

The economics of style

The price effect of neo-traditional architecture in residential real estate



Motivation

- International proliferation of neo-traditional architecture
- Reports in popular press (popularity of 1930s in NL)
- Neo-traditional architecture praised and ridiculed



Relation to existing literature

- Style, through vintage, as control
- Heritage, star architects
- Office buildings (architects, not style)



style

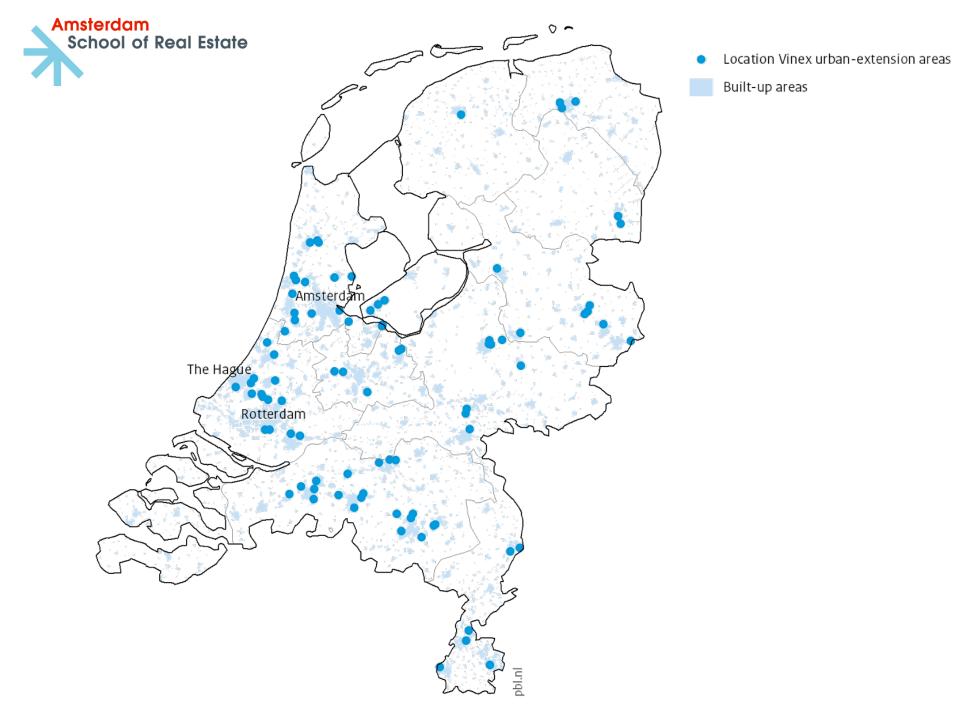
- Style, vintage, age, maintenance, obsolescense
- Style can be reproduced
- Dutch 'show case': VINEX



Vinex

Vineme, national

- From growth cores
- Decentralization 'to compact cities













Shape 🚺

facade arrangement 💆

detailing 🗹









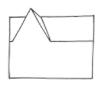
Referring to traditional

Shape 🚺

facade arrangement 🗹

detailing 🎇









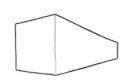
Non-traditional

Shape M

facade arrangement X

detailing 🌠













Marinus van Elskade, Nesselande, Rotterdam



Mix of styles at the neighbourhood level



Wierde, De volgelan, Hendik-Ido-Ambacht



Cluster in a patio



Otto Cluivingenlaan, Zuiderburen, Friesland



Cluster in a street



Brandevoort, Helmond



Cluster at the neighbourhood level



Housing supply (in Vinex)

- Large construction sites, land often owned by municipality
- Plans created by municipality and builders jointly
- Construction starts when 70+ % sold
- Public and private role municipality



Price 'premium'

- Construction costs
- Sorting
- Supply restrictions



Results

		Pure neo- Referi		
	Total Vinex	traditional	traditional	
Transaction price (average, x €	265	262	256	
1.000) Surface (average, square	265	362	356	
meters ¹)	136	171	159	
Plot size (average, square			100	
meters ¹)	214	258	309	
Dwelling type (% of			•	
transactions)		Т	<u> </u>	
Terraced	54%	36%	29%	
End-of-row terraced	19%	9%	12%	
Semi-detached	18%	32%	32%	
Detached	9%	23%	27%	
Total	100%	100%	100%	
Number of transactions per				
year		T		
1996	16	0	0	
1997	81	1	0	
1998	571	0	7	
1999	1,914	1	75	
2000	2,933	1	137	
2001	3,806	9	185	
2002	4,265	32	264	
2003	4,670	56	308	
2004	5,361	60	379	
2005	6,201	100	438	
2006	6,656	134	561	
2007	6,731	118	585	
2008	5,713	89	542	
2009	4,131	44	376	
2010	4,054	52	433	
2011	3,677	62	419	
2012	3,794	67	445	
2013	3,754	44	277	
2013 2014 Q1+Q2				
2014 Q1+Q2	2,841	28	121	



Results

	Vinex – all 1995-2014		Neo-traditional – clustered 1995-2014		
	Coefficient	Std. Error	Coefficient	Std. Error	
Style (ref. = non-retro)					
Pure retro	0.148***	0.012	0.065***	0.016	
Appealing to retro	0.048***	0.003	(ref.)		
Clustered			-0.021**	0.009	
Characteristics				_	
Surface (In)	0.040***	0.001	0.036***	0.003	
Plot size (piecewise. In)					
< 300	0.042***	0.001	0.025***	0.003	
< 500	0.040***	0.001	0.035***	0.002	
< 1.000	0.030***	0.001	0.035***	0.002	
Construction year (In)	0.175***	0.042	6.873***	1.009	
Dwelling type (ref. = terraced)					
End-of-row terraced	0.049***	0.002	0.066***	0.006	
Semi-detached	0.190***	0.002	0.229***	0.007	
Detached	0.301***	0.003	0.357***	0.009	
Parking facilities (ref. = nothing private)					
Parking place	0.076***	0.002	0.048***	0.007	
Carport	0.126***	0.003	0.067***	0.013	
Garage	0.180***	0.002	0.103***	0.006	
Garage + carport	0.175***	0.006	0.100***	0.012	
Large garage	0.228***	0.005	0.153***	0.012	
Maintanence level (ref. = average or below)					
Inside	0.090***	0.007	0.099***	0.031	
Outside	0.039***	0.008	0.064*	0.037	
Landlease (ref. = no landlease)	-0.046***	0.006	-0.123***	0.019	
Other controls					
Time fixed-effects	Year-dummies - not presented				
Spatial fixed-effects	Zipo	Zipcode-dummies / PC5 - not presented			
Constant	10.276***	0.348	-40.193***	7.665	
Adj. R-squared	0.848	0.134	0.877	0.133	
n	60,7	716	6,30)5	



Results

	Neighborhood income 2002-2011		(Semi)detached above €400,000,- 1995 - 2014		Only terraced	
					1995 - 2014	
	Coefficient	Std. Error	Coefficient	Std. Error	Coefficient	Std. Error
Style (ref. = non-retro)						
Pure retro	0.164***	0.014	0.123***	0.017	-	
Appealing to retro	0.049***	0.003	0.029***	0.006	-	
Pure + appealing	-		-		0.034***	0.005
Characteristics						

	Vinex-all 2006 - 2014		Municipalities >20% neo-traditional 2006 - 2014	
	Coefficient	Std. Error	Coefficient	Std. Error
Style (ref. = non-retro)				
Pure retro	0.115***	0.012	0.080***	0.016
Appealing to retro	0.039***	0.003	0.022***	0.006



Conclusion

- Significant price premium for neo-traditional architecture
- Most likely as a result of stringent planning
- (but apparently people do value style)