**ALLIANCE CONFIDENTIAL C** 

# AUTOMOTIVE

#### RENAULT NISSAN MITSUBISHI





### NISSAN Production Share





### NMEX MODELS Outline – Vehicles

A1 1,220 Vehicles / Day	A2 523 Vehicles / Day	C1 250 Vehicles / Day	C2 324 Vehicles / Day
Kicks	New Sentra SOP USA Nov'19 SOP MEX Feb'20	NV200	NP300 Frontier
March	No. 1	Versa	NP300
New Versa SoP Jun'19	Sales in Mexico	New Versa	Alaskan Renault

### FULL SUPPLY CHAIN



#### Parts suppliers origins





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### INBOUND SCM

#### **Transport Modes**



**13 Carriers** 



**8** Forwarders



**Operation Volume** 

### **5.7 Millions** M<sup>3</sup> Volume Transported Per Year





**Operation Distance** 

### 223 Millions KM Distance Per Year



### **DELIVERIES PER YEAR**



**Efficiency Transport** 

# **80.4%**







### REVERSE LOGISTICS LOCAL & CKD



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NMEX

### Distributed by:





## CHALLENGE



### Cost Optimization







PACKAGING







### No Change Design Methodology Process advantage

#### New Model Package Cost Efficiency

#### No change Package design (+)Traditional Method Cost KAIZEN [ C/R] **Optimization** [C/A] **Package Design** $\geq$ Log Correction + Pkg **Cost Reduction** $\geq$ Optimum Cost Best cost before SOP **Years** Best Package m3 integration Wasted No Package Expert Need Project SOP+1 SOP+2 Contract VCLot Sales SOP Lifetime Monitor

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#### **Optimum Package Cost**

@ early phase

Aggressive cost improvement

17% to 20% Cost Reduction

Best of Pack Best Package Design [Warehouse, Ergonomics , Assy line]

No feedback by plant

**Design Time Slot** 

Time reduction from zero to fulll design

6 to 3 week per design

FORMER CONDITION SENTRA PACKAGING





### PACKAGING STANDARD

#### DIMMENSIONS

#### **Standard Height Range** Stacks over 2.770 mt (9") as truck height 2 5 3 4 6 1.385 mt 0.690 mt 0.540 mt 0.460 mt 0.920 mt

#### **Standard Lenght Range**

Foot prints over over 40", 48" & 53" truck lenght



1	2	3	4	5	6	7	8	9	10	11	12
1	2	:	3	4	5	6	7		8	9	10







SENTRA PACKAGING -











Strategy to stack Standard racks vs Special Racks Part Quality Inventory Level Friendly Operation







PKG

IB





Visibility Opportunity



### Inbound FLOW

### **EFFICIENCY RECORD**





NMEX





**X Dock** 







- Dynamic Routing
- Balance Capacity



#### **Customer Service**













### GOALS:

### INCREASE DELIVERY FLEXIBILITY

### MAXIME RETURN TRUCK FILL RATE

### REDUCE RETURN LEAD TIME











### Former Routing Concept:



- 1. Static Routing
  - 2. Shipping Planning by date
    - 3. Variable lead time to suppliers





### New Routing Concept:



- 1. New Routing Scheme
  - 2. Advanced Shipping Planning
    - 3. Dispatch Sequence by shortest Lead Time







**ON GOING PROJECT:** 

# Increase Return CFR Maritime Transportation Overseas Scheeme

planning Software

111

Vanning

#### +10% TFR (-146 FEU/year)

New Return Standard Operation





#### RACK CONTROL





#### Best Cost Per Unit

Best Packaging & Reverse Logistics



Best Truck Reduction







### **KEY LEARNINGS**



