



Granary Island, Gdansk, Urban Design Study



December 2005



Introduction / Philosophy

Across from the historic city centre of Gdansk and close by the landscape space of the old bastion, a new district of Gdansk in mixture of history and modernity is built up along the river Motlawa on the Granary Island.

The aim is to create a city district, which reflects the historic urban structure, but is not a replica of the former architecture and land use. It respects the identity of the old European city with its cultural imprints of urban spaces: Block structure, courtyards, streets, plazas, lanes...

According to the speciality and centrality of the location, a structure is created - rather dense at the top of the island and more open to the south - which integrates itself into the green space of the old bastion.

Alltogether ten varied quarters with different identities compose the island and built up a multifunctional, but coherent structure, according to physical conditions of the sourrounding and the demands of society and economy. The seperation of the different quarters allows a stable development of the whole planning site, because each unit can be created alone or even in sections as part of the whole project.

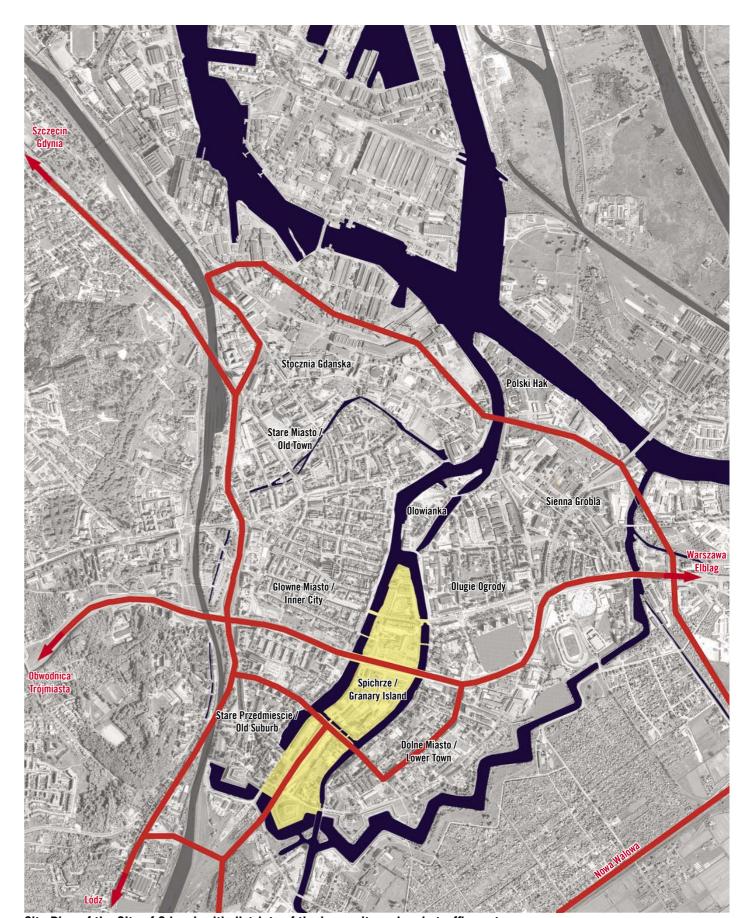
The concept adopts as well certain historic archetypes like the granaries as also foresees contemporary types of building, which consider today's needs and demands of society with multifunctional uses, providing shopping, work spaces, inner city living in varied forms, recreation spaces for the whole population and visitors of Gdansk.

Granary Island

Through its structure and location, Granary Island connects the different adjacent districts of Gdansk and opens up to the landscape at the bastion. Across from the city centre, the porousness of the urban structure and the adaptation of the existing building heights guarantee the perception of the inner city, especially towards the towers of the New City Hall and the Church of our Lady. Different quarters of the whole district accomplish a new character for the island, which show a continuous change of the urban structure from north to south within the planning area. Altogether ten different quarters with manifold spaces and archetypes can be recognised. They reflect the respective needs and demands of the surrounding and the requirements of the land use. Quarters interlock with each other considering the urban structure as well as the land use. The ten quarters are named by their speciality and characteristic, which are described and explained by their functions further below:

Top of the Island, Yards of Gdansk, Granary Chain, Island Centre on "Podwale Przedmiejskie", Central Business Quarter, Church Quarter, Housing along the river Motlawa, Housing in Bastion's Courts, Technology Court, Bastion's Park.





Site Plan of the City of Gdansk with districts of the inner city and main traffic routes



Streets and Traffic

The design of the streets creates accentuated lines of sight to the valuable town's landmarks, like the city gates. Considering the importance of the new district for tourism, retail and recreation, wide areas of the island are planned regarding traffic reducing measures and pedestrian zones. Nevertheless they are accessible by adjacent owners. A central car park below the Island Centre guarantees enough space for individual traffic caused by visitors. Private underground garages are foreseen for all new buildings for residents and employees. Additionally, the already existing tram station will be transformed into an important connecting point for the public traffic in Gdansk.

The Riverbanks

There will be a wide range of different designed and characterised open spaces along the riverbank of the Island. In the north, important public buildings like a museum and a hotel will function as lighthouse for the island. In the south, openings to the landscape space establish a relationship to the old bastion. Housing in different forms align the park. In the east, cross building structures with concerted lines of sight over the island and to the water create interesting vantage points for residents and visitors. To the south of the eastern riverbank mainly housing with direct access and view to the water is provided. New stairways with offshore pontoons and landing stages give possibilities for water sport. Along the linear Granary Chain in the west, according to the historic sample, a swimming footbridge is anew installed across from the "Long Bridge" at the city centre. Here, additional space is provided as landing stage and for recreation, water sports, outside gastronomy or just to linger or stroll along the riverbank. The special archetype of the granary reminds of the history of the island. The repetition and combining of this building type are forming the waterfront. The buildings present themselves as a chain. They are either refurbished, reconstructed or even traditionally new planned and built. Furthermore they are able to accommodate manifold uses, like retail, offices, loft housing or special uses like a hotel, galleries etc.

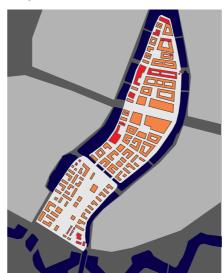
Open and Green Spaces

Looking from north to south, the public space transforms from a rather stony to a very green character. In the historic orientated top of the island plazas, private and public courtyards with shopping passages characterize the urban structure. A footpath is leading through the blocks and continues through the passage under the "Podwale Przedmiejskie" by the Island Centre, passes the central business and the church quarter and leads further over the wide green Bastion's Park into the landscape at the old fortification of the citadel. The Park offers possibilities for recreation and sport activities. Additionally it inhabits public facilities, like an elementary school, a kindergarten, a retirement home, playgrounds etc.





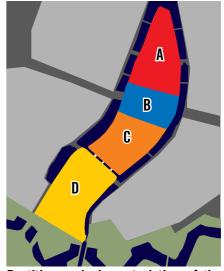
Integration of inner city and landscape



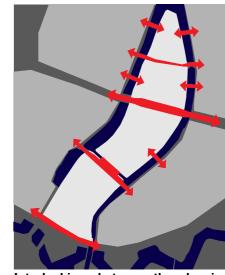
New Structure with integrated, worth keeping buildings



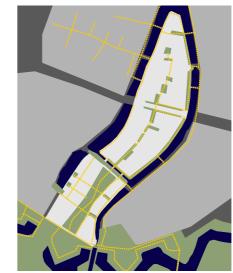
Individual traffic
Main roads (red), collecting roads (orange), coverage
roads (yellow)



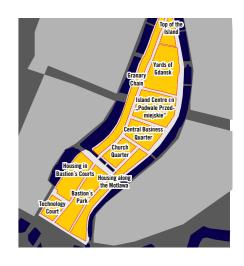
Partition and characteristics of the planning area



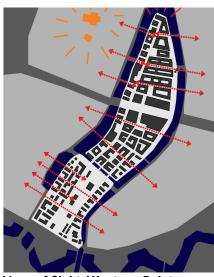
Interlockings between the planning area and the neighboured quarters



Green spaces with footpathes



Ten Quarters



Lines of Sight / Vantage Points



Main footpath:
Footpath from the bastion to the inner city with the bastion's park, plazas and court yards



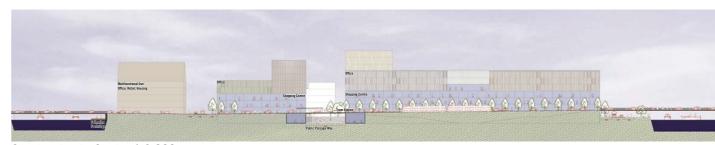


Site Plan, Scale: 1:7.500





Section A - A, Scale: 1:2.000



Section B - B, Scale: 1:2.000

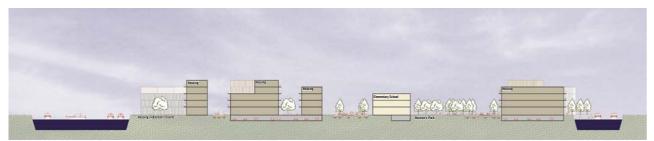


Bird's Eye View "Top of the Island" from the North





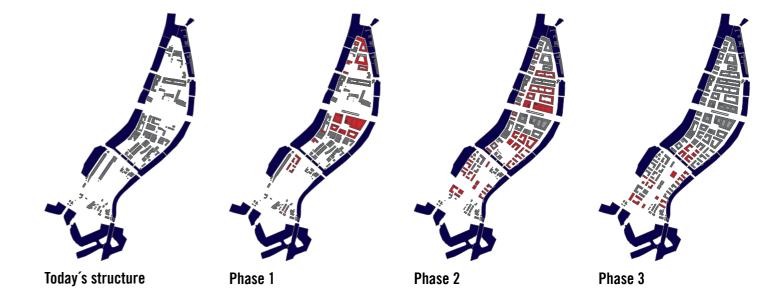
Section C - C, Scale: 1:2.000



Section D - D, Scale: 1:2.000



Bird's Eye View "Top of the Island" from the North





Perspective Plaza at the "Islandcentre" from the South-East





Landuse, Scale: 1:7.500

	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	Plot 6	Plot 7	Plot 8	Plot 9	Plot 10	Plot 11	Plot 12	Plot 13	Plot 14	Plot 15
Plot Area	3.712	4.887	2.096	4.948	5.427	7.486	2.271	4.753	7.718		2.845	2.009	5.885		8.286
urface Area	3.712	3.699	1.784	3.750	3.976	9.025	1.855	3.071	5.073	1.844	1.903	2.009	5.885	3.296	8.286
Gross Floor Area	6.924	15.002	8.276	17.108	20.381	23.018	8.613	14.097	25.363	7.720	11.919	11.181	31.235	16.171	42.056
Surface Area Ratio	1.00	0.76	0.85	0.76	0.73	1.21	0.82	0.65	0.66	0.50	0.67	1.00	1.00	1.00	1.00
loor Area Ratio	1.87	3.07	3.95	3.46	3,76	3.07	3.79	2,97	3.29	2.08	4.19	5,57	5.31	4,91	5,08
	1,07	5,67	5,55	5,40	5,70	5,07	5,75	2,57	5,23	2,00	4,13	5,57	5,51	4,51	5,00
Landuse Housing			1.407	3.447		3.448	693	2.265	9.440		1.800	1			
Office	 		3,737	7,200		10.545	4.408	6.412	6.316		6.313	5.154	13.580	1.350	17.198
Retail / Shopping			3.132	6.461		9.025	3.512	5.420	9.607		3.806	6.027	17.655	9.888	24.858
Trade / Light Industry			0.101	0.401		5.025	0.512	5.420	5.007		5.000	0.027	17.000	3.000	24.000
Special Use	Museum	Hotel			Existing Block					Existing Buildings				Cinema	
apeulai use	6.924	15.002			Existing Block					Existing buildings				4.933	
	-														
	Plot 16	Plot 17	Plot 18	Plot 19	Plot 20	Plot 21	Plot 22	Plot 23	Plot 24	Plot 25	Plot 26	Plot 27	Plot 28	Plot 29	Plot 30
Plot Area	6.892	9.684	3.402	1.672	1.623	3.635	7.348	12.125	2.971		2.995	2.099	3.173		3.149
Surface Area	5.331	5.962	2.516	1.250	995	2.540	2.531	7.582	1.524	578	1.251	971	1.307	966	1.309
Gross Floor Area	25.914	28.166	12.051	4.614	2.253	9.858	11.043	40.371	7.918	1.878	5.171	3.937	5.324	3.908	5.385
Surface Area Ratio	0.77	0.62	0.74	0.75	0.61	0.70	0.34	0,63	0.51	0.22	0.42	0,46	0.41	0.45	0.42
Floor Area Ratio	3.76	2.91	3.54	2.76	1,39	2.71	1.50	3.33	2.67	0.71	1.73	1.88	1.68		1.71
Landuse	5,75	2,32	5,54	2,70	200	2,72	1,00	5,05	2,07	0,7.4	1,75	1,00	1,00	1,00	1,71
Housing	2.692	4.318	1.152	864		7.318	11.043	9.216	6.782	1.878	5.171	3.937	5.324	3.908	5.385
Office	9.156	17.886	2.798	2,500				12.568							
Retail / Restaurants	3.052	5.962	1.399	1.250		2.540		11.704	1.136						
Trade / Light Industry															
Special Use	Hotel		Parking Garage		Church			Hotel							
	11.014		6.702		2.253			6.883							
	Plot 31	Plot 32	Plot 33	Plot 34	Plot 35	Plot 36	Plot 37	Plot 38	Plot 39	Plot 48	Plot 41	Plot 42	Plot 43		Total
Plot Area	2.045	5.133	4.715	3.290	3.424	1.981	820	1.917	1.682		781	2.559		Plot Area	169.560
Surface Area	615	2.652	2.309	1.717	1.738	1.141	444	1.200	994	400	396	566	1.637	Surface Area	111.590
Gross Floor Area	2.460	7.018	6.158	7.177	7.271	4.865	1.332	2.400	2.982	800	1.188	1.698	4.511	Gross Floor Area	476.715
Surface Area Ratio	0.30	0.52	0.49	0.52	0.51	0.58	0.54	0.63	0.59	0.57	0.51	0.22	0.20	Surface Area Ratio	0.66
Floor Area Ratio	1.20	1.37	1.31	2.18	2.12	2.46	1.62	1.25	1.77	1.15	1.52	0,22		Floor Area Ratio	2.81
	1,20	1,37	1,01	2,10	2,12	2,40	1,02	1,23	1,//	1,13	1,52	0,00	0,00		2,01
Landuse	2.4601			7.177	7.271	4.865						1.698	4.511	Landuse	110.470
Housing	2.460			/.1//	7.2/1	4.865						1.698	4.511		119.470
Office														Office .	127.121 126.434
Retail / Restaurants														Retail / Restaurants	
Trade / Light Industry		7.018	6.158				Vindanadaa	C	Clamantan Cabani	Continue				Trade / Light Indus.	13.176

Urban Indices

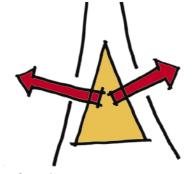


Perspective "Bastion's Park" from the North

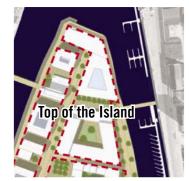












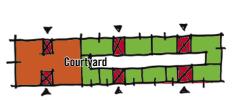


Light house of the island: The area is dominated by important public functions like a museum or a congress centre. Existing buildings like the Deo-Granary are integrated into the quarter. Important new public passages into the Inner City and to Olowianka by new pedestrian bridges are foreseen. The whole area is dedicated as pedestrian zone with access permission for adjacent owners.

Distcriptive Pictograms and References



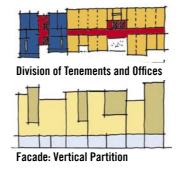




GF: Possible Partition of Shops and Staircases

Italian Centre, Glasgow, Page & Park, Glasgow, UK

cases at ground floor









Continuation of the historic structure: Smaller units are provided for ground d different implementations of the facade compositions are foreseen. Additionally inner courtyards and passages are formed for public and private use.

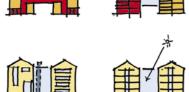




Combination

Combination

Pictogram Granary Typologies



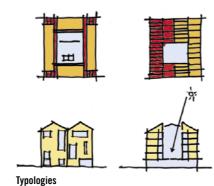


Typologies Pictogram Modules and Combination



Union, Hanauer Landstraße, Frankfurt o.M., Conversion of an old brewery, Landes & Partner, Frankfurt o.M.

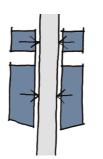




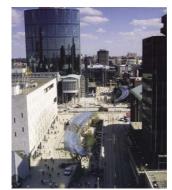
Pictogram Granary Typologies

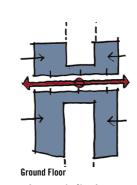


Creating of a historic orientated waterfront in opposite to the "Long Bridge" of the Inner City. The waterfront consists of a repetition and combination of the historic archetype of the granary, which create a chain along the waterfront. Gaps between the granaries give way to interesting perspectives from the river bank into the island and in opposite from the Island to the river and the Inner City. A long footbridge produces the possibility for a walk along the river bank. Shops and restaurants at the ground floor and loft for offices as well as housing in the upper storeys are established in those buildings. Some of the new granaries can accommodate also special uses like a hotel, galleries or artist studios.

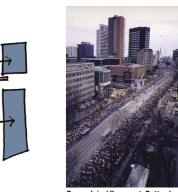






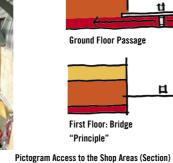


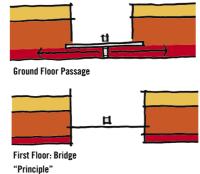
Pictogram Access to the Shop Areas



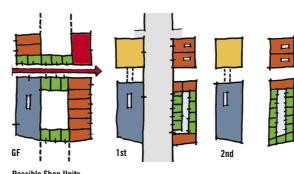


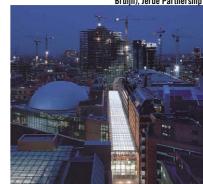
Beursplein / Koopgoot, Rotterdam

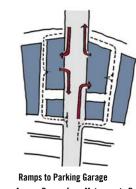




Beursplein / Koopgoot, Rotterdam, Netherlands, de Architects Cie (P. B. de Bruijn), Jerde Partnership



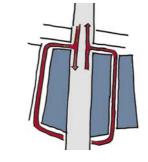




Possible Shop Units

Potsdamer Platz Arcades, Berlin, Renzo Piano, Genua Pictogram Access Ramps from Motorway to Park-







Cut out site plan

Pictogram Traffic Guidance /Loop under Motorway

Potsdamer Platz Arcades, Berlin, Renzo Piano, Genua - Paris

The block structures on both sides of the "Podwale Przedmiejskie" create a multi-functional business complex out of a shopping centre, offices and additional special uses. They clamp the motorway like a "bench vice" and form a new entry for Granary Island and the City Centre of Gdansk. The ensemble of buildings is connected by a generous underground passage, which offers a great flexibility of the retail reparation. The base with the shopping centre consists out of three storeys. The office structure on top adapts the urban situation of the surrounding property and builds up a bridge between the northern and the southern part of Granary Island. A generous central parking garage is built under the whole complex. On the crossing of the motorway and the underground passage a junction between public traffic (tram), individual traffic (motorway respectively parking garage) and the pedestrian zone is formed.











Münchner Rückversicherungen, Baumschlager & Eberle, Lochau - Vienna

In the Central Business Quarter, urban blocks are grouped around a central plaza, connected to the Island Centre. Shops are located at ground floor, offices in the regularly storeys and some housing on top of the buildings. Special uses like a hotel etc. can also be accommodated. The buildings are most likely horizontal disposed.



Engelhardthof Berlin, Kahlfeld Architects, Berlin



Ecumenical Centre, Munich - Riem, Florian Nagler, Munich



Public-Park-Quarter, Darmstadt, Kramm & S





The Church Quarter adapts the structure of the Central Business Quarter, but dissolves lightly the strong historic structure in transition to the green open spaces in the southern part of the planning area. A new church around another plaza cultivates the centre of this district. In opposite to the business quarter, the blocks are smaller and provide more housing instead of offices. Here, an additional central multi-storey car park can be placed.

- 17 Granary Island, Gdansk





Different exemplary narkways





De Pijler Elementary School, Rotterdam, KCAP / ASTOC Rotterdam - Cologne



0.1.1.21...1...

Playground Nieburgstraße, Berlin, Topotek 1, Berlin

In sequence of the green space along the old fortification of the citadel, the Bastion Park blends into the urban structure of Granary Island and features a green frame for special uses of sport, recreation and public facilities, like a school, a kindergarten, a retirement home etc. Besides the aspects of recreation, an additional space for flora and fauna as well as a fresh air lane, leading into the centre of Gdansk, is created.



Hollandia, Schiedam, Netherlands, KCAP / ASTOC, Rotterdam - Cologn



Steps to the water

Green Housing, Beijing, China, KCAP / ASTOC, Rotterdam - Cologne



Green Housing, Beijing, China, KCAP / ASTOC, Rotterdam - Cologne

Housing, Gouda, Netherlands, KCAP / ASTOC, Rotterdam - Cologne





Housing, Gouda, Netherlands, KCAP / ASTOC, Rotterdam - Cologne

A band of housing is formed along the Motlawa River bank. Southeast, it stands in coherence with the northwestern band of the Granary chain. Courts are formed and create open views to the water. A public footpath for the public and footbridges give possibilities for recreation and water sports.





Herti 6, Zug, Switzerland, KCAP / ASTOC, Rotterdam - Cologne



Orsoyer Straße, Düsseldorf, KCAP / ASTOC, Rotterdam - Cologne





Cut out site plan

Stadstuinen, Rotterdam, Netherlands, KCAP / ASTOC, Rotterdam - Cologne

Additional housing in varied forms in open block structure is provided. The building structure consists out of dwelling houses and terrace houses, which foresee two staged maisonettes for each units. Here, along a quiet part of the river bank, the possibility for high qualitative housing in middle of the Inner City is disposed.



Development Centre, Ingolstadt, Fink & Jocher, Munich



Vidmar-Halls, Bern, Switzerland, multifunctional use, Rykart Architekten, Bern,



eacher Seminar Building, Chur, Switzerland, Bearth & Deplazes, Chur, Switzerland





Cut out site plan

Technology-Centre Adlershof, Berlin, Sauerbruch & Hutton, Berlin

To achieve a most possible wide range of different uses in this central planning area, a small part for handy craft, technology businesses and not intensive light industry is provided in a structure in accordance to the surrounding properties. The buildings are arranged around courtyards for storage and exhibition and can offer space for labs, studios or workshops.



Conclusion

The transforming structure from the city centre to the bastion accentuates the terrific location of the project, stretched out between the historic downtown area and open landscape. The urban structure condenses itself to the north and melts to the south filling nature into the city. Historic components characterise the design. As main focus of the concept, the old urban structure and historic archetypes are absorbed and interpreted in a modern way. A new central district is created with multifunctional uses, providing shopping, work spaces, inner city living in varied forms, recreation spaces for the whole population and visitors of Gdansk.



Model of the site from the east



Model of the site from the south

CLIENT

GRAY INTERNATIONAL URBAN STRATEGY & FINANCIAL ENGINEERING

Gray International Real Estate Department

80 Aleja Jana Pawla II 00-175 Warsaw Babka Tower 5th floor Poland

Tel: 0048 -22 - 435 12 14 Fax: 0048 - 22 - 853 78 49 grayinter@aol.com

CONCEPT



Maria-Hilf-Strasse 15 D- 50677 Köln Germany

Tel: 0049 - 221 - 271 80 6 - 0 Fax: 0049 - 221 - 310 08 33 info@astoc.de

www.astoc.de

Dipl. Ing. Peter Berner Prof. Ir. Kees Christiaanse Prof. Dipl. Ing. Oliver Hall Dipl. Ing. Andreas Kühn Prof. Dipl. Ing. Markus Neppl

Dipl. Ing. Jörg Schatzmann Cand. Ing. Daniel Spreier

Thierry Louvieaux Architecte D.P.L.G.

Dipl. Ing. Thierry Louviaux

Kuno Fischer Straße 14 D - 14057 Berlin Germany

Tel: 0049 - 30 - 30 10 92 96 Fax: 0049 - 30 - 30 10 92 97

thlouv@aol.com

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