

Integrated Holistic Approach to Planning and Collaborative Governance for More Climate–Resilient Cities

12 October 2021 06h00 UTC (08h00 Paris; 14h00 Shanghai)

Lindsay Bremner, University of Westminster [UK]
Victoria Lawson, London Borough of Hounslow [UK]
Shuaib Lwasa, Makerere University, Uganda [UGANDA]
Francesco Musco, University IUAV of Venice [ITALY]
Barbara Norman, University of Canberra [AUSTRALIA]
Philip Rode, London School of Economics [UK]
Giulio Verdini, University of Westminster [UK]



Roudaina ALKHANI
University of Westminster [UK]
Planners 4 Climate Action

innovate4cities.org/2021

Innovate4Cities

Integrated, Holistic Approach to Planning and Collaborative Governance for More Climate-Resilient Cities

Experiences from the London Lab

Dr. Roudaina Alkhani Senior Lecturer in Planning and Urban Design University of Westminster London - United Kingdom













Starting point

- Climate change impacts and risks have become threatening in many regions to the sustainability and resilience of communities, natural areas, biodiversity and resources.
- Climate change mitigation and adaptations have often be seen as costly measures.
- However, I argue that climate mitigation and adaptation can turn into drivers for innovation and shared benefit in cities. They can become part of how we create new opportunities for urban areas and more resilient places.











Background

- Ph.d in Planning: Urban Regeneration & Harbourfront Planning and Management, DK.
- On-going climate research and article in 2020:

Article titled: Understanding Private-Sector Engagement in Sustainable Urban Development and Delivering the Climate Agenda in Northwestern Europe—A Case Study of London and Copenhagen. *Sustainability 2020*, 12(20), 8431; https://doi.org/10.3390/su12208431

The article aimed to understand the contribution of the private sector to closing the climate gaps. It explored policy, governance, and regulative frameworks for the private sector's involvement in urban development, sustainability, and climate efforts in two European cities; London and Copenhagen.

- Professional practice in local authority, government advisory and own practice.
- Teaching with a focus on sustainability and climate change, strategic planning, integrated and dynamic cities.











My earlier research highlighted the following challenges:

- Challenges related to current planning approaches: lack of holistic visions.
- Challenges and differences in city practices related to governance and regulatory frameworks generally, and in London.
- Gaps in our knowledge about the exact role that public and private actors and communities play and can play in managing climate change. Hereunder the lack of methods for defining their roles.
- Knowledge gap around the implications of climate change for the different sectors.
- Challenges related to current patterns of involvement of private and public actors in urban regeneration leading many times to disconnected cities and wasted opportunities.











My research highlights the importance of the following:

- Promoting integrated approaches that aim at the integration of sector goals in urban areas and across different scales. Integration is crucial at all stages of design, construction/ implementation, and management.
- Increasing collaboration based on a clear understanding of the different contributions played by the public actors, private sector, communities and other organisations.
- The importance of expanding approaches from simple adaptations to include holistic planning approaches comprising urban areas. Area based approaches aiming at strengthening localities/places and anchoring climate measures/aims can be useful.
- The importance of strengthening circular approaches, and promoting new behaviours of organisations, groups and individuals.
- The need to update regulatory framework and collaboration forms.
- The importance of data and smart approaches to manage and monitor life-time impacts in the built mass and the urban areas generally.
- City Leadership to ensure synergies between actors and monitoring of impacts.





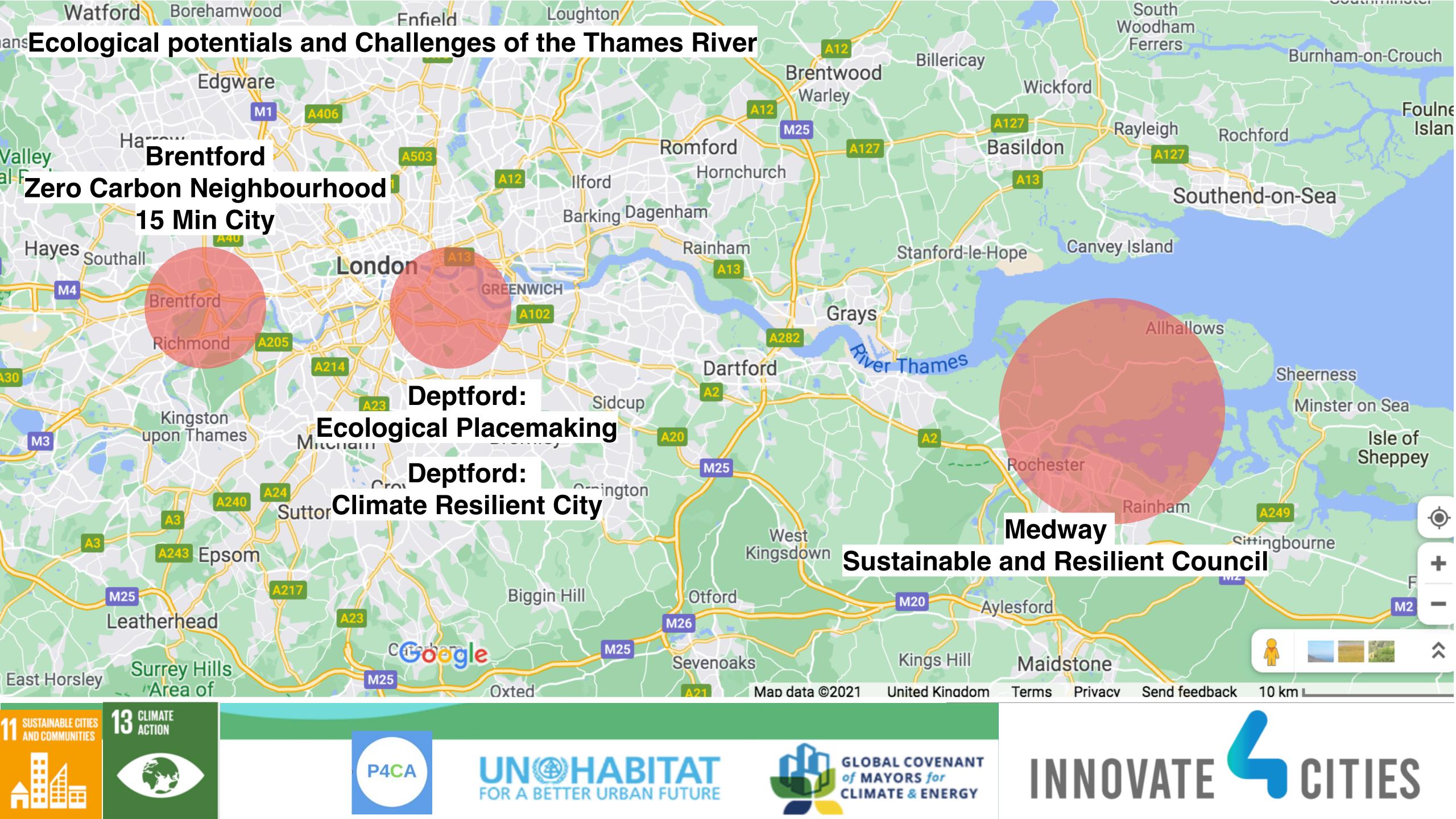


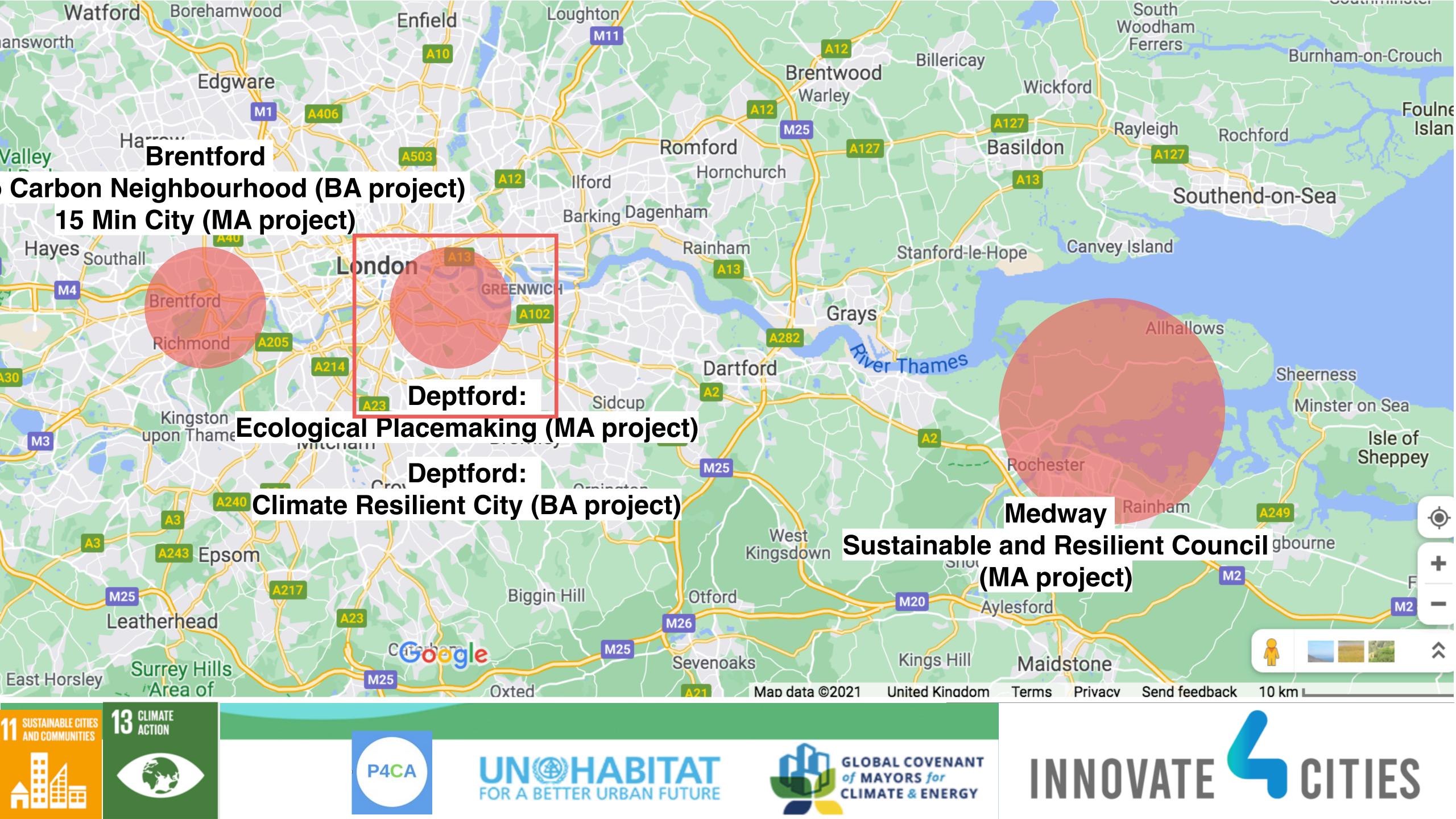






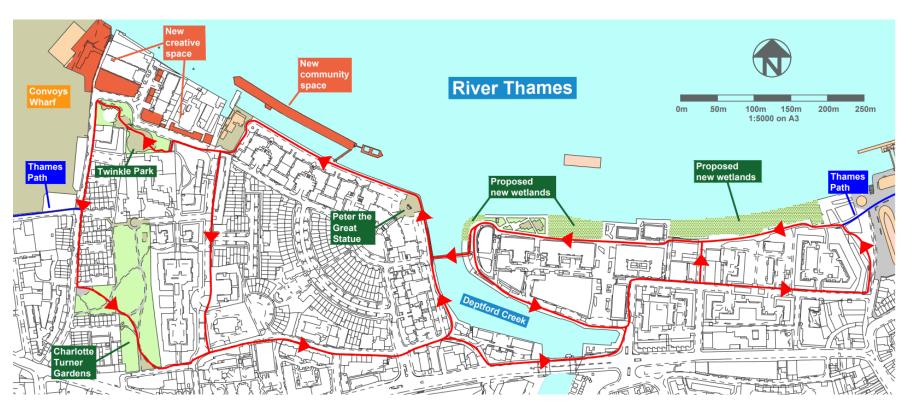
Through teaching activity, I have worked on the following:

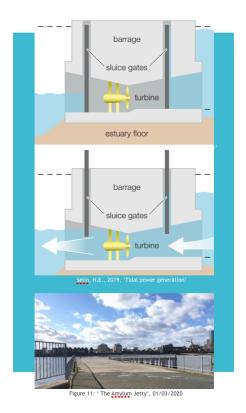




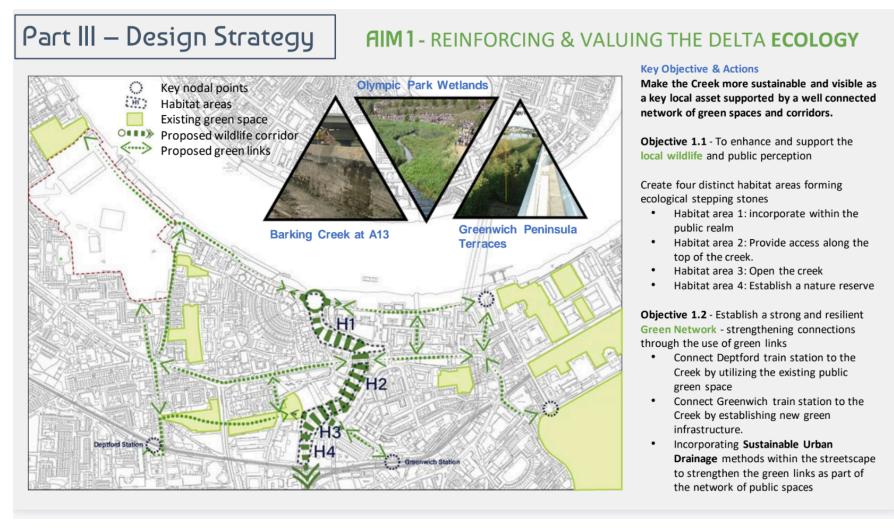
Deptford - Ecological Place-Making

Work with the students in the MA Module Public Realm, MA Urban Design. Tutors: Dr. Roudaina Alkhani, Principal Lecturer Bill Erickson and Dr Krystallia Kamvasinou





Paul Budgen, The Deptford Mile 2019 A resilient and socially sustainable strategy for Deptford Waterfront

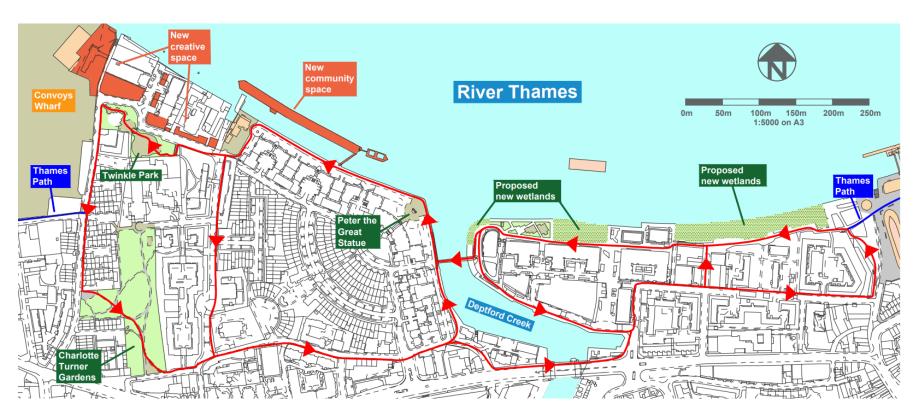


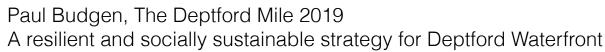
Cecile POullain, Yours Kherkashe, James Lawson, Emma Sharp, 2019 The Depyford Delta - Where the Creek meets the River

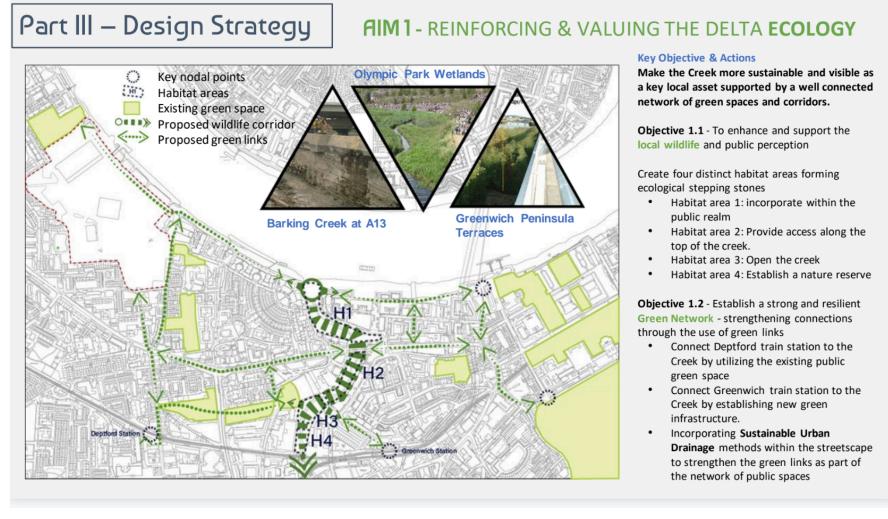
- Enhancing the public realm and connectivity generally through the inclusion of blue-green infrastructure.
- Strengthening the high-street and more connection to the waterfront.
- Creation of Wetland areas.
- Safeguarding lands for future flood management
- Decentralised energy generation from power of rising and falling tide.
- Enhancing sustainable mobility to link main railway station and all other areas and increase connectivity between new areas and existing areas.
- Promoting interest in ecology.
- Promoting a culture of co-making and co-growing.
 Youth hubs and pop-ups entrepreneurialism.
- Providing creative spaces for local businesses
- Strengthening the digital realm.
- Eco-learning.
- Other issues, strengthening ecological cultural and historic significance, safety, community sharing, night time economy, etc.

Deptford - Ecological Place-Making

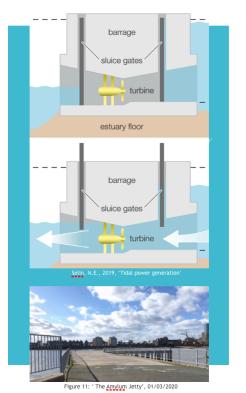
Work with the students in the MA Module Public Realm, MA Urban Design. Tutors: Dr. Roudaina Alkhani, Principal Lecturer Bill Erickson and Dr Krystallia Kamvasinou







Cecile POullain, Yours Kherkashe, James Lawson, Emma Sharp, 2019 The Depyford Delta - Where the Creek meets the River



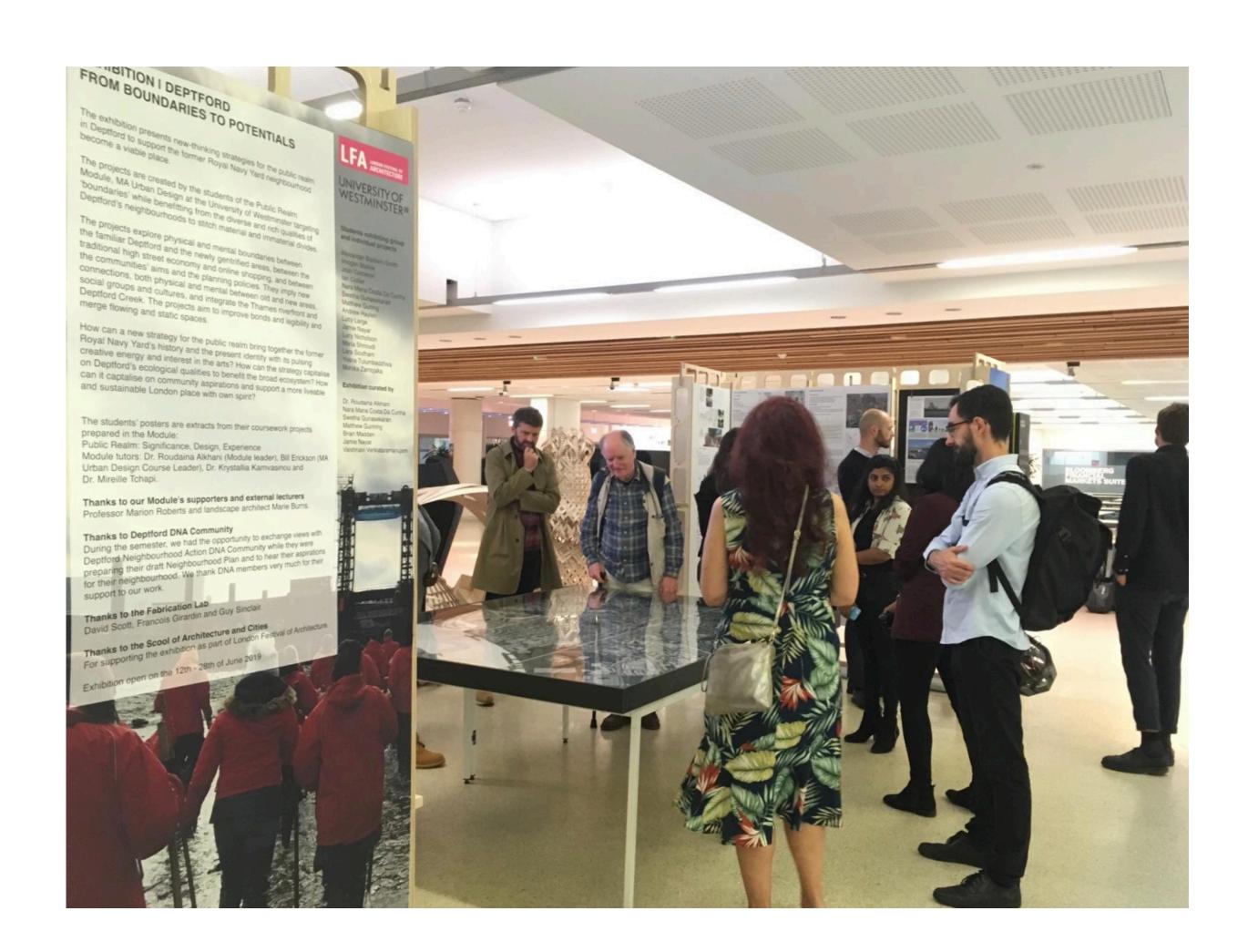
Collaboration with Deptford Communities at the occasion of their Neighbourhood Plan.

The work also involved:

- Developing Implementation plans proposing different stakeholders' and community engagement.
- Developing funding plans for the different proposals.
- Assessing impacts and opportunities of scaling up.

Deptford - Ecological Place-Making

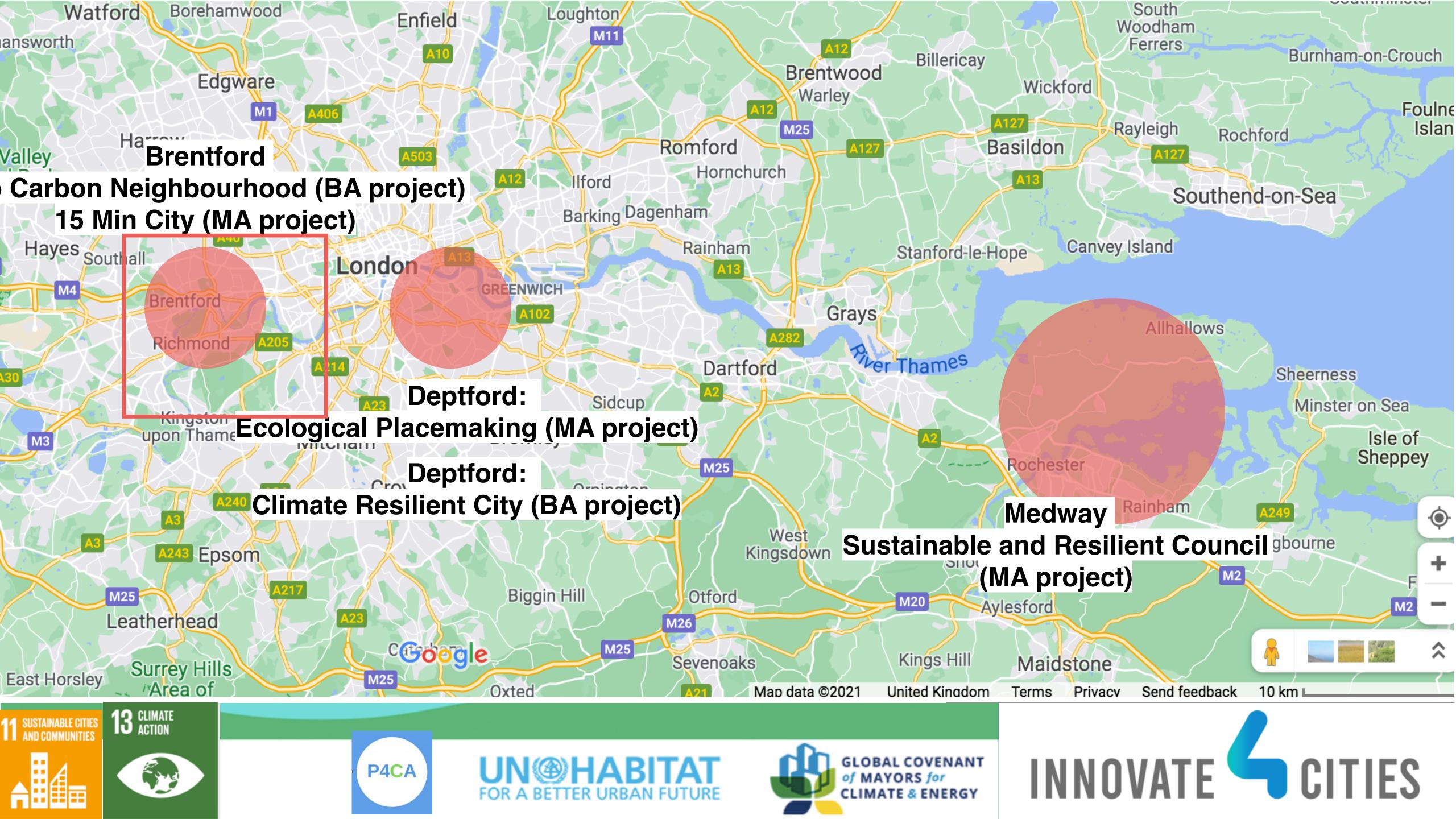
Work with the students in the MA Module Public Realm, MA Urban Design. Tutors: Dr. Roudaina Alkhani, Principal Lecturer Bill Erickson and Dr Krystallia Kamvasinou



Exhibition under London Festival of Architecture

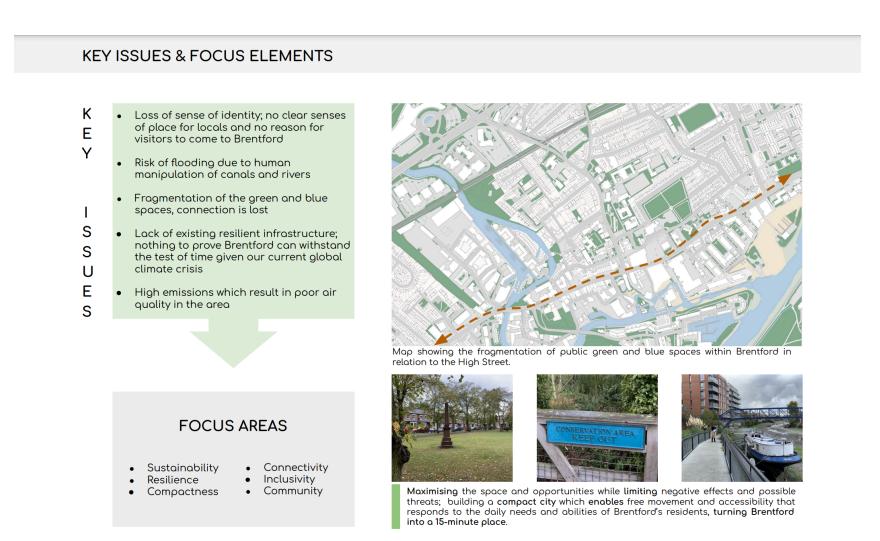
From Boundaries to potentials

By Roudaina Alkhani and the MA students



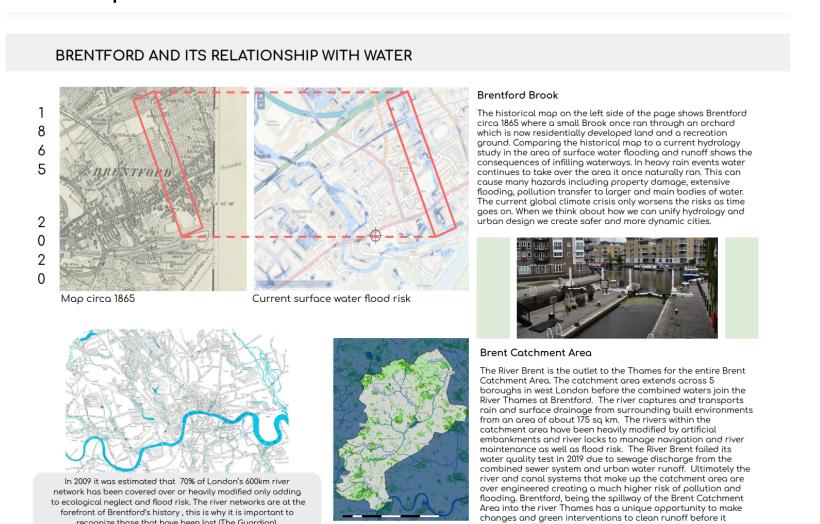
Brentford - The 15 Min Place

Work with the students in the MA Module Dynamic City, MA Urban Design. Tutors: DR. Roudaina Alkhani and Principal Lecturer Bill Erickson



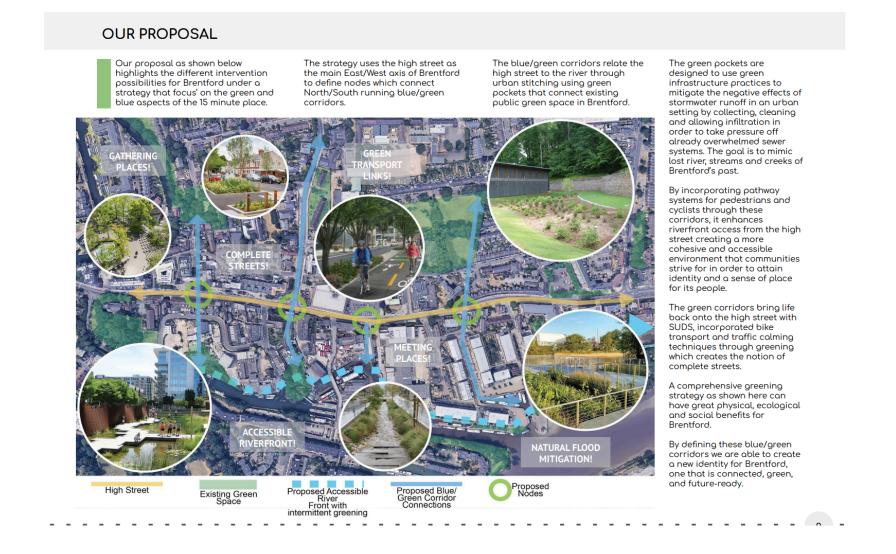
Examples - Students' works

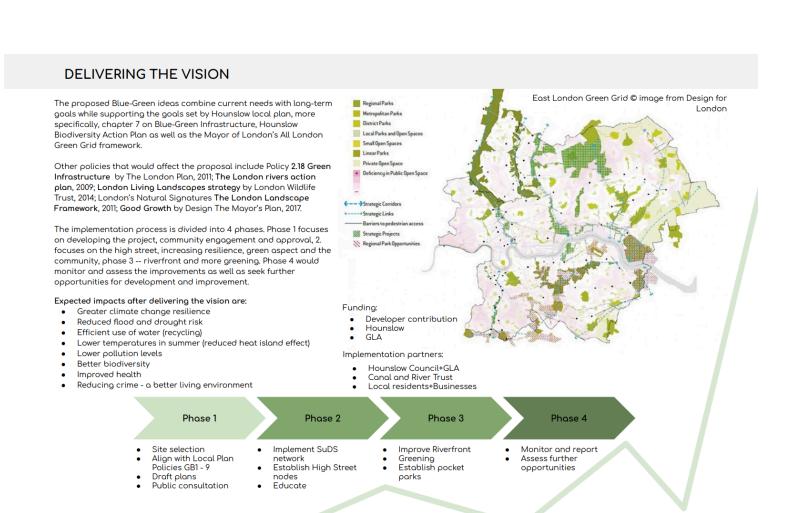
recognize those that have been lost (The Guardian).



Brent Catchment Area

reaches the Thames and onto larger bodies of water





Indepth Context appraisal. SWOT analysis Strategic Vision

Ecology, climate and health are important drivers of Place-making

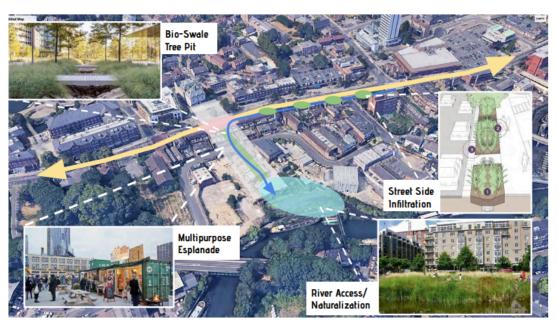
Public realm social hubs High-street health Connectivity

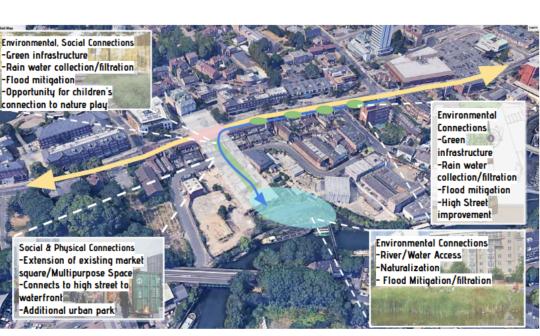
Brentford - The 15 Min Place

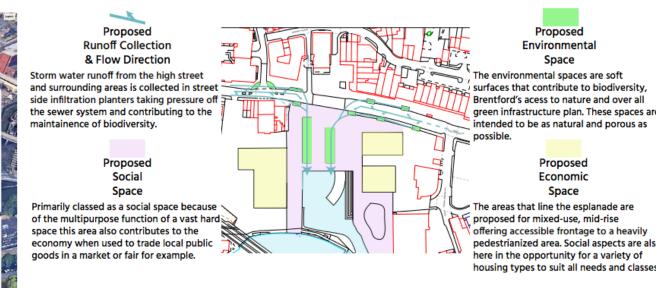
Work with the students in the MA Module Dynamic City, MA Urban Design. Tutors: Dr. Roudaina Alkhani and Principal Lecturer Bill Erickson in collaboration with the London Borough of Hounslow under their Green Recovery













Proposed Esplanade Section

Bio-Retention Multi-purpose hard space with opportunities for an expanded Swale market, or other public events

runoff and directs it towards the

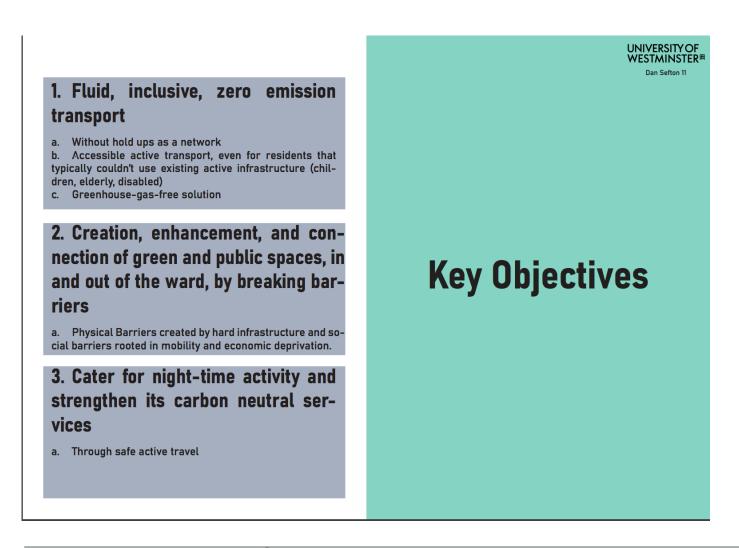
Filter Media filters out fine debris

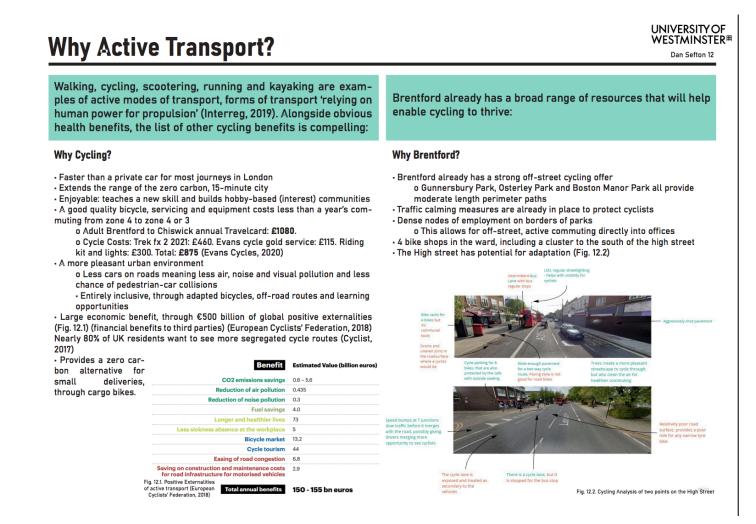
Daniel Johnson, 2020



Brentford - The 0-Carbon Neighbourhood

BA Designing Cities/Year 3. Module taught by Dr. Roudaina Alkhani and Robin Crompton in collaboration with the London Borough of Hounslow under their Green Recovery

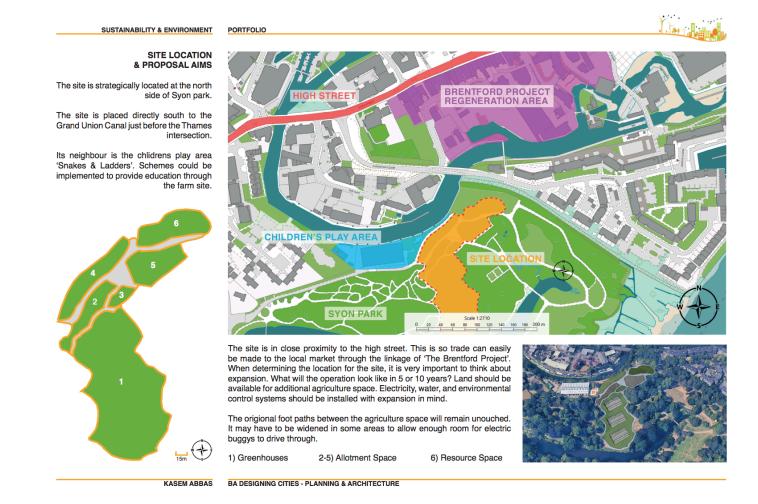






Examples - Students' works







Brentford - The 0-Carbon Neighbourhood

BA Designing Cities/Year 3. Module taught by Dr. Roudaina Alkhani and Robin Crompton in collaboration with the London Borough of Hounslow under their Green Recovery

Key subjects

Climate adaptations

0-Carbon Neighbourhood

Public realm quality

Green-blue infrastructure, including green walls, roofs, urban farming, green links

Active travel, Safe travel

Connectivity

Community engagement in innovation, including energy production

Circular economy

Cycling and heritage routes

Tourism

Community projects and community/school education around ecology

Ecology hubs, community green hubs

High Street

Pop-ups, jobs, entrepreneurialism

Missing: Retrofitting of buildings

Conclusions and reflections

- There is a great opportunity to address climate gaps through an integrated approach to planning and governance while benefiting communities. More evidence-based approach should be developed.
- It is important to clarify potential opportunities to address climate resilience in urban areas through an area-based approach.
- More in-depth understanding of climate gaps is needed.
- Need for indicators to assess performance and impacts and smart tools to monitor complex impacts in urban interventions
- Challenges (incl. financial) to implementation and scaling up across boundaries. Need to establish
 proper and adaptable data records acknowledged at the city and national levels
- Need for holistic pilot examples that can show case the benefit and prompt a bottom up change of policy and planning approaches.