Nov. 2022

Architectural Design Crossovers

TU DELFT

P1 PRESENTATION

The Gasholder: A Floating Structure

Breathing space in a congested city



11 June 1918. Female workers of the Gas Light and Coke Company serving tea on top of a gasometer in Bromley-by-Bow, east London. Hulton Archive

Nadia Antoniadis

How can complementary architecture act as a mediating tool in reviving vacant heritage sites for the needs of an ever-changing society without rendering their qualities obscure?

How can complementary architecture act as a mediating tool in reviving vacant heritage sites for the needs of an ever-changing society without

(1) conceptual questions

rendering their qualities obscure?

of societal changes, and more precisely after industrial shifts?
What are the causes and consequences of structures being forgotten and consequently losing their historical significance?

What structures are left vacant after the occurrence

Why are structures condemned to becoming ghosts of their past or standing ruins, and how can this phenomenon be prevented?

How can complementary architecture act as a mediating tool in reviving vacant heritage sites for the needs of an ever-changing society without rendering their qualities obscure?

How can we understand or study these vacant sites with their accompanying functions - past or future -

(2) methodological questions

within an ever-changing society?

How can we conserve the memory of these structures without altering their character and dispelling their cultural significance?
In which ways can we uncover the hidden values and attributes of these structures that are deemed

important enough to be conserved?

What information can we extrapolate to create a narrative around their history?

How can <u>complementary architecture act as a</u> <u>mediating tool</u> in reviving vacant heritage sites for the needs of an ever-changing society without

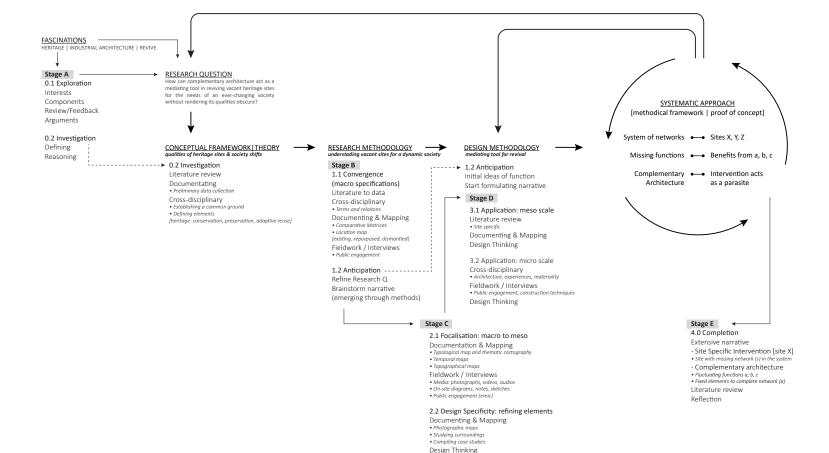
(3) design methodological questions

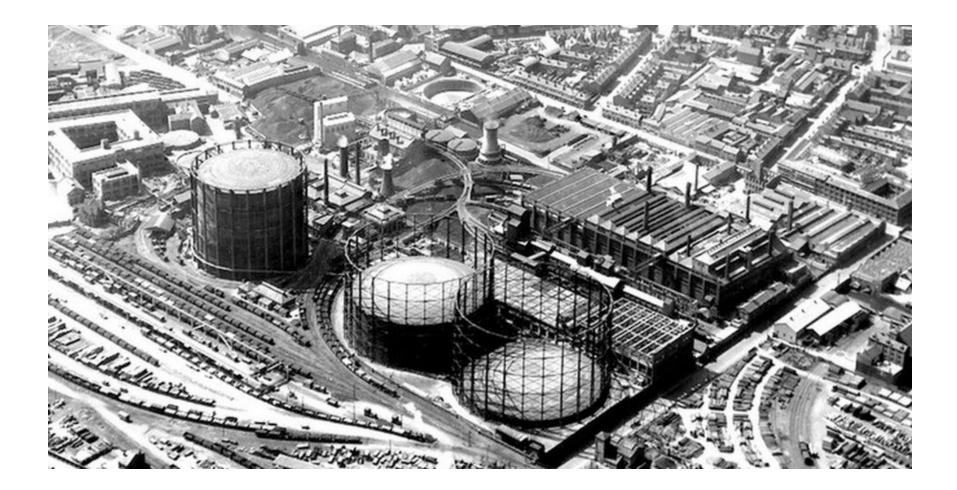
rendering their qualities obscure?

What spatial interventions appertaining to complementary architecture could become a mediating tool for reviving them?

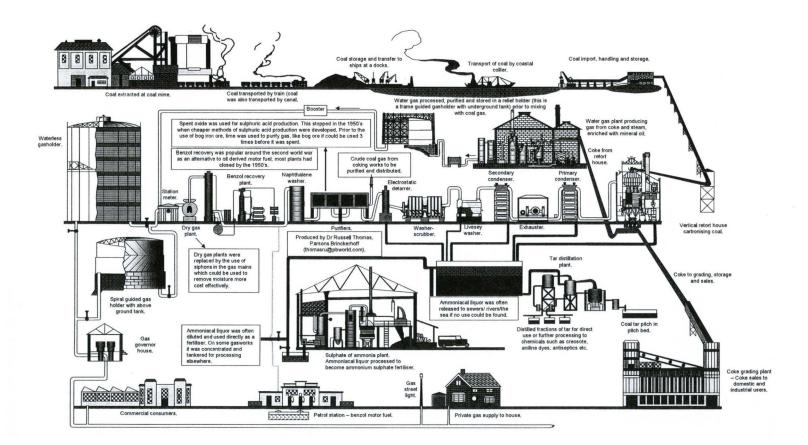
How can these dormant spaces contribute to the city and be promoted to encourage users to engage with them?

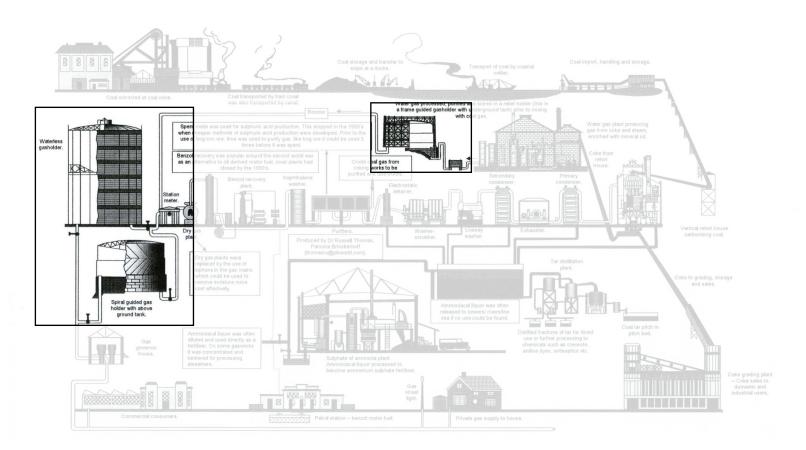
them?
In this chapter, I will attempt to bring forth a new attitude of revitalising heritage sites while avoiding converting them into basic models of adaptive reuse.













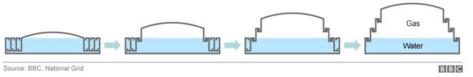
Le délaissé procède de l'abandon d'un terrain anciennement exploité. Son origine est multiple: agricole, industrielle, urbaine, touristique, etc. Délaissé et friche sont synonymes." (Clément, 2004)

Gilles Clément's Manifeste du Tiers Paysage, the "délaissé" is described as a neglected terrain that was once exploited in the past by agriculture, industries, urbanism, tourism, etc.



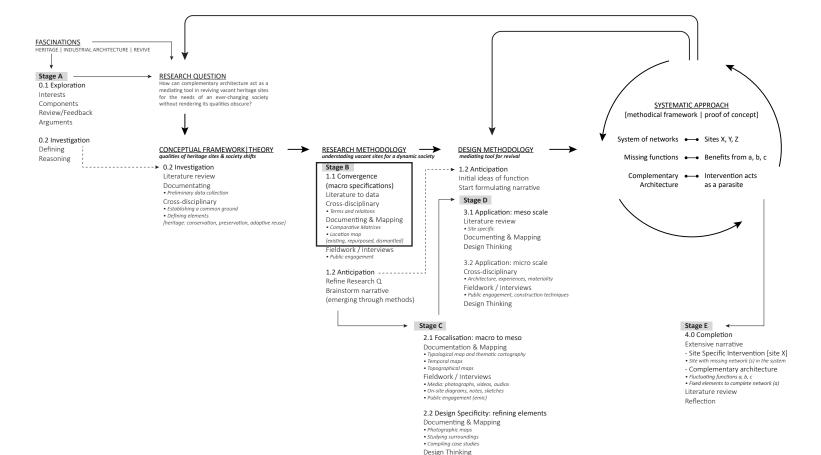
Column-guided gas holders

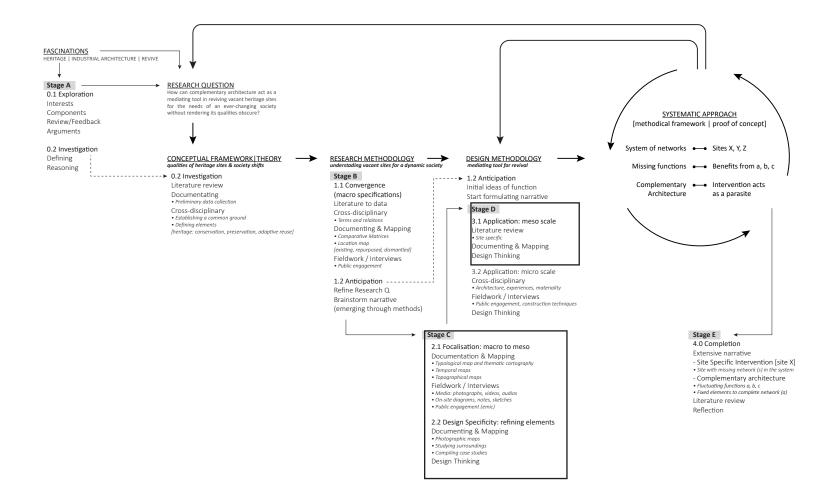
Most common type of gas holder found in UK. Fixed metal frames guide the cylindrical telescoping walls, up or down. Gas enters through the base and the pressure pushes up the chambers one by one. Water helps keep gas in and air out, preventing ignition.

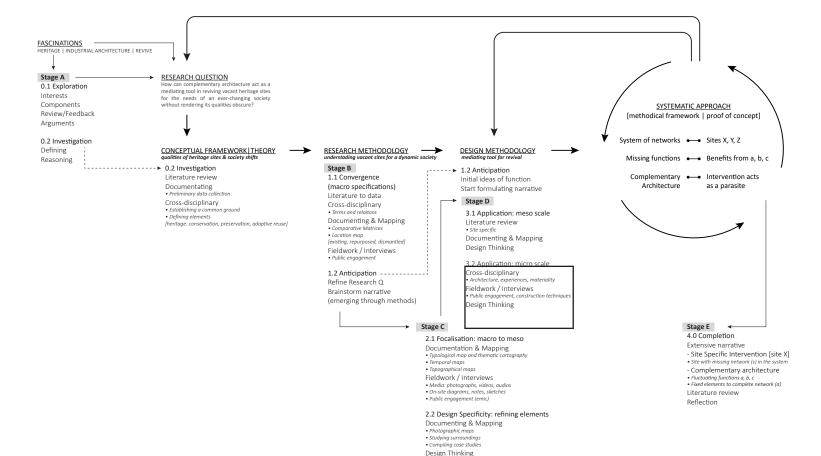


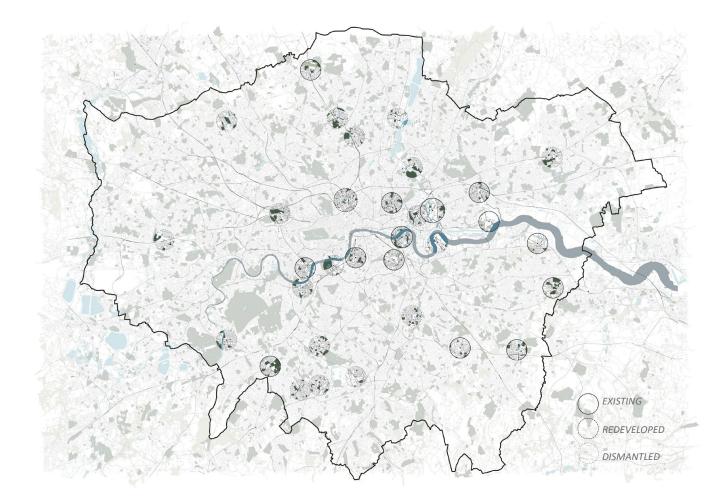


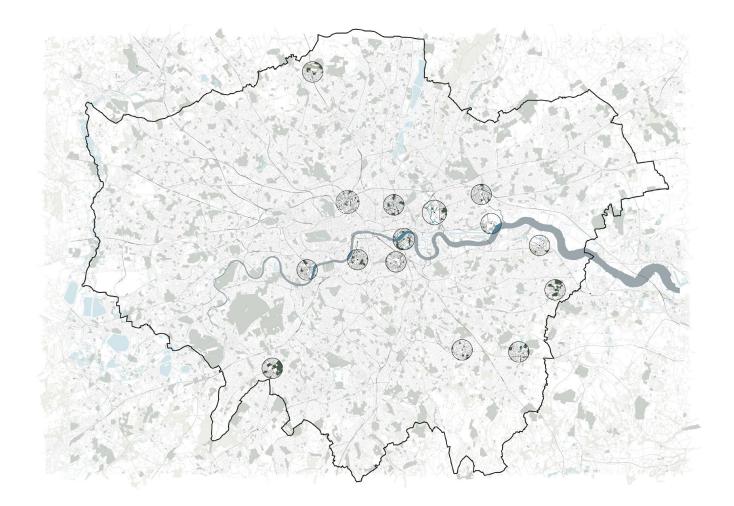
"etic account is from the point of view of an observer who is outside the culture or activity in question, whereas the emic account is produced from within a culture" (Lucas, 2016)



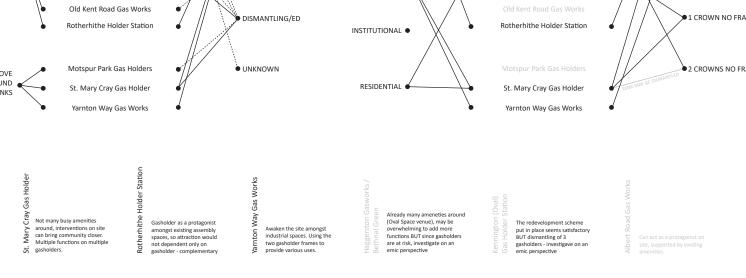




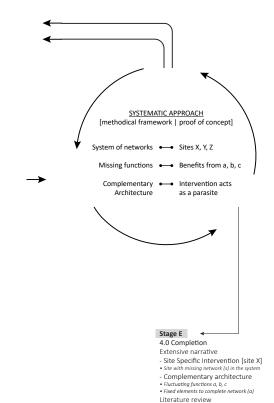




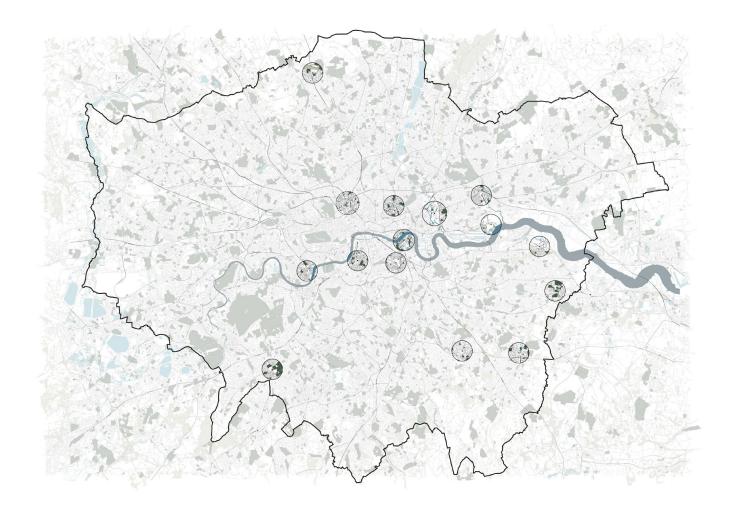
		Albert Road Gas Works (Barnet Gasworks) New Barnet	Beckton Gas Works	Bromley-by-Bow Holder Station	Crayford Holder Station (London Road Gas Works)	Haggerston Gasworks (Hackney, Bethnal Green, Tower Hamlets)	Imperial Gas Works (Fulham)	Kennington (Oval) Gas Holder Station (Berkely Grp)	Leigh Road Gas Holder	Motspur Park (Worcester Park) Gas Holders	Old Kent Road Gas Works	St. Mary Cray Gas Holder Orpington Gas Holder (in Bromley)	Rotherhithe Holder Station	Yarnton Way Gas Works (Belvedere)
Structure	framework excavation	I frame (with crown) A Cutier palent guide frame wholesis in a bitter ground trails was tell grewant on lost in 2018 although decommissioned. Some gas infrastructure are present on site.	for loading coal. Remains: jetties on water rotting away	7 column gsided skeletons present (Grade II) with crown all below ground tanks	1 frame belowground with crown + 2 crown only (with minimal to no framing?) - 2/36H OTHER REMAINE. A whitewashed red brick building parts of the boundary wall and two gasholders survived in 2018.	2 skeletors with crown + 2 crowns no frame below ground tanks	1 small skeleton with crown without skeleton with the crown without skeleton + 1 dismantified belowground showing "dumpling" (cone of earth), + 1 crown removed with exposed trusses	I Strans with crown = 1 crown no frame (maybe spiral) below ground (maybe spiral) below ground below ground stranger (maybe spiral) from grid (column guided GYINa.1 & Grade II Them sense file of Grid spiraling below (MIN) fact of the spiral spiraling spiraling (maybe spiraling spiralin	1 frame with crown below ground tank	2 frames present with crowns, above ground	1 crown below ground tank with frame + 18at area delimitation (no structure traces, no digital) column guided framing	2 allow-ground gasholders 2 allow-ground gasholders special 5 still married (port cur about tank) Note (special golders) Note (special golders) Note (special golders) Note (special golders) Other (special polders) Other (special polders) Other (special polders) Other (special polders) Other (special polders) Other (special polders) Other (special polders)	1 frames with crown, below ground	2 frames visible, with crown, above ground
Setting	dead space greenery waterbodies private/public space	Greenery parking spaces	dead contaminated space River Thames railway tracks	round waterbody greenery	Lots of open green space	Busy area with a lot of ameneties. Might make the space overwhelming if anothe venue is added	dead space possibility for parking	Kennington Park parking potential	Greenery River Roding near beckton gas works	Green space, organised (sports)	dead space (brownfield+paved)	paved area river cray	field Surrey Water parking potential	dead brownfield
Surrounding programs Amerities around (good for community)	sesembly commercial industrial institutional residential	Assembly Place, Improved Place	Commercial 1 Total 1 Total 1 Supermards 1 Supermards 1 Supermards 1 Supermards 1 Substitution 1 Substi	bréutrial • Die: Dispot • Manufacturer • Car inspection	Racidential area for a commonly. Very personal Racidential may be presented a Racidential may be provided as a superior of the property of the provided as a superior of the provided as a	Assembly - Art galaxy - Art galaxy - Null plan - Super S	Assembly - Nockcimbing - Nockcimbing - Supermarket - Supermarket - General store Institutional - Offices Residdential	Accessibly - An gallary - An gallary - Control field - Individual field - Individ	Commercial - Clothing stores - Clothing stores - supermarket - hair salen - building material store fordustrial - train alpost (store - salet storage facility - contractors - warehouse - engineering company - construction services (east) - (east	Accembly - Football fields - Football fields - Football fields - Football fields - Kennington Park Commercial - Supermarket Institutional - Cemetrien - Primary School - Office - Gin distillary Residential	Assembly - Small café & small brewery - Small café & small brewery - a few Intall restaurant - stock mall - stick mall -	Anamally - In It was - In It course - It c	Residential surrounding gazholder Assembly Resource Community Sports center (College Function & Event Functi	sports, green space)
Movements (+ accessibility)	river rail/public transp roads	road, bus walk not easy	underground network (Barking or Plaistow) + bus Road not easy to get to	Road, bus Bow Creek	Rail (crayford) I + bus Underground (Woolwich)+ bus	Road, rail Rail network, bus Regent's canal	Underground network (Imperial whard)	Road, rail Rail network, bus	Underground network (east ham)	rail network (Worcester Park)+walk Bus	Road, bus	rail network St Mary Cray + walk Orpington + bus	Road, rail Rail network, bus Thames River	Rail network (Behvedere) Road
Coordinates		51.653688537587705, - 0.17227492560199803	51.51394183881501, 0.07794401999716147	51.5250532397, - 0.00357402176827	51.4534954148, 0.16638259522	51.533437678423205, - 0.06040929172773984	51.4772014694, - 0.186421286929	51.485631035415324, - 0.11493224623193321	51.54112472151783, 0.06480400119278792		51.482239, -0.059760	51.3983790523, 0.11196355185	51.50252267758361, - 0.048031474636269104	
Present/Features	at risk? *radesvdopment plans?	AT RISK OF ENTIRE REMOVAL OS STRUCTURE AT RISK OF ENTIRE REMOVAL OS STRUCTURE Attacherolopomet schemes. S19 modernia in in S12 buildings, 47 discharged and in S12 discharged and i	tml https://weeklytales.com/articl es/beckton-alps https://becktancestry- sik.weekly.com/beckton- london.html Beckton is ethnically diverse, with large numbers of single	All are listed Grade II. Not at risk No rendevelopment scheme on site	is currently being demotables 1. To be replaced with 24 warehouses traps; // new yorker-lagant stans, and warehouse traps; // new yorker-lagant stans, and warehouse (2018207) and warehouse (2018207) and warehouse the public of	character or appearance of the Regent's Canal Conservation Area can and should be preserved" http://friendsofregentscanal.com/	1,800 new homes and 100,000 sq ft of commercial space https://www.plowmanc.ween.co.uk/projects/l/sin s-road-park-gasworks-radsvelopment/	3 gasholders elemented large gasholders kget for housing insisted to the control of the control	x. Assumed not at risk. No redevelopment plans found		Old Kent Road area		At risk of dismantin structure, develop into residential space. 40 develops for social rent 30 develops for discount market rent 208 private develops	Assumed not at risk. No redevelopment plans found



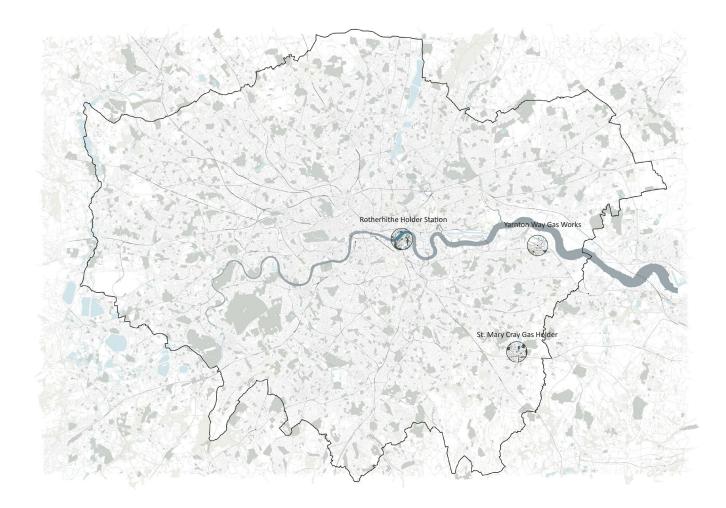
Site Choice



Reflection

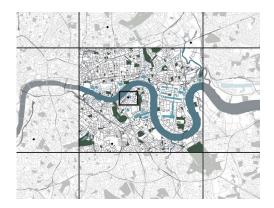
















remaining structures:

2 aboveground gasholders with frames

At risk of dismantling structure to develop into residential space

40 dwellings for social rent 39 dwellings for discount market rent 198 private dwellings

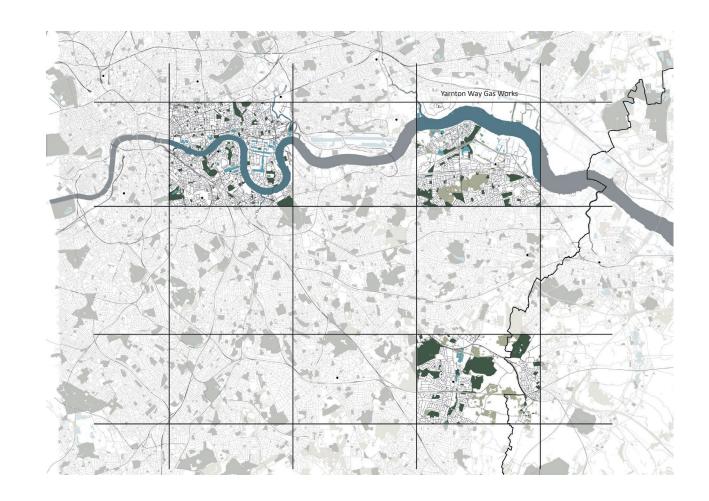
Residential surrounding gasholder
Assembly • Bacon's community sports centre (College

Function & Event Hall, Football club/terrain Tennis court)

• Event Venue (Printworks London, Broadwick Live event management company) • Bow Arts Studio • Fishing pier • Parks

Commercial by the dock • Cafe, Restaurant • Decathlon Sports store

Institutional • Alfred Salter Primary School • Bacon's College • Canada Water Library

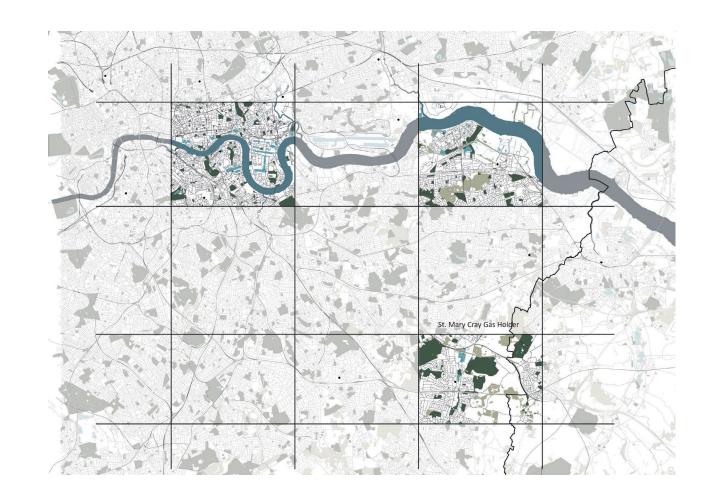






Commercial related to industrial sector • supermarket • construction accessories • plumbing • metals Industrial • car service • industria equipment supplier • construction company • food supplier Institutional • school + facilities (sports, green space) • Church • pharmacy • consultant offices Residential (east)







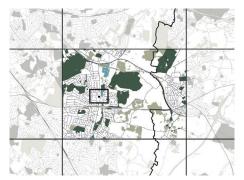


Assembly • park • golf course • starbucks café • a few restaurants
• trampoline park indoor • small village hall (for community events)
Commercial • 4 supermarkets • stores constuction (flooring,
tile,electronics, kitchen, plumbing)
Industrial • waste management • distribution service • solar energy
company • car inspection • building restoration services
Institutional • 2 primary schools • church

- SGN offices
- SGN Depot
- SGN Workshop

Residential around public area + residential North





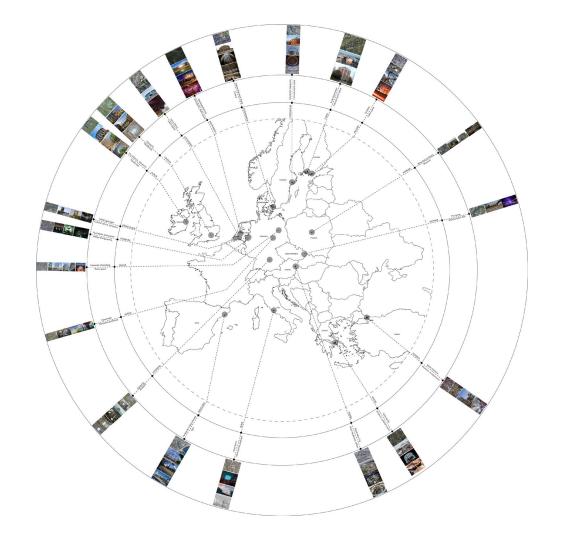
remaining structures:

2 aboveground gasholders one with frames, one without (because it was spiral) + 1dismantled (not sure about tank)

No5: spiral guided No4: frame guided No3 cutler patent frame guided (dismanteled)

OTHER REMAINS: moderrn regional office

1 dismantled, 2 at risk









Public Engagement

Intangible (use)

What kind of events and activities would you like to see held within the space (temporary or permanent, interactive or standalone)?
What kind of atmosphere / character would you prefer in and around the area?

Tangible (objects)

What time of furniture / equipment would you want to have in the space? What type of art would you like to see in the space?

Targets

Who do you want to see using these spaces (public vs private)? What type of species (taxonomy) should be included / allowed to use the space?

Functional Intention

Breathable space, (event/performance space) with a visible reminder of the identity of the gasholders (mobile exhibition in multiple sites?). Regenration of industrial past for community.

Minimal intervention in order to give the users the possibility to take over the space, use it as they want? Still needs a managing team and an organised space.

Flexible multipurpose space. Green area accompanied by a companion function

- recreational park (non-invasive permanent) + market (temporary)
- café (permanent) + bookstore stands (temporary)
 exhibition space (flexible permanent) + catering (seating (temporary))
- exhibition space (flexible permanent) + catering/seating (temporary)

(Near) Future Inquiries

Will my concept be a *moving* intervention, like a parasite popping up in different gasholders? Will it be a stand-alone structure or a protagonist amidst multiple amenities?

Physicality will change but identity can remain with sensitive measures.

Can I bring back the ascending/descending feature (breathing structure) of the vessel cylinders? Does the mechanism still work?

Delays/bottlenecks:
Accessibility of site – closed to the public, contamination?

No access to some archives (National Grid)