Urban Design Studio Unit

Tutors

Sergio Porta Ombretta Romice

Matt Bridgestock Craig McIntyre Eugenio Moreilo Emanuele Strano

Students

AAD MSc

Mahanim Abdullah Darren Baird Raymond Brown Roberta Bufi William Ewing Mark Feeley Christopher Kelly Da Mariana Laia Sarah-Jane Laverick John MacLean Fiona Murphy Nornawar laili Nordin Kirsten O'Hare Delia Schulz Elizabeth Smith Kumtak Wong Elissa Wylie Zarith Abu Zahri

Gillian Black
David Howel
Gareth Jackson
Yasmin Jilaihawi
Duncan McLean
Ross Middleton
Lindsay Pratt
Peter Russell
Victoria Smith
Leroy Thompson
Laura Wallace
Syed Zaidi



Each year the Urban Design Studies Unit seclects a challenging setting for the fith year design studio that requires thorough investigative, interprative, judgemental and creative responses by all students, but also commitment and hard work, insight, passion and bright ideas.

This response to complex urban problems requires a coordinated and integrated response to physical, social, economic and environmental strengths and weaknesses of selected the selected study area that necessitates not only the design of spatial and formal structures but also the development of programmes for the improvement of the socio-economic profile of the area and its environmental quality. The studio is the area for students to formulate a regeneration and development framework and investigate its social acceptability, economic viability and environmental benifits.

This year we worked to create these spaces in Glasgow, in strict collaboration with local community groups, Glasgow City Council and other relevant stakeholders. Robert Adam from Wichester was our Guest Professor, contributing to the illustration and definition of urban design codes as well as the review of students' work on masterplanning and coding. Regular visits from the parties interested helped students keep their investigation and creative work real. Part of the studies also includied an experimental EU Funded workshop on design coding.

The course is articulated into four phases:

- 1. Case analysis. We worked in groups on Govan as part of a larger urban sector of Glasgow along the Clyde, getting to know this area, its links potentials and pitfalls.
- 2. Urban Design Strategy. We proposed a Strategic and Concept Plan, together forming the Urban Design Strategy, for the improvement of this area envisaging actions and projects that deal with services, mobility, housing, and public realm provision.
- 3. Block analysis and coding. We work out a complete morphological analysis of three urban blocks that were assigned by staff. The block analysis is carried out by drawing each urban block in two boards and by the quantitative analysis of morphological aspects as they appear on drawing. Once all sample blocks have been worked out and all data is available, students and staff derive from that a synthetic urban design code.
- 4. Masterplanning and place design. We produced a masterplan for sub-areas of Govan. and deepened our masterplan and coding by experimentally developing the design of streets and buildings in a small part of it.

Students AAD MSc Mahanim Abdullah

Darren Baird Raymond Brown Roberta Bufi William Ewing Mark Feeley Christopher Kelly Da Mariana Laia Sarah-Jane Laverick John MacLean Fiona Murphy Nornawar Laili Nordon Sved Zaidi Kirsten O'Hare

Delia Schulz Elizabeth Smith Kumtak Wong

Elissa Wylie

Zarith Abu Zahri

Gillian Black David Howel Gareth Jackson Duncan McLean Ross Middleton Lindsay Pratt

Yasmin Jilaihawi Peter Russell Victoria Smith Leroy Thompson Laura Wallace

Getting to know Govan was the first task we were engaged in; the area is complex and substantial therefore we were divided in groups, each with a very detailed and specific task: Drawing the existing city; History and stories; Planning framework; Experiencing Govan; Urban fabric comparative analysis; Network analysis of streets.

Overall, the work of each group was meant to depict a detailed set of objective information on the morphology and physical structure of the built form (current and historic), as well as a more subjective overview of the students', residents and stakeholders' perception. Finally, two groups were tasked with the assessment of Govan's environmental performance, taking into account connectivity and centrality, permeability, wind and sub at the neighbourhood level.

By the end of this exercise, each group had developed an expertise in one of these topics; we then exchanged the information gathered, to make this precious insight the starting point in the next strategic phase for all.

During the analysis, we have learned a number of new analytical, evaluative and representational tools, illustrated in the images which follow.

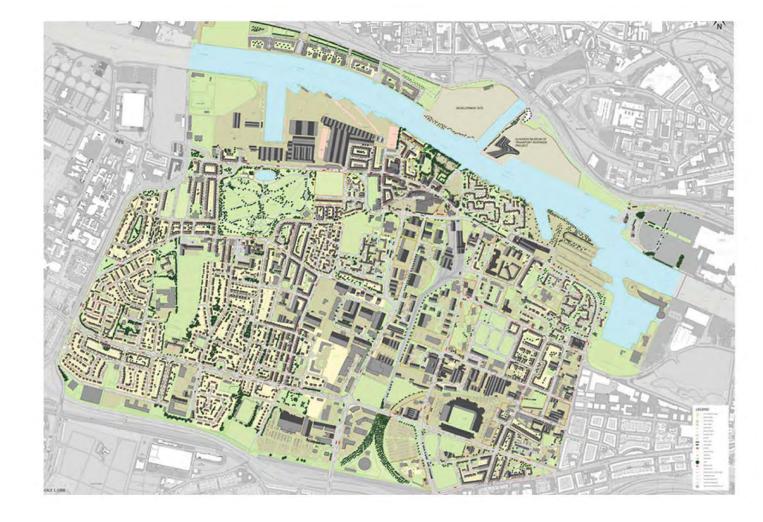
1. Case Analysis

Students AAD MSc

Mahanim Abdullah Darren Baird Raymond Brown Roberta Bufi William Ewing Mark Feeley Christopher Kelly Da Mariana Laia Sarah-Jane Laverick John MacLean Fiona Murphy

Kirsten O'Hare Delia Schulz Elizabeth Smith Kumtak Wong Elissa Wylie Zarith Abu Zahri

Gillian Black David Howel Gareth Jackson Yasmin Jilaihawi Duncan McLean Ross Middleton Lindsay Pratt Peter Russell Victoria Smith Leroy Thompson Laura Wallace Nornawar Laili Nordin Syed Zaidi



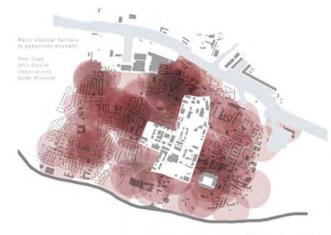
Students AAD MSc

Mahanim Abdullah Darren Baird Raymond Brown Roberta Bufi William Ewing Mark Feeley Christopher Kelly

Da Mariana Laia Sarah-Jane Laverick John MacLean Fiona Murphy

Nornawar Laili Nordon Syed Zaidi

Kirsten O'Hare Delia Schulz Elizabeth Smith Kumtak Wong Elissa Wylie Zarith Abu Zahri Gillian Black
David Howel
Gareth Jackson
Yasmin Jilaihawi
Duncan McLean
Ross Middleton
Lindsay Pratt
Peter Russell
Victoria Smith
Leroy Thompson
Laura Wallace

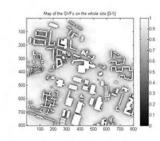


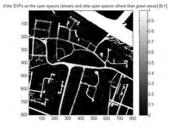
variety of local services

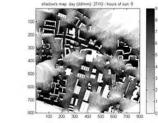
Halat physical particles to present the months of the control of t

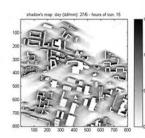
intensity of local services

'Planning Framework' - Analysis















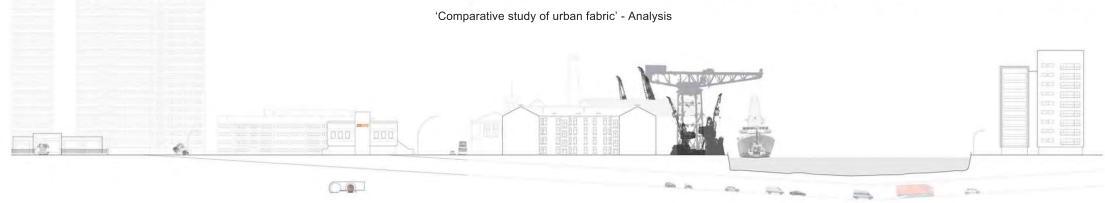












2. Urban Design Strategy

Strategy 2 - Rediscover Govan

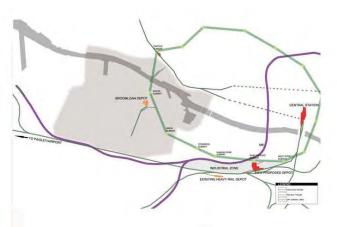
Students

AAD

MSc

Mahanim Abdullah Darren Baird Raymond Brown Roberta Bufi William Ewing Mark Feeley Christopher Kelly Da Mariana Laia Sarah-Jane Laverick John MacLean Fiona Murphy Nornawar Laili Nordin Syed Zaidi Kirsten O'Hare Delia Schulz Elizabeth Smith Kumtak Wong Elissa Wylie Zarith Abu Zahri

Gillian Black David Howel Gareth Jackson Yasmin Jilaihawi Duncan McLean Ross Middleton Lindsay Pratt Peter Russell Victoria Smith Leroy Thompson Laura Wallace



The overall scope of this phase is the generation of strategic programmes for the development and management of transformation in Govan within its immediate context. We strived to develop realistic urban regeneration programmes for Govan and the riverfront in the larger urban context. In particular, on the basis of the information gathered in the previous analytical phase, we formulated conceptual 25 year visions. A Strategic and Concept plan were produced to form the backbone of the strategies.

The aim of the Strategic Plan is to underline the connections between desirable spatial policies and other relevant non-spatial issues, therefore reinforcing the overall awareness of design. The Concept Plan is aimed at detailing the spatial policies identified in the Strategic Plan in an attempt to envisage a better future for Govan. In particular it defines what form proposed strategies will take spatially and how they will be linked with each other and the territory to improve its use and better its performance. From the strategies concieved we will demonstrate the following two examples.

The Rediscover Govan strategy was to overcome the major physical barriers that isolate Govan from the surrounding City fabric and "re-stitch" Govan together internally and improve connections with the greater Glasgow area. Broomloan road was upgraded to be the major vehicular artery through Govan bridging across the Clyde, connecting to the Clydeside express way. A cultural emphasis was placed on development along the river benefiting the local economy, centred around the historical landmark of the Govan Parish Church. The most significant move of the strategy was then to relocate the existing industrial corridor to strategic vacant sites within Govan, along the major barriers such as the M8 and the Clyde tunnel in order to acheive the connection of the two truncated communities within Govan. A study was done to establish what industries could remain and be incorporated into mixed use community blocks, in which the light industries would remain and heavy industries would be strategically re-located. This then frees up extensive areas of land for new development regenerating from an underused industrial wasteland to an attractive, diverse urban environment. A key axis would be the centre of this development connecting a new Gateway to the south of Govan, consisting of a new train station and key mixed use focal point, with the new Transport museum through a sequence of vibrant public spaces and new landmark buildings. Emphasis is placed on the newly created district at the Govan road and Broomloan road intersection to become again a central urban focus for the regenerated historic fabric.

Strategy 2 - Rediscover Govan

Students

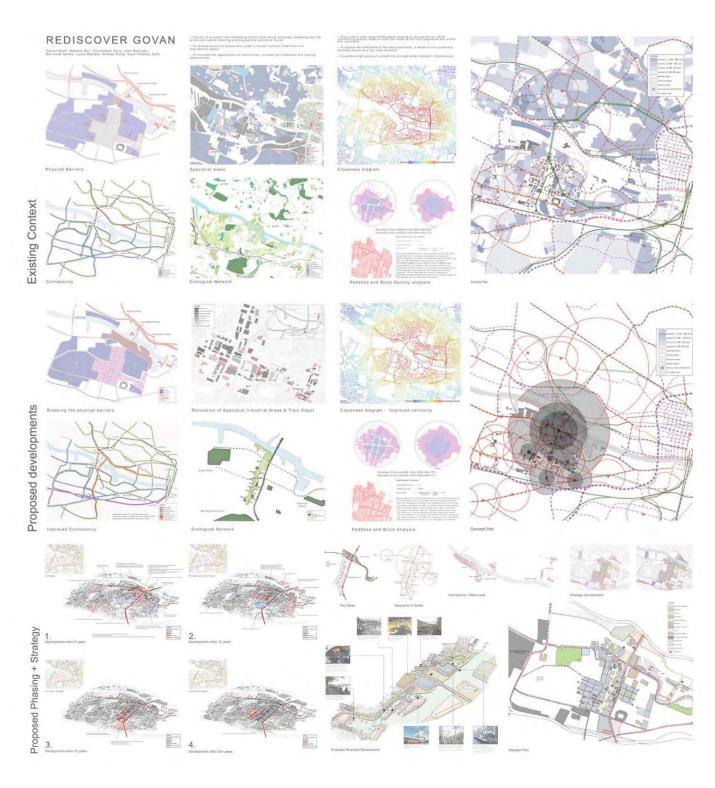
AAD

MSc

Mahanim Abdullah Darren Baird Raymond Brown Roberta Bufi William Ewing Mark Feeley Christopher Kelly Da Mariana Laia Sarah-Jane Laverick John MacLean Fiona Murphy

Kirsten O'Hare Delia Schulz Elizabeth Smith Kumtak Wong Elissa Wylie Zarith Abu Zahri

Gillian Black David Howel Gareth Jackson Yasmin Jilaihawi Duncan McLean Ross Middleton Lindsay Pratt Peter Russell Victoria Smith Leroy Thompson Laura Wallace Nornawar Laili Nordin Syed Zaidi



2. Urban Design Strategy

Strategy 4 - Taking Govan back to Work

Students

AAD

MSc

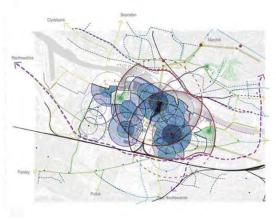
Mahanim Abdullah Darren Baird Raymond Brown Roberta Bufi William Ewing Mark Feeley Christopher Kelly Da Mariana Laia Sarah-Jane Laverick John MacLean Fiona Murphy Nornawar Laili Nordin Sved Zaidi Kirsten O'Hare Delia Schulz Elizabeth Smith Kumtak Wona Elissa Wylie

Zarith Abu Zahri

Gillian Black David Howel Gareth Jackson Yasmin Jilaihawi Duncan McLean Ross Middleton Lindsay Pratt Peter Russell Victoria Smith Leroy Thompson Laura Wallace

Our Group's 25 year vision for Govan derived from three initial topics of research stemming from the Analysis stage and a public lecture given by Raymond Young of the assist program. Raymond Young was key in portraying the image of Govan, in particular during the 1970's, as being in the heart of the shipbuilding industry, a real working class community in the best sense of the phrase. The presentation paired with the research gathered on the current socio-economic conditions in Govan sparked the group's ambition to propose economic longevity. This was inherent in the proposal for a package of regeneration, starting with the adaptation of the existing industry to incorporate wind turbine manufacturing facilities on the Clyde. As the topic of off shore wind farming is of great imminence, with the River Clyde having great proximity to these proposed off shore wind farms, we felt the diversification and phased integration of the wind turbine manufacturing process would be integral in our 25 year vision for Govan.

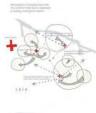
As with any substantial economic move comes the subsequent reaction it has on its surrounding context. Therefore, we began considering the forthcoming stages in the package of regeneration which we deemed most fundamental in the success and implementation of this new economy. The first of these supporting steps focuses on re-developing the district centre, including the proposal for a new transport hub, a bridge link across the Clyde to the new Transport Museum, development of urban fabric from the river edge down into Govan Cross and promote a procession of civic presence along the Clyde. The second step consisted of improving key facilities such as education, healthcare and leisure facilities. Finally, the nurturing process involved the implementation of new residential, mixed-use and commercial development in strategic areas. We also proposed a program of sustainable energy measures on existing housing stock in order to bring up the overall image of Govan to support this ambitious quest for economic longevity once again.













Strategy 4 - Taking Govan back to Work

Students

AAD

MSc

Mahanim Abdullah Darren Baird Raymond Brown Roberta Bufi William Ewing Mark Feeley Christopher Kelly Da Mariana Laia Sarah-Jane Laverick John MacLean Fiona Murphy Nornawar Laili Nordin Syed Zaidi Kirsten O'Hare Delia Schulz Elizabeth Smith

Kumtak Wong Elissa Wylie Zarith Abu Zahri

Gillian Black David Howel Gareth Jackson Yasmin Jilaihawi Duncan McLean Ross Middleton Lindsay Pratt Peter Russell Victoria Smith Leroy Thompson Laura Wallace

MCA - current

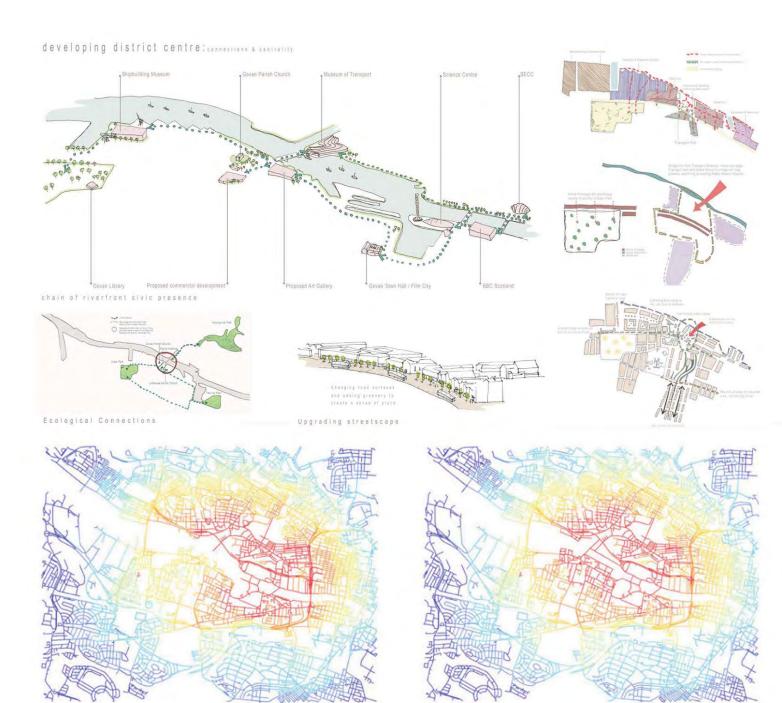
[less]

[more]central

MCA - proposed

[less]

[more]central



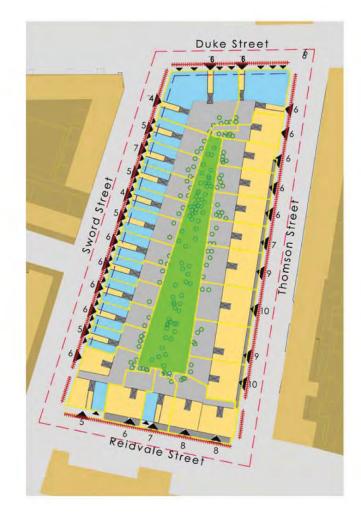
3. Block Analysis and Coding

Students AAD MSc

Mahanim Abdullah Darren Baird Raymond Brown Roberta Bufi William Ewing Mark Feeley Christopher Kelly Da Mariana Laia Sarah-Jane Laverick John MacLean Fiona Murphy Nornawar Laili Nordin Syed Zaidi Kirsten O'Hare Delia Schulz Elizabeth Smith Kumtak Wong Elissa Wylie Zarith Abu Zahri

Gillian Black David Howel Gareth Jackson Yasmin Jilaihawi Duncan McLean Ross Middleton Lindsav Pratt Peter Russell Victoria Smith Leroy Thompson Laura Wallace

The Block Analysis and Coding phase was based on the principle of compiling Form Based Codes to guide development throughout the masterplan stage. We have undertaken a meticulous 'Block Analysis' comprising of a comprehensive range of urban block types across Glasgow, to understand what makes Glasgow's ordinary fabric so special. This 'Block analysis' together with the understanding of a number of International examples of Form Based Codes enabled us to create a comprehensive Local Urban Code (LUC) for Govan.





3. Block Analysis and Coding

Tutors

Matt Bridgestock Craig McIntyre Eugenio Moreilo Sergio Porta Ombretta Romice Emanuele Strano

Students

AAD

Darren Baird

Roberta Bufi

Mark Feeley

Elissa Wylie Zarith Abu Zahri

William Ewing

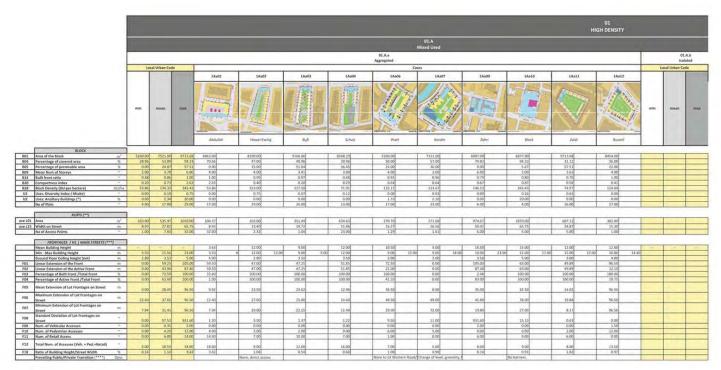
Raymond Brown

Mahanim Abdullah

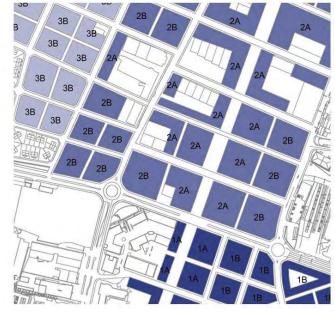
Christopher Kelly Da Mariana Laia Sarah-Jane Laverick John MacLean Fiona Murphy Nornawar Laili Nordin Syed Zaidi Kirsten O'Hare Delia Schulz Elizabeth Smith Kumtak Wong

MSc

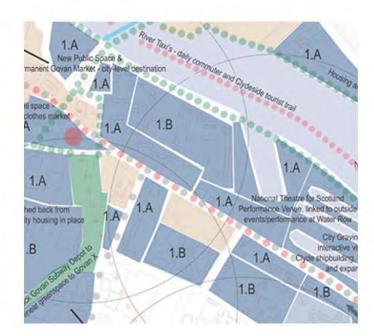
Gillian Black David Howel Gareth Jackson Yasmin Jilaihawi Duncan McLean Ross Middleton Lindsay Pratt Peter Russell Victoria Smith Leroy Thompson Laura Wallace



'Local Urban Code (LUC)' - Block Analysis and Coding



'Foundation Masterplans' - Block Analysis and Coding



4. Masterplanning and Place Design

Students

AAD

MSc

Mahanim Abdullah Darren Baird Raymond Brown Roberta Bufi William Ewing Mark Feeley Christopher Kelly Da Mariana Laia Sarah-Jane Laverick John MacLean Fiona Murphy Nornawar Laili Nordin Syed Zaidi Kirsten O'Hare Delia Schulz Elizabeth Smith Kumtak Wong Elissa Wylie

Zarith Abu Zahri

Gillian Black **David Howel** Gareth Jackson Yasmin Jilaihawi Duncan McLean Ross Middleton Lindsav Pratt Peter Russell Victoria Smith Leroy Thompson Laura Wallace



With detailed analysis, strategic development frameworks, block analysis and coding as a background, we have moved on to the next phase, the masteplanning of a selected area of our frameworks. These areas, studied individually, are particularly challenging and interesting portions of our plans for Govan, on which we wanted to focus in detail.

The masterplanning stage is composed of a number of related tasks – the Foundation masterplan, the Draft masterplan and the Local Urban Code. Whilst Foundation and Draft Masterplans follow each other, the LUC is to be intended as a guide to their development. The LUC gives the parameters to use in terms of density and urban structure, and was compiled from the Block analysis and the study of International Codes done in the preceding phase.

The Foundation Masterplan is a detailed investigation of one portion of the strategies; it illustrates what the intentions and aspirations which were drafted in our strategies mean on ground; how projects and changes can become part of the urban form, how the current Govan needs to change in terms of density, connections, links to become permeable, safe, sustainable. In particular, FM illustrates in detail areas of change and areas of regulation, street hierarchies and a fist stab at block density.

Outcomes of the Draft Masterplans have then been used as a basis for an international Workshop sponsored by the EU, meant to design some of the blocks in detail, using the LUC as a driver.

The Draft Masterplans followed the Foundation masterplans: they involve the detailed design of the blocks (fronts, open and built up space), as well as landmarks and special buildings, and the design of the public realm. This is a complex exercise that takes into account rules in traffic calming, but most of all tries to achieve a safe and enjoyable environment where the local strengths are embedded in new development, to respect and enhance the character and meaning of the area.

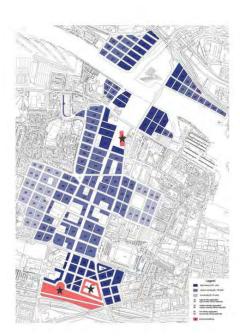
Students

AAD

Mahanim Abdullah Darren Baird Raymond Brown Roberta Bufi William Ewing Mark Feeley Christopher Kelly Da Mariana Laia Sarah-Jane Laverick John MacLean Fiona Murphy Nornawar Laili Nordin Syed Zaidi Kirsten O'Hare Delia Schulz Elizabeth Smith Kumtak Wong Elissa Wylie Zarith Abu Zahri

MSc

Gillian Black David Howel Gareth Jackson Yasmin Jilaihawi Duncan McLean Ross Middleton Lindsav Pratt Peter Russell Victoria Smith Leroy Thompson Laura Wallace



'Foundation Masterplan' - Masterplanning and Place design

The masterplan adopts two previously conceived strategies in which through collaboration we have formed a partnership in order to combine these key ideas and enhance the quality of the 25 year vision for the regeneration of Govan. The afore mentioned strategic ideas have been taken forward and are now inherent in the current masterplanning process. These main aspects of the masterplan incorporate the regeneration of the Helen Street industrial corridor to provide an attractive, diverse urban environment and improve Govan's existing internal connectivity. This involved an in depth study on the strategic relocation of existing industry within this zone to peripheral sites along major physical barriers i.e. the M8 Motorway, the Clydeside Expressway, the Clyde Tunnel and vacant land within close proximity to existing industry outwith this central corridor. This process also took into consideration existence of light industrial activity in which we as a partnership agreed could remain and be integrated into mixed use urban blocks. Before implementation of the major proposals for this area, the existing railway depot would have to be relocated and the access railway tracks removed to an alternative and equally accessable location derived through discussions with SPT. The removal of this existing infrastructure and relocation of the industry/depot paves the way for the most prominent urban gesture in the masterplan which incorporates the introduction of a North – South cultural axis connecting the new Transport museum with a new proposed railway station located in the southern gateway of the masterplan. This railway would be located along the southern edge of Govan and connects onto the Paisley – Glasgow line thus improving accessibility on a regional scale. Another improvement, on a regional scale, is the adaptation and extension of Broomloan Road across the River Clyde connecting onto the Clydeside expressway and into Glasgow's west end.

Our masterplan responds to the carbon reduction targets set by the Scottish Government by 2020 through the proposal for the adaptation of the existing shipbuilding industry with the phased integration of a wind turbine manufacturing plant. The introduction of this new economy comes great benefits on many levels. For example, the energy generated from the off shore wind farms would aid in the reduction of carbon emissions on a national level. However, we have identified a key opportunity in the form of a Bio-Mass/Bio-Gas power plant which would bring benefits on a local level through the provision of CHP supplying existing and proposed development within Govan. This would also result in the wind turbine manufacturing plant, being a major anchor tenant, having the potential to be a 100% renewable energy system.

'Draft Masterplan' Masterplanning and Place Design 'ESUA Workshop' Masterplanning and Place Design Legend Frontage type 1 Frontage type 2 DOM: Frontage type 3 Frontage type 4 Frontage type (stage) Public space Medium density (aggregated in court) Medium density (aggregated in row) Medium density (aggregated in court) Specialist building

4. Masterplanning and Place Design

Students

AAD

MSc

Mahanim Abdullah Darren Baird Raymond Brown Roberta Bufi William Ewing Mark Feeley Christopher Kelly Da Mariana Laia Sarah-Jane Laverick John MacLean Fiona Murphy Nornawar Laili Nordin Syed Zaidi Kirsten O'Hare Delia Schulz Elizabeth Smith Kumtak Wong Elissa Wylie Zarith Abu Zahri

Gillian Black David Howel Gareth Jackson Yasmin Jilaihawi Duncan McLean Ross Middleton Lindsay Pratt Peter Russell Victoria Smith Leroy Thompson Laura Wallace

The masterplan has evolved from the analysis and strategic concept stages of our Govan project and aims to develop the ideas of reconnection, repopulation and re-energising Govan through key activity generation. This is supported by high-density, human scale mixed-use redevelopment on the basis of transit-oriented development. The three key moves are providing maximum public transit accessibility linkage for local and tourism benefits, the development of the Govan Market Building at the heart of Govan's historic core to generate activity and the redevelopment of Helen Street industry and (longer term) the Riverside Estate for high-density, human scale family-sized housing.

Govan Masterplan Area - Public Transit Connections & Travel Times



Strathclyde Rail Network (existing) plus link to Glasgow Airport (proposed G.A.R.L. to be revived) Masterplan Area Light Rail Link (proposed) - linking Rail Network (new halt at Ibrox) with Fastlink Network (halts at Govan & Transport Museum) and Partick Interchange Travel Times from Govan Cross Interchange in minutes (existing time where route currently exists) Walking travel time in italics via new footbridge

Transit Aspirations

- 1. Fastlink routes and Light Rail Connection link Govan to Clyde Waterfront developments and suburban and main-line rail network. This provides direct linkage to Glasgow Airport, Prestwick Airport and Gourock cruise-liner and islands connections as well as West & East coast mainline routes.
- 2. New Clyde riverboat connections with Govan Wharf pontoon within 200m of new Govan Interchange (Subway, Light Rail connector, Fastlink bus, bus) provides further transit option. Private vehicles guided into Govan to sub-level parking structures (from urban main streets of Govan Road, Helen Street & Broomloan Road to encourage footfall within Govan centre and use of multiple transit options.

4. Masterplanning and Place Design

Students AAD

Mahanim Abdullah Darren Baird Raymond Brown Roberta Bufi William Ewing Mark Feeley Christopher Kelly Da Mariana Laia Sarah-Jane Laverick John MacLean Fiona Murphy Nornawar Laili Nordin Syed Zaidi Kirsten O'Hare Delia Schulz Elizabeth Smith Kumtak Wong Elissa Wylie Zarith Abu Zahri

MSc

Gillian Black David Howel Gareth Jackson Yasmin Jilaihawi Duncan McLean Ross Middleton Lindsay Pratt Peter Russell Victoria Smith Leroy Thompson Laura Wallace

