

Sustainable Futures



2 At a glance

3 Our story this year

4 Chairman’s statement

7 Sustainable futures

9 Community engagement

11 Digital transformation

13 Our work

25 Governance

26 Financial summary

27 People awards

28 Project awards

30 Credits



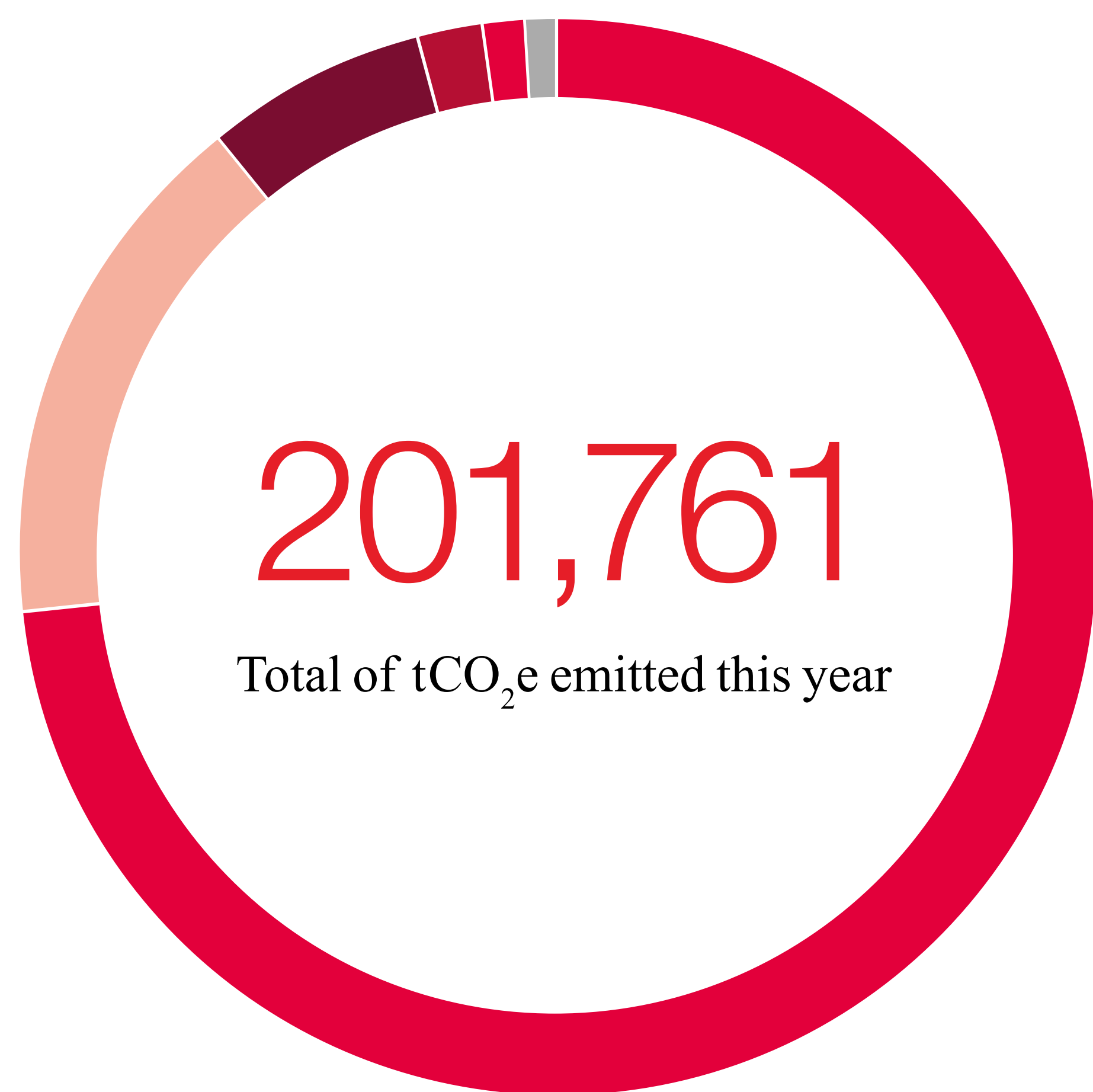
In this year of global pandemic, Arup has kept its focus on sustainable futures – for our own people, our clients, society and the planet. In this Annual Report, we demonstrate how our imaginative approach to solving major problems and creating enduring outcomes shapes a better future for us all.

Though 2020 has been a turbulent year, we continue to push forward. We’re operating in more countries, collaborating with more clients and have more members than last year.

We’re also standing by our commitment to improving gender diversity – 41% of our members are women, with 23% in leadership positions.

This year our carbon emissions amounted to 201,761 tonnes of carbon dioxide equivalent (tCO₂e). We have committed to reducing our absolute emissions by 30% by 2025 in line with science-based targets, and reducing our carbon footprint to net zero by 2030.

A breakdown of our global carbon footprint



- Purchased goods, services and capital goods (scope 3) 71%
- Business travel (scope 3) 17%
- Employee commuting (scope 3) 7%
- Indirect greenhouse gas emissions (scope 2) 4%
- Direct greenhouse gas emissions (scope 1) 1%
- Waste generated in operations (scope 3) < 1%

In brief

7,132

Clients served

16,916

Fee-earning projects

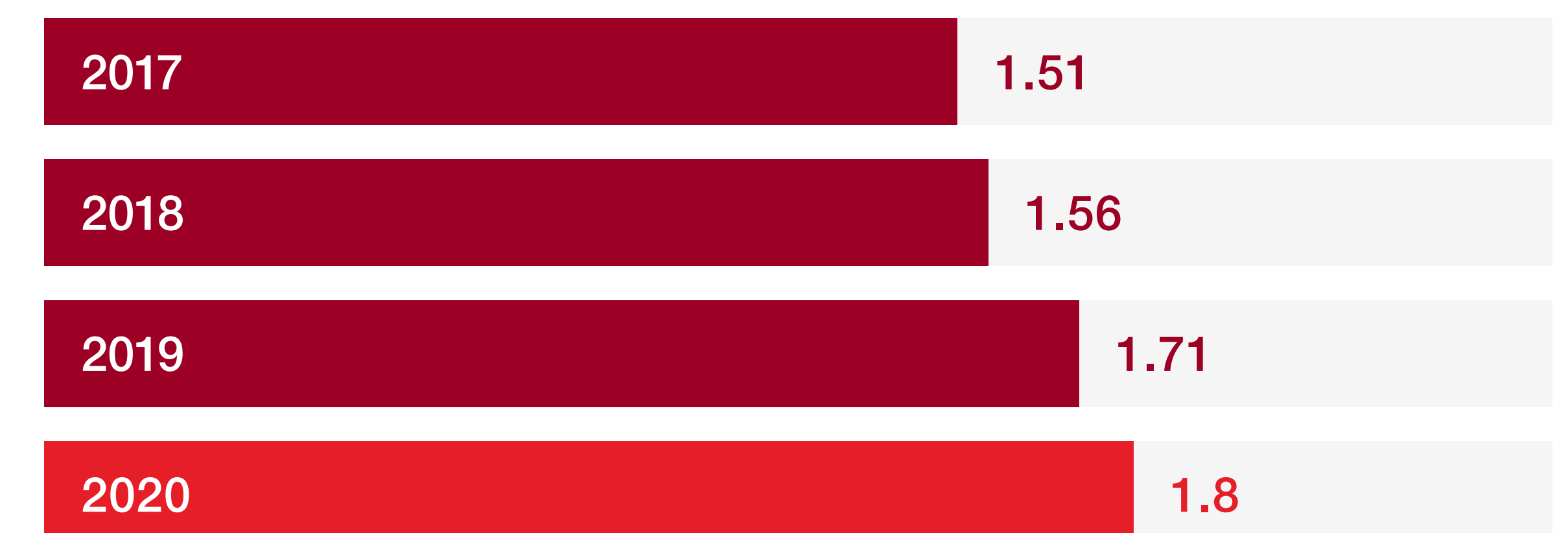
146

Countries where we have worked

16,228

Members

Revenue (£BN)





It's been a year like no other. We've always had a clear purpose – to shape a better world. And we began 2019 as always, doing brave and inventive work, maintaining our robust financial position, and making a positive impact on people's lives.

COVID-19 changed everything. Suddenly our purpose became even more relevant. This crisis has driven us to apply our expertise in radical new ways, using data, technology and modelling to help clients and society adapt.

Our determination is unshakeable. Achieving our sustainable development goals will require greater collaboration between ourselves, our clients and communities. It will require digital transformation and a commitment to new ideas, every day.

We keep innovating. We're defined by pioneering collaborations with our clients, from major cities to rural communities, delivering complex programmes or single, inspiring experiences. And we'll carry on doing exactly that.

Redefining growth. Global threats like climate change and the pandemic are reshaping the future. Growth means something very different now: it must be sustainable and deliver safe, inclusive, resilient communities, infrastructure and cities.



The year 2020 has been one like no other, presenting challenges that were almost unimaginable a year ago.

It is also true that the COVID-19 pandemic has amplified many existing critical issues – from urbanisation and inequality to climate change and resource scarcity.

In tackling these issues I’m proud to report that our members have responded with energy and determination – drawing on their huge range of skills to provide powerful solutions. It’s this capacity that’s served us well this year and will do so again, as we help our clients and communities to face the inevitably strong headwinds to come.





Sustainable development continues to be a central feature of everything we are doing as a firm. Having made the decision two years ago to align ourselves with the UN Sustainable Development Goals, we have now embedded that mindset across our operations ([page 7](#)), with detailed plans and strategies that leave everyone at Arup in no doubt about what’s required to create meaningful change. The LEIQ project¹ in Germany clearly demonstrates what this means in practice.

Across the world, I was especially pleased to see the depth and breadth of our skills continuing to develop and combine in new ways, making us increasingly better than the sum of our parts. Digital technology ([page 11](#)) is frequently a feature of this, but so is the sheer ingenuity of our members. The Shanghai Drainage Masterplan² is a prime example. Combining terabytes of satellite data with machine learning technologies and deep domain knowledge, we’ve achieved results that simply would not have been possible two or three years ago.

Looking back now, it can be hard to remember a pre-COVID-19 world but, for 10 months of this financial year, we were progressing well in a very different business environment. All five of our regions were performing well as we responded to the global need for a better, more resilient built environment. Revenue has grown by 6% to £1.8bn, with the operating profit (before member profit-sharing) rising to 8%.

In South East Asia our member numbers have increased to over 1,000 people across eight countries. From April 2020 our Malaysia operations became a fully integrated and flourishing part of our firm. With the growth in urbanisation and the strains on critical elements like transport, energy and water, demand for the services we offer remains strong.

¹ LEIQ [↗](#)

² Shanghai Drainage Masterplan [↗](#)



Responding to a crisis

Throughout the COVID-19 pandemic Arup’s leadership has applied three fundamental rules. We have committed to protect the health and wellbeing of our members above all else; ensure our financial resilience; and live by our existing values – whatever pressures and challenges we face. Those rules have served us well and I am immensely pleased with the togetherness and sense of shared purpose that has characterised our members’ response to the crisis.

Our recent investments in digital infrastructure also paid dividends, allowing us to fast-track two years’ worth of transformation in a matter of weeks. The end result was that 100% of our members were rapidly able to work remotely, using new tools and systems housed in the cloud.

Beyond our internal operations, we were quickly asked to address a range of COVID-19-related problems. Strong examples among many include protective shields for operating theatres³, rapidly deployable temporary medical facilities⁴, advanced modelling and planning to enable safe return to workplaces⁵ and transport facilities, and charity partnerships making personal protective equipment available to disenfranchised communities.

As I look forward it is clear that the COVID-19 crisis is not over. It’s also true that the big issues we were already addressing – like climate change, inequality, resource scarcity and urbanisation – are if anything more pressing than ever before.

This year marks the 50th anniversary of our founder Sir Ove Arup’s Key Speech – the bedrock of the ethos and values we still follow. One of the tenets of that speech was the belief that our firm should be ‘socially useful’. That’s exactly what we will need to be in the months and years to come – because the challenges the world faces require all the ingenuity we can offer.

Alan Belfield
Chairman

³ AGP shields for NHS frontline workers ↗

⁴ CareBox ↗

⁵ After coronavirus ↗



In 2017, Arup committed to align all our activities with the UN Sustainable Development Goals (SDGs) ¹. This financial year we have reached some important milestones on this journey.

In June we published our global plan, which encourages everyone at the firm to deliver sustainable solutions in their work and demonstrate leadership on the issue externally. To reinforce this, we produced a detailed guide to implementation explaining what people in different roles across our firm need to do to fulfil our ambitions.

We also committed to reducing all emissions associated with our operations by 30% in the next five years, with the aim of reaching net zero by 2030 ². Helping our clients reach these targets is equally important. Across the firm around 200 of our projects had clear net zero targets over the past decade.

¹ [Arup's commitment to UN SDGs](#) ↗

² [Arup's commitment to net zero by 2030](#) ↗





The greatest impact that we can have on the UN SDGs is through our work on projects for clients. Sustainable development is shaping even more of the work we do. A good example is hydrogen, where we are looking at its wider potential as an energy source³ and exploring its future role in rail. Meanwhile, our advisory business has become a world leader in resilience investment⁴, notably in the energy sector.

With buildings representing 39% of global emissions, the huge task of retrofitting existing buildings is increasingly important. 1 Triton Square (page 23) in London is a great example of new thinking in this field.

Across a whole city, our work alongside architects SOM has seen us develop exciting plans for Xiong'an, a new city in China for five million people, designed with the UN SDGs at its heart.

Through partnerships with organisations such as 100 Resilient Cities, the Ellen MacArthur Foundation and C40 Cities, we continue to research and share knowledge on city resilience, the circular economy and climate change.

Towards the close of the year, COVID-19 gave a fresh perspective to our SDG commitments. With emissions dropping significantly, and huge changes in the way we all live quickly becoming 'a new normal', it's clear that real and rapid change is possible. We are more committed than ever to helping our clients and communities make this happen.

³ [Establishing a Hydrogen Economy: The future of energy 2035 \(publication\)](#) ↗

⁴ [Investing in tomorrow's energy](#) ↗



**K11 Atelier King's Road
Hong Kong**

The building design integrates over 70 sustainability features





Community engagement is core to Arup – shaping a better world starts with the diverse communities we interact with every day. This year we provided £4.1m of direct funding for these activities, with an estimated £1.3m leveraged from members’ contributions of unpaid time, fundraising and partner contributions. These resources allowed us to collaborate with more than 200 partners, on 195 projects, in 42 countries¹.

This year, two factors have had a significant effect on our community work. Our firm-wide alignment with the UN SDGs and the impacts of COVID-19.

Across Arup, our understanding of the SDGs has broadened – with a growing focus on social inequality. In South Africa, we have been working in Khayelitsha Township to provide its children with safe and stimulating opportunities for play in the settlement’s public space². Meanwhile, in China, our work on Chuansi Village Primary School³ is providing better opportunities for 400 children from a rural community. This kind of work is happening across all our regions.

¹ Community Engagement Annual Review ↗

² Activating play in Khayelitsha Township ↗

³ Chuansi Village Primary School ↗

◀ **Chuansi Village Primary School**

School children with Arup volunteers who stocked their new library with over 6,500 books



Another important issue is homelessness and housing. In Western Australia⁴ we are working with disadvantaged communities negatively affected by the growth in tourism, while in Spain we are undertaking energy audits to help refugee families⁵ save power and increase the comfort of their housing. Our members' involvement in the global Big Sleep Out event emphasised how important these issues are in every region.

The arrival of COVID-19 saw our community activities pivot to address urgent needs – often in connection with our long-standing priorities. Our data-driven and open-sourced work to prevent pandemic-related homelessness in the USA⁶ is a perfect example. In the UK, we also worked with the Royal London Hospital, MTC and Rolls Royce to develop AGP, an effective shield to protect healthcare workers from aerosol transmission during the treatment of COVID-19 patients.

Meanwhile, our CareBox project provides design guidelines for the rapid development of temporary medical facilities anywhere in the world. These kinds of projects will continue as we help the world adjust to a redefined future.

▼
The World's Big Sleep Out
Fundraising for the homeless
at Edinburgh Castle



- [4 Margaret River housing crisis](#) ↗
- [5 Energy audits for refugee housing](#) ↗
- [6 Addressing pandemic homelessness](#) ↗



In a year where organisations around the world faced unimagined challenges, the digital transformation programme that Arup embarked on three years ago paid dividends. Our investments in IT infrastructure enabled all our members to work remotely, utilising new tools and cloud-based systems. The result for our clients is a firm with greater capabilities and greater connectivity than ever before.

Looking at our project work with clients, the development of new systems and software is having a profound effect on the quality and depth of insights we can produce. Space Explorer¹ is one example. Developed in-house, it builds on Arup’s Mass Motion software – a world-leading pedestrian and crowd simulation tool – using data and spatial analysis tools, to enable clients to understand how workplaces can be redesigned to minimise virus transmission.

Stakeholder engagement was another challenge in a socially distanced world. But Arup’s Virtual Engage² provides a solution, allowing audiences, through a convenient web-based experience, to access information, watch fly-throughs, navigate 3D models and share feedback from any location, at any time.

¹ [Space Explorer](#) ↗

² [Virtual Engage](#) ↗



Transformational technology

Exploring the world using a virtual reality headset



▲ **Başakşehir Pine and Sakura City Hospital**
Providing a seismically resilient world-class healthcare facility for Istanbul

Other advances involve expanding the scope of existing technologies. Building information modelling (BIM)³ is the bedrock of a smarter built environment. Using our BIM Maturity Model, we assess the maturity of BIM implementation across all our projects globally to ensure year-on-year improvement. Also, to help collaborate better with our project partners and clients, we have created a single Revit data naming standard to allow consistency in our models.

Finally, we have been thinking about what technology means for our industry and how it can best be harnessed to everyone’s benefit. The insights leaders like Fiona Cousins⁴ provide are vital to ensuring that we “lead digital transformation and aren’t led by it”.

³ BIM ↗

⁴ Are we ready to lead digital transformation? ↗

▶ **Fiona Cousins**
Leader of Arup’s Digital Services team in the Americas





Sustainable development is at the heart of our work, whether we're regenerating neighbourhoods, redesigning transport infrastructure or discovering new ways to reduce energy consumption. We are committed to doing all we can around the challenges of climate change, inequality, urbanisation and resource scarcity.

The projects on the following pages show how we tackled many of these issues over the past year.



Generali's Procuratie Vecchie

History in the making

Advanced digital modelling unlocked the secrets of a Renaissance treasure, allowing a sensitive restoration that will welcome in the public for the first time in 500 years.

[View interactive experience ↗](#)





N25 Rose Fitzgerald Kennedy Bridge

Designing Ireland's longest bridge

The N25 road is a crucial component of Ireland's transport infrastructure. Arup was the lead design consultant for new sections of the route, including the new 887m long extradosed bridge. The longest bridge of its kind in the world, its shallow concrete deck, significantly shallower than a box girder, helps provide the required navigational clearance for the Port of New Ross.

[Read more ↗](#)

Global Future Cities Prosperity Fund Programme

Sustainable development of safer cities

We are delighted to be implementing five critical city-shaping projects across Turkey under the Global Future Cities Prosperity Fund Programme, as the delivery partner for the UK's Foreign, Commonwealth & Development Office. This work in Istanbul, Ankara and Bursa is targeting interventions focused on transport, as well as urban planning and resilience.

[Read more ↗](#)



ZuidasDok

Creating a vibrant urban centre and improving transport infrastructure

LEIQ

Carbon neutral and economically positive

Sustainability and profitability are not mutually exclusive and our work on LEIQ's new building in Offenbach shows that, by using a new energy concept, 500 tones of CO₂ can be saved over the next 20 years while reducing investment and annual operating costs by 20%. Using an air-water heat pump to both heat and cool, this system uses the thermal energy contained in the ambient air.

[Read more ↗](#)

ZuidasDok

From financial district to bustling urban hub

Arup has taken on the complex challenge of redesigning the financial district of one of Europe's leading capitals. As technical advisor to ZuidasDok, we are working on the creation of a vibrant and connected urban district for Amsterdam residents, workers and commuters, with improved infrastructure solutions for cyclists, pedestrians and public transport offering a viable alternative to the car.

[Read more ↗](#)



Shanghai Drainage Masterplan

Shaping a metropolis

Helping a city with exponential urban growth take a revolutionary new approach to drainage, building in climate resilience and improving people's quality of life.

[View interactive experience ↗](#)





MRT Blue Line Extension

Bangkok's architecture above and below ground

We brought our total architecture approach to the extension of the city's blue line MRT. Two new underground stations were created as part of this design-and-build project constructed in very challenging ground conditions. Located in the middle of the city, the entrance design was influenced by the shophouse style of the Rama V period. The station box, which was formed up to 30m below ground level, was designed emulating the line-wide design standards.

[Read more ↗](#)

Built Environment Application Platform (BEAP)

Digital twin platform for a smart city

Working with the Planning Department of the Hong Kong SAR Government, we developed the BEAP tool, which enables city stakeholders to use a digital twin approach to make decisions on city planning, design, management and operation – supporting the development of Hong Kong as a smart city.

[Read more ↗](#)



Victoria Dockside

Remodelling a harbourfront landmark

Raffles City Chongqing

A sailing skyscraper

Inspired by the historic sailing vessels on the adjacent Yangtze river, this complex has eight towers gently arcing toward the water – echoing the masts of a ship. To realise this ambitious structure for the world's tallest horizontal skyscraper, Arup adopted four mega corner columns connected to the central core wall via diagonal outriggers and belt trusses to form the mega frame structural system.

[Read more ↗](#)

Victoria Dockside

Reshaping the historic Hong Kong waterfront

Arup was delighted to be part of the design team creating a remarkable new mixed development that reshapes the Tsim Sha Tsui harbourfront on Victoria Harbour. We used an innovative double top-down construction for the four-level basement, maximised the reuse of existing foundations and retained part of existing basement structure carrying mechanical plant that serves the adjacent operating hotel. The integrated and sustainable building design is achieved through innovation using applied advanced structural design.

[Read more ↗](#)



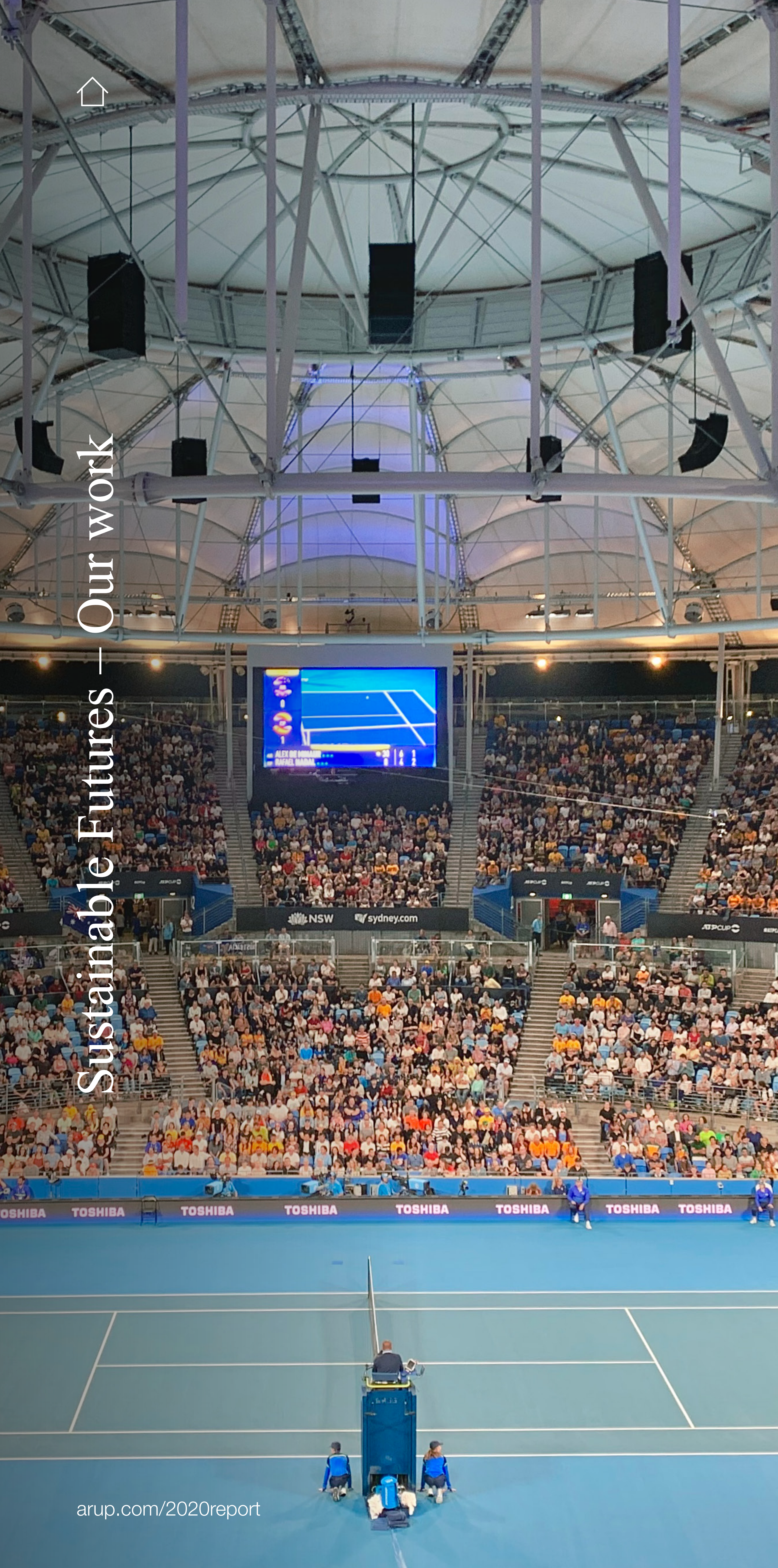
Rewild Our Planet

Saving planet Earth

Inviting the world to step inside a Netflix documentary through an immersive augmented reality experience designed to inspire everyone to take more care of our planet.

[View interactive experience ↗](#)





Australian National University (ANU) Acton Campus Master Plan

Redefining a campus for decades to come

We led the design of the master plan for ANU in Canberra that will transform its Acton Campus into a connected and vibrant precinct, reflecting ANU’s status as a world-leading university. The design is anchored around five hubs, connected by tree-lined avenues, with a mobility strategy that will foster greater ease of access.

[Read more ↗](#)

Central Interceptor

Managing water needs of a growing city

This underground wastewater tunnel, 14.7km long and 4.5m wide, is the largest wastewater tunnel in New Zealand and will help Auckland cope with the water needs of an additional one million people over the next 30 years. Arup is providing detailed design-and-construction-phase support for the tunnel that crosses Manukau Harbour 15m below the seabed.

[Read more ↗](#)



Ken Rosewall Arena Sydney

A new lease of life for Sydney’s Olympic tennis venue

Ken Rosewall Arena

Transforming Sydney’s Olympic tennis venue

Using the latest digital tools and techniques, Arup’s multidisciplinary team designed Australia’s first cable-tension stadium roof – providing full cover over the centre court, allowing play during all weather conditions. Detailed computational fluid dynamic analysis ensured the design provides a suitable occupiable environment underneath the new tent-like roof, protecting both players and spectators from the sun.

[Read more ↗](#)

Thomson-East Coast Line

Creating greater city-centre connectivity

Our extensive contribution to the expansion of Singapore’s Mass Rapid Transit system is continuing with the Thomson-East Coast Line. Our latest project includes the design of three stations in Woodlands, four eastern stations, and six stations across the city-state’s central business district, along with tunnel design. Our solutions emphasise innovation, cost-effectiveness and safety, with minimal disruption to ground-level services and structures. At the TE2 Woodlands Station, we focused on passenger-centric design to ensure enhanced connectivity to the existing station and bus interchange.

[Read more ↗](#)



Kaiser Permanente San Diego

The best of health

Creating one of the most patient-focused and energy-efficient hospitals ever built, showing how award-winning sustainability can be achieved without additional cost.

[View interactive experience ↗](#)





Planning a child-friendly New Orleans

Child-friendly cities

With New Orleans youth representing over a quarter of the city’s population, Arup worked in partnership with the New Orleans Mayor’s Office of Youth and Families to help address systemic inequality and the challenges faced by vulnerable youth in the city. Working with community groups and local stakeholders, we have published a community vision with recommendations across four themes: safety, nature and sustainability, health and wellbeing, and stronger communities.

[Read more ↗](#)

LA Green New Deal

Emission free by 2050

Some projects are a chance to set a new and better course. As key technical advisor to the City of Los Angeles on its climate action plans set out in LA’s Green New Deal, we are helping to meet ambitious targets for 2050. These include emission-free buildings, a zero-emission transport network and zero waste, and our assessments are focused on mobility, energy, equity, waste and water, working with 28 different agencies on the plan.

[Read more ↗](#)



The REACH at Kennedy Center

Designed to meet ambitious sustainability targets

MBTA Green Line Extension

From project termination to implementation

With the project \$1bn over budget and facing termination, Arup was brought on board by MBTA in 2015 to review the planned LRT extension linking two dense yet historically underserved communities in Boston. Convincing the client to go with a new design-and-build process, we built on that trust and were appointed to lead all technical aspects of the project, saving the project and our client \$700m.

[Read more ↗](#)

The REACH at Kennedy Center

Reaching high sustainability goals

Collaborating closely with architect Steven Holl on the addition of three signature pavilions at the busiest performing arts facility in the United States, Arup’s building systems strategy enabled the facility’s expansion to meet ambitious sustainability targets. Using a range of performance-enhancing technologies has allowed the REACH to be energy self-sufficient nearly year-round and attain LEED Gold certification.

[Read more ↗](#)



London's Infrastructure Mapping Application

Seeing into the future

Creating a collaboration tool shaping the future of London to reduce the disruption, cost and public health impact of infrastructure delivery on the city's streets.

[View interactive experience ↗](#)





Electricity North West Sale

Powering the North West

Led by our Business and Investor Advisory team, we brought together a breadth of in-house technical and commercial expertise to provide integrated commercial and technical advice for a robust review of Electricity North West in England – allowing the sale of the electricity distribution utility company that provides power to over five million people.

[Read more ↗](#)

Halfway and Northumberland Wastewater Pumping Stations

Creating cleaner waterways

Our water engineers used a catchment-wide digital approach to provide a resilient, sustainable and cost-effective solution to the issue of wastewater flooding in Carmarthenshire in Wales. This method, along with deploying green infrastructure to decrease surface water volume entering the network, has allowed an annual reduction in wastewater overflow incidents of 75%.

[Read more ↗](#)



Mahindra World City Jaipur

Creating a vibrant place for future communities through climate responsive design

Mahindra World City Jaipur

Climate-responsive design

Our master plan concept for this new 180-hectare residential and social infrastructure zone in the south-west of Jaipur is comprised of distinct yet interlinked mixed-use places set around an existing river basin. Connected by shaded streets and cool, green, open spaces, the plan will create an accessible, usable and climate-resilient community of 25,000 sustainable homes in walkable neighbourhoods.

[Read more ↗](#)

1 Triton Square

Total architecture

Arup's integrated engineering and architecture approach to this refurbishment project in London has maximised the retention of both the existing structure and building fabric, while doubling the usable floor area of the building. Through innovative design and an approach based on marginal gains, we have significantly reduced embodied carbon during construction and throughout the service life of the building, when compared with a typical new commercial building.

[Read more ↗](#)



25 Governance

26 Financial summary

27 People awards

28 Project awards

30 Credits



The Group Board is appointed by our Trustees to set our strategy. We want to create an environment where our people can flourish, and we believe independent, fair-minded governance is central to that wish. The Group Board is responsible for Arup's long-term success, wellbeing, sustainability, financial security and unity.

Group Board members

Alan Belfield
Chairman
[View bio ↗](#)

Tristram Carfrae
Deputy Chairman
[View bio ↗](#)

Peter Chamley
Chair, Australasia Region
[View bio ↗](#)

Cordelia Chung
Non-Executive Director
[View bio ↗](#)

Paul Coughlan
Chief Operating Officer
[View bio ↗](#)

Fiona Cousins
Arup Fellow
[View bio ↗](#)

Isabel Dedring
Global Transport Leader
[View bio ↗](#)

Jerome Frost
Global Cities Leader
[View bio ↗](#)

Michael Kwok
Chair, East Asia Region
[View bio ↗](#)

Dervilla Mitchell
Chair, UKIMEA Region
[View bio ↗](#)

Tim Stone
Non-Executive Director
[View bio ↗](#)

Fergal Whyte
Director of Infrastructure
[View bio ↗](#)

Group Board officers

Martin Ansley-Young
Company Secretary
[View bio ↗](#)

Rob Boardman
Chief Financial Officer
[View bio ↗](#)

Karim Klaus Emara
Global Marketing and
Communications Leader
[View bio ↗](#)

Jenni Emery
Global People Leader
[View bio ↗](#)

Rob Greig
Chief Information Officer
[View bio ↗](#)

Clare B Marshall
Global Legal Director
[View bio ↗](#)



Arup’s results for this financial year have again been strong. Our revenue grew by 6% to £1.8bn, with operating profit (before member profit-sharing) rising to 8%.

This year’s figures we largely achieved ahead of the COVID-19 crisis, which only began to impact financially at the end of February. Since then we have taken prudent steps to protect our position, shoring up cash reserves, reviewing our cost base and putting in place additional banking facilities to ensure that we can manage any short-term turbulence.

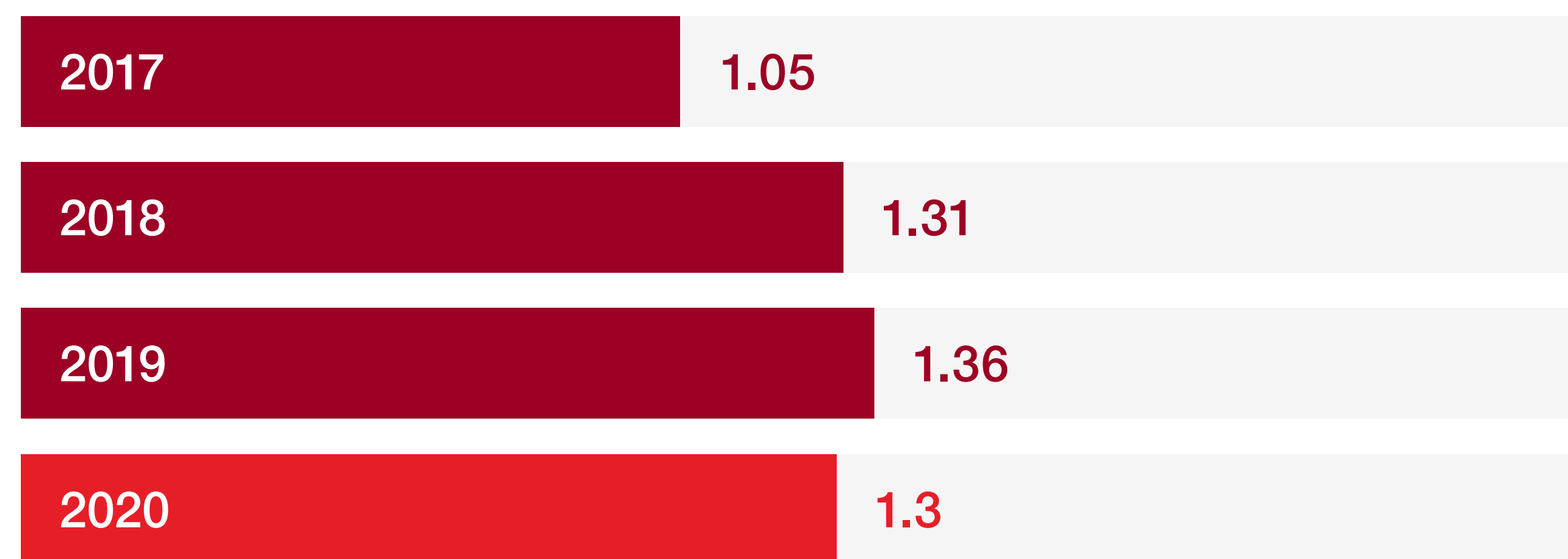
Since the year end, the business has traded satisfactorily and we remain in a robust position to face ongoing market uncertainties.

Our strong future order book is £1.3bn. The order book did drop by approximately 5% in March when compared with March 2019 as clients reacted to the global crisis. However, it has since stabilised and strengthened.

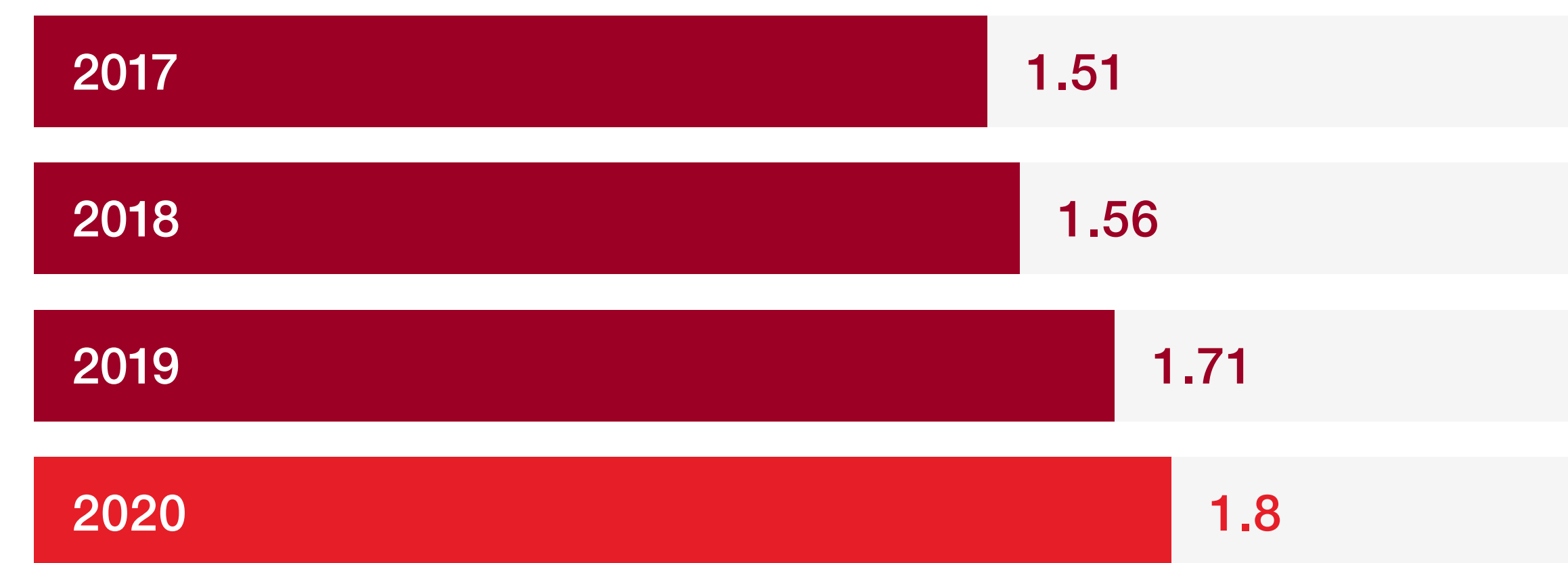
There is no doubt that the global impacts of COVID-19, together with other geopolitical issues, will make the year ahead challenging. However, we believe that the focus clients around the world are placing on infrastructure and sustainable development allows us to remain cautiously positive about the future.

Rob Boardman
Chief Financial Officer

Forward order book (£BN)



Revenue (£BN)





We set our members an undeniably ambitious challenge – to shape a better world. Each year, their excellence shines through, with many winning international awards for their talents. The quality and diversity of our members is something we’re immensely proud of.

Robert F Accosta
Maria F Theodori
Top 5 under 35
Society of Fire Protection Engineers

Pavlina Akritas
Isabel Dedring
Jenni Emery
Eva Hinkers
Dervilla Mitchell
Top 100 Most Influential
Women in Engineering
Financial Times

Vincent Cheng
Sustainability Leader of the Year
Hong Kong Management Association

Susan Claris
Transport Planning Society
Transport Planner of the Year

Kerryn Coker
Champions of Change
Female Leadership – Gold Award
Consult Australia Awards
for Excellence

Tetsuya Emura
JSCA Best New Talent Award
Japan Structural Consultants
Association

Mark Fletcher
Fellowship of the Royal
Academy of Engineering
Royal Academy of Engineering

Ken-Yi Fong
WELL Leadership in Australia
International WELL Building Institute

Ben Hussey
Australia’s most innovative engineers
Consulting
Engineers Australia

Sigurjon Ingolfsson
Australia’s most innovative engineers
General Industry
Engineers Australia

Daniel Lambert
Kamal Fernando Mentoring Award
Australian Water Association

Sharon Lee
Science, Technology, Engineering
and Mathematics Leader
Black British Business Awards

Angus Low
Honorary Membership
International Association for Bridge
and Structural Engineering

Connor McGrath
International Engineer
of the Year Award
Engineers Ireland

Richard Stokes
Future Leader – Gold Award
Consult Australia Awards
for Excellence

Vicky Vassou
President’s Award
Institute of Asset Management

Elliott Webb
Apprentice of the Year
ACE Consultancy
Engineering Awards

Sally Wells
Mentor of the Year
Institute of Telecommunications
Professionals

Verity Williams
Young Professional of the Year
Roads Australia

Tim Wong
Young Engineer of the Year Winner
Hong Kong Institution of Engineers

Hitoshi Yonamine
14th Japan Structural Design Award
Japan Structural Designers Club



We don't take on projects to win awards – our motivation is to make a positive difference with the work we do. At the same time, awards demonstrate our people's talents and unwavering commitment to pushing boundaries. That's something to celebrate.

Australia

200 George Street (EY Centre)
Property Council of Australia Awards for Innovation and Excellence Award for Best Sustainable Development, New Buildings

Green Square Library
Chicago Athenaeum with the European Centre for Architecture Art Design and Urban Studies International Architecture Award

Consult Australia Awards for Excellence Design Innovation Gold Award

INDE. Awards The Learning Space

Melbourne Arup Workplace
Australian Interior Design Awards Sustainability Advancement Excellence Award
Interior Design Excellence Awards Workplace over 1,000m² award
Indesign Sustainability Awards Commercial Architecture (Large)

New York Design Awards Interior Design – International Corporate – Gold
SEGD Global Design Awards Global Honor Award for Wayfinding

Sydney Metro Martin Place integrated development
Infrastructure Partnerships Australia Advisory Excellence Award

China
CITIC Tower
Institution of Structural Engineers Structural Awards Tall or Slender Structures winner

Hong Kong–Zhuhai–Macao Bridge – Hong Kong Link Road
Structural Excellence Awards (Infrastructure and Footbridges) Grand Award

Hong Kong–Zhuhai–Macao Bridge TMCLK Link – Southern Connection
Hong Kong Institution of Engineers Structural Division Structural Excellence Awards (Infrastructure and Footbridges) Grand Award

Raffles City Chongqing
Council on Tall Buildings and Urban Habitat Structural Engineering and Fire and Risk Engineering Awards of Excellence

Hong Kong Institution of Engineers Innovation Award Grand Prize
Hong Kong Institution of Engineers Structural Division Awards of Excellence – China Overseas Projects – Grand Award

Tai Kwun
Hong Kong Institution of Engineers Fire Division Excellence Award – Grand Award
Hong Kong Institution of Engineers Structural Division Excellence Award – Heritage Category – Grand Award

The Association of Consulting Engineers of Hong Kong Grand Award
UNESCO Asia-Pacific Awards for Cultural Heritage Conservation Award of Excellence

Colombia
Cartagena Toll Road – Viaducto de la Paz
Colombian Society of Engineers National Engineering Award and National Environmental Award

Ireland
Fernhill Park & Gardens Development
Engineers Ireland Excellence Awards Sustainability Award

Mary Elmes Bridge
Engineers Ireland Excellence Awards Local Authority Engineering Initiative Award – Joint Winner

Japan
Kyoto University of Foreign Studies Renovation
Japan Structural Consultants Association 30th JSCA Award



Malaysia

Setia SPICE Convention Centre

Association of Consulting Engineers Malaysia
Gold Award of Special Merit
Federation Internationale des Administrateurs de Biens
Conseils Immobiliers
Purpose Built Category

Netherlands

People's Pavilion

Hans Sauer Award
Theme Designing Circularity in the Built Environment

Philippines

Mactan Cebu International Airport

International Architecture Awards
Airports and Transportation Centres – Joint winner

Putatan 2 drinking water plant

Distinction, Global Water Awards
Water Project of the Year

Singapore

Bendemeer Station and Associated Tunnels for Downtown Line Stage 3

Singapore Building Construction Authority Awards – Civil Engineering Projects Category
Excellence Award

Guoco Tower

Bentley Year in Infrastructure Award
Large Buildings

Council on Tall Buildings and Urban Habitat
Award of Excellence – Urban Habitat – Single Site Scale

Singapore Land Transport Excellence Awards

Best Design Land Transport Integration winner

Urban Land Institute Awards for Excellence

Global winner and Asia Pacific winner

Royal Square at Novena

Singapore Building Construction Authority
Commercial/Mixed Development Buildings Category – Excellence Award

UK

Coal Drops Yard, King's Cross

Institution of Structural Engineers
Structural Awards
Structural Transformation
Structural Steel Design Awards
Winner

Cork House

AJ Architecture Awards Manser Medal

AJ House of the Year

Royal Institute of British Architects
Stephen Lawrence Prize

Wood Awards

Gold Medal and Private Award

Pinewood Studios

Development, Phase1

Chartered Institute of Ecology and Environmental Management
Best Practice – Large-scale Mitigation winner

St James Quarter

Ground Engineering Awards
UK Project with a Geotechnical Value over £3M

US Embassy London

Civic Trust Award
Council on Tall Buildings and Urban Habitat Awards of Excellence
Best Tall Building (under 100m)

USA

181 Fremont Tower

National Council of Structural Engineers Associations Excellence in Structural Engineering Awards
New Buildings over \$100 Million – Outstanding Project

Hunter's Point, Queens

American Council of Engineering Companies New York Engineering Excellence Awards
Environmental – Diamond Award

Spruce Goose Hangar

Chicago Athenaeum Museum of Architecture Design International Architecture Awards
Corporate Office Category

Los Angeles Business Council
Los Angeles Architectural Awards
Chairman's Award

The REACH at the John F Kennedy Center for the Performing Arts

American Council of Engineering Companies
Metropolitan Washington Engineering Excellence Awards
Honor Award Winner



Alan Belfield, p4

© Sam Bush

Cityringen, p7

© Rasmus Hjortshøj – COAST

K11 Atelier King's Road, p8

© Marcel Lam Photography

Chuansi Village Primary School, p9

© Arup

The World's Big Sleep Out, p10

© The.World's.Big.Sleep.Out

Digital Transformation, p11

© Paul Carstairs/Arup

Başakşehir Pine and Sakura

City Hospital, p12

© Rönesans Holding

Fiona Cousins, p12

© Simon Jarratt/Arup

Generali's Procuratie Vecchie, p14

© David Chipperfield Architects Milano

ZuidasDok, p15

© Team V

Shangai Drainage Masterplan, p16

© Asla

Victoria Dockside, p17

© Arup

Rewild Our Planet, p18

© Goh Jing Wen

Ken Rosewall Arena Sydney, p19

© Arup

Kaiser Permanente, p20

© Kaiser Permanente

The REACH at Kennedy Center, p21

© Realpippagrams

London's Intrastructure

Mapping Application, p22

© Shutterstock

Mahindra World City Jaipur p23

© Arup

Further information

marketing@arup.com

+44 (0)20 7636 1531

© Arup 2020

All rights reserved.

Reproduction in whole

or part prohibited without

prior permission.

Credits

This document is produced

and published by Arup.

Designed by opx.studio

View the interactive experience at
arup.com/2020report