Rethinking the Clyde Waterfront

Connecting the infrastructure development into integrated above and below ground urban design for the brownfields redevelopment schemes

Glasgow, United Kingdom, October 23-28th, 2016
AREAS OF INTEREST

- Riverside Museum
- Industrial Zone
- Docks and Basin
- Motorway
- Regional Strategies
SITE APPROACH PRINCIPLES

- INTEGRATING THE CITY AND THE CLYDE
- ACTIVATING EDGES
- CONNECTING THE BANKS
- TAPPING INTO LOCAL POTENTIAL
Glasgow Urban Garden
Energy
Cleaner Air and Water
Infrastructure
Heritage
Inclusive Growth
Empowered Communities
Healthy Living

CREATE

Learning
Play
Jobs
Skills
Income
Visitors

GLASGOW URBAN GARDEN

SUPPLY

Healthy Living
Proposed Development Area

Location in Greater Glasgow

Bringing people to the focus area
Proposed Development Area

Floating Market
Green Belt
Floating Market

Floating Garden
Heritage landscape
Floating Garden

Mixed Use
Residential
Industrial
Guidelines

Encouraging community to plant in the public vacant spaces and existing green areas

Encouraging owners to grow in their private space

Progressively stepping down the heights of the buildings towards the river to have a visual

Leave a space between new buildings and the river banks for walkways/green belt

Leave a space between new buildings for access to the river bank
Geothermal energy from subsurface heat used for community heating

Floating tress in the basin for landscaping and energy generation

Multi purpose utility of the docks during Summer and Winter season

Floating Markets for energy generation

Bridges for connectivity across the Clyde River
Urban Farming

Trees & Landscaping

Subsurface heating

Accessibility & bridges

Floating Market

Growing knowledge

Energy Saving

Recycle

Reduce CO₂

Happy community

Bringing community together

Cost reduction
Glasgow Boulevard
MAKE THE CLYDE WATERFRONT OUR “LIVING ROOM”

BY CREATING GLASGOW’S BOULEVARD
THE CLYDE BOULEVARD... MEETING
THE CYLDE BOULEVARD... PRESERVING

Multi-Utility Tunnels (MUTs): A Sustainable Underground Utility Infrastructure Solution for a Smart Resilient Future Glasgow City

- Elimination of Disruption
- 24/7 Control and Monitoring
- Flexible Coordinated Maintenance and Upgrading
- Valuable Asset to the City


28/10/2016 Make the Clyde Waterfront our "Living Room"
GREEN BRIDGES... ENJOYING
INSPIRING SPACE... CONNECTING OLD AND YOUNG
Welding the Weegie Waterfront
Welding the Weegie Waterfront:
...the story of Lucy
WELDING THE WEEGIE WATERFRONT

Morning
Afternoon
Evening
Lucy’s trip

- Education
- Art & culture
- Housing
- Business
- Green & health
LUCY GOES FOR A JOG

Need:
Sport

Location:

Time:
afternoon

29/10/2016
Lucy on the move

Need: Mobility

Location:

Time: Morning

29/10/2016

Welding the Weegie Waterfront
Lucy goes to a festival

Need:
Nightlife/
Water retention

Location:

Time:
Evening/
During flooding
Make the Clyde Waterfront our “Living Room”

- place-based
- mixed-use program
- integrated infrastructure

- problem + opportunity
- needs = activities
- urban design + engineering = placemaking

#LUCY MAKES GLASGOW

PEOPLE MAKE GLASGOW
Clyde Connections
OVERCOMING THE BARRIERS OF THE CYLDE

Main proposals
- Bury the expressway
- Tunnel and bridge connections
- Increase in variety of activities
- Complementary infrastructure
CREATING UNDERGROUND CONNECTIONS

- Residential w/ underground parking
- Sub-surface mixed use commercial/leisure/residential
- Underground pedestrian/utility tunnel
- Sub-surface mixed use commercial/leisure/residential
- Green areas
- Sub-surface expressway
- Over ground railway
- Residential w/ underground parking

Geothermal piles
DEVELOPING OPEN AIR CONNECTIONS

Graving Docks recreational area
Bridge river crossing
Park/Green area
Sub-surface expressway
Over ground railway
Residential w/ underground parking

before
after
REVITALISING EXISTING CONNECTIONS

- Geothermal piles
- Mixed use commercial/leisure/residential w/ underground parking
- Park/Green area
- Existing Millennium Bridge
- Residential w/ underground parking
- Sub-surface expressway
- Over ground railway
- Solar panels
- Tree wind turbine
- Rainwater harvesting
- District Heating

Overcoming the Barriers of The Clyde
CONNECTING THE WATERFRONT

NORTH BANK
- Sub-surface mixed use commercial/leisure/residential
- Riverside Museum
- Residential w/underground parking
- Green area
- The Hydro
- Armadillo
- La Rotunda

SOUTH BANK
- Recreational/commercial
- BBC Studio
- Glasgow Science Centre
- Park/Green area
- Residential
- Residential w/underground parking

28/10/2016
Overcoming the Barriers of The Clyde
G.L.A.S.G.O.W.
SUSTAINABLE CONNECTIONS FOR SOCIAL INNOVATION

Great Lively Active Smart Gateway On Waterfront
ATTACKING LOCAL POTENTIAL

Active

Great
MIXING CITY AND THE RIVER
ACTIVATING THE EDGES

Waterfront
UNLOCKING GREEN RESOURCES

Smart

Active

On

Wayfinding Signage

Lighting

Charging

Wireless Communication

Battery
Thank You!