



16/05/19 – 4: Programmes Update

Board paper title		Paper 16/05/19 – 4
LWARB Programmes Update		
Report by	Wayne Hubbard	
Job Title	Chief Operating Officer	
Date of decision	Board Meeting 16 May 2019	

Summary

This paper presents updates on the LWARB programmes.

Recommendations

To note the updates presented.

Risk Management**Risk**

N/A – no decisions being made.

Action to mitigate risk**Implications****Legal**

N/A – no decisions being made.

Financial

N/A – no decisions being made.

Equalities

N/A – no decisions being made.

Originating Officer

Wayne Hubbard

Contact details

wayne.hubbard@lwarb.gov.uk

16/05/19 – 4: Programmes Update

PART A – Non-confidential items

Why the paper is being presented

The paper is presented to update the Board on activities in its current programmes.

Programme Restructure

As noted in the CEO report, there has been an LWARB programme restructure combining the Circular London and Advance London programmes under the Circular London programme heading. The SME business support project retains the Advance London name but now sits as a project in the Circular London programme. The Resource London programme remains unchanged by the restructure.

This Programme Update report reflects the new programme structure.

Circular London

London’s circular economy route map

Some highlights on route map progress are set out below. The Head of Programme – Circular Economy, will be undertaking a review of the route map with stakeholders later in 2019.

Built environment

Circular Construction In Regenerative Cities (CiRCUIT)

LWARB is a key partner in an EU Horizon 2020 stage 2 bid that will focus on circular economy, built environment demonstrator projects. The bid was successful and we are waiting on a signed grant agreement,. The project is expected to start towards the end of May 2019. The London consortia will receive around €2 million over 4 years, with around €1 million to cover LWARB staff time and to facilitate circular economy, built environment demonstrator projects. The project is 100% funded by the EU.

Textiles

European Clothing Action Plan (ECAP) – business models

LWARB and QSA Partners have worked with ASOS to develop a white paper on the lessons learned from this project. It is anticipated this paper will be launched in the Summer. Preparations continue to deliver a pilot circular economy business model as part of our commitment under the ECAP project. The CEO of ASOS has given his full support to the pilot, and it is hoped this will also be launched in the Summer.

16/05/19 – 4: Programmes Update

C & A Foundation project

LWARB and QSA are continuing to work with four fashion retailers (3 corporates and one SME) to develop circular economy business models, tailored to the retailers through in depth examination of business parameters. NDA's have been signed with all retailers. A news release will be issued once we have permissions to announce the four retailers. The first 6 month report to the C & A Foundation was approved. LWARB attended a workshop with the C & A Foundation and the other four "Bridging the Gap" project delivery organisations in Amsterdam on 26-27th February to discuss cross project collaborations. LWARB will be attending the next "Make Fashion Circular workshop" run by the Ellen MacArthur Foundation on 9-10th May to identify opportunities for collaboration.

Electricals

Progress in London's electrical sector

LWARB has procured The Restart Project to deliver a study into the electricals sector in London. The work will identify progress against the electricals section of the route map and help to identify policy best practice from across Europe (to support the CircE project).

London's profile as a leader in circular economy

LWARB has started to provide help and advice to other local and international municipalities. A verbal update will be provided.

London's circular economy community

Plans for this year's Circular Economy Week (10th – 14th June 2019) are well developed. We have over 20 events confirmed already, double the number of last year and are in discussion with several supporting networks to promote the week further. Circular London is planning a number of events including the launch event and a UK Circular cities roundtable in partnership with EMF. Plans for the launch event are progressing where we will look to increase the audience to 200 attendees, for more details see www.ceweek.london.

The Circular London community is growing, with 324 members now signed up to receive news and events information. We recently hosted a very successful event with Circular Economy Club, debating the issues around single-use plastics.

Circular Economy Statement guidance

The Circular Economy Statement policy was debated as part of the London Plan Examination in Public (EiP) on 30th April. LWARB attended to support the policy. The Circular Economy Statement guidance is continuing to be tested and refined with assistance from industry. Subject to the EiP, the guidance should be published by the end of 2019, as part of the Mayor's good growth by design guides.

16/05/19 – 4: Programmes Update

CircE

Following the analysis of opportunities, barriers and current policy in London, LWARB has developed a set of actions for the London CircE action plan and is awaiting feedback from the Interreg Joint Secretariat as to which action types it deems appropriate. Once feedback is received a final action plan will be drafted and shared during this year's CE Week event. From July onwards LWARB will work to deliver the action plan as Phase two of the CircE project.

LWARB attended a CircE visit to Milan, Italy. LWARB took an electrical repair SME, and a representative of the AD Forum on the visit to allow exchange of knowledge and skills.

Circular Economy champions programme

The Circular Economy Policy and Projects Officer has met with each of the three new borough Champions and is developing a set of projects with the officers. The Bromley Champion and the LEDNET Chair (Tower Hamlets) will accompany the CEO to the EMF accelerator workshop in May to increase understanding about the circular economy in practice.

The first session of the new LEDNET circular economy group was held on 21 February at LWARB offices with the agendas and content being supported by the Circular London team. The Circular London team is continuing to coordinate the group sessions, the second session will be held on 14th May and will include presentations from each of the three borough Champions.

Circular London Accelerator

LWARB has partnered with the Carbon Trust to deliver the six-month pilot programme for the Circular London Accelerator.

We received over 40 completed applications, from which 18 companies were selected for an interview with Jessica Brodrick and the Carbon Trust team. Following the interview and due diligence process, seven companies were chosen to join the accelerator.

The successful companies are:

Qflow is a cloud-based platform that enables construction projects to manage their environmental risk and stay compliant with environmental standards.

Biohm is a research and development led company that aims to revolutionise the construction industry by allowing nature to lead innovation.

BuildStream is a data driven solution for major construction projects which helps increase the utilisation of equipment assets such as excavators, bulldozers, generators, cranes and trucks by making them connected and smart.

16/05/19 – 4: Programmes Update

GlobalHom brings a product design for manufacturing approach to home building. Using advanced off-site manufacturing of modular, 'plug and play', smart homes, to enable flexibility and re-usability over the building's lifetime.

Chip[s] Board is a biomaterial innovation company that aims to find value where others see waste, utilising by-products from food manufacturing.

Sustainability Cloud is a digital platform matching sources of surplus concrete to users, eliminating waste and avoiding disposal costs.

Rapiere is a cloud-based platform that enables intelligent analysis of Lifecycle Carbon, Energy and Cost for architectural projects, allowing rapid building design optimisation.

An e-brochure providing an overview of the businesses and their teams is at Appendix 1

The accelerator launched on the 18th March. The companies have undergone an initial needs assessment to develop a bespoke support plan for the 6-month programme. The Carbon Trust will be providing the growth support, supported by LWARB officers.

The programme is supported by six industry partners - BAM, Laing O'Rourke, Galliford Try, LLDC, Berkeley, Wilmott Dixon - who we are in discussions with to provide mentoring and pilot opportunities for the cohort based on their individual needs of the businesses.

We are also re-engaging with the c.20 built environment corporate contacts we had initial conversations with regarding the accelerator to introduce them to the startups to explore further opportunities for support.

We will be monitoring their progress against their growth plans and evaluating the pilot throughout to help the programme design for the next cohort. We will also be reviewing what sector the next cohort should focus on based on the pipeline of businesses, corporate engagement and alignment with wider LWARB activities and objectives.

Advance London Business Support

The Advance London business support project is now in its final year of operation (under the current funding structure) with lots of activity across the team. The portfolio now consists of 128 SMEs. The team is continuing with the twin-track approach (growth and transition streams) in delivering bespoke services that would also help reach quarterly targets. Demand for Advance London services is greater than the capacity to deliver so engagement activities have been streamlined and the team has been more selective in the engagement and networking opportunities it participates in so as to more directly address Advance London's strategic objectives.

The team is operating with 1 instead of 2 technical advisors. A recruitment round has been launched with the new advisor expected to join in Q2/2019. Nonetheless, the team

16/05/19 – 4: Programmes Update

is on track to deliver the targets based on output to the end of Q4 2018 (table shows cumulative achieved at the end of the last 2 quarters).

Output	Project Target	Total Q1/2019	Prior Quarter
P13 (3 hours)	100	112	96
C1 (12 hours)	80	67	56
C29 (New products)	30	18	14
C8 (New jobs)	48	23	13

Business engagement with existing linear businesses however remains a challenge. A communications agency has been appointed to develop appropriate messaging to engage these businesses.

The project has qualified for the second phase of the bidding process for the extension of the project and submitted the respective project change request for additional ERDF/LWARB funding for a further 3 years of operation. We should know whether we have been successful at some point in June/July.

LWARB investment portfolio

See Part B – Confidential Information

Resource London

Resource London Partnership Board

The Partnership Board met on 29 March 2019. At the meeting the PB signed off the 2019-20 Resource London programme plan. Key aspects of the plan are:

- The programme objectives reflect the Mayor of London's ambitions set out in the London Environment Strategy.
- Resource London will continue to have a primary focus on supporting London's waste authorities to drive up household recycling rates. But in a continuation of work started in 2018-19 will also support the Mayor's wider ambition that by 2030, 65 per cent of London's municipal waste will be recycled. To support this Resource London will also support activities designed to increase the recycling of commercial waste.
- The four programme focuses remain unchanged (*minimising the amount of waste produced and maximising re-use; increasing and improving the capture of unavoidable food waste; improving the yield and quality of dry recycling; and restricting residual waste*).
- Resource London will deliver regional, sub-regional and individual authority level projects. Project will sit on a continuum between physical service change/interventions and behaviour change intervention/activity. This reflects the nature of support now being provided by the programme.

16/05/19 – 4: Programmes Update

- For 2019-20 several key regional projects were approved, including: continuation of the flats project, tackling contamination, domestic rented sector, commercial recycling and delivery of three communication and behavior change campaigns.

Resource London programme activity

London Conference

Resource London hosted its London Conference on 03 April (www.london-conf.com). The primary audience was London borough and the conference was well attended with over 150 delegates. Speakers include: Shirley Rodriguez, Cllr Clyde Loakes, Dan Jones (LEDNET), Doug Simpson (GLA), Gemma Scott (RL) and Sarah Craddock (RL).

Reduction and Recycling Plans

The London Environment Strategy includes a requirement for all London boroughs to develop reduction and recycling (RRP) plans. The boroughs have been placed into one of three phases. Phase 1 boroughs were required to submit their RRP's to the GLA by 31st March 2019, Phase 2 by 30th June 2019 and Phase 3 by 20th December 2019.

All the phase one boroughs have been supported with benchmarking or options modelling. Resource London officers have also reviewed and commented on draft RRP's submitted to them. Officers have also held one-to-one meetings with the majority of phase two boroughs and reiterated the support available.

1-2-1

Resource London continues to provide and scope a number of bespoke service support projects with waste authorities planning or delivering service change or to boost the performance of their existing services, current projects included: Service Options Reviews for Barnet and Haringey; and a survey of household properties to assess their potential for the accommodation of bins for containerisation of waste in Hackney.

During 2018-19 the programme supported Lambeth to increase food waste capture; RBKC with kerbside food waste pilots; Greenwich with an options appraisal to restrict residual waste; Hackney, Islington, Merton and Bromley – to boost participation and volumes collected in their separate food waste collections during our food waste quarter; and Enfield to carry out a survey of a selection of households to determine the fill rate of bins and the presence of side waste to inform their recent consultation on a service change. We also delivered a target food waste quarter with four boroughs – Hackney, Islington, Merton and Bromley – to boost participation and volumes collected in their separate food waste collections

Flats

The project is now in its operational phase and is going well. Resource London launched a minimum standards communications toolkit and published the ethnographic research on 11 February 2019. These were then presented on at the London Conference.

16/05/19 – 4: Programmes Update

Qualitative research to explore and gather resident and wider stakeholder opinions and interpretations of the various interventions being piloted is being conducted between April – June 2019.

The final full waste analysis (comprising 8 weeks of tonnage monitoring and 1 week of compositional analysis) will be conducted in May-June 2019 (mirroring the analysis undertaken in May-June 2018) and marks the end of the live project period. The result from this will provide definitive results and recommendations, which will then be published in the late summer.

Communications and Behaviour Change

London Recycles – One bin is rubbish:

The 'One bin is rubbish' campaign has completed its year 2 delivery. Activity delivered so far includes:

- **Bus-side adverts** in October, November and January;
- A **digital campaign** running in bursts from November through to end February.
- A **plastics push** in mid-January, focusing on what plastic items can and cannot be recycled easily from home. Pick-up was very high on this story, with the team achieving broadcast coverage including London Live, three pieces on BBC London news and a radio interview on 5 Live;
- An online **content partnership** with Joe Media featuring two videos – one showing dogs recycling and the other featuring a Rube Goldberg machine, both highlighting that recycling is easier than you think. The films went live in November and December 2018;
- An **influencers** campaign, harnessing the reach of Instagram influencers who have a strong following amongst the 'London recycles' target audience; and
- A '**service at a glance**' advert on Facebook, using an animated format called 'Instant Experience', to provide residents with a simple guide to their local waste and recycling service, some tips on what can and can't be recycled and a click-through to more information (the borough's own website). This was created as a pilot with four boroughs – Lewisham, Brent, Southwark and Haringey.

April has been spent collating all assets into a **borough toolkit**, to be uploaded onto the Resource London website and shared with all London boroughs.

A full campaign evaluation of year 2 will be ready in early May and will be used to inform year 3 planning.

During May, June and July the team will be reviewing and updating the current campaign brand guidelines to take its development over the past year into account. These will be shared with all London boroughs once ready.

TRIFOVAL

Wave 3 in Hounslow, Islington and Sutton, was completed at the end of March.

Prolongation has been officially confirmed for TRiFOVAL, taking the project through to

16/05/19 – 4: Programmes Update

31 January 2020. The extended project period allows us to run a series of cookery workshops and a wave 4 during October, for which 10 boroughs will be given funding to run campaign bursts at a local level using the final ‘Small change, big difference’ assets.

#LoveNotLandfill

Prolongation has been officially confirmed for ECAP, taking the project through to 31 December 2019. Consumer-facing activity currently planned for the year is:

22 nd -28 th April	Fashion Revolution Week	Online campaign featuring social media influencers doing a ‘de-haul’
Mid-June	Circular Economy Week	Depop pop-up shop featuring some of their most popular online sellers – offline
September	#LoveNotLandfill Returns	t.b.c. – a pop-up shop for retailers to sell their returns directly to the public
November	#LoveNotLandfill charity pop-up #2	Re-running our successful pop-up from 2018 with similar charity retailers

Municipal Waste Programme

To meet the Mayor’s 65 percent municipal waste recycling target, the Mayor is encouraging waste authorities to identify opportunities to improve their own commercial waste recycling services. LWARB is supporting this through a targeted workstream in which a number of projects are being progressed.

Officers are supporting two local authorities to establish new commercial recycling services, as well as supporting one BID with tendering for a new waste provider.

A Commercial Waste Network has been established to allow boroughs to share good practice.

Work is progressing to develop standard communication and educational materials for the London local authorities, BIDs, and the businesses they serve.

In addition to the above there has been ongoing work with TFL, business groups, DEFRA, large London estate owners and landlords, WRAP and businesses.

The most significant of these is the joint zoning project with WRAP which has now completed all business surveys and baselining as well as deciding on scenarios to be mapped that will show the impact zoning could have on air pollution, route optimisation and cost. A first draft is currently being reviewed by officers.

Additional Information

Appendix 1 – Circular London Accelerator brochure

CIRCULAR LONDON ACCELERATOR

Powered by



Commercialising innovation
within the built environment

ACCELERATING CIRCULAR ECONOMY INNOVATION

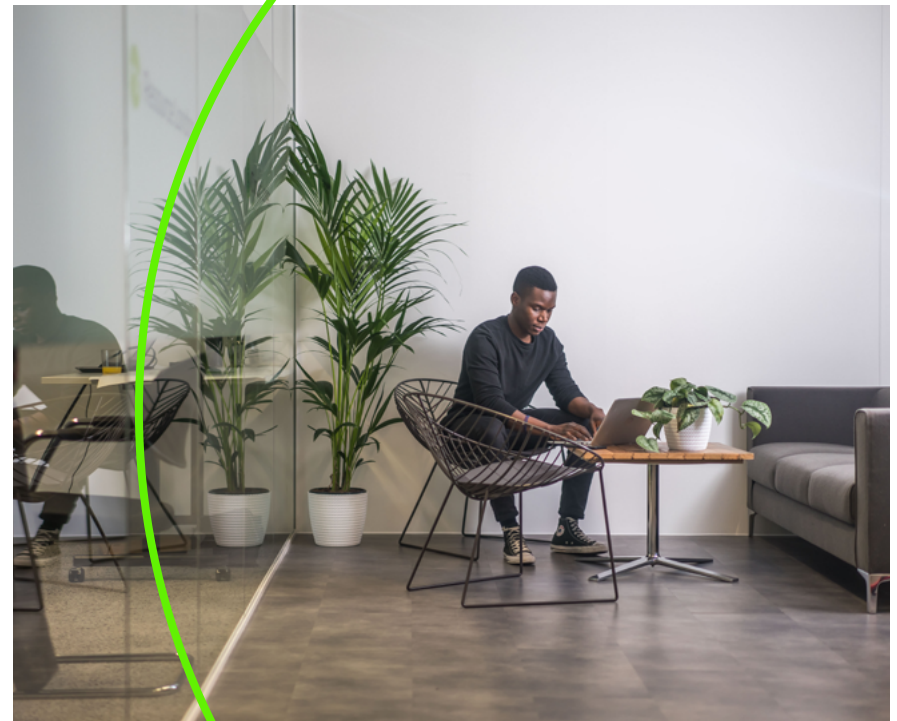
LWARB, in partnership with Carbon Trust, is delivering an accelerator programme to drive circular economy innovation.

As detailed in LWARB's Circular Economy Route Map, one of the major challenges facing London is the provision of efficient and sustainable housing, business premises and infrastructure that the capital's residents and workers depend on. Addressing this challenge by implementing circular economy opportunities in London's built environment could lead to GDP growth of between £3bn and £5bn annually by 2036*. It is for these reasons that the inaugural cohort of the programme will be focused on scaling innovative solutions to challenges in the built environment.

Each start-up in this cohort was chosen because of the ground-breaking work they are doing to ensure that buildings, products and materials are kept at their highest value for as long as possible.

Located in LWARB's circular office in Shoreditch, the six month programme will deliver bespoke support to the selected start-ups, drawing on expertise from industry supporters and a wider network of mentors.

* [See our Circular Economy Route Map for more information.](#)



PROGRAMME OFFER

Recognising that no two businesses are the same, the Accelerator will offer a bespoke journey of growth for the selected start-ups, which will include:



Bespoke support

Dedicated innovation team to help accelerate business growth with no equity or fees.



Access to finance

Investment readiness support, connections to investors, professional services and other sources of funding.



Mentoring

A panel of expert mentors who will guide personal and professional growth.



Network

Access to LWARB's extensive network of business, circular economy, public sector, and policy connections.



Access to market

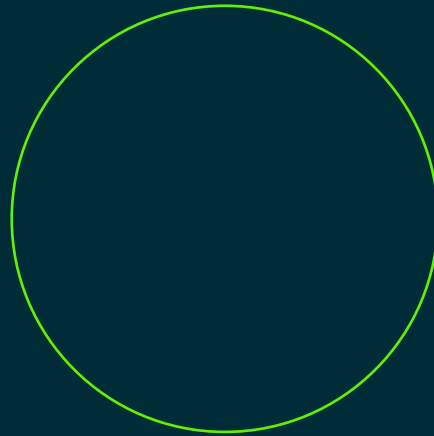
Input and guidance from our network of industry leaders to help refine, pilot and validate innovation.



Workspace

Free desk space and meeting rooms, and benefit from peer collaboration in LWARB's new circular office in Shoreditch.

MEET THE COHORT



Interactive
Click to jump
to page.



Sustainable construction demands better management of social and environmental impact. To achieve this, reliable, efficient tools are needed to make sense of large volumes of data across the range of related fields.

Qflow is a cloud-based platform that enables construction projects to manage their environmental risk and stay compliant with environmental standards.

Qflow brings together machine learning and the Internet of things to holistically capture and analyse environmental data, making it easier to identify and manage risk in construction projects. This drives productivity and cost-savings while enabling a positive impact on the built environment.

Interested in working with Qflow?

Contact Brittany on brittany.harris@qualisflow.com

[Visit website](#)

Meet the team



Brittany Harris, CEO

Brittany has spent 7 years in Civil Engineering and is a recognised thought leader, in building sustainable futures, within the Institution of Civil Engineers. She has experience in managing complex teams on challenging project. She and Jade co-founded an international NGO in 2016 (WASHable International) which is now being run by their Canadian co-founders.



Jade Cohen, CPO

Jade managed environmental impact on Crossrail and HS2, and developed the first set of Natural Capital accounts for a top tier construction firm. She has experience in taking a product from inception to international deployment, managing a team of engineers and designers with her previous social enterprise, JuaMaji.



Riccardo Bennett-Lovsey, CTO

Riccardo has 12 years of development and systems architecture experience working in start-ups in Investment management, public transport and biotech. He has an MBA and a PhD from Imperial in Bioinformatics.



Concrete is the second most used material in the world behind water. 10 billion tonnes are produced every year with up to 500 million tonnes wasted annually.

This comes at a cost of around USD\$20 billion and 84 million tonnes of carbon.

The Sustainability Cloud platform offers real time on demand concrete that would normally be destined for landfill. When a delivery has surplus (waste) concrete due to onsite issues the key data is uploaded onto the app and matched to a customer. This reduces waste, lowers disposal cost and provides new revenue for the supplier, while offering a low cost concrete option for customers.

Interested in working with Sustainability Cloud?

Contact Phill White on phill@sustainabilitycloud.co

[Visit website](#)

Meet the team



Phill White, CEO

A serial entrepreneur building 3 circular economy startups with 10+ years senior management experience, global exposure in Australia, UK and Silicon Valley. Phill has experienced success, failure and everything in between, he has previously secured investment from the coca-cola company that enabled the creation of a startup that was selected for the World's first ocean solutions accelerator which was featured in Forbes magazine. He is has a passion for sustainability, enjoys playing ice hockey and loves to travel.



Russell Elfenbein, CTO

Russ has had a passion for coding since he taught himself c++ as a child. Russ has also 10+ years in engineering and project management roles on major civil construction projects with some of the largest companies in the world. His technical knowledge combined with his industry experience is the reason that he is the best CTO to build this solution.

Chip[s] Board[®]

Chip[s] Board is a biomaterial innovation company that aims to find value where others see waste, utilising by-products from food manufacturing.

Currently focusing on potato waste, the team have managed to produce a number of proof-of-concept materials which include a particulate composite board and a bioplastic. Whilst the uses for their materials are countless, Chip[s] Board are actively seeking industrial partnerships to ensure their use within fast moving industries such as visual merchandising, exhibit design, interior design and fashion. These materials whilst still in R&D have begun to be used by selected collaborators including sustainable fashion designers and eye wear manufacturers.

Interested in working with Chip[s] Board?

Contact Rowan Minkley on rowan@chipsboard.com

[Visit website](#)

Meet the team



Rowan Minkley, CEO & co-founder

Rowan is an environmental and strategy led designer, focusing on how to bring innovation to existing projects and develop new strategies for circular-economy businesses. Winner of the Mike Bond Strategy & Entrepreneurship Award 2017 and Creative Conscience Gold Award in 2018.



Robert Nicoll, CPO & co-founder

Rob is a material led designer, graduating with a degree in design and accompanying awards in product innovation and material development. Recipient of the Creative Conscience Gold award in Product Design 2018.



Gregory Cooper, CTO & co-founder

Greg is a multidisciplinary research scientist with a background in biochemistry, neuroscience and microbiology. Drawing from a broad set of academic interests and practical experience optimising experimental drug-target identification protocols, Greg focuses on synthesising efficient and forward-thinking research strategies, without compromising on clear and relatable scientific communication.



Biohm is a research and development led company that aims to revolutionise the construction industry by allowing nature to lead innovation.

Biohm have developed a range of 100% natural materials including Mycelium (mushroom-based) Building Insulation, which consumes waste as it grows and Orb (Organic Refuse Biocompound), which combines agricultural and food waste with an organic binder to create a sheet material for use in building and interior architecture.

The company is currently working on developing a Plant-Based Concrete, future living materials and aims to expand their range of Mycelium construction products. All of Biohm's materials will eventually be combined to form an interlocking construction system known as Triagomy.

Interested in working with Biohm?

Contact Ehab Sayed on ehab.sayed@biohm.co.uk

[Visit website](#)

Meet the team



Ehab Sayed, Founder & Director of Innovation

Ehab has over 6 years of experience leading sustainable design and research projects for some of Europe's largest corporations. He is a sustainable design engineer, circular economy strategist and built environment innovator with a passion for creating a biomimetic (nature-inspired) future that meets our environmental, economic and human needs.



Harry Darkly, Director of Projects

Harry has over 6 years of experience in the public sector managing multi-billion pound projects for the UK government's Ministry of Justice. He holds an LLM in International Law and an MSc in International Security & Global Governance from Birkbeck University of London. His expertise in international law and sustainable development is crucial when it comes to expanding beyond the boundaries of the UK and Europe. Especially when we commence our 'Outreach' stage in phase 3 of Biohm's development.



John White, Director of Strategy

John has over 10 years of experience in resilience and consultancy, previously Director at KPMG and EY. Currently Regional Head of Implementation at 100 Resilient Cities, he leads programme implementation across 21 cities in Europe and the Middle East – working directly with city and private sector executive teams to unpack finance and solve challenges associated with social inequality, globalisation, urbanisation and climate change.

Meet the team



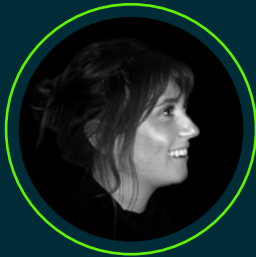
Francesco Verderosa, Product Development Manager

Francesco is a highly talented Industrial Design graduate with a keen interest in architecture, sustainable product development and bio-based materials and he has worked with architecture firms and design studios around the globe.



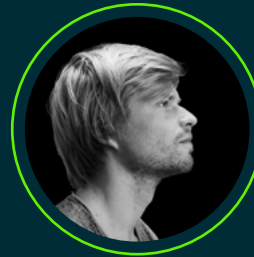
Oksana Bondar, Business Innovation Manager

Oksana has over 8 years of experience in entrepreneurship, design and commerce. She is also a passionate sustainable material researcher and developer as well as circular economy strategist.



Imogen McAndrew, Lead Designer

Imogen is an Architecture student who is passionate about the development of natural and bio-based materials for applications that span across all design disciplines, from fashion to architecture. She is spending her year in industry working with Biohm.



Alekski Vesaluoma, Material Consultant

Alekski is an Industrial Designer with a keen interest in bio-based material development and has co-founded an art collective, known as Mandin, implementing highly regarded and award winning sustainable artwork.



Ashley Granter, Lead Mycologist

Ashley is an industrial designer who specialises in mycology. Although a recent graduate, he has already established himself as one of the country's top experts on the subject.





GlobalHom brings a new product design for manufacturing approach to home building.

Thanks to the product design background of its founders, the approach focuses on user experience and allows for flexibility, sustainability, and ease of upgrade in its connected smart home approach to future living. The modular design allows for fast and efficient on-site assembly, while the plug-and-play modular interior design solution allows for the home to be reconfigured with minimal disruption, at lower cost, with zero wasted material to reflect the evolving needs of the occupier. Every component is tagged and tracked from manufacture and using an open source approach supports an online marketplace where components can be traded as part of a circular economy.

Interested in working with GlobalHom?

Contact Lee McCormack on lee@globalhom.com

[Visit website](#)

Meet the team



Lee McCormack, Interim CEO & CVO

Lee is an award-winning product designer specializing in immersive environment products. He is a seasoned entrepreneur having successfully raised \$Ms to develop projects in the US and UK and negotiated partnerships with F1 team McLaren and leading US tech companies. Lee is overall responsible for driving the vision of the company.



Dan Eades, CTO

Dan has run a successful multi award winning technology company for 15 years. His company is consulted with and commissioned to develop bespoke software and hardware solutions to enhance the living environment with smart home technology. Dan is responsible for driving the technology agenda as well as strategic partnerships.



Clinton Beukes, Head of Programme Delivery

Clinton is a vastly experienced project manager having run large teams of people in multiple disciplines. Clinton's expertise lies in managing teams over multiple disciplines including manufacturing, design, technology, assembly, testing and certification. Clinton has overall responsibility for managing the delivery of the first prototype, beta test phase and factory set up.

Meet the team



Mark Holloway, Chief Mechanical Engineering

Mark is a successful mechanical engineer with a huge wealth of manufacturing experience having seen many of the products he has engineered reach the market in many different sectors including consumer, automotive, aerospace, telecoms and medical. Mark has engineered the product to its current level and will have overall responsibility for heading up product engineering.



Claudia Nowojewska, Head of Materials Design

Claudia worked her way up within the retail industry to become the European head of visual merchandise for Timberland before returning to University to progress her career in design innovation. Claudia combines her skills to bring a strong management focus to the design team.



Rob Andrews, Head of UX/UI Design

Rob is a 4 times BAFTA winning interactive design animator. His talents have seen him head hunted by Apple to design the User Interface for one of their latest suite of applications. Rob will be responsible for the Ux and Ui for the control environments for the smart home functions and community engagement/ smart city connectivity.



Sally Gantlett, Head of Materials Design

Sally is an efficient and proactive designer who is passionate about the value of good architecture. Working with existing and historic buildings has created her enthusiasm for designing with suitable longevity and adaptability. Sally has experience across all RIBA stages on a range of project sizes, on new builds, refurbishments, extensions and conservation projects.



Rapiere Software Ltd created Rapiere, a web application, to aid building design for the circular economy including lifecycle carbon and cost.

Rapiere is both an integrated BIM (Building Information Modelling) and carbon modelling tool for lifecycle carbon. As a cloud based tool, accessed through a web application, and also through the use of the IFC file format (the standard BIM interoperable file format) it is OS and BIM-tool agnostic, allowing access to all parts of the construction value chain. By allowing multiple users to access the model (similar to Google Docs) it is also a collaboration tool, as well as a modelling/simulation tool.

Interested in working with Rapiere?

Contact Ben Humphries on ben.humphries@architype.co.uk

[Visit website](#)

Meet the team



Ben Humphries, Chief Executive Officer
Director, Architype

With 20 years of experience in Architectural design Ben has steered Architype to international success and recognition. Ben has worked at every level in architectural design, working on projects ranging from small scale UK through to large scale international over his career. Ben therefore brings an unparalleled experience and understanding of the sectors we are targeting.



Gareth Selby, Project Director
Senior Consultant & CEPH Designer, Architype

Dual qualified in architecture and engineering, Gareth leads the technical delivery of the software tool able to bridge the multi-discipline environment required for delivering Rapiere. Gareth is an industry leader in Lifecycle Carbon having authored research documents for Construction Excellence in Wales, contributed to policy advice documents, such as the Leti Framework London Plan Policy Statement and is a regular speaker on the subject, most recently with the UK Green Building Council, the Passivhaus Trust and the International Passivhaus Insitut.

Meet the team



Sinisa Stankovic, Chief Technical Officer

Founding Member, ChapmanBDSP and Rapiere Software Ltd

Founding Member of both ChapmanBDSP and Rapiere Software Limited, Sinisa has over 30 years of experience in both software development and delivering front-line consultancy in advanced sustainable building design. Holder of double Masters in Mechanical Engineering and Energy and Buildings, he is also a Chartered Engineer, Fellow of CIBSE, and Member of ASHRAE. He has coordinated international innovation projects for the EC/EU as well as UK agencies, and worked as a project leader on international energy efficiency projects for international funders including the World Bank, IFC, EBRD, KfW (German development Bank).



Donald Macritchie, Director

Managing Director, Green Space Live Ltd

Donald is a graduate of Napier University and Leeds Metropolitan University and is a corporate member of the Institution of Engineering and Technology. Donald is a qualified design engineer and a recognised pioneer in introducing energy planning into the design process. He has established Greenspace Live as a unique software company that responds directly to industry needs by being both software developers in the Building Energy Modelling space and a technology company focused on Control Systems innovation.



Andrew Moore, Director

Senior Director for Currie and Brown

Andrew Moore has worked across many sectors and noteworthy projects in the construction industry. He has worked in commercial, residential, retail and infrastructure and transportation. His clients include large multinationals through to National based developers. He is keen to find innovative ways to help the industry deliver better outcomes for its clients, practitioners and wider stakeholders. The focus on value is extremely important to ensure that wider strategic objectives are met and Rapiere as a tool can greatly assist with comparative modelling of the key factors involved in design optimisation.



Jerry Lehane, Director

Board Director, chapmanbdsp Ltd

Jerry Lehane is a board director at chapmanbdsp, a building services and environmental consultancy with offices in the UK and the UAE. With 30 years' experience in both contracting and in cutting edge design, Jerry initially trained and worked with Haden Young, then went to the multi-disciplinary designers RMJM. He has been with chapmanbdsp since 2001 and became a Board Director in 2003.





BUILDSTREAM

BuildStream is a data driven solution for major construction projects which helps increase the utilisation of equipment assets such as excavators, bulldozers, generators, cranes and trucks by making them connected and smart.

The proprietary IoT hardware and software platform captures live, granular data from equipment operations, seamlessly connecting suppliers, site teams and head office to provide a real-time view of operations out in the field for mission critical equipment.

The system can be used by planners and procurement teams for improved scheduling and more informed equipment purchasing, monitor and improve productivity in real-time, and site managers looking to identify productivity opportunities such as reducing idle time, and optimising maintenance cycles for equipment.

BuildStream (formerly known as GearBuddy) is currently in closed trials with major

infrastructure projects, tier one contractors, and equipment suppliers in the UK, U.S and Japan.

In January 2019, BuildStream won Innovate UK funding alongside Costain plc, BIM Academy and Northumbria University to trial the feasibility of the platform at a major infrastructure project.

Equity investors & advisors include Urban-X, Mini and BMW.

Interested in working with BuildStream?

Contact Terry Clarke on terry@buildstream.co

[Visit website](#)

Meet the team



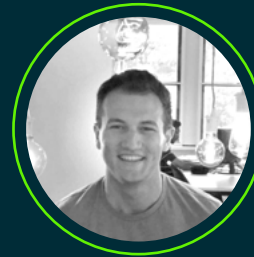
Terry Clarke, CEO

15 years in sustainable construction starting out as an Architecture student, and moving through the industry working for a regional contractor as a project manager, and leading the sustainability function across 10 countries at Europe's leading industrial property investor and developer. Since 2016 Terry has been working as a consultant at Crossrail and JV's involved in HS2, with a focus on the circular economy and equipment productivity.



David Polanski, COO

David is a former Apple engineer, working on the Siri project and has a passion for data driven solutions. David and has a military intelligence background, and met Terry in Helsinki in 2017 whilst Terry was working on a circular economy project in Finland. The pair focused full-time on the business immediately, setting up the company in early 2018, working remotely initially until funding was secured in 2018.



Ollie Reeves, Developer

Ollie is BuildStream's in-house developer, and a former linguistics student at Newcastle University where he met Terry in 2017.

JOIN THE CIRCULAR ECONOMY INNOVATION SUPPORT NETWORK

Businesses

Join our list of industry supporters and help our start-ups to scale their solutions by providing mentoring, technology validation and opportunities for them to test and pilot their innovations.

Investors

Get to know our businesses, they all bring innovative solutions to challenges in the built environment sector and will secure industry validation and testing throughout the programme. Some of our cohort have already successfully raised investment and will be looking towards their next round. Others are fundraising at the moment, and some will be looking to explore the investment options available to them, and deciding the right options for their business over the course of the programme.

You can support them by: sharing your expertise, advising them and seeing if they are the right fit for you.



CIRCULAR LONDON ACCELERATOR

More information:
circularlondon.org/accelerator

Contact us:
jessica.brodrick@lwarb.gov.uk

Follow us:
[@circularlondon](https://twitter.com/circularlondon)
[#circularaccelerator](https://twitter.com/circularaccelerator)

Powered by

