



SECTION

1] CASE STUDY INTRODUCTION





TLE

1.1] LOCATION & OVERVIEW









SECTION

1] CASE STUDY INTRODUCTION

TITLE

1.2] FOCUS AREA



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1] CASE STUDY INTRODUCTION

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1.2] FOCUS AREA



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2] CHARACTER

2.1] PERSPECTIVES

Legend





Ijburg Study Area Zones

Gemengd I Mixed Use: Mixed-use areas create vibrant, diverse urban environments where people can live, work, and access services within close proximity. They allow for a mix of residential buildings, offices, shops, restaurants, entertainment venues, and other amenities, fostering a dynamic and walkable community.

Groen I Green Space: Established to preserve and enhance areas of natural beauty, biodiversity, and recreational value within the urban landscape. These areas may include parks, nature reserves, green belts, waterfronts, and other types of open spaces that provide environmental, social, and cultural benefits to residents and visitors.

Maatschappelijk I Social: A wide range of uses that serve the needs of the community, such as educational facilities, healthcare institutions, religious buildings, cultural centers, community centers, social service agencies, and other public amenities.

Tuin I Garden: Refers to areas primarily designated for gardens within the city's urban planning framework. In Dutch, "Tuin" translates to "garden," indicating that the land use in this zone is predominantly for outdoor spaces associated with residential properties.

Wonen-1 | Residential: This zone typically represents areas with **low-density residential development**, such as single-family homes, townhouses, and low-rise apartment buildings. The focus is on preserving a more spacious and suburban-like environment with ample greenery and open spaces.

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2] CHARACTER

2.2] PERSPECTIVES



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2] CHARACTER

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2.2] PASSAGEWAYS



Visually compelling corridors that extend horizontally



Horizontal View Paths:

From a design standpoint, the horizontal alleyway views provided by the Tuin gardens offer several advantages. Firstly, they introduce a sense of rhythm and visual continuity along the streetscape, punctuating the built environment with pockets of greenery that break up the monotony of the urban grid. This creates a more dynamic and protected pedestrian realm, promoting walkability while enclosing inner garden space.

outer-perimeter





inner world



SECTION

2] CHARACTER

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2.3] BUILDING ENVELOPE





In Ijburg, Floor Space Index, while not defined in public zoning documents, is often applied in maximum at the gross floor area, resulting in mostly square geometric buildings with no setback.

Building Envelope Regulations:

Amsterdam does not publicly list FAR standards on its zoning website, only publicly denoting the maximum building height allowable at each parcel. However, the city does require "FSI" or "Floor Space Index" which are commonly used in urban planning and zoning regulations to control the density and scale of development within the city. In Dutch, "Floor Space Index" is often translated as "Bruto Vloeroppervlakte" (BVO).

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2] CHARACTER

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2.4] TRAFFIC/MIXED USAGE

Despite the "Diemerparklaan" tram running through the main street, there is only one side of allowable mixeduse builidngs

A Extent of building specific regulation standards offered by Amsterdam Zoning agency







Facts of IJburg

retail space

IJBURG - AMSTERDAM, NETHERLANDS

Homes: 18.000, of which 30% social housing,

Commercial use: 100.000 m2 office space and 30.000 m²

Total surface of new land: 1.125 acres

40% medium range and 30% high-end

2 marinas and 1,000 meters of new beach

Density: 30 homes/acre average

Public facilities: 80.000 m2

Parking: maximum 1 car/household

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3] BACKGROUND

3.1] CONCEPTION

ljburg Conception

- Rising housing demand in 1980's as a result of increase in population as Dutch knowledge economy surged
 - Lack of options for growth: industrial/airport/conservation areas encircled city
 - Lake selected due to existing sea channel beach remnants
 - Aimed for slow growth, phases in line with demand and not planned immediately
- Reversed ecological decline of Ijmeer lake made many investments in strengthen biodiversity as concurrent with development



ljburg Phases:

Phase I of IJburg constructed using the "pancake method"

"Phase I of IJburg was constructed using the so-called 'pancake method'. Layers of sand were sprayed directly onto the very weak subsoil where centuries ago an old sea channel was located. In order to prevent this subsoil from shifting, sand was sprayed under water in layers of approximately 0.5–0.75 m. Inbetween spraying the layers of sand, periods of consolidation took place in order to create a stable platform for the next layer of sand. Gradually, the thickness of each new layer was increased to approximately 1 m. The spraying continued until the required surface level was reached."

IJburg nearing completion of Phase I; Phase II subject to political decisions

- Challenges ahead in Phase II from an environmental perspective
- Upon completion, IJburg to accommodate 45,000 inhabitants and 12,000 jobs
 - Planned amenities include shops, schools, restaurants, marina, recreational areas, and beach
- Demonstrates possibility of multiple land use in densely populated areas with cooperation and innovation.

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3] BACKGROUND

3.2] PHASES





Different zones of ljburg have different uses. The low rise isle of "Reiteilanden" is zoned under the same "Wonen-1" type as larger "Haveneiland"

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3.2] PHASES







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2] CHARACTER

2.1] ZONING MAP

Legend





Ijburg Study Area Zones

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SECTION

4] ZONING ANALYSIS

4.1] ZONING SUMMARY

Amsterdam Residential Zones | Wonen: "Residential"

Wonen-1: This zone typically represents areas with low-density residential development, such as single-family homes, townhouses, and low-rise apartment buildings. The focus is on preserving a more spacious and suburban-like environment with ample greenery and open spaces.

Wonen-2: Wonen-2 zones may have slightly higher residential densities compared to Wonen-1. This zone might include a mix of single-family homes, townhouses, and mid-rise apartment buildings. It could also feature some small-scale commercial or community amenities to serve residents.

Wonen-3: Wonen-3 zones tend to have moderate residential densities, with a mix of housing types including townhouses, mid-rise and possibly high-rise apartment buildings. These areas may also include local shops, schools, parks, and other community facilities to support residents' needs.

Wonen-4: In Wonen-4 zones, residential densities are typically higher, with a greater emphasis on medium to highrise apartment buildings. These areas often feature a mix of residential, commercial, and recreational amenities, providing a more urban and cosmopolitan living environment.

Wonen-5: Wonen-5 zones represent areas with high residential densities, characterized by tall apartment buildings and a dense urban fabric. These zones are typically located in or near the city center and offer a wide range of amenities, including shopping, dining, entertainment, and cultural facilities.

Wonen-6: Wonen-6 zones are similar to Wonen-5 but may represent the densest and most urbanized areas within Amsterdam. These zones are often found in the city center and other strategic locations, featuring a mix of residential, commercial, and institutional uses. They are characterized by high-rise apartment buildings, mixed-use developments, and vibrant street life.

Both buildings are part of the same zone (Wonen-1)





11m maximum height

16m maximum height



SECTION

4] ZONING ANALYSIS







SUMMARY OF ZONING REGULATIONS (See Appendix for supporting research)						NOTES:	
1	ZONING DISTRICTS	Wonen-1	Gemengd-2	Maatscha- ppelijk	Tuin	Groen-1	Residential can overlap with mixed-use
2	LAND USE	Low Density Res.	Mod. Mixed Use	Community Space	Garden	Parks	
3	FAR	FAR 2.23 .		. 0.58	. 0.58	0.58	"Numbers come from arch. Plans of existing block"
4	SITE COVERAGE						
5	SETBACKS						
6	HEIGHT	Max 16m	Max 24m	12m	NA	NA	*Samples taken from existing buildings*
OTHER NOTABLE ZONING REGULATIONS					•	•	
7	"Bouwvlak"		Construction may occur at this area				
8	"Parkeergarage"	At the location of the 'parking garage' designation, a built or unbuilt parking space once created must be maintained.					
9	"Bouwaanduiding"	No buildings may be erected until the 2nd-5th floor to support and underpass					

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CASE STUDY

IJBURG - AMSTERDAM, NETHERLANDS

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4] ZONING ANALYSIS

ITLE

4.2] ZONING SUMMARY

Opposite sides of the same street



Both buildings are part of the same low rise residential zone (Wonen-1)



Function indication

L.....

Function indication parking garage

Function indication

specific form of housing - nonresidential function of the second floor

Construction designation specific building designation underpass 1

Sizing maximum building height: 18 m

22.1 Destination description

The land designated for ' Residential - 1 ' is intended for:

- a. living;
- b. home-based professions and businesses;
- c. short stay;
- d. At the location of the 'mixed' designation, companies, consumer care and business services, creative functions, offices and social services are permitted in the first floor, the basement and the basement and where indicated with:
 - 'specific form of housing non-residential function second floor' also in the second floor;
 - 'specific form of housing non-residential function multiple floors' also in the second to fourth floors;



Block 30 Facts

Dwellings per ha.

Number of Units

Parcel Size (m2)

Built Area (m2)

Parking

AMH (% of total)

Middle Sector

Free Sector

Single Family

Multifamily

Commercial

School

(% of total)

Open Space (m2)

Gross floor space (m2)

-indoor

-private

Social Rental Sector

Floor Space Index (FSI)

Groud Space Index (GSI)

Open Space R atio (OSR)

4] ZONING ANALYSIS

Scale : 1:1,250











Source: Blodau-Konick, Esther. Ijburg Density & Typology. DRO, 2008.

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Wonen-1 Advantages

- Privacy: Lower density means more distance between properties, enhancing privacy for residents.
- Reduced Traffic: With fewer residents, there may be less vehicular traffic, leading to quieter streets and safer conditions for pedestrians and cyclists.
- Individualized Housing: Lower density allows for more individualized housing options particularly the single-family homes at Reitland Isle

Wonen-1 Disadvantages

- **Reliance on Cars:** With limited public transportation options and amenities, residents may be more reliant on cars for daily activities, contributing to traffic congestion and environmental pollution.
- Potential Isolation: Spacious layouts and lower population density could lead to a sense of isolation or lack of social connectivity among residents.

Gemengd-2 Advantages

- Mixed-Use Development: Combining residential with commercial or retail spaces fosters a vibrant and walkable community with easy access to amenities.
- Economic Vitality: Commercial spaces can attract businesses and investment, contributing to the economic vitality of the neighborhood.
- **Urban Character:** Mixed-use developments add diversity to the urban fabric, enhancing the character and identity of the area.

Gemengd-2 Disadvantages

- Noise and Pollution: Increased commercial activity could result in higher levels of noise and pollution, impacting the quality of life for residents.
- Parking Challenges: Mixed-use developments may face challenges in providing adequate parking for residents, visitors, and customers, leading to parking shortages and conflicts.

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Maatschappelijk Advantages

- **Community Services:** Access to schools, healthcare facilities, religious institutions, and other community services improves the quality of life for residents and contributes to social cohesion.
- **Cultural Amenities:** Cultural centers, libraries, and community spaces provide opportunities for education, recreation, and cultural enrichment.
- **Social Equity:** Concentrating social and community services in one area ensures equitable access for all residents, regardless of socioeconomic status.
- Sense of Belonging: Maatschappelijk zones foster a sense of belonging and identity, strengthening the bonds between residents and their neighborhood.

Maatschappelijk Disadvantages

• **Growth Management:** Managing growth and expansion of community facilities while balancing the needs and preferences of residents can be challenging and may require careful planning and coordination.

Tuin/Groen - 1 Advantages

- **Natural Beauty:** Green spaces offer residents and visitors opportunities for recreation, relaxation, and connection with nature.
- **Biodiversity:** Maintaining green areas supports biodiversity and ecological resilience within the urban environment.
- **Cooling Effect:** Vegetation helps mitigate the urban heat island effect, making the neighborhood more comfortable during hot weather.
 - **Private Outdoor Space:** Residents have access to private garden areas, allowing for gardening, outdoor recreation, and relaxation.
- Community Gardens: Allotment gardens or communal green spaces
 foster community engagement, social interaction, and a sense of

Tuin/Groen - 1 Disadvantages

- Land Use Conflicts: Balancing the need for green spaces with demands for development or other land uses can lead to conflicts and debates within the community.
- Limited Accessibility: Private gardens may not be accessible to all residents, particularly those in multi-unit buildings or rental properties.

5A] APPENDIX - BIBLIOGRAPHY

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CASE STUDY

ZUIDAS – AMSTERDAM, NETHERLANDS

CON	TENT	S
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- 2. CHARACTER
- 3. BACKGROUND
- 4. ZONING ANALYSIS
- 5. APPENDIX

TEAM

Valentine Kalei

DATE 02/18/2024





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1] CASE STUDY INTRODUCTION

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1.2] FOCUS AREA (Zuidas Centre)



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1] CASE STUDY INTRODUCTION

1.2] FOCUS AREA

SECTION

2] CHARACTER

2.1] SITE LAYOUT

SITE LAYOUT

The study area is composed of Mixed-use and Residential buildings arranged in a grid layout and defined by streets, some of which are lined with green spaces.





Each building has entry points accessible from at least two directions, with the only restriction on access being limited to the walkway adjacent to the canal.





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A CLASSIC GRID

A rectangular grid of streets defines the architectural blocks. The street profiles provide a natural joint with the existing city districts that border the site.

- Major arterials
- Minor arterials





ECTION

2] CHARACTER

* Major arterials surrounding the site





- ✓ Two- Way Traffic
- Approximately 68 feet (20 m) wide with parking space, bike lanes, and pedestrian walkways on both sides.
- ✓ Buildings have been setback from the plot lines and the space utilized for outdoor seating in the case of mixed-use buildings with restaurants on the ground floor
- ✓ Buildings' entryways face the major arterials
- Presence of street furniture, amenities, and micromobility devices

IILE

2.2] STREETS

* Minor arterials within the site





- ✓ One- Way Traffic
- ✓ Approximately 40 feet (12 meters) wide with Parking space for bikes and pedestrians - some sections allow for vehicle access for entry to the building's parking facilities.
- ✓ Buildings have been setback from the plot lines and the space utilized for pedestrian access or green spaces
- ✓ Buildings' entryways also face the minor arterials
- ✓ Presence of street amenities such as garbage bins

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2] CHARACTER

TITLE

2.3] OPEN SPACES



Private Open space





The private open spaces consist of courtyards enclosed within the buildings or open areas adjacent to particular buildings.



Additionally, the site features a public plaza that provides access to the bridge facilitating passage over the canal.



The study area has a parking lot adjacent to one building and an empty lot where construction is either ongoing or stalled.

ECTION

2] CHARACTER

2.4] BUILDINGS



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BUILDING HEIGHT

Building height variations among the buildings differ notably along Gustav Mahlerlaan Street, resulting in a juxtaposition of high-rise and lowrise structures. Meanwhile, the buildings facing the canal maintain a consistent low-rise profile, with almost uniform heights across all structures.

BUILDING SETBACK

Buildings along the canal adhere to a typical style commonly seen in many structures, featuring a noticeable setback. However, along Gustav Mahlerlaan, there is a lack of visible setbacks from the buildings, likely attributed to the highrise and low-rise height pattern established along that street.

BUILDING CHARACTER

- ✓ A blend of mixed-use and Residential buildings
- ✓ Buildings have Opening on all sides of the façade
- ✓ The Façades have a combination of solid walls and transparent fenestrations
- ✓ Balconies are a common feature on almost all the buildings within the study area

SECTION

3] BACKGROUND

TITLE

3.1] HISTORICAL DEVELOPMENT

SITUATION	OBJECTIVES	ASSETS	STRATEGY	ACTION	EFFECT
After more than 15 years of economic development Amsterdam had a shortage of sites to fulfill the growing demand for business locations. The Netherlands was an attractive location for new businesses due to its international attractor	Create a new business district that enhances the position of the city and more precisely maintains the financial position of Amsterdam. The new business district aimed to attract companies with international allure and to improve infracture	Adoption of the masterplan in 1998 The strategic location of the Zuidas, was crucial for its development as it was located between two residential areas the site was more accessible and easier to develop.	ABN/ AMRO Bank need a new international headquarters The bank insisted on the Zuidas as its new location This is because the Zuidas could be linked to national infrastructure.	In 1980, the municipality of Amsterdam approved the new headquarters of the ABO/AMRO Bank in Zuidas The arrival of the World Trade Center in 1985 In 1998 the masterplan was adapted.	450 companies, 650,000m2 of office space 8000-9000 housing units, over 600 apartments Attractive financial tax system
and appealing tax regulations. The city of Amsterdam was searching for new areas of spatial expansion.	Achieve a healthy balance between living, working and amenities.	The property was mainly empty because it was created as a reservation strip in the Amsterdam Extension Plan Form 1935. 935 Amsterdam Extensior	Public money from the state could be transferred to the project. City of Amste reorient its s spatial po	Transformation 'project Zuidas' to 'Amsterdam Zuidas' Start building Vivaldi Completion Amsterdam Symphony & Mahler4-project Alo RING ROAD built underground -permanent connection to the Amstelveen line impossible	
1850 ^{1860 1870 188}	0 1890 1910 1900	¹⁹²⁰ ¹⁹³⁰ ¹⁹⁴⁰ 1950	WTC Arrival 1960 1970 1980 1990 ABN AMRO the major multinational Amsterdam-based bank decided to leave its ensemble of scattered offices in the historic inner clity for one new international headquarters.	2000 2010 2020 Municipal council approves Dol Basisdocument Zuidas	leted (expected) 2030 2040 2050 k-model



1968

1980s

2011

2024

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3.2] Planning Framework

SYSTEM OF POWERS OF THE NETHERLANDS

The administrative structure of the Netherlands is non-federal. As a decentralised unitary state, the central government in the Netherlands is supreme and delegates certain tasks to lower levels of government by law: to the 12 provinces and the 355 municipalities. Municipal and provincial authorities derive their tasks and powers from the constitution and the Municipalities Act and the Provinces Act.

RESPONSIBILITIES FOR SPATIAL PLANNING

The central government decides on land use in general terms (e.g. main roads, railway lines, energy distribution networks, nationally and internationally important habitats). Provincial governments adapt/alter national plans into a regional context, focusing on issues such as landscape management, urbanization, and the preservation of green spaces. Municipalities transpose provincial plans into local policy and allocate land for specific purposes.

	Planning level	Planning instrument	Content of plan	Legal basis	Policy maker	Legal impact	Scale
State Government	National	National structure plan (<i>structuurvisie</i>)	Presents the main aspects of spatial policy at the national level	Spatial Planning Act, 2006 (Wet ruimtelijke ordening, Wro)	State (government ministry)	Non-binding	State
	National, provincial and municipal	Project plan (projectplan)	Facilitates the approval of developments that contradict existing land use plans	Spatial Planning Act, 2006 (Wet ruimtelijke ordening, Wro)	State, province or municipality	Binding; take precedence over land use plans (see below)	Dependent
12 Provinces	Provincial	Provincial structure plan (<i>structuurvisie</i>)	Presents the main aspects of spatial policy at the provincial level	Spatial Planning Act, 2006 (Wet ruimtelijke ordening, Wro)	Province	Non-binding	Province
	Provincial	Rural development plan (<i>landinrichtings-</i> <i>plan</i>)	Land-use plan for rural areas with low development pressure	Spatial Planning Act, 2006 (Wet ruimtelijke ordening, Wro)	Province	Non-binding	Rural area within a province
355 Municipalities	Municipal	Municipal structure plan (<i>structuurvisie</i>)	Presents the main aspects of spatial policy at the provincial level	Spatial Planning Act, 2006 (Wet ruimtelijke ordening, Wro)	Municipality	Non-binding	Municipality
	Municipal	Local plan (bestemmings-plan)	Sets out where development may take place, what may be built, size of development and what it may be used for	Spatial Planning Act, 2006 (Wet ruimtelijke ordening, Wro)	Municipality	Binding	Municipality

SECTION

3] BACKGROUND

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3.2] Planning Framework

STAKEHOLDERS	ADMINISTRATIVE AREA	ORGANIZATION OF SPATIAL PLANNING IN THE NETHERLANDS
MINISTRY OF THE INTERIOR AND KINGDOM RELATIONS	Drafts planning acts, policies, spatial visions and imposed land-use plans	General framework Sectoral Plans National
MINISTRY OF INFRASTRUCTURE AND WATER MANAGEMENT	Develops policy in the areas of mobility, water management, aviation, maritime affairs and the environment (except climate)	NATIONAL POLICY STRATEGY FOR INFRASTRUCTURE AND SPATIAL PLANNING STRUCTURVISIE INFRASTRUCTUR EN RUIMTE Structure in the main aspects of the STRUCTURVISIE IMPOSED LAND-USE PLANS IMPOSED LAND-USE PLANS Present the main aspects of the STRUCTURVISIE IMPOSED LAND-USE PLANS STRUCTURY VISIE IMPOSED LAND-USE PLANS Structure Plan Structure Plan NATURE PROTECTION PLANS Specify areas and types of areas of high importance for nature and for landscape Have the legal status of a Structure Plan IMPOSED LAND-USE PLANS Structure Plan NATURE PROTECTION Present the main aspects of the Structure Plan NATURE PROTECTION Present the main aspects of the Structure Plan NATURE PROTECTION Present the main aspects of the NATURE PROTECTION Present the main aspects of the NATURE PLANS NATURE PLANS Structure Plan NATURE PLANS NATURE PROTECTION Present the main aspects of the NATURE PLANS
DIRECTORATE-GENERAL FOR PUBLIC WORKS AND WATER MANAGEMENT	Responsible for the development and maintenance of the main road and waterway network	Altonal government can impose Iand-use plans which override land- use plans of municipalities - Typical scale: 1 : 15 000 IMPOSED LAND USE PLANS - IMPOSED LAND USE PLANS - IMPOSED LAND USE PLANS - IMPOSED LAND USE PLANS - Typical scale: 1 : 2 500 WATER PLANS - Have the legal status of a - Cover the entire Netherlands, divided into river catchment areas; provinceal governments can impose
NETHERLANDS ENVIRONMENTAL ASSESSMENT AGENCY	Monitors public policy on environmental and regional planning issues and provides independent policy advice to government	STRUCTUURVISIE Present the main aspects of the spatial policy of a province The provincial government approves its own structure plan RURAL DEVELOPMENT PLANS LANDINRICHTINGSPLAN Land-use plans for rural areas with
PROVINCE	Prepares provincial spatial visions and imposed land-use plans	Municipal low development pressure PROJECT PLANS where needed for special protection purposes STRUCTURE PLANS - See above (project plans can be made at national, provincial or municipal level) - Exist at national, provincial or municipal level • Present the main aspects of the spatial policy of a municipal government approves • BESTEMMINGSPLAN • Main land-use plans, obligatory for • The municipal government approves • Main land-use plans, obligatory for • Main land-use plans, obligatory for
MUNICIPALITY	Prepares municipal spatial vision and local land-use plans	its own structure plan Typical scale: 1: 15 000 MANAGEMENT OR DINANCE Sub-ordinate plans must conform BEHEERS VEROR DENING Primarily policy / strategic guidelines For areas where no significant Primarily land-use plans
HOUSING ASSOCIATIONS	Have historically played a major role in constructing housing in the Netherlands	change in use is foreseen Partial geographical coverage

SECTION

3] BACKGROUND

3.3] Neighborhood/ Context



MACRO-SCALE ANALYSIS

Zuidas (literally 'Southern Axis') is a major new development zone in Amsterdam. It is said to be a top international location where people and commerce come together. Zuidas enjoys excellent accessibility from the surrounding city and far beyond. The district lies alongside a major national motorway, while the international station in the heart of the district brings **Amsterdam Airport** Schiphol within a few minutes by train.

ECTION

3] BACKGROUND

3.4] Neighborhood/ Context



▼ Schiphol (7 minutes by train)



▼ Museumplein (10 minutes by tram)



Amstelscheg (10 minutes by bicycle)
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MACRO-SCALE ANALYSIS

Zuidas covers an area of approximately 270 hectares, dissected by the A10 motorway (freeway) and railway lines. **Approximately six** million people live within a one-hour journey time by car, train, metro from **Amsterdam's Central** Station, trams from the city center and Museumplein, buses from throughout the region, by bicycle or on foot using the finely meshed urban road network. A marked advantage is Zuidas' position just a few minutes of **Amsterdam Airport** Schiphol, a major international hub which sees 25 million passenger movements each year.

3] BACKGROUND

3.5] Neighborhood/ Context

MICRO-SCALE ANALYSIS

18. ABN Amro HQ Bank

20. EY Consultant Offices 21. XS4ALL Data Centre 22. Holiday Inn Hotel

The financial district of Zuidas in Amsterdam has developed into a successful business centre. There are around 800 Dutch and International companies currently based in and around Zuidas. These include, banks, FinTech businesses, consultancies and financial, legal and business services companies. Additional facilities for economic activities also located in Zuidas are the RAI Convention Centre and the World Trade Centre. The Vrije University, one of Amsterdam's two main universities is also located here. Another important function of Zuidas is of a medical and life sciences hub. This is made up of the University Hospital, Amsterdam UMC, the Academic Centre for Dentistry Amsterdam (ACTA) and the newly opened head office of the European Medicines Agency (EMA).



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NETWORKS

Public Transit

Zuidas is well served by public transport. A key strength of Zuidas is its strategic location within the national rail network and the urban metro system. The cycle network

Amsterdam has an extensive, finely meshed network of cycle routes with little hierarchy. The cyclist can access virtually every part of the city, with many dedicated cycle paths to maximize safety and convenience.

Pedestrians

All areas must be inviting and safe for pedestrians. Pavements (sidewalks) are at least 3.50 metres wide. Motor Traffic

Zuidas is a two-tiered hierarchy: the main road network and the other streets. The network of multifunctional streets offers several alternative routes.

Tram and metro connections



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3] BACKGROUND

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3.5] Transport and Accessibility

Pedestrian Access



Public transport network



Motorized Traffic network



ECTION

3] BACKGROUND

IILE

3.6] Program



ZUIDAS CENTRE

Zuidas Centre, the 'downtown area', is the most densely built-up district of Zuidas. Incorporating a relatively high proportion of residential usage opens up new opportunities to create a mixed-usage area with offices, homes, and public amenities, with a strong emphasis on high-end retail outlets. The focal point of this district is Station Zuid, which takes on growing significance for Amsterdam as a whole.





ECTION

4] ZONING ANALYSIS

TLE

4.1] ZONING MAP

ZONING

The Gershwin zoning plan was adopted by the municipal council for the Gershwin project area on December 10, 2003, for the realization of a mixed residential and working area in a highdensity. The Gershwin subproject has now been largely completed.





Zuidas Zoning plans



SECTION

4] ZONING ANALYSIS

4.2] ZONING SUMMARY







รเ	JMMARY OF ZONING REGULATIO	ONS (See Appendix for suppor	NOTES:		
1	ZONING DISTRICTS	R7	M1	Gershwin has several zoned districts, Residential 1-11 and Mixed 1-4	
2	LAND USE	Residential	Mixed	The permitted land uses are Residential and mixed use	
3	FAR	4	5.5	No specific FAR Listed, however, from the calculations e.g. (8600sqm gross floor area / 1980 plot area = 4.3 (rounded off to 4)	
4	SITE COVERAGE	70%, 60%, 30%	95%, 75%, 25%, 12%	Site coverage is determined by building height; e.g. up to 12 metres=70%, up to 32metres= 40%, more than 32m=30%	
5	SETBACKS	3 – 4.5 metres	3 – 4.5 metres	No specific Setback distance Listed, however, from the measurement, the setbacks range from 3 to 4.5 metres	
6	HEIGHT	41 metres	77 metres	Maximum Building Height varies according to the zoning district	
01	HER NOTABLE ZONING REGULATIO	NS			
7	NOISE REDUCTION	Homes must have a	noise reduced side	Buildings must have a noise-sensitive or deaf façade or curtain wall on the relevant side.	
8	OTHER STUCTURES / USES	Building Heig	ght Limitation	For structures other than buildings, a maximum building height of 3 metres applies; Functions of business are only permitted up to a height of 12m	
9	PARKING	For offices = 1 per 250m2 GFA, For Homes = 1 per 100sqm GFA		The Zuidas principles for parking also apply to the Gershwin planning area	

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ECTION

TITLE

ZUIDAS - AMSTERDAM, NETHERLANDS

4] ZONING ANALYSIS

4.3] ZONING EXPLAINED

GRID STRUCTURE AND ALLOTMENT STRUCTURE

The dimensions of the grid are compact with plots of 45x59 meters on the north side and 45x44 meters on the south side. Most plots must leave a percentage undeveloped for collective greenery. This must adjoin public space on at least one side.



The plan for the Zuidas is based on the collective framework, the urban grid, in which the tower positions in a checkerboard pattern organize spatial coherence at a higher level. The grid structure guarantees great transparency in the north-south direction, allowing good visual and functional connections with the neighboring zones

CITY AND WATER BLOCKS

There is a strong contrast between the north side, the Mahlerlaan with urban characteristics, and the south side, the De Boelelaan with a more relaxed profile on the watercourse. This distinction between both sides of the area is reason to characterize the blocks on the north side as city blocks and the blocks to the south as water blocks. There is a difference between the two zonings in plot sizes, building heights, and density, but also in the program.

ECTION

4] ZONING ANALYSIS

TLE

4.4] ZONING EXPLAINED

The Building height scheme is further refined because all blocks are constructed in layers as the Zuidas block type is constructed in principle, i.e.: the plinth layer up to 8-12 meters, the substructure up to 32 meters and the towers.

- Plinth zone: for the city blocks, the plinth layer, up to a maximum of 12 meters high, is mainly intended for the entrances, facilities, and the commercial program.

- Middle zone: The middle zone is located between 8 and 32 meters. Six floors are possible for the city blocks. This zone, together with the plinth zone, forms the street wall and is especially suitable for stacked apartments, which are combined with extra facilities in the high city blocks.

- Top zone: The third zone, the top zone, only occurs in the high city blocks, up to a maximum height of 67 and partly 77 meters. This zone is ideally suited for "tower villas" with living qualities that are determined by views and size. The top zone consists of a maximum of 14 floors.

ECTION

BUILT-UP / UNDEVELOPED AREA

For the low city blocks and all water blocks, it is indicated what percentage of the plot must remain undeveloped. This is usually around 25-30%.

This undeveloped surface must be provided with a sufficient growth or soil layer.

These must border the public area and also be visible from the public area.

SPATIAL FUNCTIONAL APSECTS

In the Zuidas Vision, the concept of the urban environment is formulated by indicating four futureproof values. These are: complementary to the city center, accessibility, longevity and a relaxed city.

The last two, the "sustainable city" idea and the "relaxed" city, relate directly to the layout of the Gershwin sub-area. The program for Gershwin is aimed at creating an urban environment that fits in well with the other buildings in the Zuidas core area.

Gershwin's program is partly aimed at achieving a 50-50 living-working ratio throughout the Zuidas. The program for Gershwin roughly consists of the following components:

- Residential area with a minimum gross floor area of 129,850 ^{m2}
- Maximum 63,770 m² gross floor area of offices/businesses
- Minimum 28,450 m² gross floor area facilities
- Approximately 2,400 parking spaces

5A] APPENDIX - BIBLIOGRAPHY

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SECTION APPENDIX

BUILDING HEIGHT

- The majority of buildings in Zuidas will comprise a substructure of 30 meters in height, surmounted by high-rise towers. This concept enables a high density to be achieved.
- Applying the maximum height of 30 metres ensures that inner courtyards will enjoy ample natural light. The maximum height of the towers is restricted by the fact that Zuidas is immediately below the flight path to and from Schiphol Airport.

Maximum building height according to guidelines for Schiphol

Construction zone
Maximum building height
Dispensations issued thus far
Zone in which taller buildings may be permitted

- However, because Schiphol's air traffic control relies on a sophisticated Instrumental Landing System (advanced radar), it is possible to make a limited number of exceptions, as shown on the map.
- The overall result is that Zuidas when seen from a distance will present a skyline of high-rise buildings. This will be an impressive feature of the city and surrounding region, serving to emphasize the dynamic of Zuidas itself.

5B] APPENDIX – SUPPORTING RESEARCH

SUSTAINABILITY

Zuidas's builders have made sustainability a top priority. There is enormous interest in energy-efficient buildings, circularity, green areas, and water in, on, and around buildings.

The bundle of heavy infrastructure is shifted underground over a distance of 1.4 kilometers. Releasing an enormous amount of space above the infrastructure. With approximately three million square meters of floor area, the Zuidas will be of a similar scale to La Défense in Paris and the Docklands in London.

Bike sharing

Electric cars

Electric scooters

Water-retardant green belt

COMPARATIVE ANALYSIS WITH OTHER INTERNATIONAL DEVELOPMENTS

London Canary Wharf

- **Currently:** 1.5 million m2, including offices, homes, 200 shops, hotels, bars and restaurants
- Development: a further 0.4 million m2, depending on market demand
- Ambition: construction of the highest quality in a tranquil and healthy environment for employees and visitors

Paris La Défense

- **Currently:** 3.3 million m2 offices; 0.6 million m2 residential usage; 0.2 million m2 retail
- **Development:** a further 0.5 million m2 (mixed programme)
- Ambition: a 'future-proof' new La Défense; only sustainable projects will be considered

Amsterdam Zuidas

- **Currently:** 1.5 million m2 construction.
- Development: growth to 4.2 million m2 (38% offices, 29% residential and 33% amenities).
- Ambition: successful and recognizable, compact and liveable, efficient and responsible.

Amsterdam Centre

- Currently: 0.5 million m2 commercial/light industrial; 1.4 million m2 offices; 3.5 million m2 residential and 2.2 million m2 amenities.
- Development: increasing demand for small business premises.
- Ambition: a good balance between residential and business usage; less motorized traffic with greater use of the bicycle and public transport.