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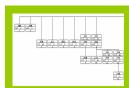
#### Introduction

To avoid each automotive company creating its own Logistics Performance Indicators (LKPI), Odette's Logistics Functional Committee identified the need to have common Logistics KPIs. A Project group was formed for this purpose in July 2004;

#### Mission:

To define and promote common indicators and common understanding between the Trading Parties for Parts supply in line with the Global MMOG/LE recommendation to increase performance and decrease cost in the Supply Chain.

Mission complete August 2005







In June 2005, a joint global AIAG/Odette team was formed to create a global document.

0	d	e	tt	e	

→ Basi Lopez Lear Corporation

Damien Derlot SNOP

→ David Fernandez ANFAC

→ Gerhard Paulinz Volvo Truck

→ Jacky Cousin GALIA

→ Jan De Wit Renault

→ Jeff Turner SMMT

→ Francisco Reseco Renault

→ Oscar Fredell Volvo Cars

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→ Sheila Manning DaimlerChrysler

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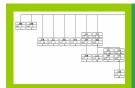
→ Steve Paul Federal Mogul

Tim Piniatoglou Ford Motor Company

→ Todd Pronge Bosch

Darrell Schwartz Formtech

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#### Why standard KPIs?

- → Using this recommendation, a company can fulfill internal objectives while using indicators common to the industry that are better understood by Suppliers and Customers.
- → The objective of the recommendation is not to standardize Supplier delivery performance systems within the industry but to harmonize the indicators used in Supplier delivery performance systems.

#### For the suppliers:

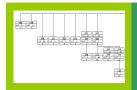
by harmonizing measurements of logistics performance within the industry

#### For the customer:

by facilitating the development or the enhancement of Supplier appraisal systems based on standard indicators

The recommendation is a complement to the Global MMOG/LE.

- → Global MMOG/LE supports self-evaluation of a plant's logistics capability
- → MMLKPIs measure the effectiveness of the logistics processes between parties







### **Example of benefits**

Improving the **supplier delivery accuracy** enables to **improve customer delivery accuracy** 

Improving the supplier delivery accuracy enables to reduce stock level

Improving quality of ASN enables to reduce receiving cost

Improving quality of labels enables to improve inventory accuracy (mislabelling...)

Improving respect of packaging specification enables to reduce labor over cost (repackaging...)

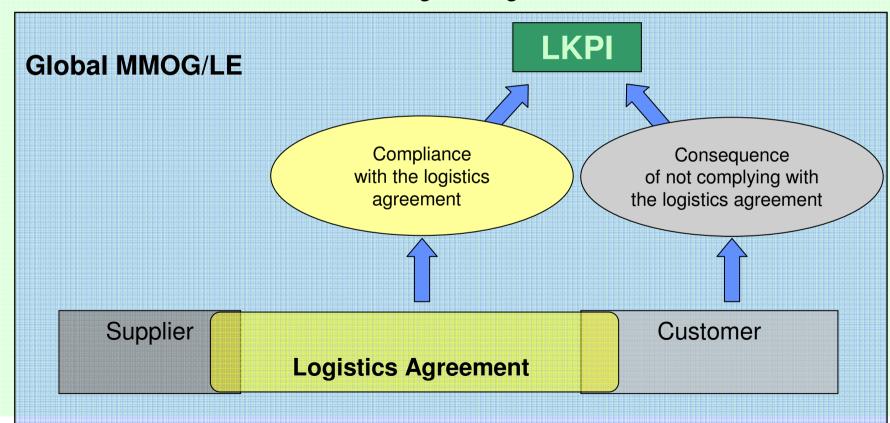


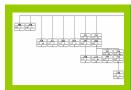


#### Role of the recommendation

The LKPI recommendation defines standard indicators measuring the effectiveness of the logistic shipping processes of the Supplier

It measures the adherence to the logistics agreement



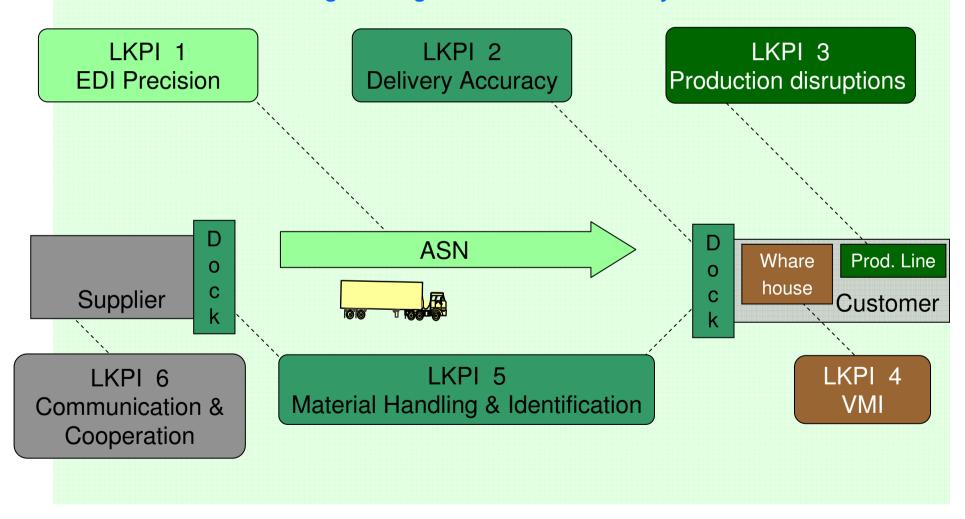


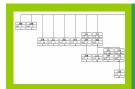
Global Materials Management and Logistics Key Performance Indicators



### **Description of the indicators**

The adherence to the Logistics Agreement is measured by 6 indicators









#### **EDI Precision**

Definition: EDI precision measures the Presence and Accuracy of ASNs

#### Presence:

Two things must function in order to receive EDI messages correctly: 1 The EDI communication must work.



2 The syntax (structure) of the data in the received file must be correct.

UNB+UNOA: 1+00013000015BEHR2: OD....

UNH+1+AVIEXP:3::OD' MID+823057+030709:0945'

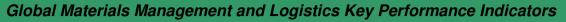
CDT+:::::BX35D' SDT+::::: BX35D'

CSG+:::::BS8CA+086+086GIBBS'

DTR+GP-KS 771+GHEMAR-S' ARD+30636905+3:PCE

#### Accuracy:

3 The actual data must be correct compared to the real shipment

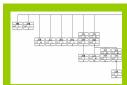


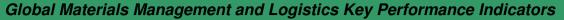


## **Delivery Accuracy**

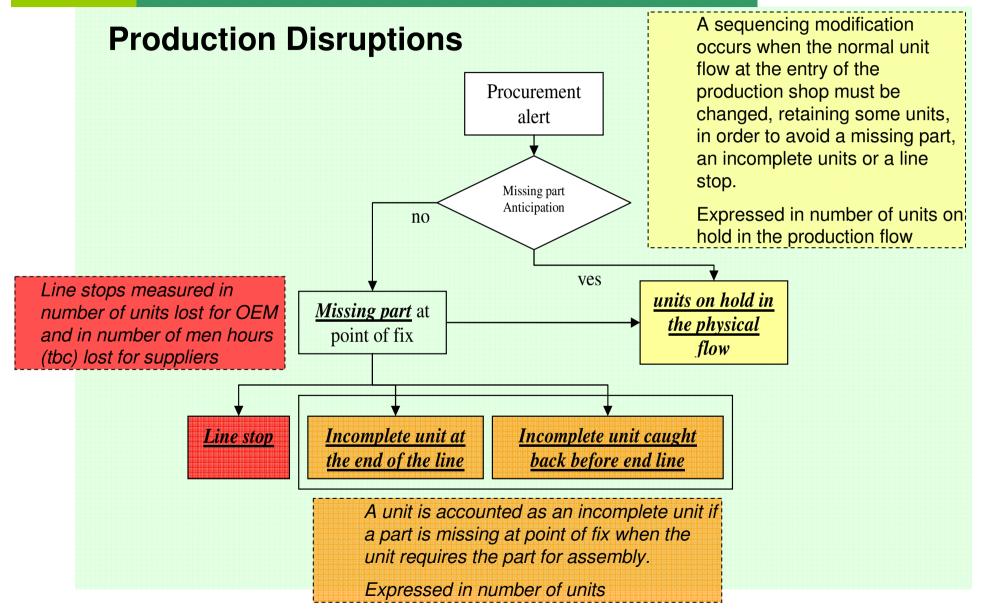
#### **Definition:**

- The Delivery Accuracy indicator measures the compliance of the order regarding quantity and time, according to Logistics Agreement and the supply conditions.
- Scope: The indicator can be applied when the call-off is expressed in terms
  of firm quantity & time slot.
- For each part number, with a quantity, a time slot and the place to deliver agreed between parties, the order is classified
  - > as OK if all criterias (quantity, time slot, place to deliver) are OK
  - as not OK if any of those have failed













## **Vendor Managed Inventory**

#### **Definition**

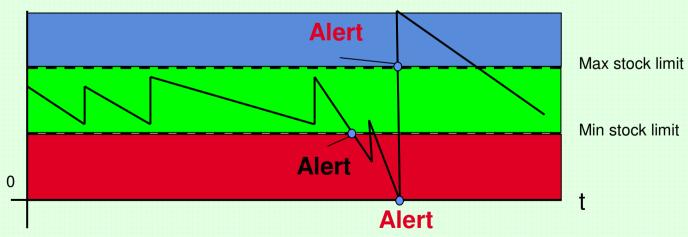
Indicator based on stock alerts. Stock is measured at each stock movement:

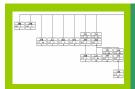
3 types of alerts (in order of gravity): > Max

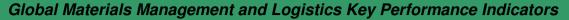
< Min

zero stock

### Qty.





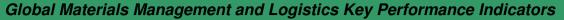




## **Material Handling & Identification**

#### **Definition:**

- The Material handling and identification indicator measures 4 types of specifications:
  - Packaging specification
  - Labelling specification
  - Delivery document specification
  - > Transport specification
- Demerit-points are associated at each non-conformity



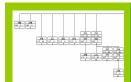


## **Communication & Cooperation**

#### **Definition:**

Measures the Supplier performance on the following processes:

- Reception of Customer requirements
- Handling of logistics incidents
- Cooperation with logistics projects
- •Self-sufficiency: Capacity of a Supplier to understand and apply the logistics processes as defined in the Logistics Agreement
- •Reliability: Quality of the effectiveness of the action plan
- •Responsiveness: Conformity with the required time set by counting late response
- •Supplier Problem notification: Ability to notify problems in advance
- •Availability: Facility to contact the Supplier's contact person
- •Flexibility: Flexibility of the Supplier in case of order changes





#### Global Materials Management and Logistics Key Performance Indicators

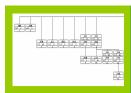
N°	Indicator	Main criteria	Sub criteria		
1	ASN Performance	Presence/Timeliness			
	ASIVI enormance	Accuracy			
2		Quantity	Actual delivery quantity versus requirement		
	Delivery Accuracy	Timeslot	Actual delivery time versus requirement		
		Delivery Point	Actual delivery point versus requirement		
		Part number	Actual part number versus requirement		
3	VMI		Sum of days between Min/Max divided by total time span		
3	VIVII		Sum (# alert type x grade x weight)/Sum(# alert type x weight) x 100		
4	Material Handling and - Identification		Compliance with packaging design		
		Packaging	Compliance with Quantity		
			Cleanliness/Damaged Packaging/Safety		
			Label not readable		
		Labelling	Mislabelling		
			Non-conform label; Missing or incorrect data or logo		
			Accuracy of data (Purchase Part number) on Delivery Note		
			Quantity delivered < > Quantity on Delivery Note or ASN		
		Delivery documents	Parts delivered without Delivery Notes		
			Compliance with specified Delivery Note template		
			Specific delivery documents missing (customs, control report)		
		Unloading/Loading	Compliance with loading/unloading specification		
		Officading/Loading	Compliance with safety specifications		
5	Production Disruption	Production Schedule Modifications	Number of Production schedule modifications		
		1 Toduction Schedule Wodincations	Units on hold on the physical flow		
		Incomplete Units at point of fix	Incomplete unit at the end of line		
		incomplete offits at point of fix	Incomplete unit held back before end of line		
		Lines stop			
	Supplier's communication and collaboration	Self Sufficiency	Does Supplier understand Customer needs, manage business?		
		Reliability	Is concern a repeat concern?		
		Responsiveness	Is response to request to Customer demand or response to concern		
		rtesponsiveness	late/overdue		
	tion and conaboration	Availability	Is Supplier contact/contact person readily available?		
		Problem Notification	Does the Supplier understand Customer need?		
		Flexibility	Is the Supplier flexible to Customer needs and ordering demands?		

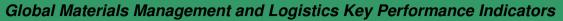




## **Achievements/Next Steps**

- → Global MMLKPI recommendation Agreed
- → Logistics Functional Committee validation November 2006
- → ODETTE board validation December 2006
- → Publication by year end 2006
- → Common training kit for Global MMOG/LE and MMLKPI
- → KPI project on Logistics Service Provider performance started







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