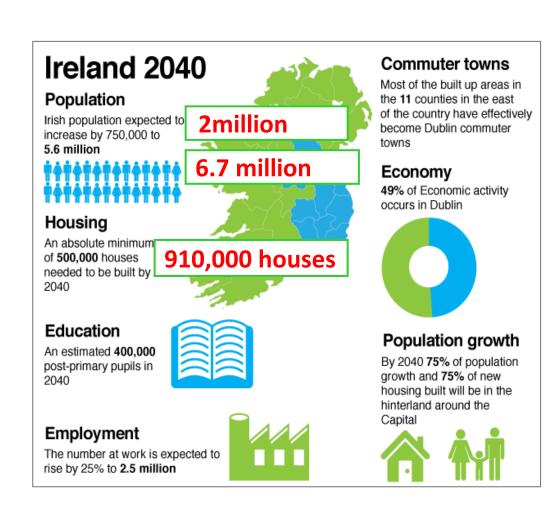
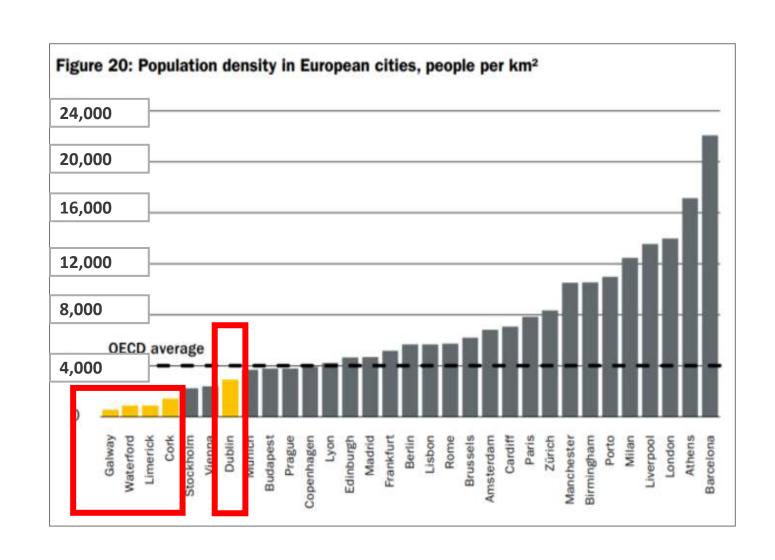


WHAT IS THE PROBLEM?

- IRELAND'S POPULATION GROWTH
 - 1M to 2040 (NDP) 2M to 2050 (CSO)
- LOW DENSITY URBAN GROWTH
 - UNSUSTAINABLE
- CLIMATE CHANGE
 - WINDOW OF 12 YEARS TO ADDRESS IT (IPCC)
- SPRAWL ERODING AGRICULTURAL LAND
 - DEVELOPMENT DENSITIES TOO LOW



WHAT IS THE PROBLEM?



IBEC REPORT 2018

WHAT IS THE PROBLEM?

- OVER RELIANCE ON DUBLIN GROWTH
 - CONGESTION SPRAWL GHG EMISSIONS
- CORK, LIMERICK, WATERFORD, GALWAY
 - INDIVIDUALLY SMALL FOR MAJOR FDI AND GROWTH. COLLABORATE NOT COMPETE
- DUBLIN BELFAST CORRIDOR
 - POTENTIAL AS ECONOMIC DRIVER
- TRANSPORT/SERVICES INFRASTRUCTURE
 - MAJOR INVESTMENT NEEDED
- NEED FOR LONG TERM PLANNING NOW
 - ROADMAP FOR SUSTAINABLE CITY AND TOWN DEVELOPMENT TO 2070



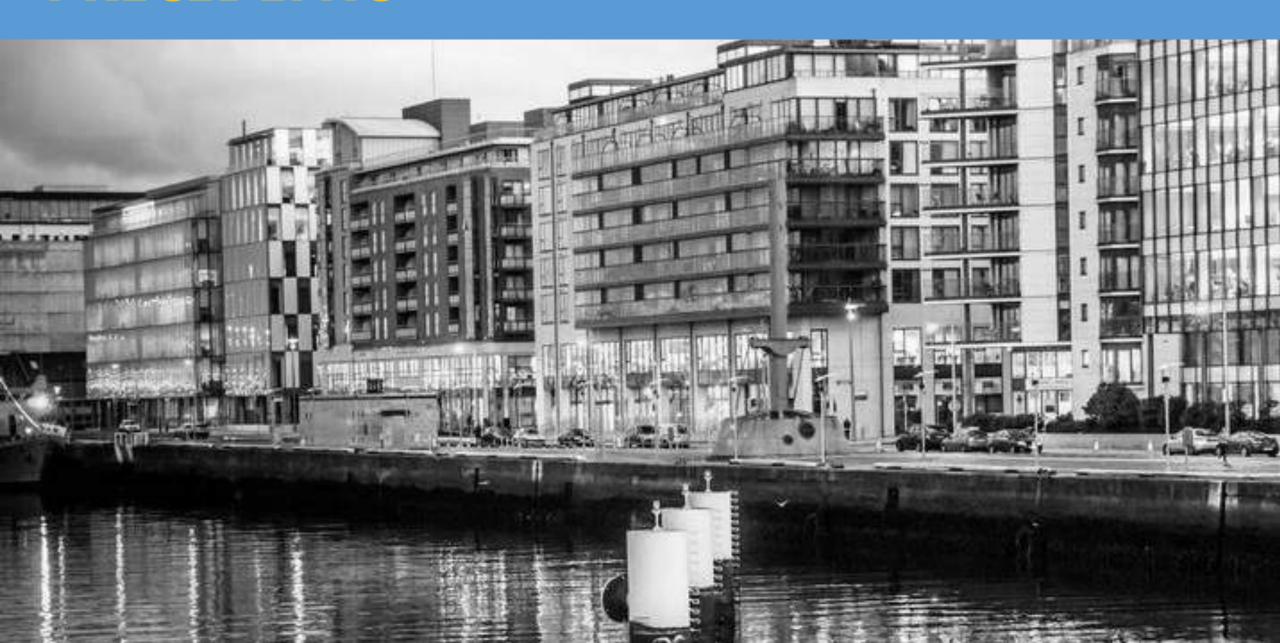
WHAT DO WE NEED TO ACHIEVE?

- COMPACT DENSE, SUSTAINABLE URBAN DEVELOPMENT - AFFORDABLE HOUSING
- CARBON NEUTRAL, ENERGY POSITIVE, BIODIVERSE
- RETENTION OR EXPANSION OF IRELAND'S AGRICULTURAL AND AMENITY LANDS
- EXCELLENT GLOBAL QUALITY OF LIVING INDEX
- HEALTHIER, MORE ACTIVE CITIZENS
- GROW EXCELLENT FDI + INNOVATION ENVIRONMENT
- EFFICIENT WORKING PUBLIC TRANSPORTATION WITHIN CITIES AND NATIONALLY
- CITIES THAT SUSTAIN CONTINUAL DEVELOPMENT THROUGH ACCUMULATED FUNDS





PRECEDENTS







HAMMARBY SJOSTAD, STOCKHOLM

Early 1990s



HAMMARBY SJOSTAD, STOCKHOLM 2009



GRAND
CANAL DOCK,
DUBLIN 2000



GRAND
CANAL
DOCK,
DUBLIN
2018







BO 01, MALMO 2009





BO 01, MALMO 2009











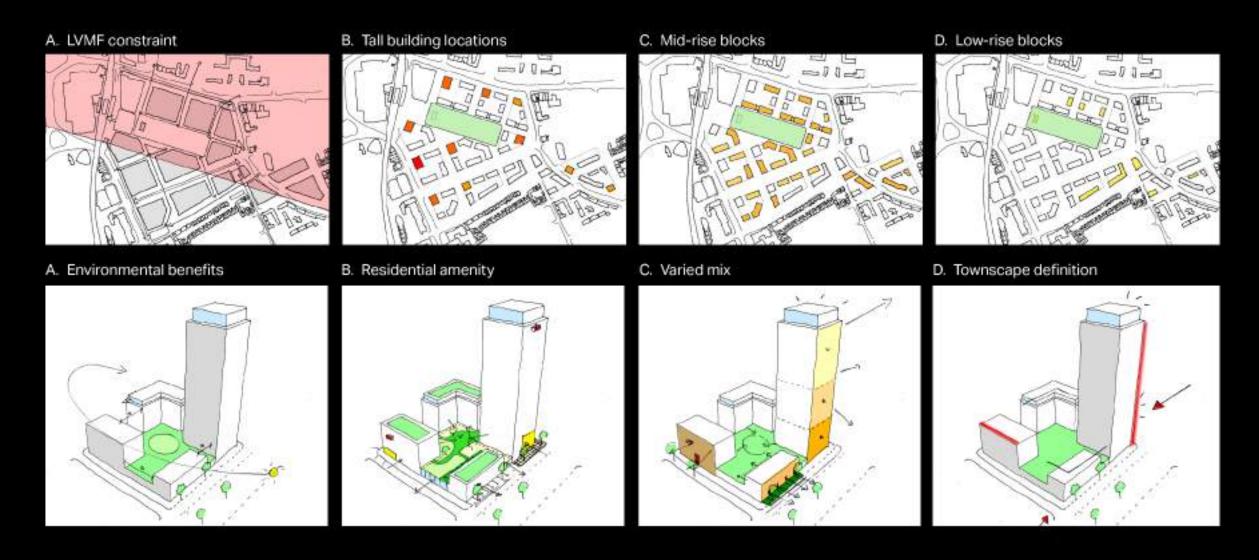




Heygate Estate John Prevc - MAKE

Height constraints and block typologies

A unique urban and commercial model John Prevs - MAKE





Heygate Estate
Elephant & Castle
John Prevc - MAKE

PRINCIPLES

- Don't expand existing cities Densify
- Protect or establish Green Belts
- Release Brownfield Land
- Encourage mixed use, small blocks
- Improve local decision making powers
- Ensure local community engaged and in place
- Support LDA and LAs to drive density









SOME LESSONS FROM TWO EUROPEAN CITIES

COPENHAGEN



DEVELOPMENT STRATEGY - COPENHAGEN

- Unlock land inside city boundaries close to existing centres
- Capitalise infrastructure through rezoning of <u>publicly</u> owned land
- Transit oriented development
- CPH City & Port prepare masterplan prior to sale to developers
- Development isolated from political interference

TRANSFER OF ASSET 0

National and local government transfer assets to CPH City & Port

LAND VALUE INCREASES

As a result of new zoning

INFRASTRUCTURE INVESTMENT

Capital invested in metro construction, local infrastructure & public amenities for development

REVENUE SERVICES DEBT 07

Revenue generated used to service debt and reinvest in company

REZONING OF LAND

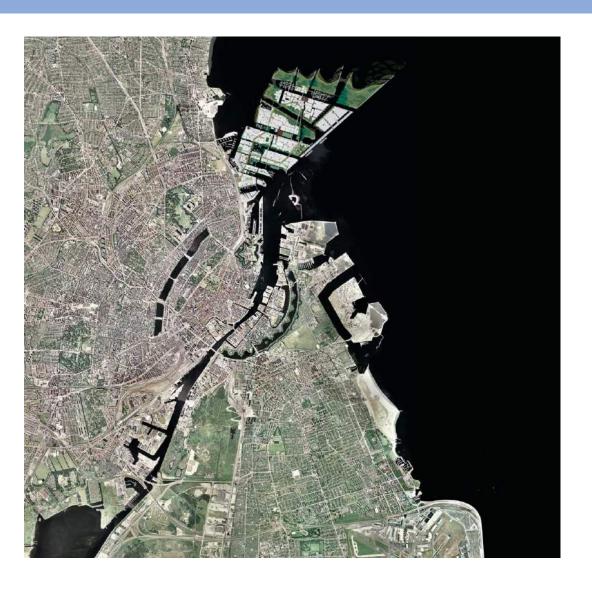
Local government rezones the land for residential and commercial use

LOAN BASED ON NEW VALUE

CPH City & Port get loans on favourable terms from the Denmark National bank

FACILITATION OF DEVELOPMENT

CPH City & Port develops masterplan with criteria for developers for agreed sale or lease of land. City & Port remains owners of public land and infrastructure

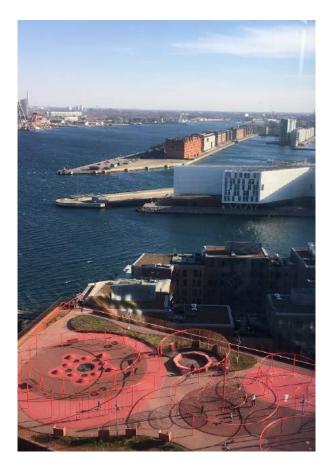


Site Area	300 ha (100 reclaimed)
Timeline	2012-2050 (Ph 1: 2025)
Residential(50%)	1,700 000 m2 40,000 residents
Commercial	1,700 000m2 40,000 jobs

- Regeneration of port to mixed use urban district
- 5 min neighbourhoods
- 33% bicycles, 33% public transport max 33% cars

CAR PARKING STRATEGY

- No basement car parking
- Multi storey car parks designed for re-use as offices or residential as car parking needs reduce



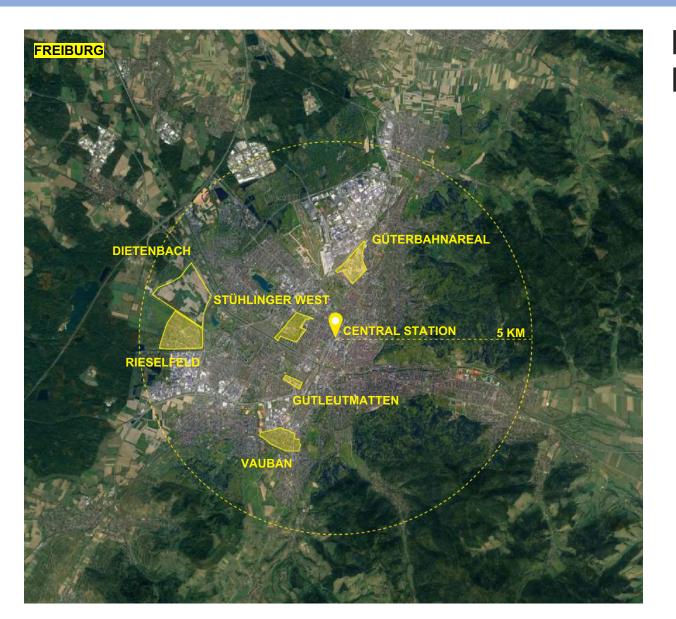








LESSONS FROM FREIBURG



DEVELOPMENT STRATEGY -FREIBURG Densitying within City limits

- since 1980
- 15 year Land Use Plan experts, politicians, public
- City acquires land close to current use value
- Capitalises infrastructure and amenities through re-zoning
- Small plots sold to developers, building groups and private builders

LESSONS FROM FREIBURG

DEVELOPMENT INVESTIGATION

New land development based on housing need, within existing land use plan. Right to obtain land



LAND ACQUISITION **APPROVAL**

Council approves programme for land acquisition and development, including a set future land value



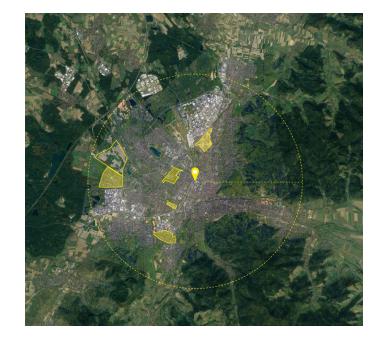
DESIGN COMPETITION

Open design competition for masterplan, within the programme



DEVELOPMENT BRIEFS

Based on winning masterplan, council prepares briefs for developers, building groups and private owners



ALLOCATE PLOTS

Developers, building groups and private owners compete for land, based on quality of proposals



FACILITATE DEVELOPMENT

Council receives loan from local bank (Sparkasse) to prepare land for development (infrastructure, amenities etc)



Generated revenue from sold land is used to repay the loan



LESSONS FROM FREIBURG:

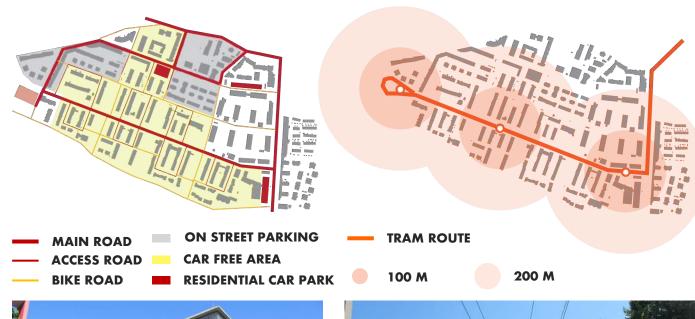




Site Area	38 ha
Timeline	1993-2007
Residential	2,500 dwellings 5,500 residents
Commercial	Town centre retail Creches and school

- Regeneration of military barracks
- 45% of people opt for no car / parking
- Energy standards 1/3 German average
- Small plots majority reserved for building groups and small builders
- Car free streets, no parking, only loading

LESSONS FROM FREIBURG: VAUBAN







TRANSPORT HIERARCHY

- People first approach
- Extensive pedestrian and bike network
- Car free area: 5km/h speed limits
- Multi-storey car parks built based on demand – reserved plots now community garden
- Green tram line less noise, less pollution, lower cost

LESSONS FROM FREIBURG: VAUBAN







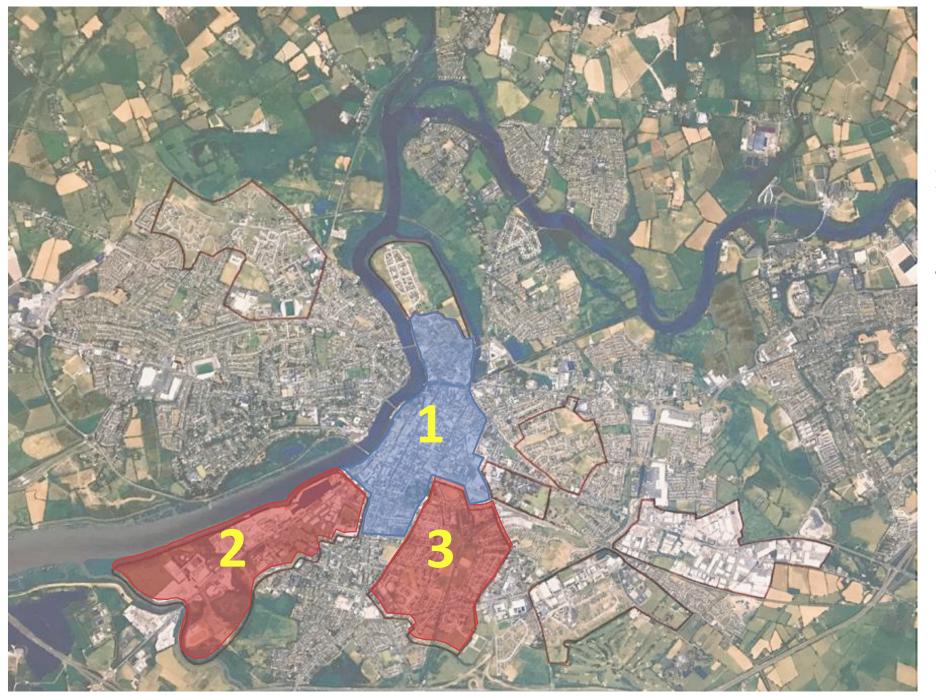


VAUBAN KEY FEATURES

- Variety of architecture and mixed-use buildings
- Biodiverse lush landscape
- People oriented streets

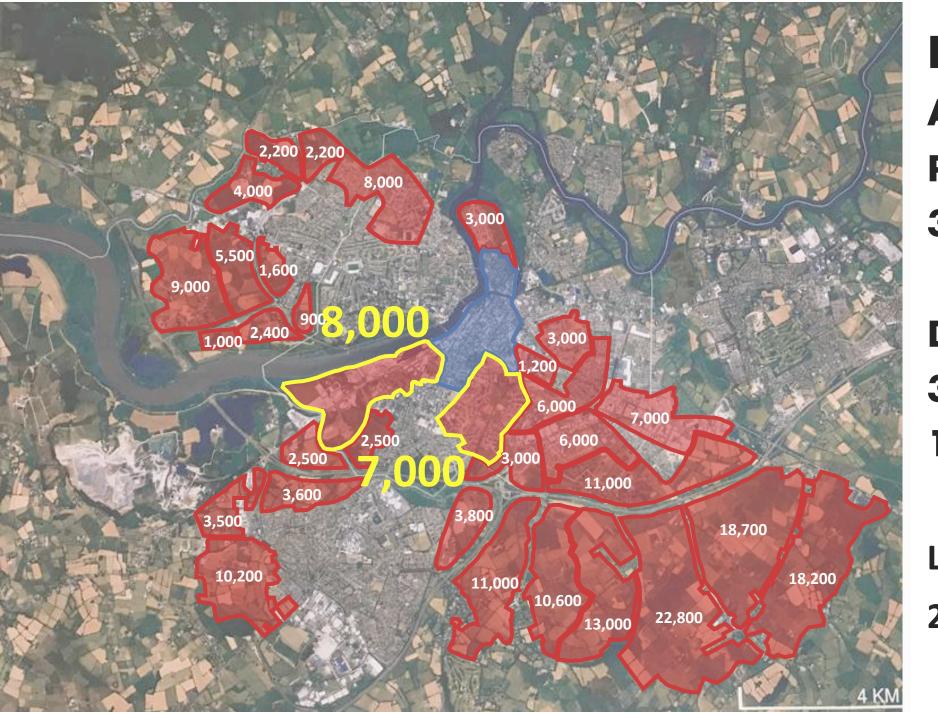


WHAT COULD DENSIFYING OUR CITIES MEAN?



Limerick

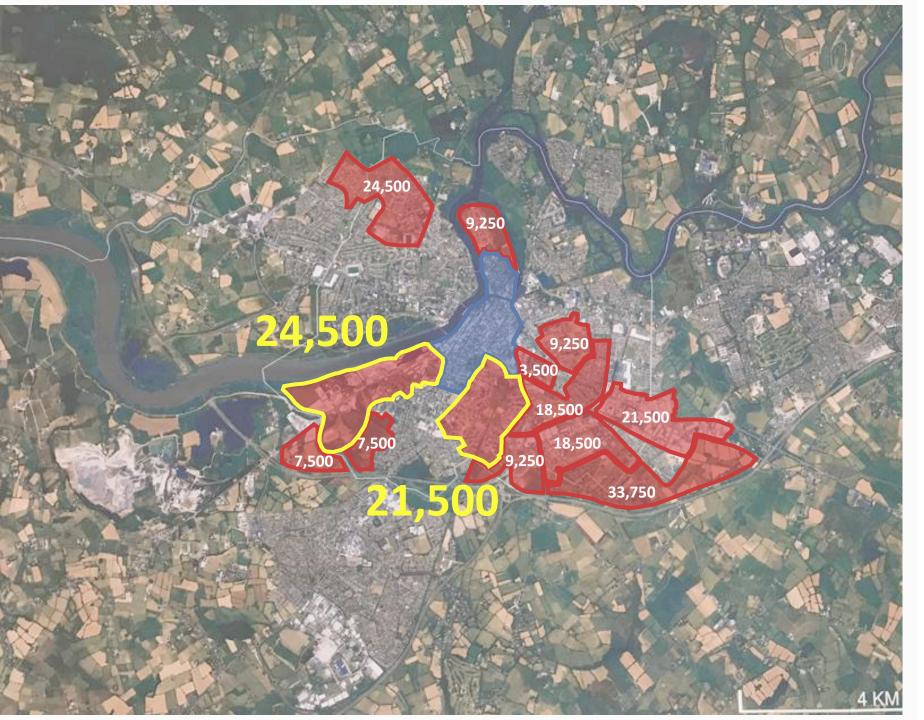
- 1. Limerick City Centre
- 2. Limerick Docklands
- 3. Ballinacurra-Weston Limerick Central Park



Limerick
Additional
Population
300,000 - 210,000

Density
35 Residences / Ha
100 People / Ha

Land Required
2,124 Hectares (100%)



Limerick
Additional
Population
300,000 – 210,000

Density
115 Residences / Ha
330 People / Ha

Land Required
682 Hectares (32%)



Limerick Docklands





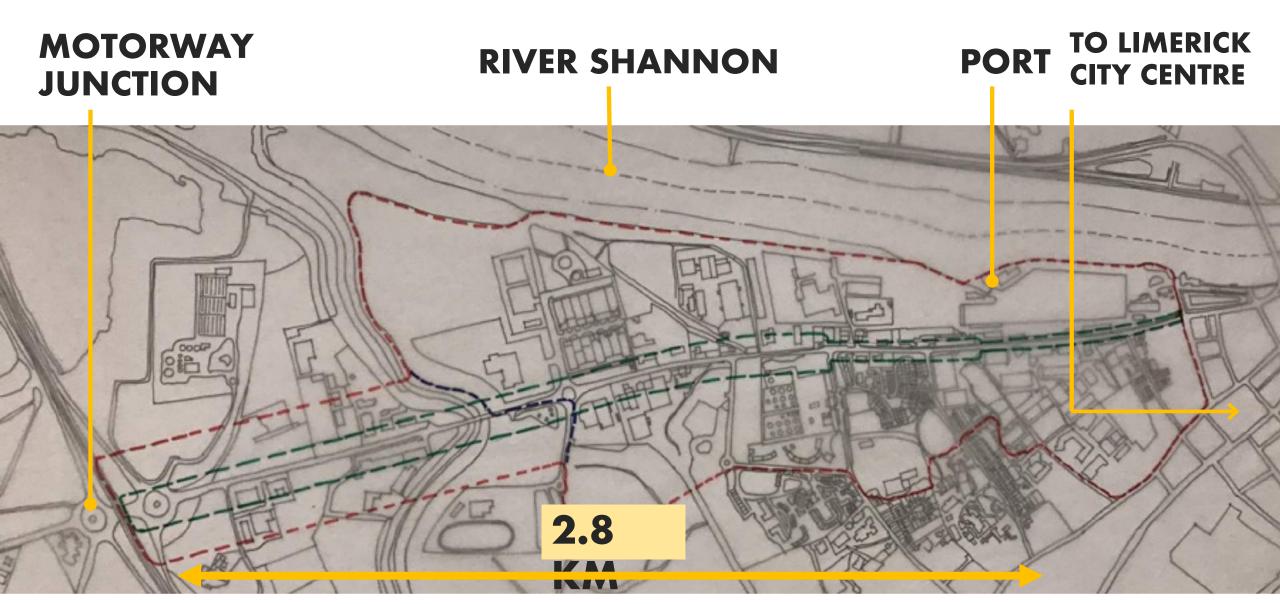








Limerick Docklands - 2019



Limerick Docklands - 2019



Limerick Docklands - 2050?

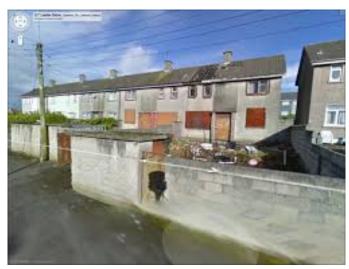


Limerick
Ballinacurra Weston
Central Park





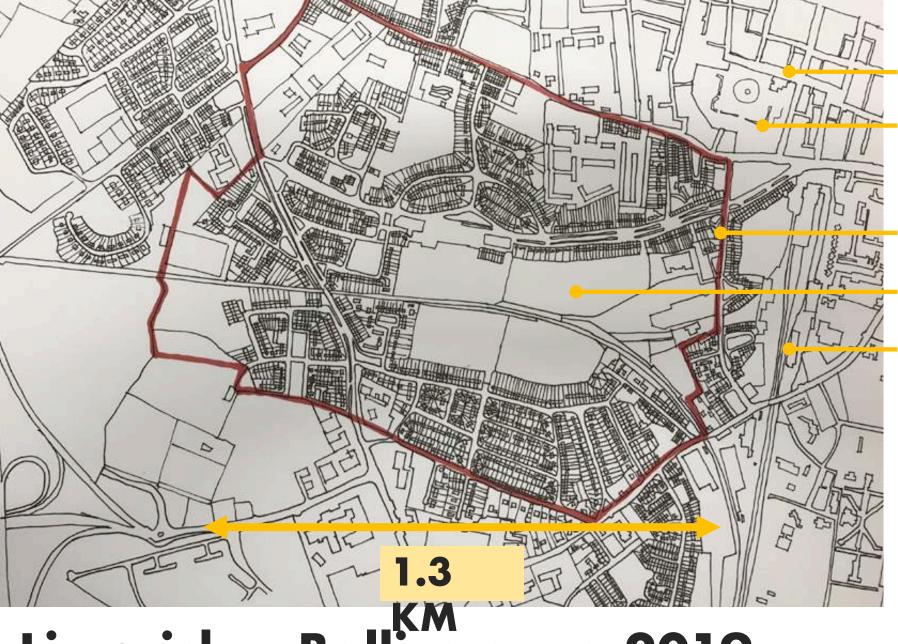








Limerick - Ballinacurra 2019



LIMERICK CITY CENTRE **Pery Square**

Upper Carey's Road Caledonian Park LIMERICK RAILWAY STATION

Limerick – Ballinacurra 2019



PERY SQUARE

LIMERICK RAILWAY STATION

Early Phases of Development



LIMERICK CITY CENTRE
PERY SQUARE

LIMERICK RAILWAY STATION

Mid Phases of Development



Limerick - Ballinacurra 2050?

LIMERICK CITY CENTRE PERY SQUARE

PARK OR CIVIC SPACE

LIMERICK RAILWAY STATION

CENTRAL PARK

PARK OR CIVIC SPACE

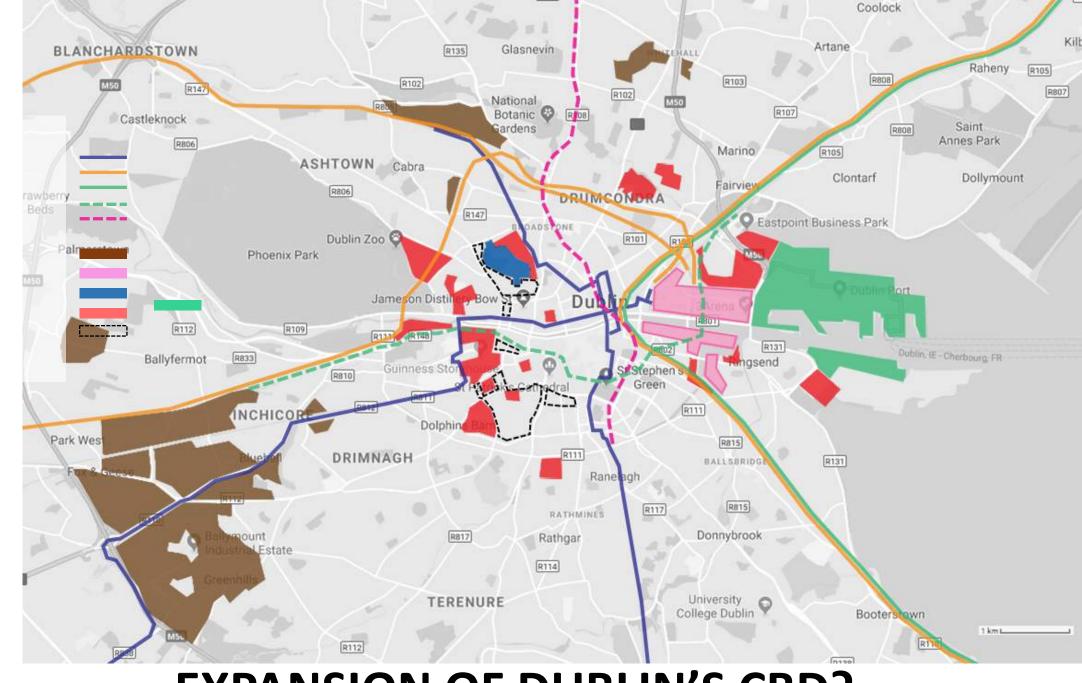
80% Residential – 20% Commercial 11-14,000 Dwellings 26-32,000 Population 280-350,000 sq m Commercial 4-12 Storeys

160-200 residences/hectare

LEGEND

LUAS Suburban Lines DART Proposed DART underground Proposed METRO

Industrial Estates
Docklands 1989-2020
Grangegorman
Potential available sites
Areas for densification
Dublin Port



EXPANSION OF DUBLIN'S CBD?



Dublin Broombridge













Dublin Industrial Estate, 2019



TOLKA VALLEY PARK

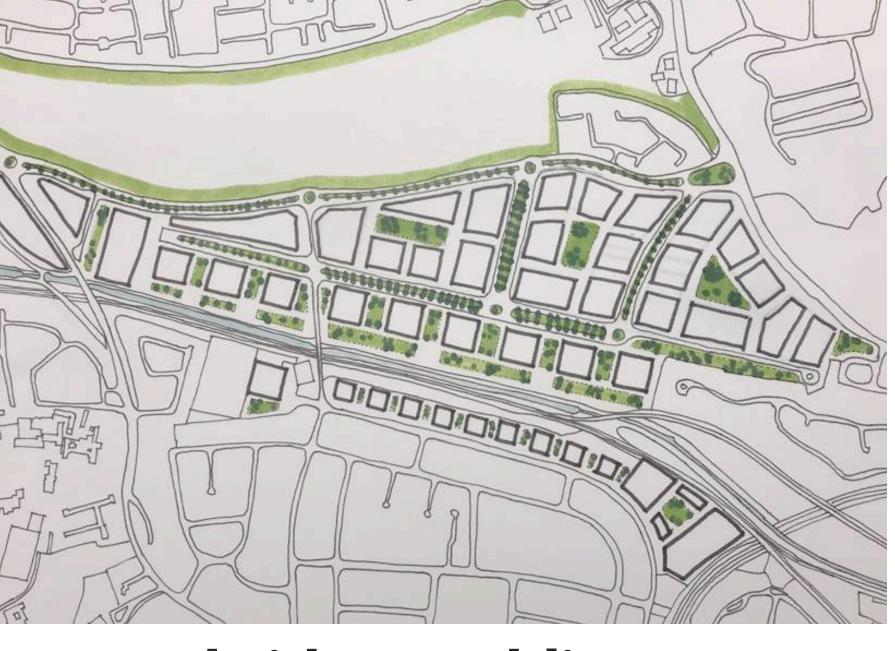
DUBLIN INDUSTRIAL ESTATE

ROYAL CANAL

BROOMBRIDGE LUAS STOP

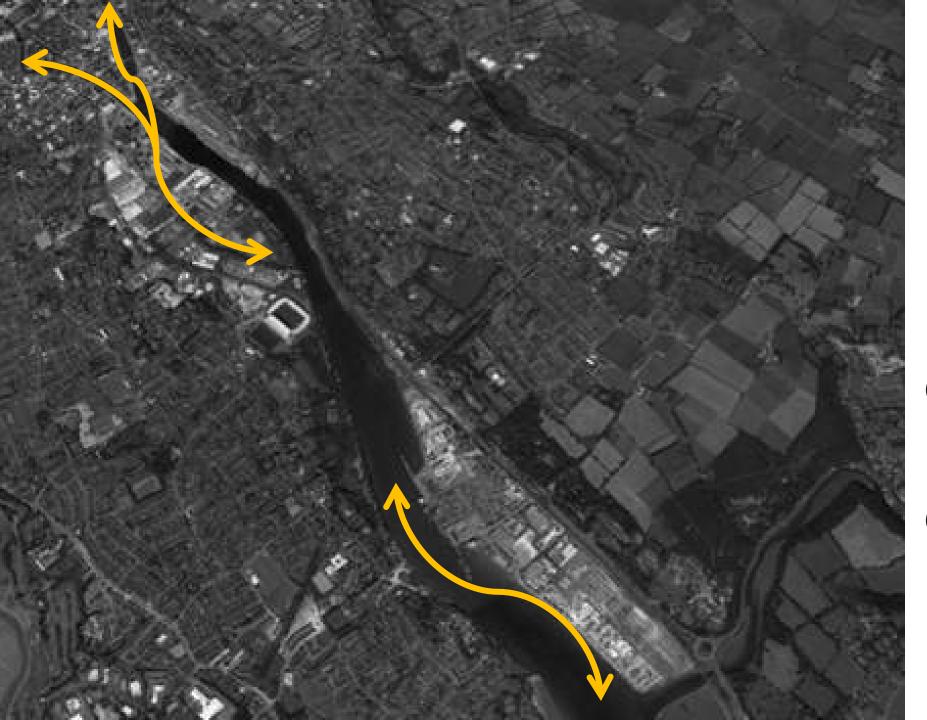
CABRA WEST

Broombridge, Dublin 2019

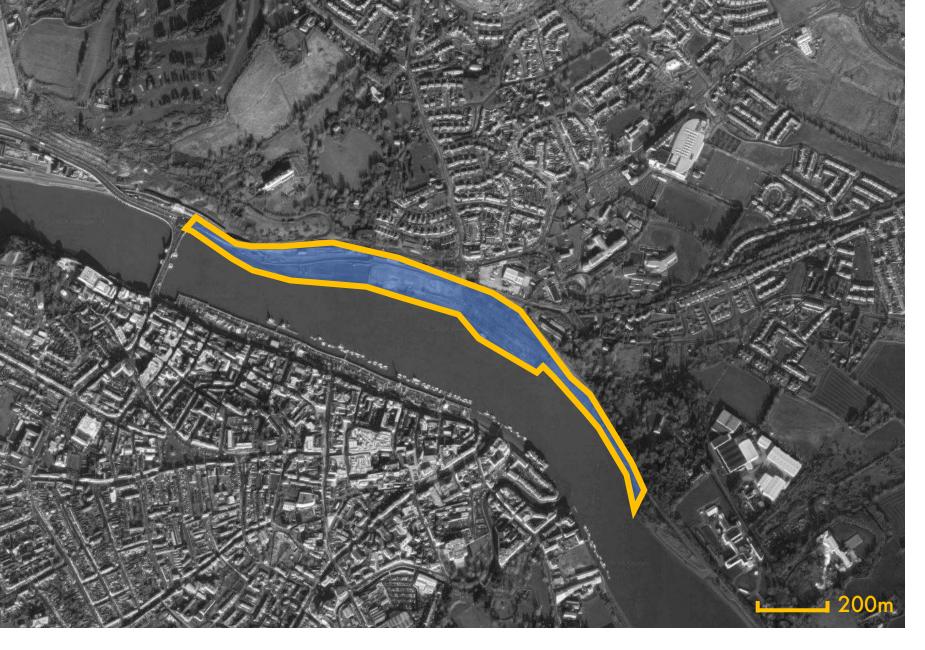


55 hectares
80% Residential – 20%
Commercial
11-13,000 Dwellings
25-30,000 Population
270-325,000 sq m
Commercial
4-12 Storeys
200-240
residences/hectare

Broombridge, Dublin 2050?



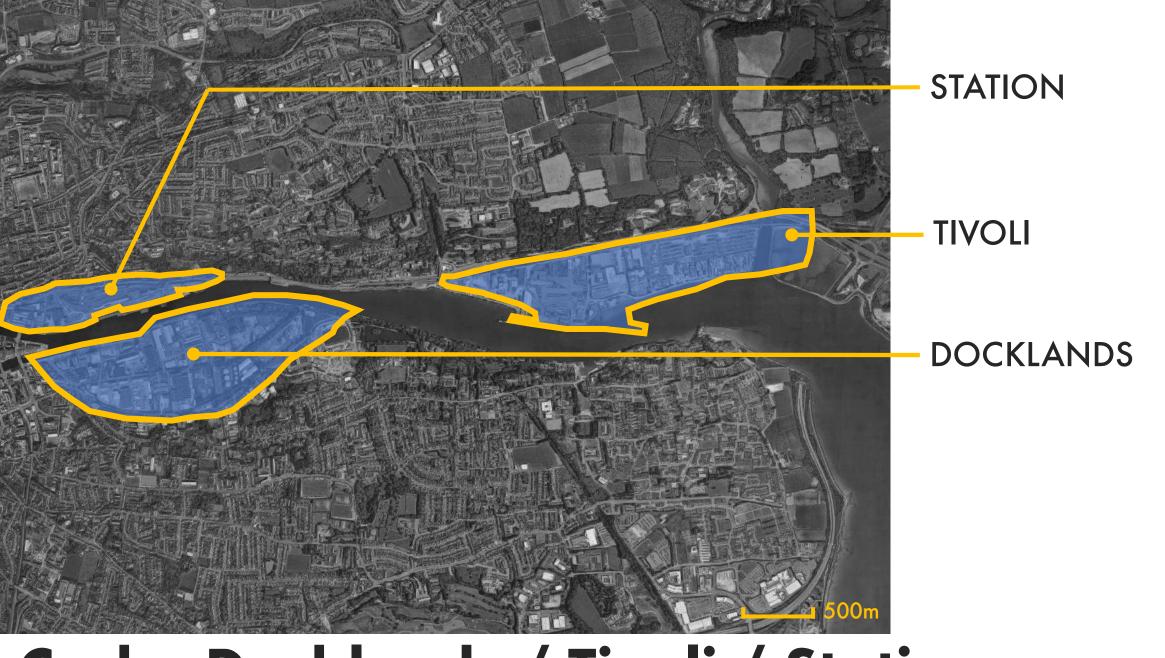
OTHER IRISH CITIES



Waterford - North Quays



Galway - Docks



Cork - Docklands / Tivoli / Station













DUBLIN, CORK, WATERFORD, LIMERICK, GALWAY 2070?