

Retail Matrix



Business Case White Paper

Creating competitive advantage for the retailer

Thursday, August 26, 2010

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Business case snapshot

This business case deals with the implementation of Retail Matrix. Retail Matrix makes sales intelligence simple. It extracts sales data from the host within user defined time intervals. This data is delivered to the manager's laptop where the data intelligence is performed.

The case is aimed to assist Retail stores with three strategic challenges of store optimization, resource utilization and shrinkage reduction.

Current impediments to these strategic goals include delivering the right data in a meaningful way to the right people at the right time. Data reporting currently is slow in a fixed format. If managers want to see reporting in different formats specialized reports often have to be requested.

Retail Matrix eliminates these data impediments delivering real sales intelligence as opposed to simple reporting in an interactive capability. Different intelligence views can easily be created on screen by the user.

The immediate benefits include

- *data time to user, updated daily allowing decisions to be meaningful*
- *specific data to specific users getting people to focus on what they need to do*
- *converting data into intelligence allowing for a more strategic approach to current retail activities*
- *low cost low resource implementation*
- *fast implementation*

Introduction

The goal of this business case aligns with the standard requirement of Retailers to provide innovative and value creating solutions to their customer base.

*This case is a focused methodology to assist retailers in their quest to optimize the core strategic objectives of **store optimization**, **resource utilization** and **shrinkage reduction**.*

The foundation of this business case is driven on flexibility of project scope, implementation speed and targeted goals.

Conditions precedent

The value offer is targeted at Retail stores who have three strategic challenges.

1. *Store Optimization. To optimize store performance by having the right merchandise at the right time*
2. *Resource Utilization. To empower its front line managers with the tools to ensure that their people resources are put to best use.*
3. *To reduce shrinkage. Through the use of technology, process and policy.*

On face value these challenges may be perceived as more operational in nature however they are the key ingredients to the Retail Store competitive landscape.

*There are many barriers to these strategic challenges, this business case mainly addresses the “management blind spot” barrier. The proposed solution is to enable the Retail Store manager to move towards **evidence based retailing** supporting the current “schedule base” retailing.*

*Common to many retailers, the methodology to replenish, merchandise and manage individual stores are policy or schedule driven. This ensures uniformity and control however it does not easily cater for decision flexibility or **opportunity identification**.*

*This is where the blind spot barrier plays a big part. Managers cannot respond and be proactive if they **don't know** there is a problem or opportunity that requires attention.*

The goal of this case study is to provide an easy yet effective way for the Retail Store manager to simplify the thousands of different trading variables into meaningful decision profiles enabling the platform for good decisions or at the minimum leading to value driven recommendations.

The methodology to achieve this is through an innovative management tool called Retail Matrix (see www.salesmatrix-usa.com).

Key benefits derived from the Retail Matrix application

- **Easy to use.** limiting disruption due to lengthy training time requirements
- **Flexible deployment.** It can focus on the individual store to a group of stores, a planogram across many stores or a product group across many stores.
- **Extracts sales data only.** No impact to day to day systems with zero data depository risk.
- **Targeted intelligence.** Different people can have different data sets depending on their needs or job responsibility.
- **Interactive.** All intelligence is screen driven, eliminating the need for customized reporting and the delay that comes from waiting for these reports.
- **Humanize real answers to real life questions.** Retail Matrix is real life question driven “where do I make the most money and with what product” or “what is my busiest time of day”
- **Customizable.** The ability to change behavior by asking specific questions to designated people” This enables forced thinking until behavior changes in the right direction.
- **Visual.** Making data easy to read

What is Retail Matrix?

Retail Matrix makes sales intelligence simple. It extracts sales data from the host within user defined time intervals. This data is delivered to the manager's laptop computer where the data intelligence is performed.

The foundation of Retail Matrix is based on three strategic questions

1. Where am I making or losing money?

Enabling focus on the money making segments be it volume, margin or unit driven. Conversely, identifying poor performance segments that may require management attention.

2. Where am I growing?

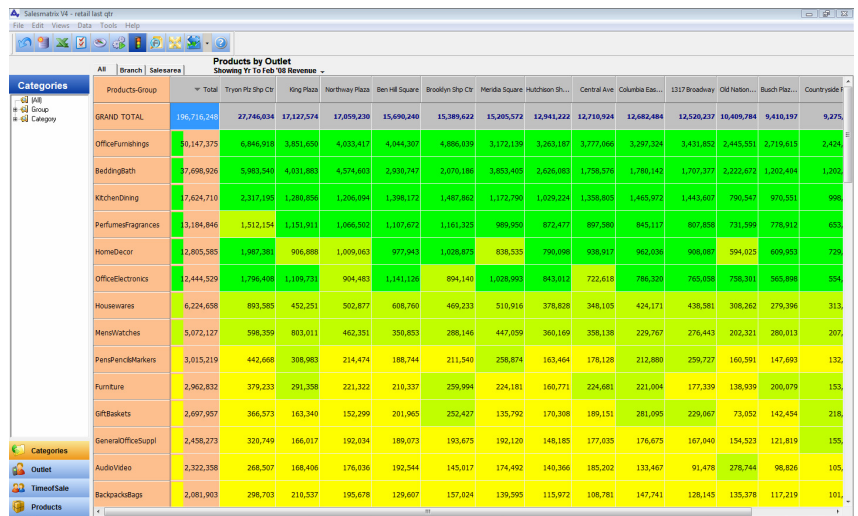
Placing resources on growth sectors

3. What are my opportunities?

Enabling proactive response based on evidence

The secret is in how retail matrix displays its data. The grid or matrix formatted within the two dimensions of rows and columns. The row information can be product driven and the related column dates can be time of day, day of week, weekend weekday, store by store, or specified category driven.

This allows the user to simply right click to change the view based on the related intelligence he or she requires.



The screenshot shows the Retail Matrix software interface. It features a menu bar (File, Edit, Views, Data, Tools, Help) and a toolbar. The main window displays a data grid titled 'Products by Outlet' for the period 'Showing Yr To Feb '08 Revenue'. The grid has columns for 'Categories' (Products-Group, GRAND TOTAL, OfficeFurnishings, BeddingBath, KitchenDining, PerfumesFragrances, HomeDecor, OfficeElectronics, Housewares, MensWatches, PensPencilsMarkers, Furniture, GiftBaskets, GeneralOfficeSuppl) and 'Outlets' (Total, Tyson Plz Shp Ctr, King Plaza, Northway Plaza, Ben Hill Square, Brooklyn Shp Ctr, Merida Square, Hutchison Sh..., Central Ave, Columbia Eas..., 1317 Broadway, Old Nation..., Bush Plaz..., Countryside...). The grid cells contain numerical values representing revenue. A traffic light system is used to highlight performance: green for positive, yellow for neutral, and red for negative. On the left side, there are three panels: 'Where are we making or losing money?', 'Where are we growing?', and 'Where are our opportunities?'. Each panel contains a list of questions and a 'Close' button.

Categories	Products-Group	GRAND TOTAL	OfficeFurnishings	BeddingBath	KitchenDining	PerfumesFragrances	HomeDecor	OfficeElectronics	Housewares	MensWatches	PensPencilsMarkers	Furniture	GiftBaskets	GeneralOfficeSuppl
Outlets	Total	27,746,834	17,127,574	17,859,238	15,690,240	15,389,622	15,285,572	12,941,222	12,710,924	12,682,484	12,526,237	10,409,784	9,410,197	9,227,151
Outlets	OfficeFurnishings	10,147,375	6,966,039	3,851,609	4,025,417	4,884,307	6,886,039	3,172,138	3,305,187	3,777,086	5,297,329	3,451,850	3,440,351	3,719,415
Outlets	BeddingBath	77,698,926	5,983,340	4,031,885	4,574,863	2,830,747	3,076,186	3,855,405	3,626,083	1,798,576	1,788,143	1,767,317	3,222,672	1,380,484
Outlets	KitchenDining	17,624,710	2,317,185	1,286,896	1,296,094	1,788,172	1,487,861	1,172,796	1,029,224	1,338,805	1,445,972	1,443,607	790,547	970,351
Outlets	PerfumesFragrances	13,184,846	1,512,154	1,191,915	1,966,262	1,107,673	1,161,323	989,605	872,477	807,880	843,117	897,836	731,899	779,312
Outlets	HomeDecor	12,805,583	1,987,381	986,888	1,009,063	977,343	1,026,875	818,535	796,008	808,917	942,036	986,087	594,023	669,953
Outlets	OfficeElectronics	12,444,520	1,796,408	1,149,731	904,483	1,141,126	894,140	1,028,960	843,012	722,618	786,320	765,036	750,361	965,998
Outlets	Housewares	6,224,658	893,385	452,231	502,877	608,760	409,233	510,916	378,828	348,105	424,171	438,581	368,262	279,396
Outlets	MensWatches	5,072,127	598,359	883,011	462,351	350,853	286,146	447,059	360,169	358,138	229,767	276,443	202,321	280,013
Outlets	PensPencilsMarkers	3,015,219	442,668	308,983	214,474	188,744	211,540	258,874	163,464	178,128	212,880	259,727	160,591	147,693
Outlets	Furniture	2,962,832	379,233	291,328	221,322	210,337	259,994	224,181	160,771	224,681	221,094	177,339	138,939	200,079
Outlets	GiftBaskets	2,697,957	366,573	163,340	152,299	201,965	252,427	135,792	170,308	180,151	281,095	229,967	73,052	142,454
Outlets	GeneralOfficeSuppl	2,456,273	320,749	166,017	192,034	189,073	193,675	192,120	148,185	177,035	176,675	167,640	154,523	121,819
Outlets	AudioVideo	2,322,358	288,507	188,406	176,036	192,344	145,017	174,402	140,368	185,202	133,467	91,478	276,744	96,626
Outlets	BackpacksBags	2,081,903	298,703	218,537	195,678	129,607	157,824	139,595	115,972	108,781	147,741	128,145	135,378	117,219

Sales performance diagnostics is enhanced through the traffic light system. This process highlights where outliers exist allowing quick prognosis either related to a required action or the decision to not to.

Either way the manager with the Retail Matrix tool has the power to make these decisions based on real evidence.

The value offer

The core strategic areas targeted with the Retail Matrix solution include.



Store optimization. Achieved through

- *Volume optimization*
- *Margin Optimization*

Driven by

- ✓ *Store group comparisons*
- ✓ *Product category performance within a single store and across a group of stores*
- ✓ *Trend analysis*
- ✓ *Price point profiling*



Resource utilization achieved through

- *Volume by time of day*
- *Volume by day of week*

Driven by

- ✓ *Unit volumes by product group*



Shrinkage reduction achieved through

- *Volume by time of day*
- *Volume by day of week*

Driven by

- ✓ *Unit volume variation by **high risk shrink** items*

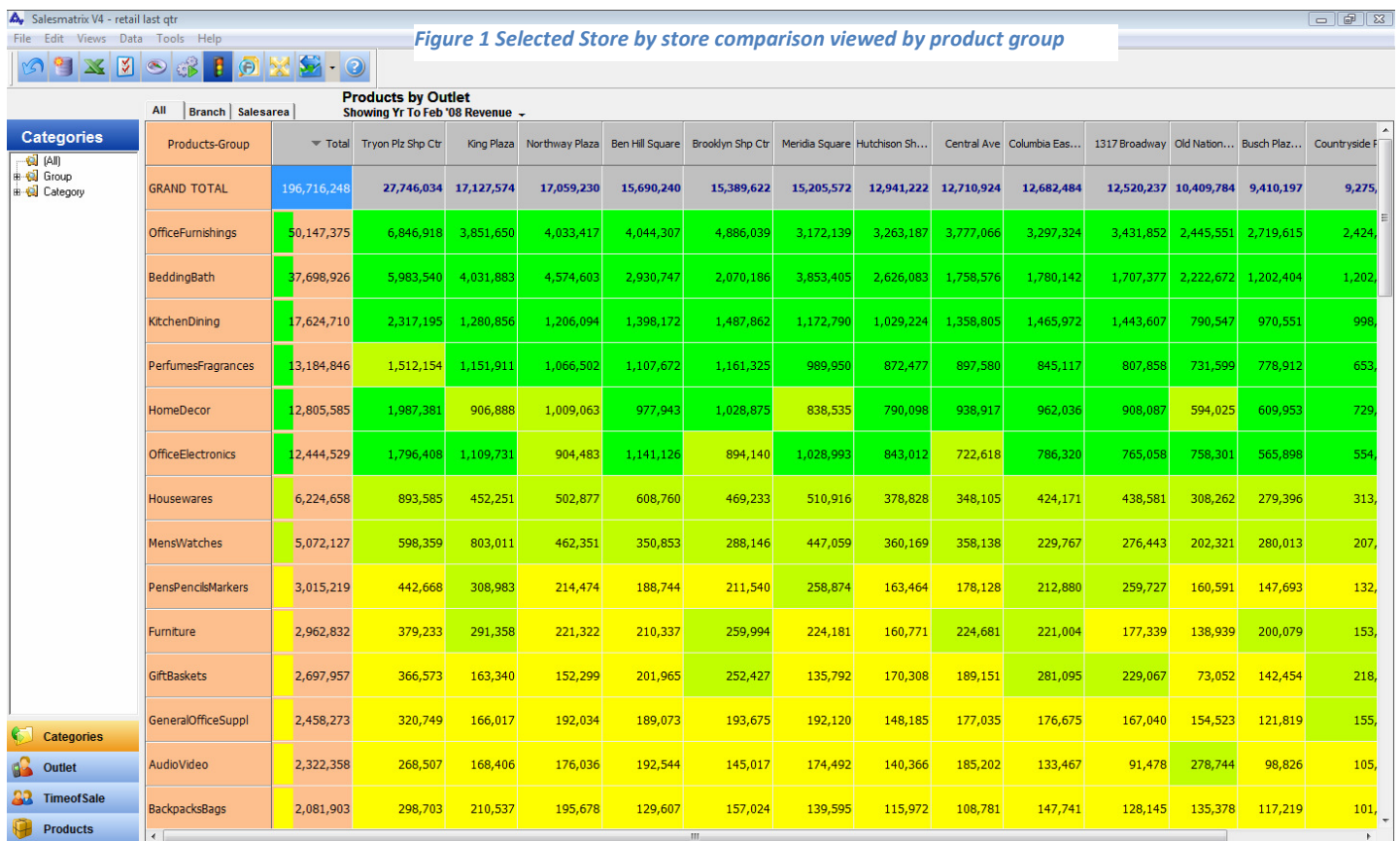
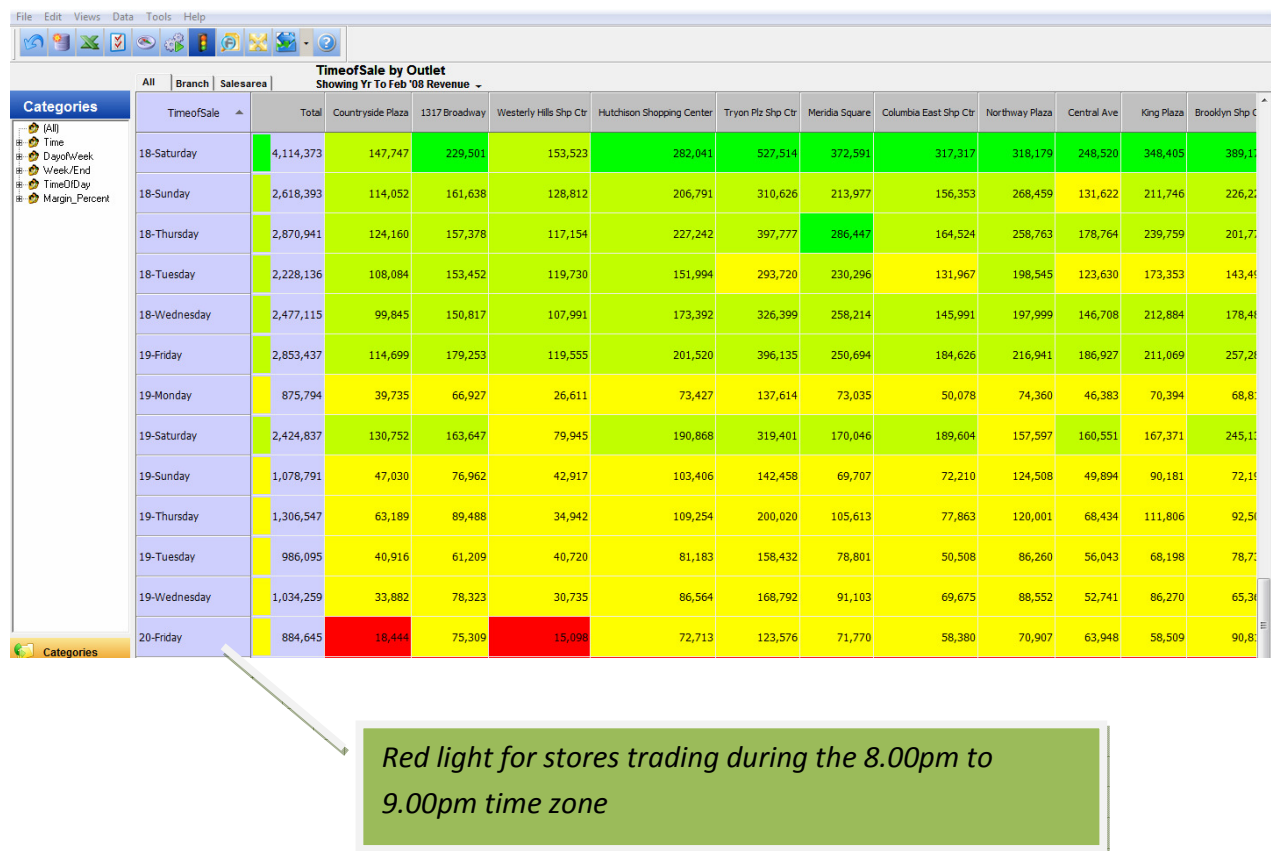


Figure 3. Store by store based on time of day trading



Figures 1 and 3 reflect different intelligence profiling which is achieved by right clicking as displayed in figure 2. Figure 2 further illustrates the simplicity of use allowing the same profile to be viewed by margin \$ or margin % or by units as the need may arise.

Revenue focus can then be alternated to the time of day view as shown in figure 3 allowing the initiation of various actions focused on optimizing volume during either low or high trading timeframes. This can also be most useful when aligning resources at peak and off peak timeframes.

Figure 4. Click on the question and Retail Matrix automates the answer

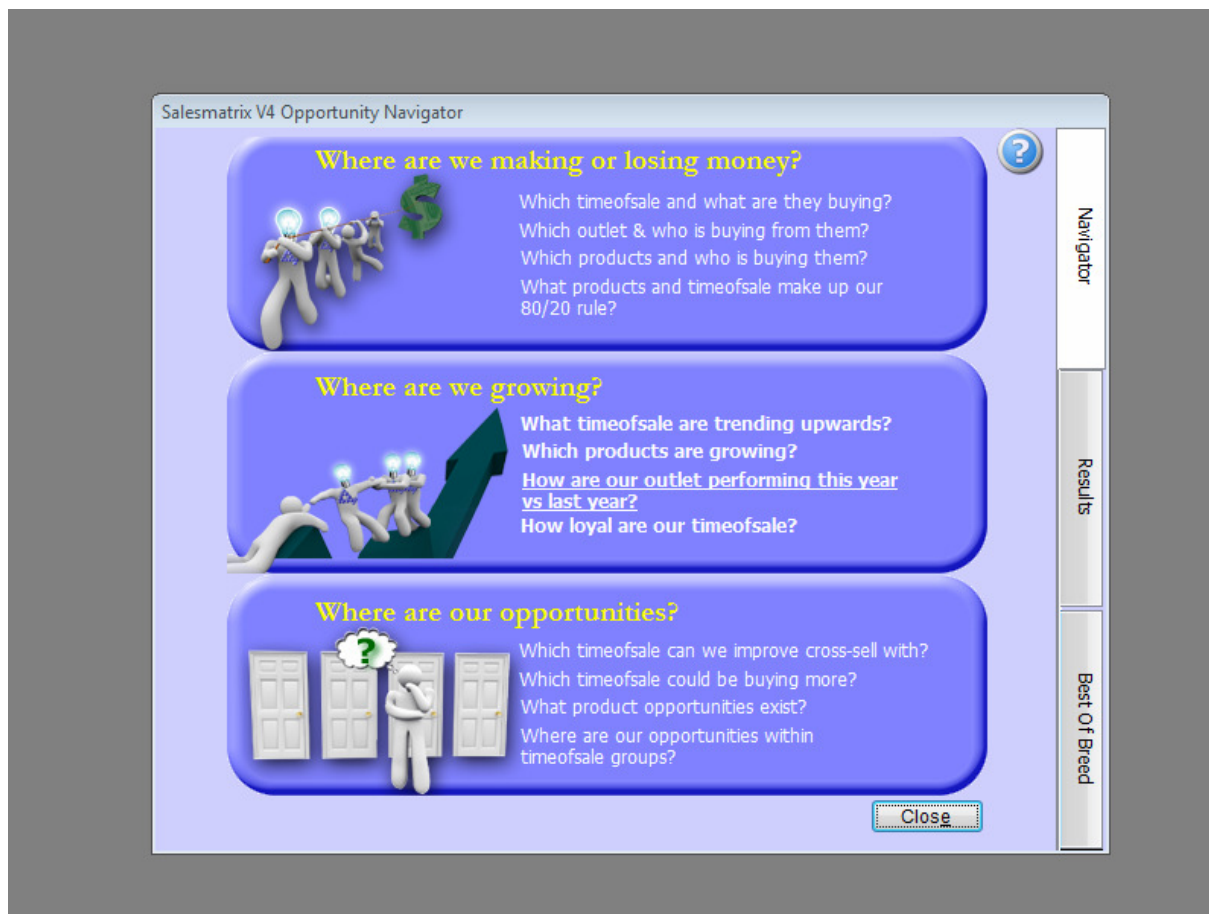


Figure 4 allows specific questions to be answered which can be customized depending on the trading or learning requirements.

Revenue and margin optimization strategies can be automated through an easier question to answer driven approach as facilitated in the navigator screen. This navigation capability can be most useful if a process driven approach is required towards the sales intelligence methodology.

First stage implementation can be limited to focus on targeted performance areas that ensure specific attention allocated to certain managers. This targeted approach limits the user's requirement to identify what they need to look at.

Price pointing allows the manager to determine volumes and margins by different price points. This intelligence capability is most useful when viewed by time of day or day in week.

The key benefits of Store Optimization include

- 1. Promotional benefits. The ultimate application here is through the various social networking which such as Twitter and Facebook that enables targeted messages at targeted timeframes mainly reminding people of what they buy and when. We notice that no social marketing programs are being deploys as at today date. Even without the social program RM enhances traditional promotional impact with a more targeted message in specific the ability to make promotions more regionally targeted*
- 2. Margin growth though a higher awareness of the high margin mover and the assurance that they are never out of inventory specifically in the time slots that make those inventory items most popular. (see price point performance)*
- 3. Blind spot growth 1. Simple awareness of where a product or product group is outperforming here in relation to **comparative store comparisons**. Retail Matrix add to the capability in that it informs as to the different circumstances as to how the outperformance happens for example it may be consistently outperforming on the weekend or at a specific time of day or a specific day of week. How does this help? Numerous controllable factors make create this*
 - a. Different staff gives different results. Who is consistently on duty during the outperformance or vice versa?*
 - b. Store location and ease of access specifically during heavy traffic hours*
 - c. Store location based on its neighbors. Some neighbors are just most lucrative than others. This may not help the underperformer but it will shed a lot of light on new locations.*
- 4. Blind spot growth 2. Representing the Fur coats don't sell in Florida syndrome. This awareness is manifested in RM through the product sales by store analysis (see figure 1). Here managers can tailor the store merchandise specific for its target market.*
- 5. Simply get rid of poor performers and replace the space with higher performers in specific if this is done on a store by store basis.*

RESOURCE UTILIZATION

Store optimization considered the process to maximize revenue and margins. Resource utilization is both cost driven through the reduction of non value added resources and by ensuring that the resources deployed are done so at the most effective manner.

Recognition is also given to the practicalities of resource scheduling. Retail Matrix at a minimum will facilitate where and when would be the best way to align resources within the trading conditions of each individual store.

Achieved through

- *Volume by time of day*
- *Volume by day of week*

Driven by

- ✓ *Unit volumes by product group*

The answer to “when do we need more or less hours and why”, can be the difference between normal profit and best of breed store contribution.

The user has the ability to select on screen as to the time of day the most money or throughput is achieved. It is agreed that some of this is obvious it could be stated that in the main volumes are light in the early morning and late evening however consideration should always be made on:

- *Which stores does this conventional wisdom not apply and what are the peculiar circumstances that create these anomalies*
- *During peak hours what is selling the most and what is the best resource strategy to grow these product sales*
- *When should restocking activities take place and how does this compare to what is actually happening according to the schedule.*

Figure 5 Revenue volumes by time of day reflected by geographical profile

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TimeofSale by Outlet Showing Yr To Feb '08 Revenue							
Categories	All Branch Salesarea	TimeofSale	Total	NC	FL	SC	NY GA
(All)		08-Friday	143,902	46,994	742	69,567	23,095 3,503
Time		08-Monday	61,502	24,962	3,285	22,756	7,230 3,269
DayofWeek		08-Saturday	48,455	13,511	3,254	21,613	8,740 1,337
Week/End		08-Sunday	24,835	7,373	2,457	8,006	815 6,184
TimeOfDay		08-Thursday	124,559	50,252	6,039	44,113	6,263 17,893
Margin_Percent		08-Tuesday	101,151	26,294	42,220	15,571	10,954 6,111
		08-Wednesday	124,933	69,464	13,261	24,067	13,104 5,037
		09-Friday	1,484,807	568,390	173,367	371,671	178,885 192,494
		09-Monday	909,104	342,373	123,854	215,575	103,371 123,931
		09-Saturday	820,096	284,541	117,541	199,243	133,633 85,138
		09-Sunday	870,321	244,381	212,114	197,389	123,446 92,992
		09-Thursday	1,291,664	494,965	169,912	293,595	187,151 146,041
		09-Tuesday	1,116,154	434,659	171,624	260,556	118,500 130,815
		09-Wednesday	1,313,142	510,593	201,174	274,874	148,060 178,441
		10-Friday	4,230,424	1,484,457	606,387	970,223	548,007 621,350

Retail Matrix enables the alignment of resources by with store volumes selected on a more global basis as shown in figure 5 or on a store by store basis as shown in figure 6

Figure 6 Store volumes by time of day at store level

TimeofSale by Outlet Showing Yr To Feb '08 Revenue													
Categories	TimeofSale	Total	Countryside Plaza	1317 Broadway	Westerly Hills Shp Ctr	Hutchison Shopping Center	Tryon Plz Shp Ctr	Merida Square	Columbia East Shp Ctr	Northway Plaza	Central Ave	King Plaza	Brooklyn Shp C
08-Friday		143,902	216	17,779	480	2,763	43,019	191	14,264	15,350	732	39,954	5,3
08-Monday		61,502	361	2,977	1,709	503	21,626	39	17,932	4,044	1,124	780	4,2
08-Saturday		48,455	2,274	6,093	141	243	11,171	777	4,856	8,749	1,955	8,008	2,6
08-Sunday		24,835	155	292	1,155	544	4,905	407	589	6,051	770	1,366	5
08-Thursday		124,559	3,451	1,588	770	21,975	20,796	2,533	2,427	14,381	6,708	27,304	4,6
08-Tuesday		101,151	34,848	9,085	619	553	21,048	6,896	2,174	3,477	4,074	9,919	1,8
08-Wednesday		124,933	9,916	11,773	2,072	8,386	16,758	3,033	2,104	11,834	42,249	10,129	1,3
09-Friday		1,484,807	79,904	120,169	65,837	114,016	327,915	57,924	127,806	124,705	60,621	119,161	58,7
09-Monday		909,104	56,279	55,545	43,830	50,796	184,811	43,438	52,297	93,978	62,936	69,299	47,8
09-Saturday		820,096	26,076	53,851	38,491	75,124	116,943	50,346	47,950	74,437	53,983	76,857	79,7
09-Sunday		870,321	45,586	43,779	20,093	35,727	123,482	120,680	34,867	94,366	65,079	68,157	79,6
09-Thursday		1,291,664	57,729	112,157	88,333	81,452	266,375	78,710	76,913	127,309	58,804	89,374	74,9
09-Tuesday		1,116,154	68,867	66,392	63,498	52,459	227,815	61,202	72,041	115,049	90,887	73,466	52,1
09-Wednesday		1,313,142	72,396	81,479	49,827	90,171	250,311	79,451	89,143	109,973	120,285	75,759	66,5
10-Friday		4,230,424	225,733	295,511	220,997	270,568	747,970	207,897	297,892	358,082	244,923	314,248	252,4

This is most useful when looking at an individual store as depicted by figure 7 which will show the volume for a selected store by SKU level (if required) as to when the items are sold.

Figure 7 Volume by time of day for selected store 1317 Broadway

Products by TimeofSale For Outlet: 1317 Broadway																
Showing Yr To Feb '08 Revenue																
Outlet	Products	Total	08-Friday	08-Monday	08-Saturday	08-Sunday	08-Thursday	08-Tuesday	08-Wednesday	09-Friday	09-Monday	09-Saturday	09-Sunday	09-Thursday	09-Tuesday	09-Wednesday
(All)	GRAND TOTAL	12,520,237	17,779	2,977	6,093	292	1,588	9,085	11,773	120,169	55,545	53,851	43,779	112,157	66,392	81,479
1317 Broadway	Boss Black Leather L...	2,989,072	0	0	0	0	0	0	0	12,300	8,552	5,477	6,534	9,321	8,456	9,225
Ben Hill Square	Egyptian Cotton 65...	702,596	0	0	0	0	0	0	0	6,934	0	1,541	1,541	3,852	770	770
Brooklyn Shp Ctr	Anchor Hocking 34...	442,462	0	0	0	0	0	0	0	4,721	2,814	2,451	1,861	4,085	3,359	3,223
Busch Plaza Shoppi	RabbitAir MinusA2 UL...	334,706	0	0	0	0	0	0	0	2,814	2,224	1,816	726	2,270	2,360	3,087
Central Ave	HOIN 530 Series 2-dr...	329,759	0	0	0	0	0	0	0	1,308	163	490	654	1,471	490	654
Columbia East Shp C	Ungaro Dasnuda Wo...	233,350	0	0	0	0	0	0	0	499	45	182	318	136	318	227
Countyside Plaza	Hewlett Packard 45/...	222,327	0	0	0	0	0	0	0	423	565	529	318	600	353	847
Hutchison Shopping	Curve Crush Women...	219,658	0	0	0	0	0	0	32	1,052	1,339	542	510	1,116	1,148	957
King Plaza	Sorrento Burgundy ...	200,467	84	0	0	0	0	0	0	418	167	84	293	376	543	418
Meridia Square	Stuhling Original 'Wl...	199,376	0	0	0	0	0	0	0	1,007	604	403	1,208	403	0	1,611
Northway Plaza	Copier Toner for Ric...	187,824	0	0	0	0	91	0	45	2,950	1,180	999	409	1,816	1,997	2,270
Old National Exchan	Tailored Microsuede ...	185,509	0	0	0	0	0	0	136	908	999	817	318	1,271	1,271	726
Tycon Plz Shp Ctr	Weston Apple-n-Fru...	185,368	4,978	810	900	0	360	2,309	2,399	13,975	3,059	4,409	900	16,674	2,759	8,727
Westerly Hills Shp D	Serenity Spa Gift Ba...	183,389	4,978	810	900	0	360	2,309	2,399	13,975	3,059	4,409	900	16,315	2,759	8,727

Figure 8. Product categories for all selected stores by time of day

Products by TimeofSale																
Showing Yr To Feb '08 Revenue																
Outlet	Products-Group	Total	08-Friday	08-Monday	08-Saturday	08-Sunday	08-Thursday	08-Tuesday	08-Wednesday	09-Friday	09-Monday	09-Saturday	09-Sunday	09-Thursday	09-Tuesday	09-Wednesday
(All)	Apparel	189,553	0	0	23	0	0	23	23	1,333	819	515	959	959	1,170	959
1317 Broadway	ArtSchoolSupplies	223,619	300	188	235	291	197	56	451	2,655	1,597	1,665	2,154	1,989	1,254	2,154
Ben Hill Square	AudioVideo	2,322,358	3,709	1,362	1,374	899	2,426	792	1,899	28,075	29,968	18,265	17,454	21,350	17,388	19,154
Brooklyn Shp Ctr	BabyClothing	406,813	36	0	0	72	36	36	0	1,651	323	897	3,015	1,148	682	1,148
Busch Plaza Shoppi	BabyGifts	25,618	0	0	0	0	0	0	649	130	0	260	0	130	130	0
Central Ave	BackpacksBags	2,081,903	338	178	447	196	94	210	576	8,742	5,627	6,318	7,487	7,890	5,075	6,318
Columbia East Shp C	BeautyProducts	1,026,740	438	144	166	254	144	20	45	4,986	3,458	4,493	5,110	4,210	4,178	4,493
Countyside Plaza	BeddingBath	37,698,926	7,896	6,241	3,104	4,061	5,530	11,201	5,475	242,169	161,032	144,256	188,615	211,370	175,273	183,615
Hutchison Shopping	BindersAccessories	424,692	161	0	32	65	97	65	65	2,389	1,582	1,647	2,745	2,583	1,873	2,389
King Plaza	BusinessCases	1,378,207	131	131	45	131	0	131	45	4,991	2,125	2,919	2,480	4,898	3,620	2,480
Meridia Square	CamerasPhoto	392,452	0	0	45	135	0	0	45	1,592	1,476	2,437	1,274	1,616	825	1,592
Northway Plaza	CampingOutdoors	457,758	114	142	21	51	82	90	52	2,545	1,469	1,254	1,258	1,896	1,326	1,254
Old National Exchan	CarElectricalSyste	119,565	1,609	0	0	0	1,545	3,154	1,850	8,029	1,126	4,119	7,305	4,843	1,255	3,154
Tycon Plz Shp Ctr	CarInterior	12,695	0	129	0	0	0	0	0	0	0	0	0	0	0	0
Westerly Hills Shp D	CasesPlanners	125,132	0	843	1,644	1,154	932	1,257	2,285	4,244	1,302	6,404	2,366	7,357	3,179	10,223
	ChildrensWatches	93,255	0	0	0	0	0	0	0	3,216	0	0	3,015	3,015	5,025	9,040
	Collectibles	1,974,658	38,657	2,996	7,498	1,949	25,290	15,965	18,824	108,037	29,261	57,010	26,314	60,006	61,289	84,154
	ComputersHardwareS	1,034,040	1,283	1,060	930	43	2,361	130	1,704	18,387	5,409	6,576	6,123	12,021	10,223	10,223
	DeskAccessories	68,483	1,302	0	0	0	0	0	222	2,573	740	0	740	1,124	1,568	1,568

Figure 9 Day of week performance by product category

Products by TimeofSale Showing Yr To Feb '08 Revenue									
Categories	Products-Group	Total	1-Sun	2-Mon	3-Tue	4-Wed	5-Thu	6-Fri	7-Sat
Category	ParlorGames	1,737,079	322,556	176,832	165,731	187,234	198,838	326,025	359,862
ATVsMotorcy	SportsFitness	1,859,012	317,573	208,491	209,225	228,457	244,822	332,614	317,830
Accessories	Collectibles	1,974,658	242,404	169,429	224,992	251,840	280,972	374,636	430,386
AdhesivesGlu	PaperFormsEnvelope	2,020,542	381,045	198,507	195,392	232,024	249,109	369,741	394,724
AirTools	BackpacksBags	2,081,903	397,571	207,876	207,678	214,039	249,133	382,707	422,899
AirWaterFilter	AudioVideo	2,322,358	579,888	229,991	275,176	241,713	288,152	349,587	357,851
AlternativeHe	GeneralOfficeSuppl	2,458,273	405,818	280,746	286,870	309,415	330,927	429,190	415,307
Appliances	GiftBaskets	2,697,957	343,950	221,734	300,052	355,683	403,744	529,072	543,721
AreaRugs	Furniture	2,962,832	455,126	376,919	371,744	394,802	416,408	500,561	447,273
ArnexbyLucie	PensPencilsMarkers	3,015,219	483,569	351,013	355,834	384,897	411,824	528,162	499,920
Aromatherapy	MensWatches	5,072,127	923,974	540,084	542,524	605,500	657,767	899,304	902,974
AthleticClothir	Housewares	6,224,658	825,207	800,925	818,993	867,537	924,063	1,116,626	871,307
AutoAccesso	OfficeElectronics	12,444,529	2,181,430	1,410,507	1,431,743	1,554,352	1,646,533	2,180,067	2,039,897
AutomotiveTc	HomeDecor	12,805,585	1,914,681	1,481,067	1,562,587	1,749,992	1,805,737	2,271,719	2,019,802
Backpacks	PerfumesFragrances	13,184,846	2,152,859	1,495,113	1,593,159	1,601,073	1,704,707	2,329,749	2,308,186
BadgesName	KitchenDining	17,624,710	2,596,936	1,976,758	2,127,613	2,344,929	2,493,900	3,159,347	2,925,226
Bakeware	BeddingBath	37,698,926	6,827,114	4,132,667	4,092,884	4,397,542	4,872,223	6,719,319	6,657,177
Bath	OfficeFurnishings	50,147,375	8,402,951	5,589,057	5,619,363	6,054,484	6,552,519	9,081,509	8,847,490
Bedding	GRAND TOTAL	196,716,248	32,676,561	21,895,324	22,452,324	24,252,005	26,155,308	35,239,165	34,045,561
BedroomFurn									
Belts									
BinderAccess									
Binders									
BoardGames									
Bobbleheads									
BoysClothing									
BoysWatches									
Briefcases									
CRTMonitors									
CalendarsJou									
Camcorders									
CampingHikir									
CanLiners									
CandyChocol									
CarBatteriesA									

Figure 7, 8 and 9 illustrate the various intelligence views enabling the practitioner to assess resource requirements for a single store (figure 7) or for multiple stores by product group (figure 8) or by day of week (figure 9). The ability to review performance in this way facilitates high quality due diligence allowing the know before decide core competency achievable.

Figure 10. Time of day by day of week

Salesmatrix V4 - retail last qtr

File Edit Views Data Tools Help

TimeofSale Quadrant View Time by DayofWeek Showing Yr To Feb '08 Revenue

Categories	Time	Total	1-Sun	2-Mon	3-Tue	4-Wed	5-Thu	6-Fri	7-Sat
Time									
by DayofWeek									
by Week/End									
by TimeOfDay									
by Margin_Percent									
DayofWeek									
Week/End									
TimeOfDay									
Margin_Percent									
	_08	629,337	24,835	61,502	101,151	124,933	124,559	143,902	48,455
	_09	7,805,288	870,321	909,104	1,116,154	1,313,142	1,291,664	1,484,807	820,096
	_10	24,834,275	3,389,161	3,364,235	3,654,298	3,769,786	3,933,981	4,230,424	2,492,391
	_11	28,297,211	5,339,340	3,596,080	3,638,387	3,856,375	4,111,553	4,309,094	3,446,382
	_12	18,716,858	4,697,794	2,031,204	1,917,553	2,102,086	2,132,584	2,566,184	3,269,454
	_13	11,829,524	3,024,061	1,259,516	1,052,490	1,164,453	1,206,600	1,531,902	2,590,503
	_14	10,104,628	2,411,712	998,622	948,454	973,558	1,118,323	1,301,937	2,352,022
	_15	12,921,431	2,450,825	1,369,646	1,361,604	1,430,014	1,542,838	1,980,305	2,786,200
	_16	21,403,369	3,251,051	2,282,187	2,419,577	2,716,078	2,795,392	3,904,775	4,034,309
	_17	26,132,486	3,414,447	2,900,555	2,964,784	3,197,309	3,610,916	5,215,322	4,829,153
	_18	21,260,175	2,618,393	2,160,217	2,228,136	2,477,115	2,870,941	4,791,001	4,114,373
	_19	10,559,759	1,078,791	875,794	986,095	1,034,259	1,306,547	2,853,437	2,424,837
	_20	2,119,164	105,831	86,663	63,642	92,898	109,411	884,645	776,075
	_21	102,743	0	0	0	0	0	41,431	61,311
GRAND TOTAL		196,716,248	32,676,561	21,895,324	22,452,324	24,252,005	26,155,308	35,239,165	34,045,561

Categories

Outlet

TimeofSale

Products

The benefits here are numerous but to mention a few

1. Cycle counts can be done on items during the time of day when volumes are light.
2. We know which shelves need to be fully stocked when
3. We can match hour paid with volumes
4. We can guide merchandisers from the different vendors where to focus their attention.
5. Where possible we may even change our opening and closing hours.

6. *Where possible we may have mobile planograms and strategically place them based on what the shopper buys when.*

SHRINKAGE REDUCTION

Achieved through

- *Volume by time of day*
- *Volume by day of week*

Driven by

- ✓ *Unit volume variation by **high risk shrink** items*




Shrinkage, specifically for low value high sought after everyday products is always a retail challenge. Unfortunately the loss may be driven from internally as well as externally. The traditional methods to alleviate shrink include cycle counts to store surveillance techniques. The effectiveness of these techniques varies from excellent to minimal.

The Retail Store is further disadvantaged with its perpetual inventory system which does not easily facilitate accurate cycle counting for example. In addition the lean nature of the Retail Store business does not facilitate adequate resources to resolve potential variance.

Retail Matrix is not an inventory management tool but it does facilitate the ability to change the way shrinkage is managed.

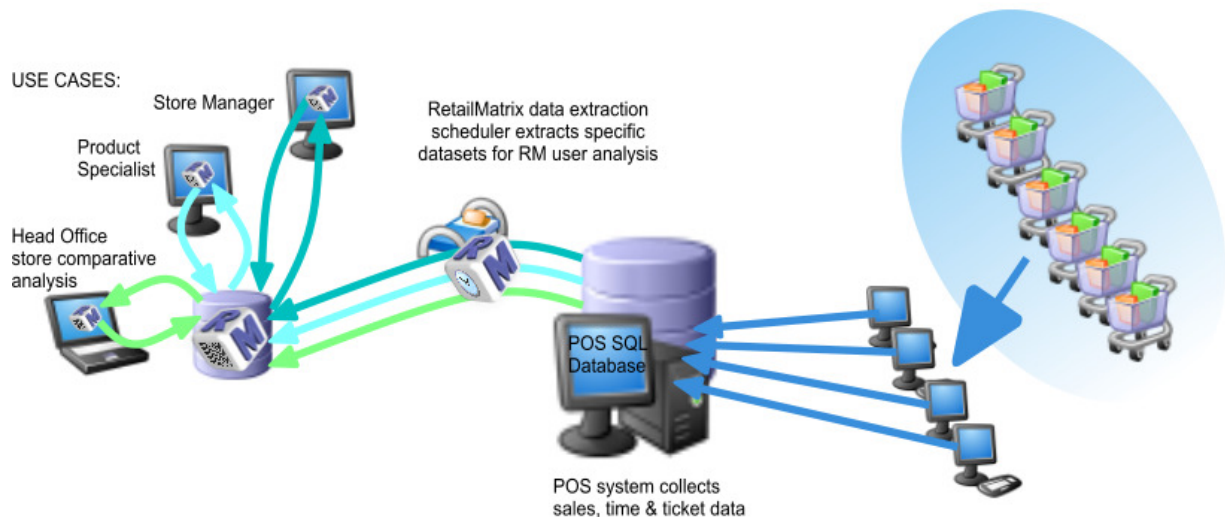
It is a well known fact what is measured is managed or at least prioritized. This measurement visibility often has the same impact as the more extensive deployment of the high cost methodologies as mentioned above.

Retail Matrix has the ability to segment the high risk shrink items and reflect the volumes per high risk as compared to

-  *Similar stores*
-  *Same store at different days of week*
-  *Variance in performance from one week to the next by item*

This focus increases the perception that the items are “watched” on an ongoing daily basis which is often provides more substance as a deterrent.

Retail Matrix data and technology structure



System Requirements

The following is a guide to what hardware is required to run Retail matrix. As with any data based product, improved performance can come from a variety of computer resources. Having the faster processing chip may not speed up disk intensive operations, but in other areas, e.g. traffic-lighting in Salesmatrix, numeric processing speed is important.

Optimal System Requirements

Pentium IV or higher

512 Mb memory (2Gb better)

Standard CD-ROM

Windows 2000, XP or Vista, 7

1024 x 768 monitor setting

100mb free Hard Disk Space