



THE EFFECTS OF BAD NEIGBORHOOD TO THE SHOPS IN MALL

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M1 REAL MALL





It is opened in February 2003. It consists of prefabricated columns and beams and has old architecture for today.

From bus terminal to shopping mall all along the way remarkably good environment, nice view and fresh air can leap to the eye.

In the area since natural gas is used for warming SO_2 ratio is fairly low, on the other hand since there are no forest or woods around PM_{10} ratio is high.

It is at cross center of three streets and in the middle of dense building site.





It services nearly 40 000 people living in 270 ha area.

Population density is 148 person/ha.

The surrounding area is full of attractions.

In near surrounding area there are 3 hypermarkets, 5 educational facility and a hospital.

Total workplaces inside are 84 and total rentable are is 41 000 m².

Shops in mall consist of local, national and international brands (Map 1).







Map 1: Surroundings of M1 REAL shopping mall





NOVADA MALL







It is opened in June 2015.

It consists of ferro-concrete columns and beams and reflects today's modern architecture.

In the area since natural gas is used for warming SO_2 ratio is fairly low, on the other hand since there are no forest or woods around, PM_{10} ratio is high.

The street it is located in is populated 27 200 and population density is 49 person/ha (Map 2). The mall has free transportation service for its customers.





In near surrounding area there are 3 hypermarkets, 5 educational facilities, a public institution and a community clinic.

Shops in mall consist of local, national and international brands.





Map 2: Surroundings of NVD shopping mall







Cement Plant







Pubs





SALE AND RENTAL PRICES OF WORKPLACES IN SHOPPING MALLS

M1 REAL shopping mall management adopted the method of renting the workplaces inside the mall instead of property sale.

The shopping mall consists of only ground level and indoor.

For this reason there is no difference between workplaces because of level difference or outdoor attraction.

26 corners are generated and since middle block fronts are held short there is no exaggerated location differences yet workplace areas are much different in size (22 – 10 000 m²).





For this reason workplaces needing larger areas and serve large amount of people are given blind facades.

NOVADA shopping mall management both sales properties and rents for guaranteed customer.

Mall is designed as 1 basement, 3 full level and 1 half terrace because of mall location's parcel's narrowness.

Attraction centers are occurred at the crescent's corners where stairs are located.

When considered the ones at ground level two fronted and one fronted at top level, the superiority of location is very high.





Though the area sizes are not as different as in M1 REAL (70

 -2500 m^2).

The data which will be basis of valuation is shown in Table 1.



Table 1: Comparison of Real and Novada shopping malls (attractional and locational)

DATA	M1 REAL MALL	NOVADA MALL
Mall area (m ²)	58 500	(3x15 000) + 4 000
Mall perimeter (m)	1260	746
Car park area (m ²)	38 500	10 000 + 8 000
Distance to Bus Terminal intersection (m)	1 600	1 200
Distance to Bus Terminal (m)	1 280	1 600
Number of Storeys	Only ground floor	½ Basement,3 storeys,½ Mezzanine
Neighborhood Name	Yazır	Sancak
Neighborhood population (person)	44 850	27 200
Neighborhood area (ha)	737	560



Table 1: Comparison of Real and Novada shopping malls (attractional and locational)

DATA	M1 REAL MALL	NOVADA MALL		
Population Structure	-	-		
05 – 14 age	7 500	4 500		
<mark>15 – 19 age</mark>	4 180	2 540		
20 – 29 age	8 050	4 840		
30 – 44 age	10 120	6 110		
Population density	60.9E	10.57		
(person/ha)	60,85	48,57		
	Adese,	Akmar,		
Surrounding markets	Makro,	 Kavruk, 		
	Sincap	Sincap		
	 Primary school, 	Duine any a ab a al		
Surrounding educational	Preschool,	Primary school, Middle a shapel		
facilities	 Study center (2), 	Middle school, High sales (0)		
	High school (2)	High school (2)		



Table 1: Comparison of Real and Novada shopping malls (attractional and locational)

DATA	M1 REAL MALL	NOVADA MALL		
Surrounding business	 Mustaş, 			
Surrounding business	 Kızılkaya, 	-		
centers	Konya Park			
	 Football stadium 			
	(42 000 capacity),	• Airport		
Surrounding attraction	 Selçuklu Municipality 	Airport,Organized industrial		
centers	building,	 Organized industrial 		
	 Dispensary, 	zone,		
	 Olympic swimming pool 			
Front direction	North – West	North - West		
Prevailing Wind Direction	West to east	Northwest to southeast		
	• $SO_2 = 7,1 \text{ Mg/m}^3 \text{ (must }$	• SO ₂ =16,50 Mg/m ³		
Air pollution	be <350),	(must be <350),		
All pollution	 PM₁₀ =81,3 Mg/m³ (must 	• PM ₁₀ =108,00 Mg/m ³		
	be <50)	(must be <50)		





Table 2: Sale and rental values in shopping malls

FLOOR		M1 REAL		NOVADA		
Floor	Area (m²)	Rent (TL/m²)	Sale (TL/m²)	Rent (TL/m²)	Sale (TL/m²)	
рс	<50	260	20 000	90	17 000	
Ground	50<100	240	18 500	80	15 000	
Gr	100+	200	13 000	65	12 000	
1 st Floor	<50	-		80	15 500	
	50<100	-		70	13 000	
	100+	-		55	10 000	
2 nd Floor	<50	-		70	13 000	
	50<100	-		60	11 000	
	100+	-		50	8 000	





Both shopping malls have adopted the policy of corporate rental system and are charging %20 extra for common expenditures (security, cleaning, maintenance, repairs, raffles, car park ...).

M1 Real holds the property of workplaces and rents them by itself.

NOVADA on the other hand haven't set any limit to sales or rentals.

However it manages the mall as corporate.





VALUATION CALCULATION AND RESULT

While valuing a real estate, the most important factor is its "market value".

Coefficient comparison or other market comparison should be sourced by observations of the market.

Environmental depreciation is a loss in value sourced by external factors.

Environmental depreciation effects are mostly cannot be eliminated because they are occurring without our effect.

Environmental depreciation affects building and land value.





For this, effects of environmental depreciation to building and land value should be separated.

Income loss sourced by environmental depreciation is capitalized, while income method is used.

Environmental depreciation can be at a premises located at a natural disaster zone.

To calculate environmental depreciation table 3 can be used which is prepared based on the data at table 2.





Table 3: k capitalization and ratios

FL	OOR	M1 REAL	NOVADA	Ratios (M1RL/NVD)		//1RL/NVD)	
Floor	Area (m²)	k=G _{net} /D _{sale}	k=G _{net} /D _{sale}	k	Rent	Sale	Population Density
b	<50	0,156	0,063	2,48	2,89	1,18	
Ground	50<100	0,156	0,064	2,44	3,00	1,23	3,02
G	100+	0,185	0,071	2,61	3,08	1,08	
or	<50		0,061				
1st floor	50<100		0,065				
1st	100+		0,066				
or	<50		0,065				
2 nd floor	50<100		0,065				
2nd	100+		0,075				





When Table 3 is scrutinized, it is seen that M1REAL shopping mall is 2.5 times more valuable than NOVADA shopping mall according to k capitalization, 3 times more valuable according to rent value.

We may see the reason as environmental at first sight.

However, according to population density M1 REAL shopping mall is in 3.02 times more crowded area than NOVADA shopping mall is in.





From this aspect, one can say that bad neighborhood effect to workplaces inside shopping mall of

- a) Concrete plants,
- b) Supply pit of cement plant (filled with water, seen as a pond),
- c) Pubs fronted to main way,
- d) Industrial zone behind the pubs which are located at southeast, south and southwest of NOVADA shopping mall, has no negative effect.





In master thesis study, researching sale and rental prices of houses around the both shopping malls, the ones around M1 REAL are found 1.3 times more valuable than the ones around NOVADA shopping mall.

In this study, it is researched that whether there is same negativity upon the workplaces inside shopping mall.

When the data in Table 2 is taken into consideration one can pass judgement on these facts;



- i) It can be said that M1 REAL shopping mall is 1.2 times more valuable than NOVADA shopping mall according to workplace sale value,
- NOVADA shopping mall is 2.5 times more valuable than M1 REAL shopping mall when k capitalization is taken into consideration(property owning),
- c) Population density of M1 REAL shopping mall's location is 3 times more than the one of NOVADA shopping mall's location,
- d) M1 REAL shopping mall is approximately 3 times more valuable than NOVADA shopping mall according to





When these all are taken into consideration, bad neighborhood of NOVADA shopping mall has no negative effect on workplaces inside the mall.

Thank you for your patience listening

FOR QUESTIONS

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