135	135	135	135
	Total	135				
	Paraf dan Tanggal		2 Jun'22	2 Jun 22	05.06.2023	MJ

17. Persetujuan Akhir

[Handwritten signatures and initials over the table]

Standart Operation Procedure - Drive Thru Sorting Line Push NVDC Karawang

1. Buka File



- a. Drive D => Folder Sorting Line => master sorting line.xlsx (enter / double click) => muncul tampilan excel input
- b. Klik tombol Mode Drive Thru => akan muncul tampilan scan input frame & nama dispatch
- c. Drive D => Folder Sorting Line => visualisasi TO.xlsx (enter / double click) => muncul tampilan excel input
► Tahan & geser visualisasi TO ke monitor lain

2. Operasional Input

- Dispatcher masuk sorting line
- Ambil barcode SJKB unit
- Scan input barcode SJKB unit
- Scan nama dispatcher dari ID Card



Acknowledged	Approved	Checked	Prepared

Imam Setyawan
NLG2 Dept. Head
Andy Suryo S
Kaizen Sect. Head
Agung Fajri V
Storage Line Head
Poeloeng A
Kaizen Staff

- Ambil ticket parkir stall transit out
- Gerakkan unit menuju transit out sesuai arahan ticket

PASTIKAN unit parkir di Stall sesuai lokasi tertera di ticket Ya

3. Update Alamat parkir di System TLS



- a. Scan barcode / input nomor rangka
- b. Scan barcode alamat parkir

PASTIKAN :

1. Lokasi T/O sesuai fisik unit parkir
2. Update TLS tersimpan

Jika terjadi kendala / membutuhkan informasi :

>>>>>>>>>
(Poeloeng)
poeloeng.asmirantono@toyota.astra.co.id

Video of Drive Thru operation

Next Improvement :
Single movement automation



PT. Toyota Astra Motor
Vehicle Logistics Division



Hatur Nuhun

Terima kasih

Thank you

ありがとうございました

WORLD
CLASS