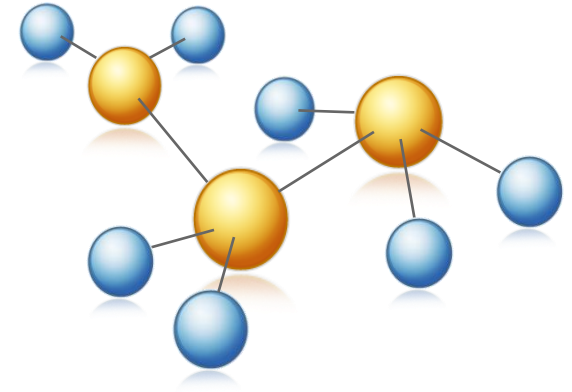


Supply Chain Analytics

SCM Business Object Adoption



Christine Meyer

Suite Solution Management SCM

SAP

October 2009

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Embedded Analytics for SCM

Business Suite 7 Innovation 2010e

SAP EHP1 for SCM 7.0

SAP EHP2 for Netweaver 7.0

Shipment:

Business Suite 7 Innovation 2010e

SAP EHP1 for SCM 7.0

SAP EHP2 for Netweaver 7.0

Role:

Warehouse Analyst

Business Function:

n/a

Productized Use Cases using Business Objects BI Tools on Top of SAP SCM



Business Object Adoption

BS7i2010e delivers BOBJ content as standard without SDN download required in BS7



Based on BW Data

Using XCelsius

Using Crystal Reports

Crystal Reports for eWM Volume Analysis long-term



- **Role:**
Warehouse Analyst responsible for one warehouse or across several warehouses.

	Description
1	Volume Analysis - Warehouse Tasks by month
2	Volume Analysis - Warehouse Tasks per Warehouse and by month
3	Volume Analysis - Delivery Items by month
4	Volume Analysis - Inbound Delivery Items by month
5	Volume Analysis - Outbound Delivery Items by month

- **Long-term:**
A user can drill down into Volume Analysis Reports.
Depending on the focus
(Warehouse task, Inbound or Outbound Delivery, Delivery)
the drill down path varies.
The following KeyPerformanceIndicators (KPIs) are displayed:
Number of Warehouse Tasks / Number of Documents & Number of Items,
Quantity,
Volume,
Weight

Warehouse Management Analysis (long-term) Example



Volume Analysis - Delivery Items

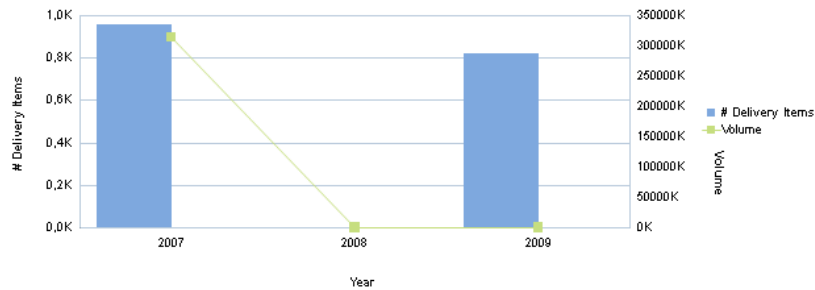
Page 1 of 1

Printed by: on 09.10.2009

Selection Criteria

Warehouse(s):

Year(s):



Year	# Delivery Items	Quantity	Volume	Weight
2007	959,00	1.950.347,00 ST	313.529.183,00 M3	2.086.319,00 KG
2008	2,00	20,00 EA	100,00 CCM	100,00 KG
2009	819,00	92.883,00 ST	336.397,00 MM3	530.000.407.022,04 KG
Grand Total	1.780,00	2.043.250,00 ST	313.865.680,00 MM3	530.002.493.441,04 KG



Volume Analysis - Delivery Items

Page 1 of 1

Printed by: on 09.10.2009

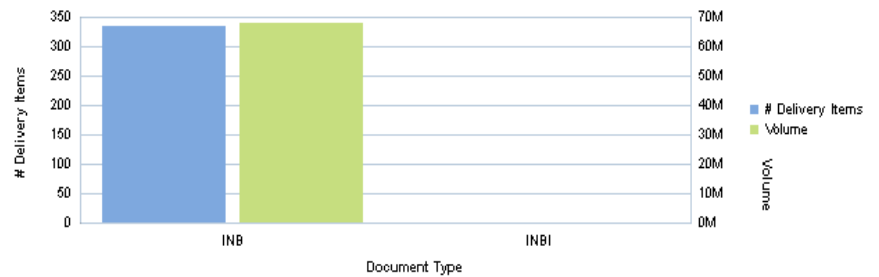
Selection Criteria

Year: 2007

Month: 04

Warehouse: SPM EWM US 2

Document Category: PDI



Document Type	# Delivery Items	Quantity	Volume	Weight
INB	334,00	297.914,00 ST	67.698.219,00 CCM	108.091,00 KG
INBI	1,00	1,00 ST	1,00 M3	10,00 KG
Grand Total	335,00	297.915,00 ST	67.698.220,00 M3	108.101,00 KG

Crystal Reports for eWM Volume Analysis mid-term



- **Role:**
Warehouse Analyst responsible for one warehouse or across several warehouses.

	Description
1	Volume Analysis - Warehouse Tasks by day
2	Volume Analysis - Warehouse Tasks per Warehouse and by day
3	Volume Analysis - Delivery Items by day
4	Volume Analysis - Inbound Delivery Items by day
5	Volume Analysis - Outbound Delivery Items by day

- **Mid-term:**
A user can drill down into Volume Analysis Reports.
Depending on the focus
(Warehouse task, Inbound or Outbound Delivery, Delivery)
the drill down path varies.
The following KeyPerformanceIndicators (KPIs) are displayed:
Number of Warehouse Tasks / Number of Documents & Number of Items,
Quantity,
Volume,
Weight

Warehouse Management Analysis (mid-term) Example

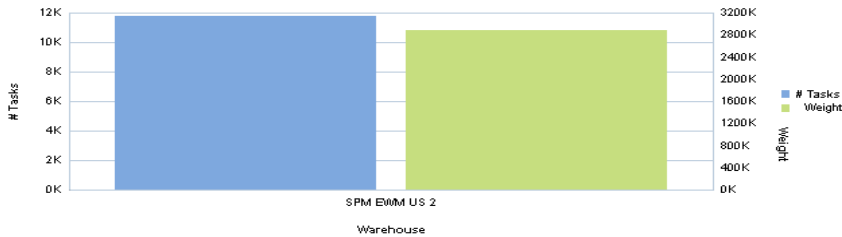


Volume Analysis - Warehouse Tasks per Warehouse

Page 1 of 1
Printed by: on 09.10.2009

Selection Criteria

Warehouse(s):
Year(s):



Warehouse	# Task	Quantity	Volume	Weight
SPM EWM US 2	11.805,00	2.496.701,00 *	13.178,17 M3	2.883.429,04 KG
Grand Total	11.805,00	2.496.701,00 ST	13.178,17 M3	2.883.429,04 KG



Volume Analysis - Warehouse Tasks per Warehouse

Page 1 of 1
Printed by: on 09.10.2009

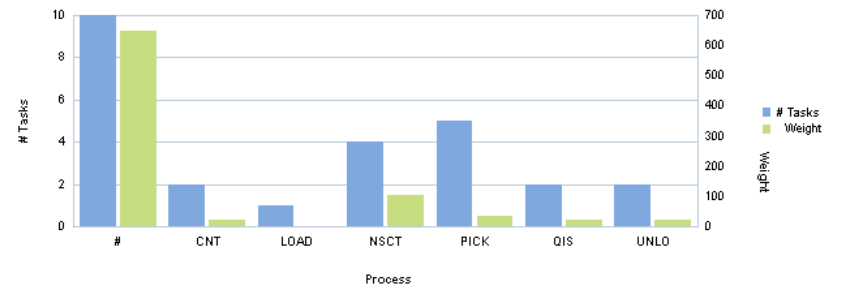
Selection Criteria

Warehouse: SPM EWM US 2

Year: 2007

Month: 04

Day: 05.04.2007



Process	# Task	Quantity	Volume	Weight
#	10,00	0,00 EA	11,00 M3	650,00 KG
CNT	2,00	10,00 EA	0,20 M3	20,00 KG
LOAD	1,00	0,00 EA	0,00 M3	0,00 KG
NSCT	4,00	0,00 EA	1,00 M3	105,00 KG
PICK	5,00	1,00 ST	0,00 M3	36,00 KG
QIS	2,00	10,00 EA	0,20 M3	20,00 KG
UNLO	2,00	10,00 EA	0,20 M3	20,00 KG
Grand Total	26,00	31,00 EA	12,60 M3	851,00 KG

Labor Management Dashboard: Executed Workload (long-term)



- **Role:**
Warehouse Analyst responsible for one warehouse.

	Description
1	Labor Management Dashboard - Executed Workload

- **A user can select a time period range, warehouse and activity area to drill down into the Labor Management Dashboard.**

The Xcelsius Dashboard displays details on volume / weight and actual / plan duration (hours) in graphical display to further drill down to individual processor and external step.

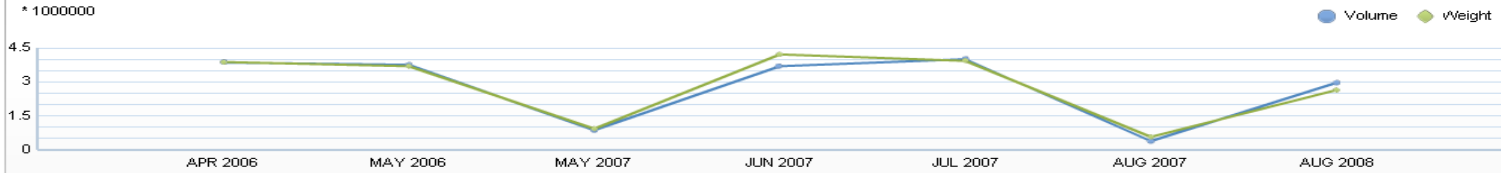
Labor Management Dashboard



Labor Management

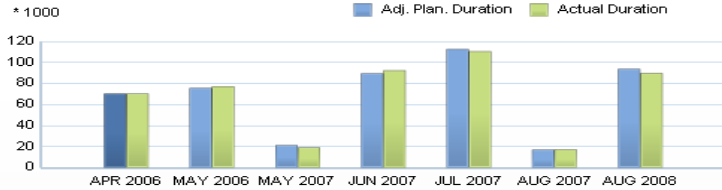
From To Warehouse Activity Area Refresh Last Update Fri Oct 09 2009

Volume (m3) / Weight (kg) by Month

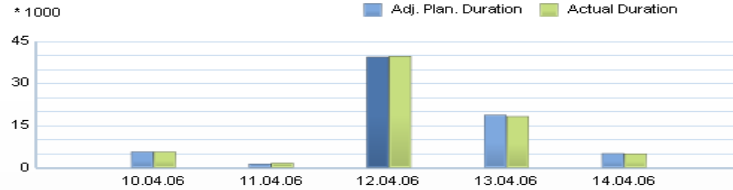


Actual vs. Planned Duration (hrs)

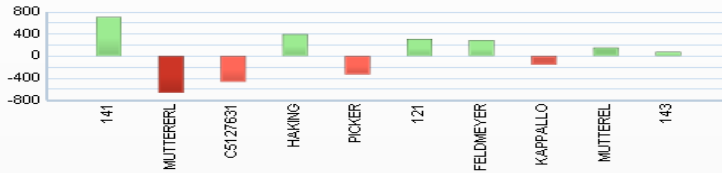
by Month



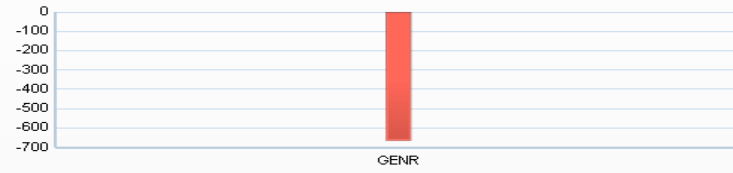
Of APR 2006 by Day



Top / Bottom 30 Deltas in 12.04.2006 by Processor



Of MUTTERERL by External Step



SAP eWM Screenshots

Business Suite 7 Innovation 2010e

SAP EHP1 for SCM 7.0

SAP EHP2 for Netweaver 7.0

Crystal Reports

0WM_MP05_Q0001

0WM_MP06_Q0002

Xcelsius Dashboard

0WM_MP03_Q0002

0WM_MP03_Q0003

Volume Analysis - Warehouse Tasks per Period (long/ mid-term)

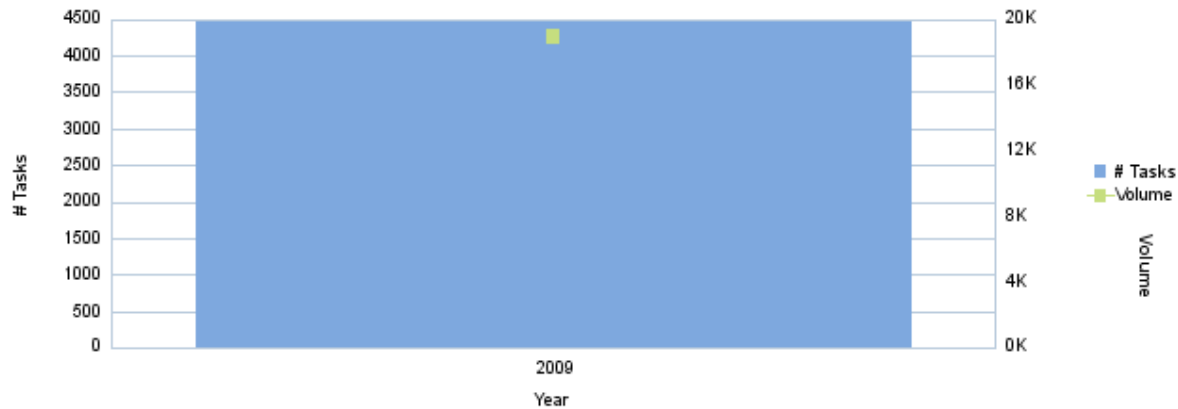


Volume Analysis - Warehouse Tasks by Day

Selection Criteria

Warehouse(s):

Year(s):



Year	# Task	Quantity	Volume	Weight
2009	4,485.00	86,404.00 PC	19,029.75 M3	130,000,954,491.180
Grand Total	4,485.00	86,404.00 PC	19,029.75 M3	130,000,954,491.180

Volume Analysis - Warehouse Tasks per Period (long-term)



Volume Analysis - Warehouse Tasks by Month

Page 1 of 1

Printed by: D029918 on 22/04/2010

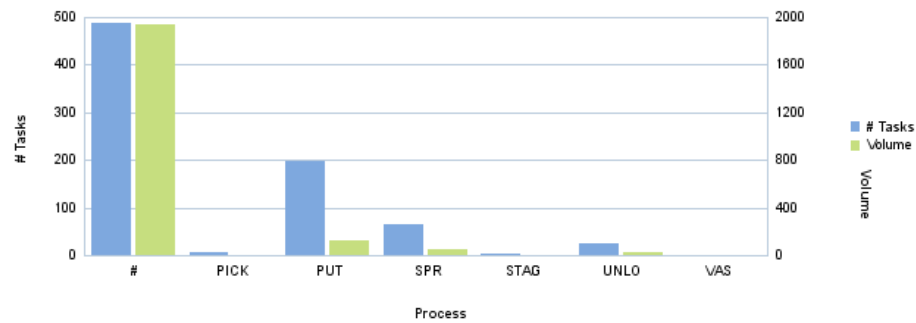
Selection Criteria

Year: 2009

Month: 07

Warehouse: Q1G1

Activity Area: #



Process	# Task	Quantity	Volume	Weight
#	491	1,987.50 *	1,955.57 M3	14,557.18 *
PICK	7	96.00 EA	3.00 M3	540.00 KG
PUT	197	2,083.00 *	125.50 M3	9,329.00 KG
SPR	65	516.00 EA	46.00 M3	3,690.00 KG
STAG	2	2.00 EA	3.00 M3	70.00 KG
UNLO	26	418.00 EA	22.01 M3	22,475.00 KG
VAS	1	10.00 EA	1.00 M3	70.00 KG
Total	789	5,112.50 EA	2,156.08 M3	50,731.18 KG

Volume Analysis - Warehouse Tasks per Period (mid-term)



Volume Analysis - Warehouse Tasks by Day

Page 1 of 1

Printed by: D029916 on 22/04/2010

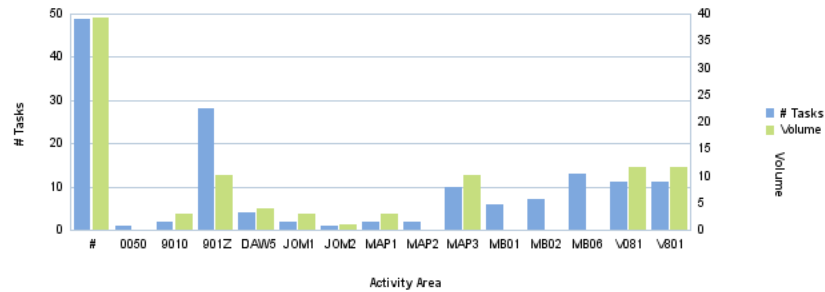
Selection Criteria

Year: 2009

Month: 07

Day: 22.07.2009

Warehouse: Q1G1



Activity Area	# Task	Quantity	Volume	Weight
#	49.00	1,142.00 PC	39.50 M3	3,310.00 KG
0050	1.00	100.00 EA	0.00 M3	500.00 KG
9010	2.00	2.00 EA	3.00 M3	60.00 KG
901Z	28.00	324.00 EA	10.00 M3	1,880.00 KG
DAW5	4.00	20.00 EA	4.00 M3	180.00 KG
JOM1	2.00	2.00 EA	3.00 M3	60.00 KG
JOM2	1.00	2.00 EA	1.00 M3	20.00 KG
MAP1	2.00	8.00 EA	3.00 M3	100.00 KG
MAP2	2.00	24.00 EA	0.00 M3	120.00 KG
MAP3	10.00	108.00 EA	10.00 M3	800.00 KG
MB01	6.00	145.00 EA	0.00 M3	20,145.00 KG
MB02	7.00	155.00 EA	0.00 M3	20,155.00 KG
MB06	13.00	380.00 EA	0.01 M3	35,379.80 KG
V081	11.00	1,001.00 *	11.50 M3	2,230.00 KG
V801	11.00	1,001.00 *	11.50 M3	2,230.00 KG
Total	149.00	4,414.00 PC	96.52 M3	87,169.80 KG

Volume Analysis - Warehouse Tasks per Period (mid-term)



Volume Analysis - Warehouse Tasks by Day

Page 1 of 1

Printed by:D029916 on 22/04/2010

Selection Criteria

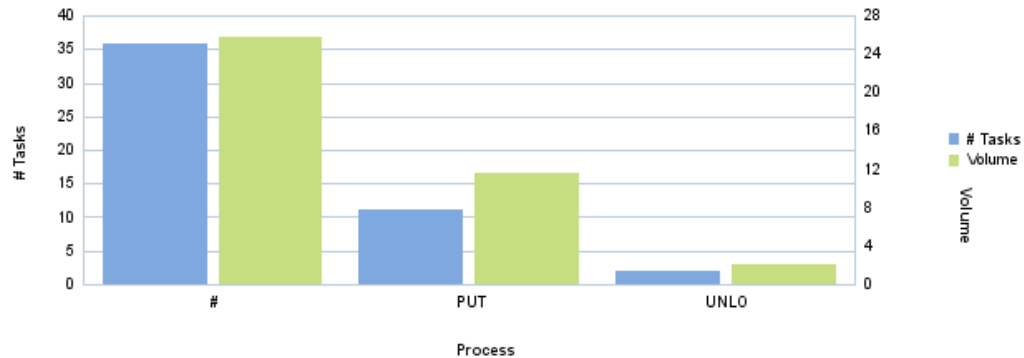
Year: 2009

Month: 07

Day: 22.07.2009

Warehouse: Q1G1

Activity Area: #



Process	# Task	Quantity	Volume	Weight
PUT	11.00	1,001.00 *	11.50 M3	2,230.00 KG
UNLO	2.00	10.00 EA	2.00 M3	90.00 KG
#	36.00	131.00 PC	26.00 M3	990.00 KG
Total	49.00	1,142.00 PC	39.50 M3	3,310.00 KG

Volume Analysis - Warehouse Tasks per Warehouse (long/ mid-term)



Volume Analysis - Warehouse Tasks per Warehouse and by Day

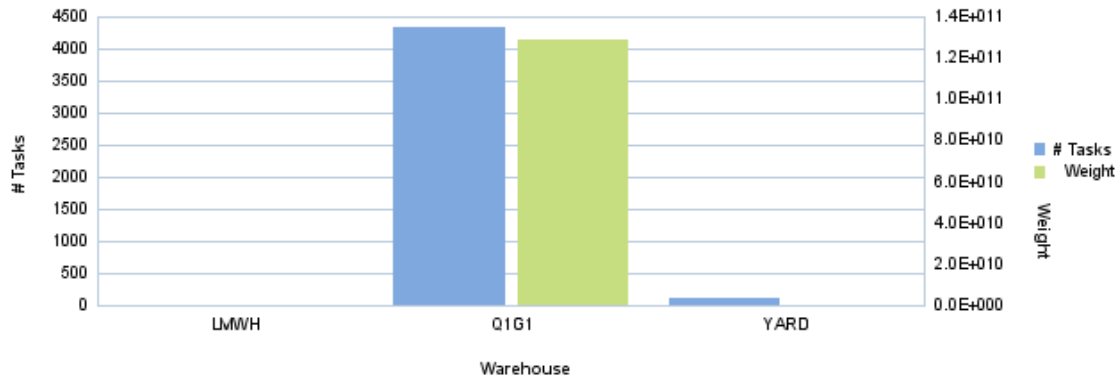
Page 1 of 1

Printed by:D029916 on 22/04/2010

Selection Criteria

Warehouse(s):

Year(s):



Warehouse	# Task	Quantity	Volume	Weight
LMWH	5	25.00 EA	0.00 M3	125.00 KG
Q1G1	4,362	86,379.00 EA	17,437.75 M3	130,000,951,631.13 KG
YARD	118	0.00	1,592.00	2,735.00
Grand Total	4,485	86,404.00	19,029.75	130,000,954,491.13 KG

Volume Analysis - Warehouse Tasks per Warehouse (long-term)



Volume Analysis - Warehouse Tasks per Warehouse and by Month

Page 1 of 1

Printed by:D029916 on 22/04/2010

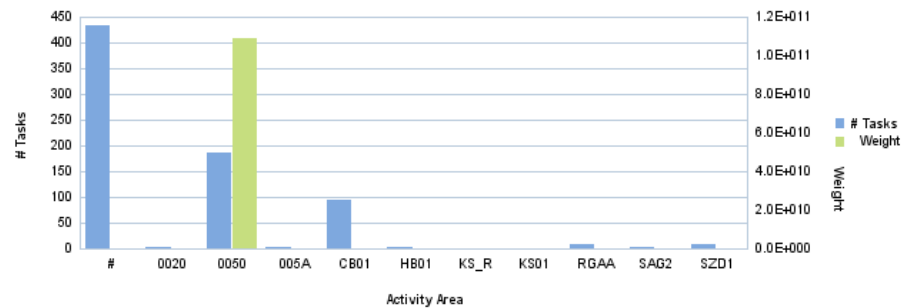
Selection Criteria

Warehouse: Q1G1

Year: 2009

Month: 05

Process: #



Activity Area	# Task	Quantity	Volume	Weight
#	437	5,440.50 *	9,779.70 M3	49,905.82 *
0020	2	30.00 *	0.00 M3	200.00 KG
0050	187	4,657.50 *	270.50 M3	110,000,010,617.50 KG
005A	2	28.00 EA	28.00 M3	28.00 KG
CB01	95	534.00 EA	2.00 M3	2,830.00 KG
HB01	3	3,000.00 EA	0.02 M3	15,000.00 KG
KS_R	1	0.00 EA	1.00 M3	45.00 KG
KS01	1	5.00 EA	1.00 M3	45.00 KG
RGAA	8	24.00 EA	14.00 M3	64.00 KG
SAG2	3	30.00 EA	3.00 M3	210.00 KG
SZD1	8	40.00 EA	8.00 M3	360.00 KG
Total	747	13,789.00 EA	10,107.22 M3	110,000,079,305.32 KG

Volume Analysis - Warehouse Tasks per Warehouse (mid-term)



Volume Analysis - Warehouse Tasks per Warehouse and by Day

Page 1 of 1

Printed by: D029916 on 22/04/2010

Selection Criteria

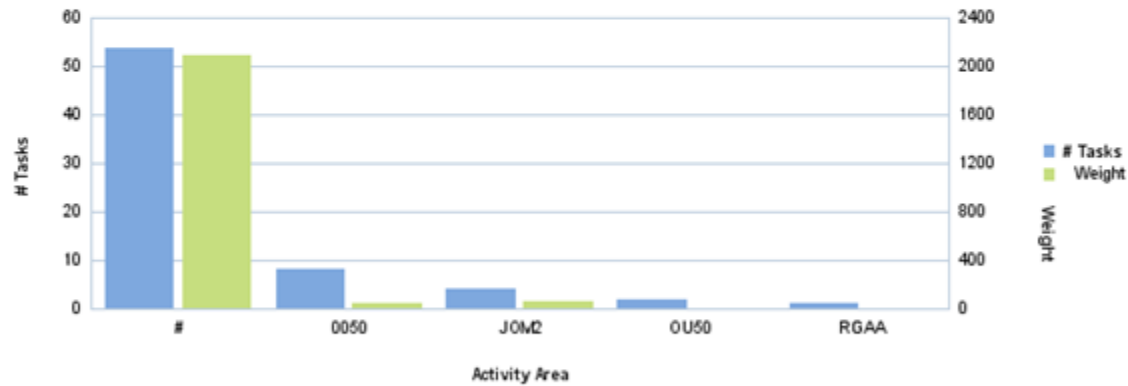
Warehouse: Q1G1

Year: 2009

Month: 07

Day: 09.07.2009

Process: #



Activity Area	# Task	Quantity	Volume	Weight
0050	8	8.00 EA	0.00 M3	45.00 KG

Volume Analysis - Delivery Items (long/ mid-term)



Volume Analysis - Delivery Items by Day

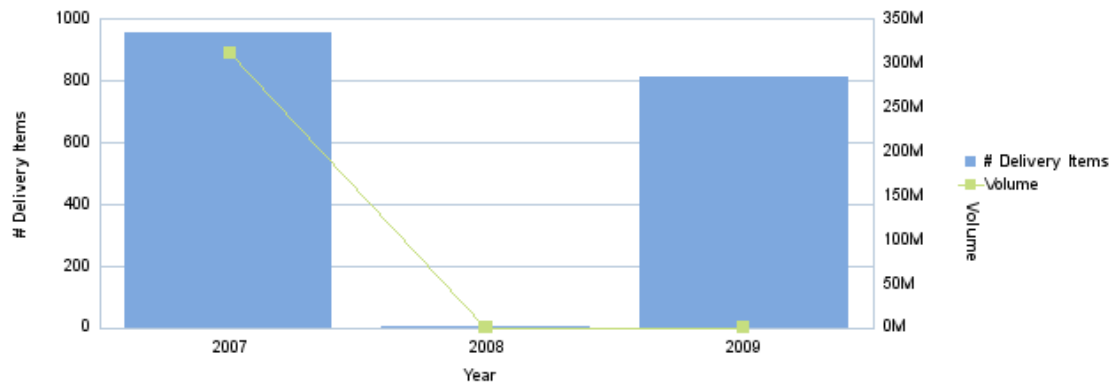
Page 1 of 1

Printed by:D029916 on 22/04/2010

Selection Criteria

Warehouse(s):

Year(s):



Year	# Delivery Items	Quantity	Volume	Weight
2007	959.00	1,950,347.00 PC	313,529,183.00M3	2,086,319.00 KG
2008	2.00	20.00 EA	100.00 CCM	100.00 KG
2009	819.00	92,883.00 PC	336,397.00 MM3	530,000,407,022.04 KG
Grand Total	1,780.00	2,043,250.00 PC	313,865,680.00MM3	530,002,493,441.04 KG

Volume Analysis - Delivery Items (long-term)



Volume Analysis - Delivery Items by Month

Page 1 of 1

Printed by: D029916 on 22/04/2010

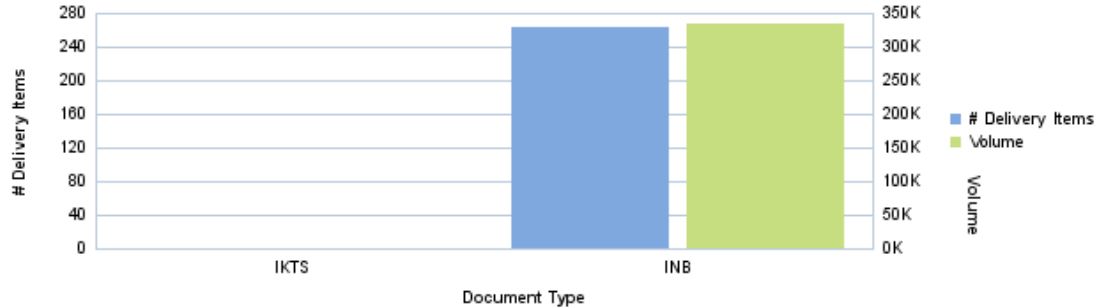
Selection Criteria

Year: 2007

Month: 03

Warehouse: SPM EWM US 2

Document Category: PDI



Document Type	# Delivery Items	Quantity	Weight
IKTS	1	3.00 EA	36.00 KG
INB	265	655,334.00 *	993,932.00 *
Total	266	655,337.00 EA	993,968.00 KG

Volume Analysis - Delivery Items (mid-term)



Volume Analysis - Delivery Items by Day

Page 1 of 1

Printed by: D029916 on 22/04/2010

Selection Criteria

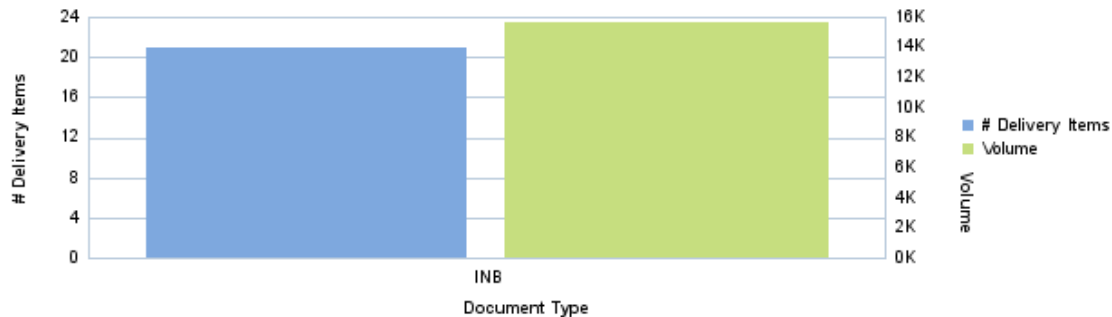
Year: 2009

Month: 07

Day: 20.07.2009

Warehouse: Q1G1

Document Category: PDI



Document Type	# Delivery Items	Quantity	Volume	Weight
INB	21.00	3,196.00 *	15,780.00 CCM	15,830.00 KG
Total	21.00	3,196.00 *	15,780.00 CCM	15,830.00 KG

Volume Analysis - Inbound Delivery Items (long/ mid-term)



Volume Analysis - Inbound Delivery Items by Day

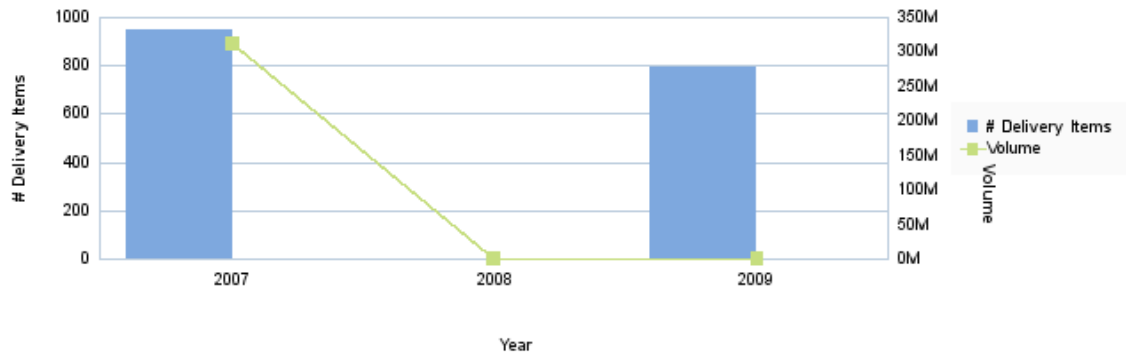
Page 1 of 1

Printed by:D029916 on 22/04/2010

Selection Criteria

Warehouse(s):

Year(s):



Year	# Delivery Items	Quantity	Weight	Volume
2007	959	1,950,347.00 PC	2,086,319.00 KG	313,529,183.00 L
2008	2	20.00 EA	100.00 KG	100.00 CCM
2009	798	89,797.00 EA	500,000,379,675.40 KG	320,458.5
Grand Total	1,759	2,040,164.00 EA	500,002,466,094.40 KG	313,849,741.50

Volume Analysis - Inbound Delivery Items (long-term)



Volume Analysis - Inbound Delivery Items by Month

Page 1 of 1

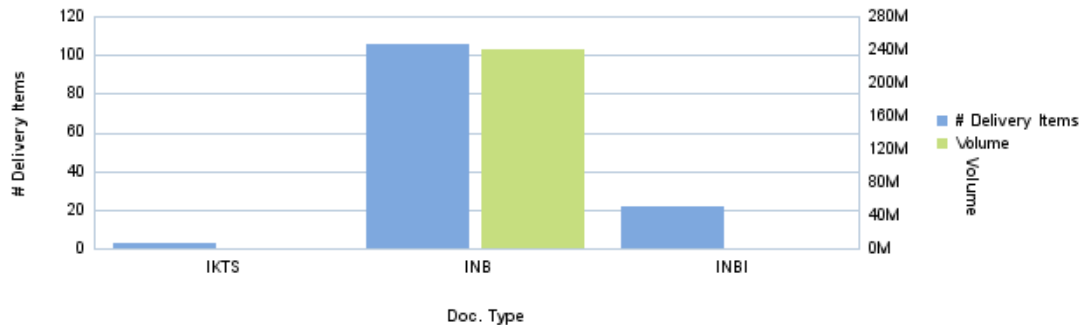
Printed by: D029916 on 22/04/2010

Selection Criteria

Year: 2007

Month: 02

Ship-From Party: #



Doc. Type	# Delivery Items	Quantity	Weight	Volume
IKTS	3	7.00 EA	77.00 KG	2.00 CCM
INB	106	25,694.00 *	137,778.00 KG	240,037,909.00 *
INBI	22	339.00 EA	4,068.00 KG	0.00
Total	131	26,040.00 EA	141,923.00 KG	240,037,911.00

Volume Analysis - Inbound Delivery Items (mid-term)



Volume Analysis - Inbound Delivery Items by Day

Page 1 of 1

Printed by:D029916 on 22/04/2010

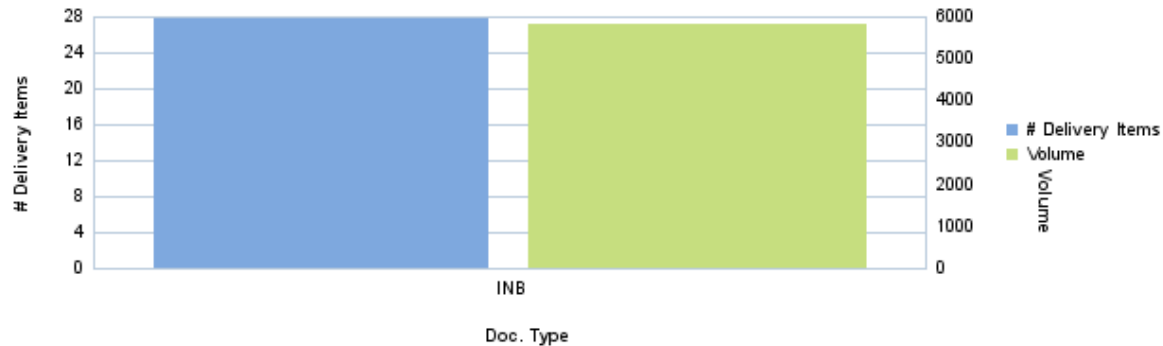
Selection Criteria

Year: 2007

Month: 04

Day: 12.04.2007

Ship-From Party: #



Doc. Type	# Delivery Items	Quantity	Weight	Volume
INB	28	1,241.00 *	6,030.00 KG	5,845.00 CCM
Total	28	1,241.00 *	6,030.00 KG	5,845.00 CCM

Volume Analysis - Outbound Delivery Items (long/ mid-term)



Volume Analysis - Outbound Delivery Items by Day

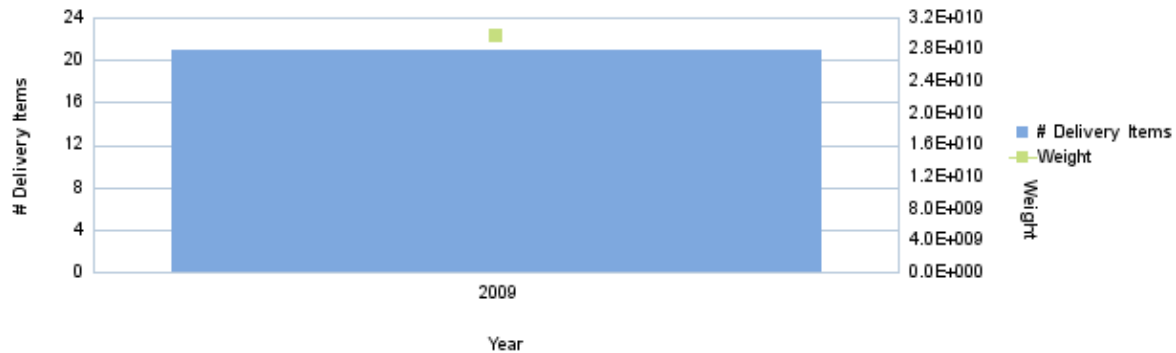
Page 1 of 1

Printed by:D029916 on 22/04/2010

Selection Criteria

Warehouse(s):

Year(s):



Year	# Delivery Items	Quantity	Weight	Volume
2009	21	3,086.00	30,000,027,346.64 KG	15,938.50
Grand Total	21	3,086.00	30,000,027,346.64 KG	15,938.50 CCM

Volume Analysis - Outbound Delivery Items (long-term)



Volume Analysis - Outbound Delivery Items by Month

Page 1 of 1

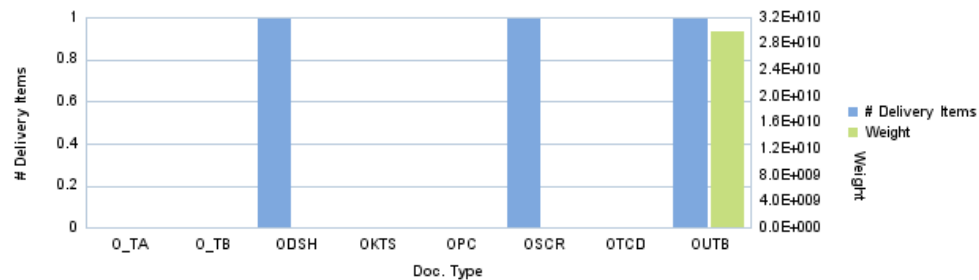
Printed by:D029916 on 22/04/2010

Selection Criteria

Year: 2009

Month: 04

Ship-To Party: #



Doc. Type	# Delivery Items	Quantity	Weight	Volume
O_TA	0	42.00	201.00 KG	237.00 CD3
O_TB	0	4.00	22.00 KG	26.00 CD3
ODSH	1	10.00	50.00 KG	50.00 CCM
OKTS	0	36.00	180.00 KG	180.00 CCM
OPC	0	38.00	76.00 KG	38.00 CCM
OSCR	1	407.00	2,035.00 KG	2,035.00 CCM
OTCD	0	51.00	255.00 KG	255.00 CCM
OUTB	1	1,162.00	30,000,016,813.61 KG	6,628.00 *
Total	3	1,750.00	30,000,019,632.61 KG	9,449.00 *

Volume Analysis - Outbound Delivery Items (mid-term)



Volume Analysis - Outbound Delivery Items by Day

Page 1 of 1

Printed by:D029916 on 22/04/2010

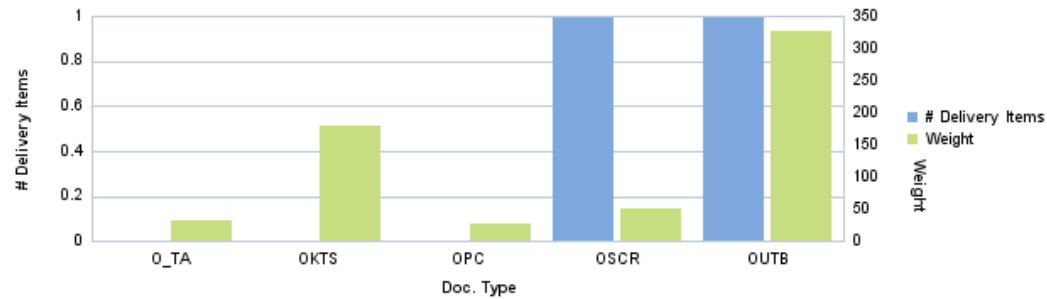
Selection Criteria

Year: 2009

Month: 04

Day: 22.04.2009

Ship-To Party: #



Doc. Type	# Delivery Items	Quantity	Weight	Volume
OKTS	0	36.00	180.00 KG	180.00 CCM
OPC	0	13.00	26.00 KG	13.00 CCM
OSCR	1	10.00	50.00 KG	50.00 CCM
OUTB	1	58.00	328.00 KG	328.00 *
O_TA	0	5.00	32.00 KG	40.00 CD3
Total	2	122.00	616.00 KG	611.00 CD3

Labor Management Dashboard - Executed Workload



Labor Management

From * To * Warehouse * Activity Area Refresh Last Update Nov 10 19:43:07 CET 2009

Please enter selection criteria. * Mandatory Fields

Volume (m3) / Weight (kg) by Month

*
6
5
4
3
2
1
0

Actual vs. Planned Duration (hours)

by Month **Of 0 by Day**

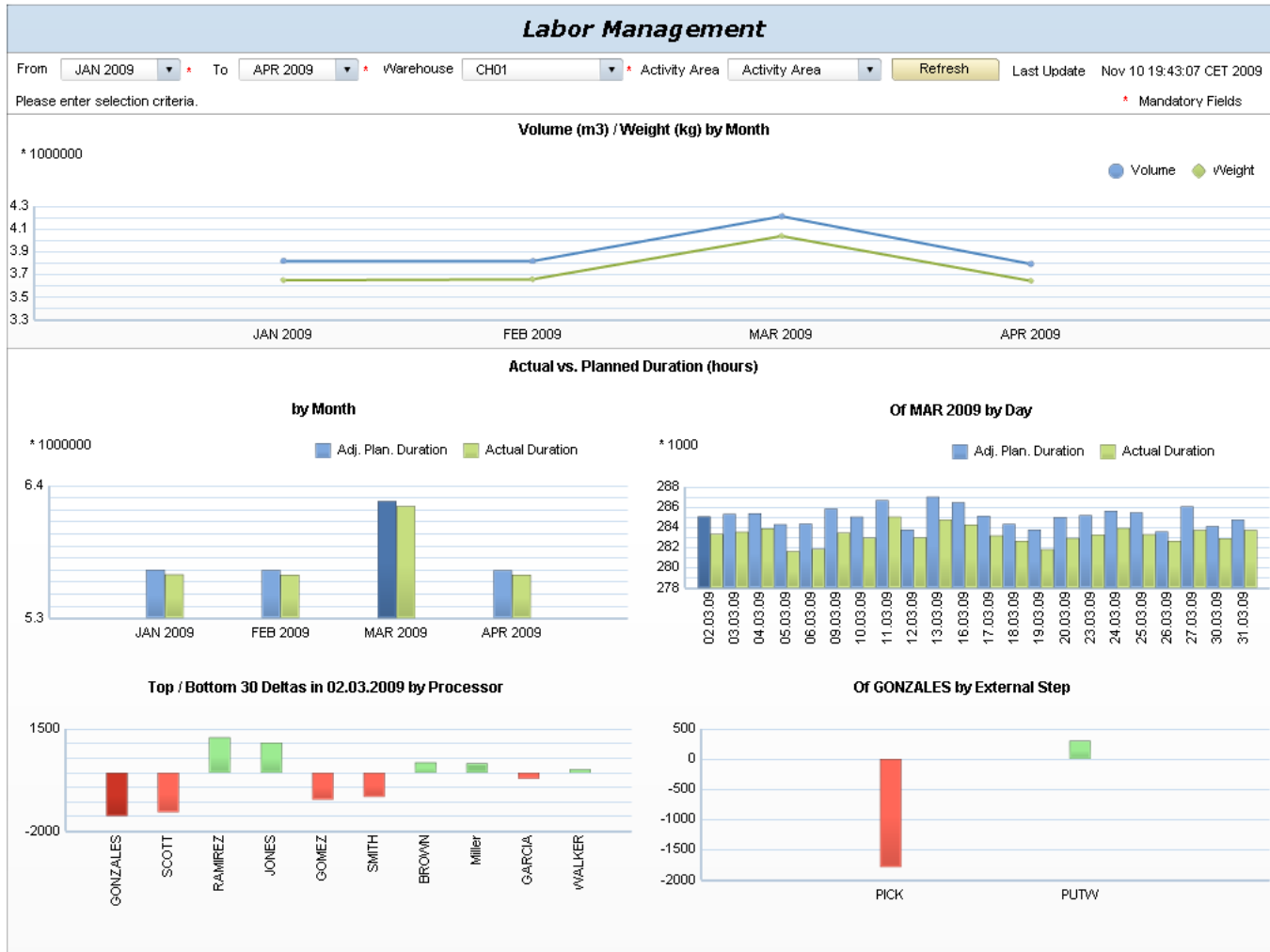
* *
6
5
4
3
2
1
0

Top / Bottom 30 Deltas in 0 by Processor **Of 0 by External Step**

6
5
4
3
2
1
0

6
5
4
3
2
1
0

Labor Management Dashboard - Executed Workload



Generic Info

SAP Service Marketplace

- www.sdn.sap.com/irj/sdn/bi

SAP Help Portal

- <http://help.sap.com>
 - SAP NetWeaver → BI Content → choose the appropriate support package

SAP Developer Network (SDN): www.sdn.sap.com

Business Process Expert (BPX) Community: www.bpx.sap.com

SAP BusinessObjects Community (BOC): www.sdn.sap.com/irj/boc

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