



# Annual Review 2018/2019

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It is humbling, if not that surprising, that the most powerful catalyst for a sudden change in the public awareness of environmental challenges has come from striking schoolchildren led by a 16-year-old Swedish girl. Clarity and authenticity: while scientists are ignored or dismissed, it is hard to deny the voice of a generation whose entire lives will be defined by our response to the twin crises of climate change and biodiversity loss.

Waves of protest will grow, as the number of people impacted by extreme weather events grows, and alarm will spread. The Eden Project is a powerful symbol of optimism, evidence that the energy and creativity of passionate people can do the seemingly impossible and convert derelict land into a place of wonder and delight. We support the protesters, and we recognise the anger that lies behind their actions, but we support them best by helping people to find answers. Our mission remains to educate, guide, provoke and inspire our

growing audience to imagine a world in which the health and happiness of mankind can be sustained for many generations to come.

We know that this can only be achieved in harmony with the natural world: we must understand the effects of the choices we make, accept responsibility for them, and believe that through our individual and collective actions we can re-engineer our lives for the better. Eden's purpose is to provide a space in which to imagine how this might be done.

In Cornwall, a feast of visual treats feeds our visitors' imaginations: jaw-dropping architecture, fabulous plants, exquisite and surprising art; day in day out a community of staff and visitors forms, opening their minds to new possibilities. And on one weekend a year, tens of thousands of communities across the United Kingdom and this year the Commonwealth, celebrate with the Big Lunch.

The Eden Project's role has never been more important. We have ambitious plans to extend our reach, with new Eden Projects in the UK and across the globe, which we hope to fulfil through the extraordinary energy and talent of our own team and through collaboration with like-minded people and organisations from all over the world.



Edward Benthall, Eden Trustee and Chairman of the Eden Trust

In a year marked by a growing public understanding and concern about the global climate emergency, the Eden Project intensified its efforts to engage visitors with science, and to share practical advice as we all try to find ways to make our own positive changes.

Our programming and investments on site reflected this. The Invisible Worlds project transformed large areas of Eden, notably the Core educational building, bringing to life some of the vital but underappreciated stories of interdependency between planetary-level systems and the tiniest life forms, for example, where the oxygen we breathe came from. As well as telling important stories like these, Invisible Worlds represented a real step change in our engagement with the arts.

Art gives us ways to reach new audiences, and to bring science and climate issues to life in new ways. With new sculptures around the site and a rolling programme of exhibitions, we

can now say that Eden is genuinely a place of art as well as science – and we’re extremely grateful to our funding partners for making that possible.

Similarly, our summer programme used the theme of Space to tell environmental stories to a quarter of a million visitors during the school holidays. We took our interplanetary travellers on a vacation to Mars – and everyone who went there with us came back with a stronger sense of why it’s essential that we all do a better job of looking after our own planet. Mars is a fascinating new world, but it’s not home!

We know that the climate emergency can only be tackled effectively if we all work as a community, pooling our efforts and caring for our fellow humans as well as the environment we share. So it was important for us to build on our biggest vehicle for rebuilding communities, The Big Lunch, and we were thrilled that our first Commonwealth Big Lunch saw people breaking bread together in 46 of the Commonwealth’s 53 countries.

And of course, it’s essential that Eden sets an example as we come together to tackle the climate emergency. During the year we launched our new regenerative sustainability strategy, with plans to become carbon positive and to use our recent acquisition of the National Wildflower Centre to bring biodiversity and carbon sequestration to the fore in development and infrastructure projects across the UK.

Thank you, as always, for your interest in and support for our work. It has never been more important.



Gordon Seabright, CEO, Eden Project.

# Highlights

The Eden Project is one of the world's great botanical gardens, a year-round destination with a vibrant series of events, activities and exhibitions for all ages. 2018/19 saw the launch of our new permanent Invisible Worlds exhibition, incorporating a public laboratory, new exhibition space and café, and an out-of-this-world summer season that took visitors to Mars, as well as numerous one-off and weekend events for both visitors to Cornwall and our local community.



# Invisible Worlds

Seven years ago, we realised that a project about microbes and one about planetary-level phenomena we were researching were actually the same project at different scales.

Invisible Worlds reimagines the Core building as a museum for our time, exposing the hidden forces, from the microscopic to the magnificent, that shape the planet and the lives (in every shape and size) upon it. Its aim is to recalibrate our understanding of the world around us, to show some of the forces (and creatures) we take for granted, and remind us that life is mostly not like us.

Invisible Worlds is a ground-breaking exhibition which uses art and design to reveal the way in which the Earth's systems, vast and minute, regulate themselves and make life on this planet possible - and how life itself has shaped the planet. It's an approach that has served us well since the early days of Eden.

We commissioned Studio Swine, Kin, and Owl 'n' Wolf to produce an installation or work of art based on a comprehensive background document that covered a range of disciplines.



**∞Blue – 3 billion  
years in the making**

Our stunning centrepiece, by Studio Swine, is called ∞Blue and recognises the debt we owe to the cyanobacteria that help makes life on Earth possible.



## The Small Invisible

There are legions of microbes in us and around us that help make life possible. Interactive design practice Kin introduce some of the most helpful (and some of the weirdest) that make our world work, from making flamingos pink to turning rock into soil.



## The Past Invisible

Life on this planet has been billions of years in the making. Owl 'n' Wolf take you on a tour of the past 4.5 billion years and see how our planet has gone from lifeless rock to snowball before becoming the safe haven it is today – for now.



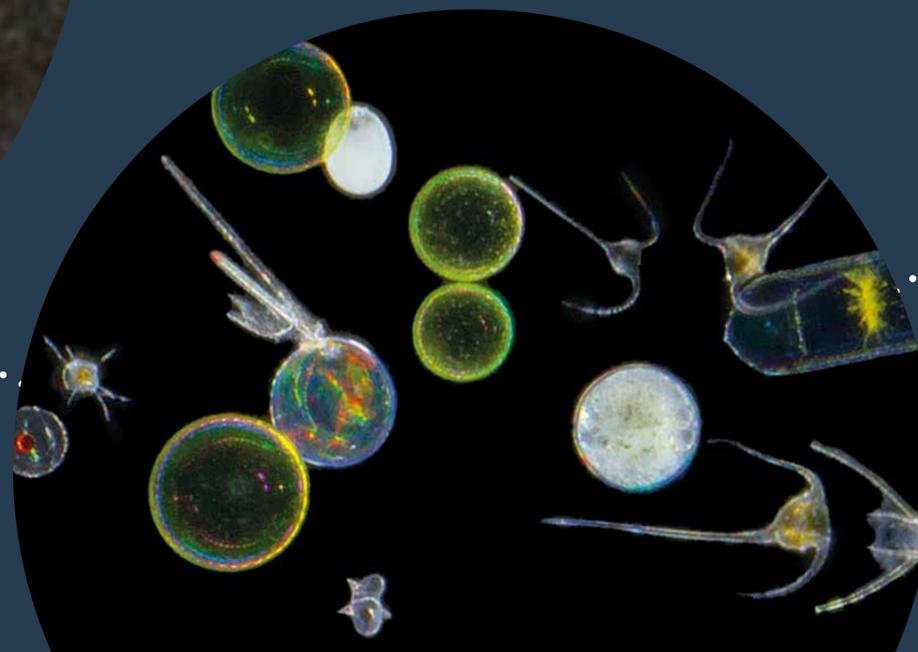
## The Vast Invisible – You in the bigger picture

The Earth is a self-contained, self-regulating system. Very little leaves aside from the occasional space rocket, and aside from sunlight, only the occasional meteorite enters. We already have everything we need to survive on this planet. Nothing is wasted and everything is reused and recycled. We're a part of this system. This piece, also by Kin, took up the challenge of showing how we fit into the bigger picture.



## Invisible Worlds - invisible environments

One of the first things we realised was that we wouldn't be able to fit everything we wanted to show in a single building, so we decided to create a series of exhibits which explore the different invisible worlds around us. Air, soil, rock, water (oceanic and otherwise), each has a dedicated exhibit out in the Outdoor Gardens.



## Expedition Space

This summer saw Eden return to space, zeroing in on Mars this time. As before, the underlying message was that Earth is our natural home, that fascinating as other planets are, they're no match for one with a built-in life-support system.



# Other highlights...

5x  
15

## 15 minutes to save the world

The Eden Sessions tends to bring a different crowd to Eden and with it the chance to influence. No more so on the second night of the Massive Attack Eden Sessions which featured the 5x15 event organised by the photographer Giles Duley: five speakers given fifteen minutes on their chosen subject. The speakers were Lucy Siegle on ocean plastic, Hassan Akkad on Syria, Nimco Ali on ending FGM, Sir Tim on healing the soil and Giles himself on the legacy of war. Giles's photography was also part of Massive Attack's visuals, part of an ongoing collaboration with the band's Robert Del Naja.





## Olive Trees in the Med

Last spring, three ancient olive trees hailing from the Iberian Peninsula took up residence at Eden. Aged between 600–1,500 years old, these venerable trees were removed to make way for new plantings in Portugal and Spain and now overlook the Med Terrace restaurant. When the eldest was just a sapling, around 500AD, King Arthur allegedly defeated the Saxons, Buddhism was introduced to central China, and the Visigoths ruled the Iberian Peninsula.

## Pages of the Sea

The Eden Project was one of several organisations asked to help coordinate an epic memorial on Armistice Day.



## New Coastal exhibit

Summer 2018 brought a new exhibit to the Mediterranean Biome that highlights the plastic pollution in the Mediterranean Sea by showing it as it should be – pristine. It also features the DuraOcean garden chair made from recycled fishing nets.



## Orchid pergola

In summer 2018, the bamboo house was temporarily transformed into the Orchid Pergola, celebrating a plant that once inspired a mania similar to that which surrounded the tulip. Constructed by reusing some of the bamboo, the first display featured Phalaenopsis, which mainly hail from South East Asia, supplemented by a stunning collection of Costa Rican orchids for our Orchidelirium festival in spring 2019, sponsored by the Costa Rican tourist board.



# Art at Eden

‘The tension at the heart of Eden comes from daring to give artists a voice, yet harnessing their work to our agenda,’ wrote Sir Tim in 2001. That tension has produced some memorable pieces of art over the years, but this year saw Eden enter a new phase with an award of £350,000 from the Arts Council to help transform us into an international hub for the arts in Mid and East Cornwall. As well as ∞ *Blue*, the centrepiece of Invisible Worlds, the first fruits of Eden’s renaissance as an arts venue include:

## Crowd 4.

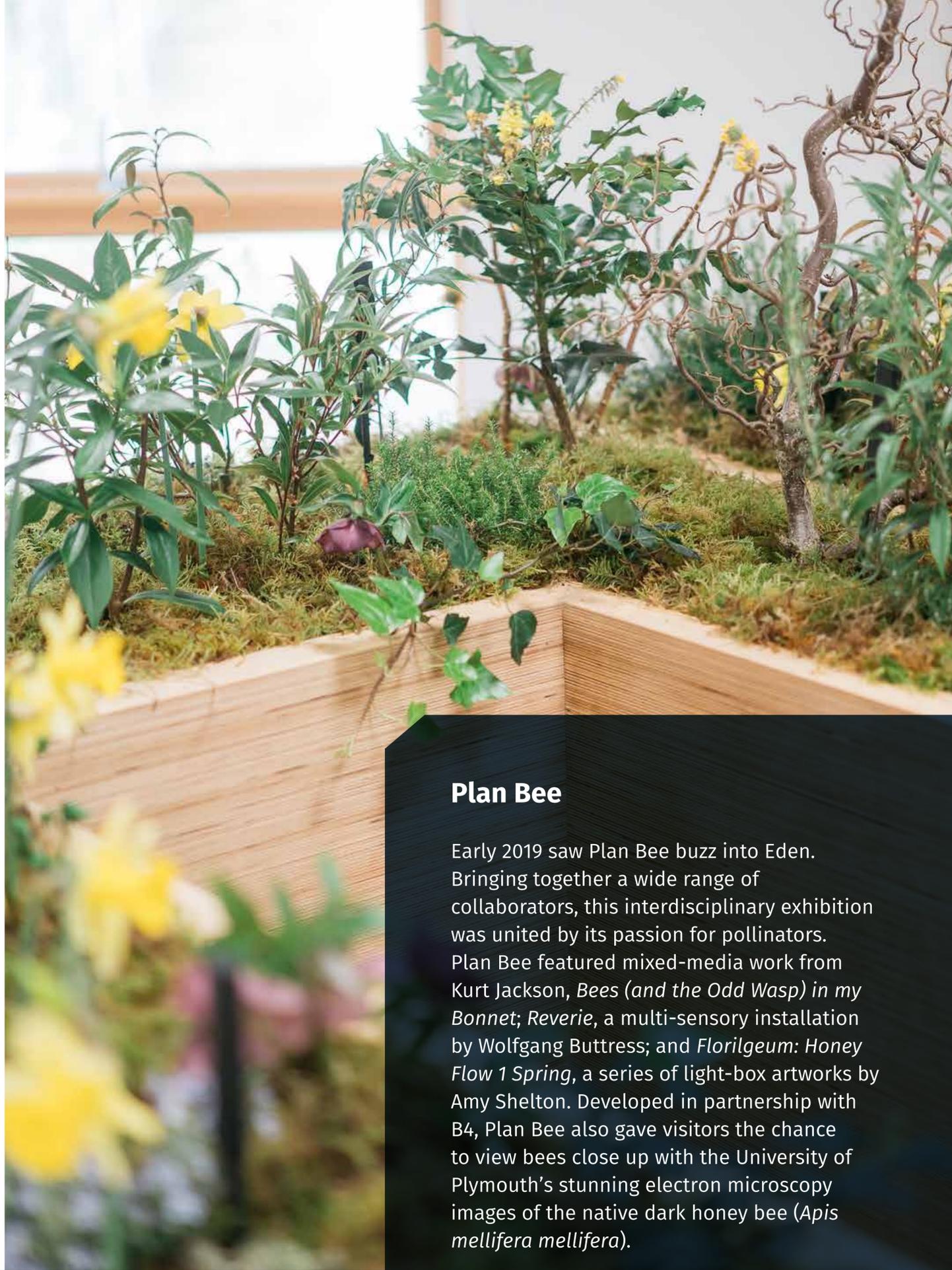
January saw the unveiling of a new installation by Julian Opie in the Outdoor Gardens. The piece, entitled *Crowd 4.*, is a four-metre-tall monolith sculpture with an animation played on a double-sided LED screen. The film features a number of people crossing the screen, creating a monument of a crowd.



## Glass Microbiology

Luke Jerram's *Glass Microbiology* was one of the first shows to grace our new exhibition space in the Core. Featuring exquisite pieces of blown glass, *Glass Microbiology* captures the overlooked beauty of some of the world's deadliest viruses.





## Plan Bee

Early 2019 saw Plan Bee buzz into Eden. Bringing together a wide range of collaborators, this interdisciplinary exhibition was united by its passion for pollinators. Plan Bee featured mixed-media work from Kurt Jackson, *Bees (and the Odd Wasp) in my Bonnet*; *Reverie*, a multi-sensory installation by Wolfgang Buttress; and *Florilgeum: Honey Flow 1 Spring*, a series of light-box artworks by Amy Shelton. Developed in partnership with B4, Plan Bee also gave visitors the chance to view bees close up with the University of Plymouth's stunning electron microscopy images of the native dark honey bee (*Apis mellifera mellifera*).

# Transformational programmes and learning projects

Eden is more than a visitor destination – we run projects and programmes that aim to transform places and lives. For the first time in its history, our species understands the impact it is having on the planet through climate change, pollution, and the destruction of habitats and species. Now is the time to step up and start to shape a better future for the whole planet. Our projects and learning programmes aim to stimulate, educate and empower across the generations, working locally and nationally with partners, governments and people like you.



# Education

Education is at the heart of what we do. We offer learning opportunities from preschool to degree level and beyond to connect people of all ages with the natural world and better understand their place within it. We provide leadership programmes for businesses and community training for people who want to roll up their sleeves and make a difference here and now.

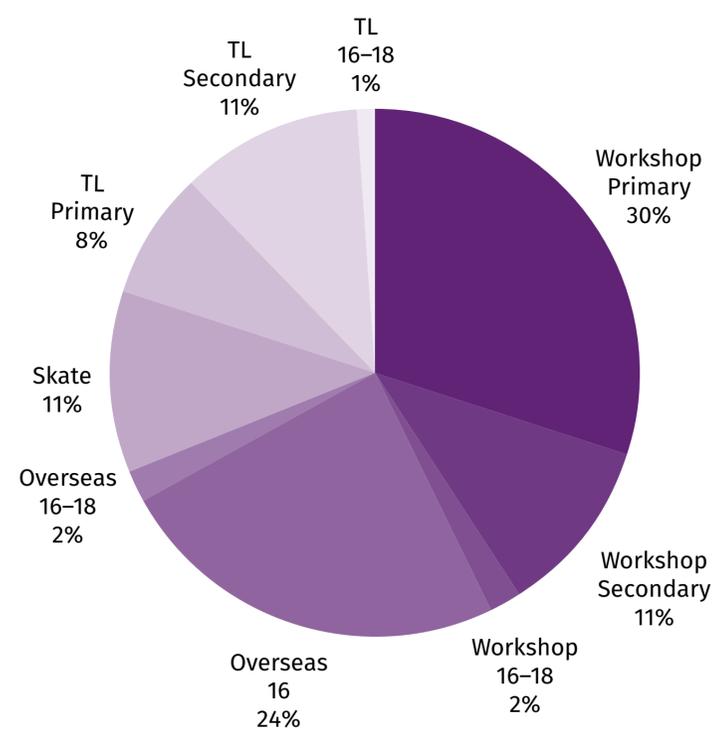


## Schools

This year saw growth in Eden's schools workshops and residential courses culminating in our busiest summer ever. A new roundhouse was built with the help of volunteers at Little Carne Farm, allowing us to offer more forest school activities to schools, including Wild Wednesdays, a new kids' holiday club, as well as continuing professional development (CPD) courses for early years teachers and childminders on outdoor learning. It's also where we hold our Little Eden and Deep Roots New Shoots sessions.

Off site, our team worked with Eden Project Learning students on improving St Columb Major School's grounds and outdoor spaces, and we reached new audiences through the Game Changer careers programme for young people aged 15-24 who aren't currently in education or employment.

Schools trips to Eden including teacher-led (TL) visits



## Eden Project Learning

Eden Project Learning offers a specialist portfolio of HE courses in partnership with Cornwall College and the University of Plymouth. In the academic year 2018/19 (which overlaps with this reporting period) Eden Project Learning had 110 students enrolled on courses including horticulture, event management and teacher training.

Students by subject:

|                  |            |
|------------------|------------|
| Horticulture     | 88         |
| Event Management | 13         |
| Teacher Training | 9          |
| <b>Total</b>     | <b>110</b> |

‘The overall grades of learners at Eden reflect the highest standards of teaching & learning and should be used as an exemplar to other centres.’

Feedback from External Horticulture Examiner



## Apprenticeships

Eden's award-winning Apprenticeship programme has been running since 2014. The programme is run in partnership with Cornwall College and Truro and Penwith College and offers horticulture, events management and commis chef apprenticeships. In addition, Eden offers apprenticeships in HR, finance, graphic design, media/PR, as well as trades-based apprenticeships in carpentry, vehicle maintenance and electrics.

|              |           |
|--------------|-----------|
| Events       | 3         |
| Horticulture | 7         |
| Chef         | 3         |
| Estates      | 1         |
| Finance      | 1         |
| HR           | 1         |
| <b>Total</b> | <b>16</b> |



## Hothouse

Hothouse is Eden's personal development and organisational training programmes in leadership, creativity and sustainability, used by companies including Pukka Teas, Lush, Ella's Kitchen and Riverford Organic Farms.

In autumn 2018, we ran our first women-only Nature of Leadership programme, 'Evoking the Power of Women'. It wasn't a political statement – we'd run a few women-only programmes by accident and discovered that different conversations could happen, and did happen more often, in women-only spaces.

'Do I feel a better Leader?  
Absolutely, a leader of my own life, a leader to my family, and a leader to the people I work with.'

'It's made me a better leader.  
I am re-evaluating my life and going to follow my passion.'

Feedback from Evoking the Power of Women programme participants.



# Eden Project Communities

Eden is a testament to the power of ordinary people working together. The range and scale of the environmental challenges the world faces today is intimidating, but it is our belief that strong communities have an important part to play in overcoming them.

At Eden, community means using our site to support local people of all ages to get out in nature, and working nationally and internationally to bring people together through campaigns like the Big Lunch. We also use our experience and site to support other campaigns and charitable causes like Sleep Out.



## The Big Lunch

Supported by the National Lottery, our flagship programme the Big Lunch went global last year, inviting communities across the 53 countries that make up the Commonwealth to sit down and share a meal. The Big Lunch continues to go from strength to strength here in the UK too, with millions of people making friendships and making a difference to the places they live. [edenproject.com/big-lunch](https://edenproject.com/big-lunch)



## Impact

21% of Big Lunches included a fundraiser; together they raised almost 8 million pounds for good causes.

98% of organisers think more communities should do a Big Lunch.

77% of participants agree or strongly agree that the Big Lunch got neighbours talking to each other.

80% of participants met someone new they would like to stay in touch with.

78% of participants say The Big Lunch created a stronger sense of community spirit.

80% of participants think it helped some people feel less lonely.



## Attendance

On average, more than 6 million people take part each year

## Demographics

Big Lunch is attended by people from all walks of life and the highest percentage of organiser support packs is requested from the most deprived quintile of UK neighbourhoods

## Reasons for attending

The top reason for going to the Big Lunch is simply 'because it is fun'.

1.2 million people went to the Big Lunch because they wanted to feel less lonely.

## Future attendance

86% of the 2018 participants say they are likely or very likely to get involved in organising a Big Lunch in the future.

## Development Projects

Our development projects explore new approaches and reach new audiences to connect them with each other and the living world.

### Deep Roots, New Shoots

Grandparents are society's unsung heroes; With more parents working part- or full-time, grandparents are increasingly filling the childcare gap. Using the Eden site and its wider estate, Deep Roots, New Shoots offers high-quality learning experiences for grandparent carers and their grandchildren in our gardens and Biomes, our lab and at our forest school, Little Eden.

We held a total of 168 term-time sessions, attended by 4,003 grandparents and grandchildren.

In addition, our holiday engagements were used by a further 6,752 participants.

We ran five six-week courses at Little Eden for Grandparents and Grandchildren (30 sessions) with 116 participants.



## Nature's Way

Our social prescribing pilot programme, Nature's Way, is designed to get people with health conditions ranging from diabetes to depression to get out and exercise in nature, offering walking groups, therapeutic horticulture and a weekly lunch club for isolated over-65s. The results are looking promising and we hope to roll it out beyond Eden soon.

20 Lunch Club members.

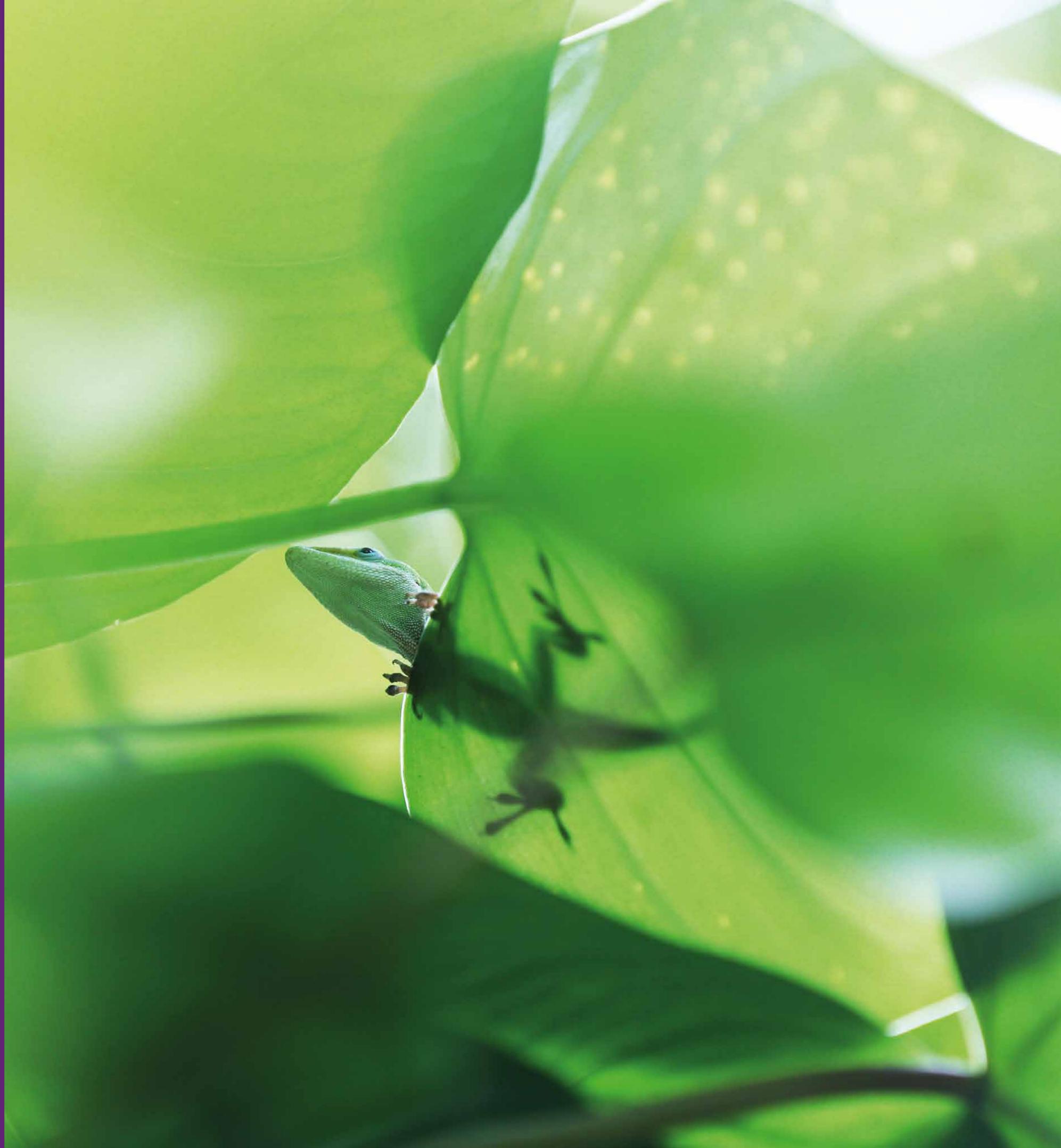
12 therapeutic horticulture.

50–80 walkers a week across Cardiac, Diabetes and COPD walking groups.



## Ecology

Twenty years ago, Eden was a sterile pit; today it is literally full of life. Conservation is important, but it's not enough. We need to regenerate lost landscapes and make them sustainable through a combination of creative, social and economic approaches. Working with partners both from across the world and from up the road, our projects use cutting-edge science to conserve and regenerate endangered landscapes. Here at Eden, we use our Lab to engage the public using residencies.



## National Wildflower Centre

This year saw new wildflower plantings at Eden as we sowed verges and fields around our estate to celebrate the re-establishment of the National Wildflower Centre as part of the Eden Project. Further fields will be turned over to wildflower cultivation, providing a blaze of colour and seed stock for some of the NWC's projects. The NWC's move to Eden was generously funded by the Esmée Fairbairn Foundation.



## BGCI Conservation Practitioner Accreditation

In 2018, Eden joined a handful of organisations to receive a prestigious plant conservation accreditation from Botanic Gardens Conservation International (BGCI). The award recognises Eden's excellence in plant conservation and education.

## FabSoil

Soil is the unsung, trodden-down hero of human civilisation.

It took 83,000 tonnes of fabricated soil to transform this barren kaolin mine into the Eden Project. Today, Eden is building on that living legacy as part of the FabSoil project.

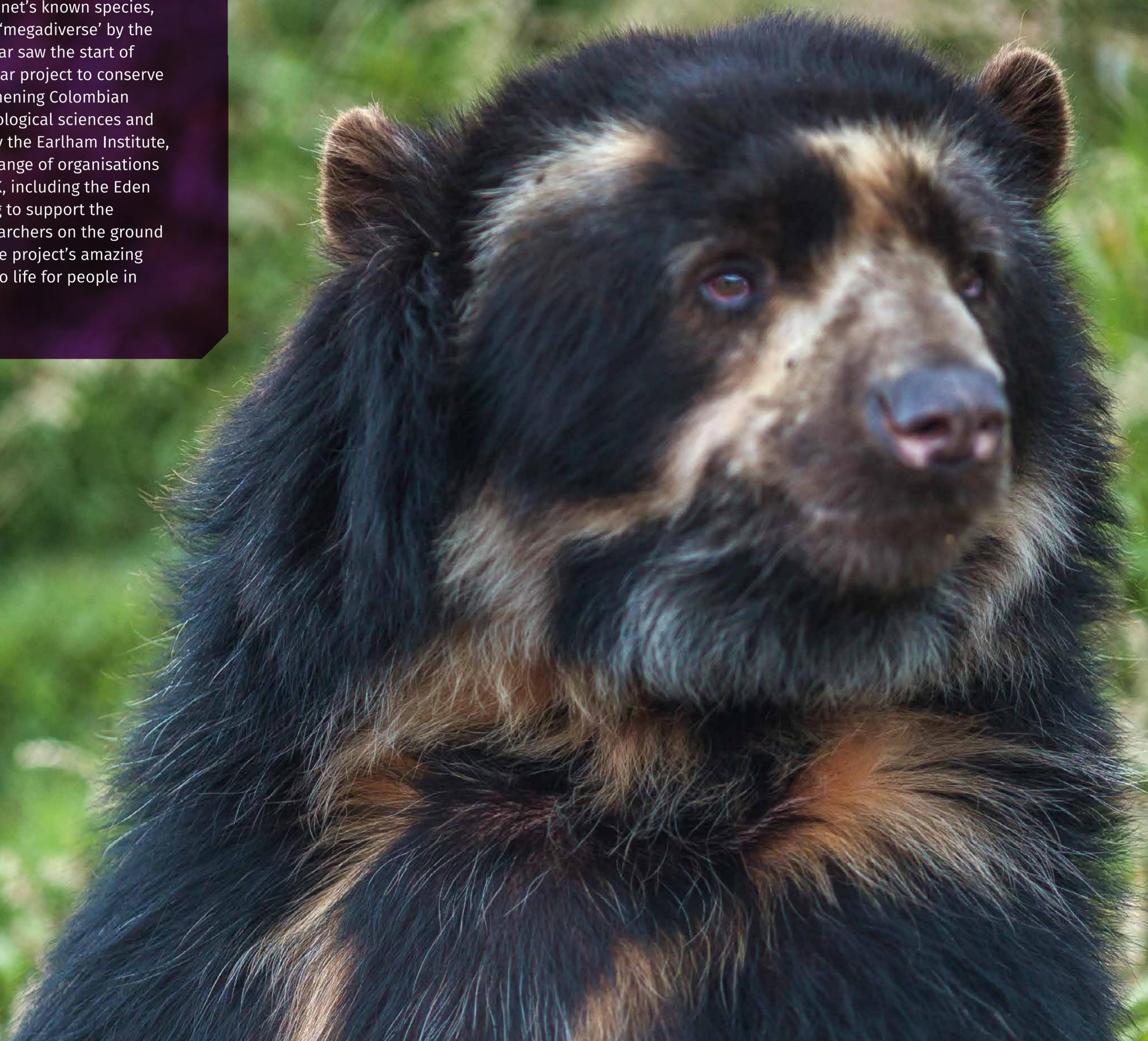
Funded by Agritech Cornwall, FabSoil is a collaboration between the Eden Project and the University of Plymouth that aims to make artificial soil from recycled and waste materials. The challenge is to ensure a mix that is both stable and fertile, capable of maintaining a reservoir of slow-release nutrients and minimizing the need for fertiliser. Created to order, its applications include landscape restoration and high-value crop production.

## The Metamakers

A computational creativity collective from Falmouth University created a digital game in partnership with Eden Project. The aim of this project is to increase awareness of plants and natural history. In February 2019 half-term the game was tested on thousands of visitors to the Invisible Worlds Lab at Eden. It's now available to everyone on both iOS and Android platforms.

## GROW Colombia

Home to 10% of the planet's known species, Colombia is classed as 'megadiverse' by the United Nations. This year saw the start of GROW Colombia, a 4-year project to conserve biodiversity by strengthening Colombian research capacity in biological sciences and socioeconomics. Led by the Earlham Institute, the project involves a range of organisations in Colombia and the UK, including the Eden Project. Eden is helping to support the organisations and researchers on the ground in Colombia to bring the project's amazing stories of biodiversity to life for people in Colombia and the UK.



# Regenerative Sustainability

Sustainability is at the heart of what the Eden Project is all about and is a major part of the message it hopes to convey. At Eden, sustainability means regenerative sustainability; how we can generate more environmental, social and economic good. Not just minimising harm, but making things better: whether it is transforming a worked-out quarry into a global garden, creating jobs in an area of economic deprivation, or improving the wellbeing of individuals by providing opportunities for them to connect with nature.

## Cutting single-use plastic

We continued to make significant progress in cutting down our usage of single-use plastics in 2018/19. Already part of the Clean Cornwall group of organisations committed to tackling litter and protecting the landscape of Cornwall and beyond, we recognise that this isn't something that will be solved by any one individual or organisation. Along with London Zoo, the National Trust and the Natural History Museum we are phasing out our single-use plastics on site. Deciding to phase them out was an easy commitment to make – everyone at Eden recognises the damage that single-use plastics cause if not disposed of properly – but deciding how we implemented this policy was the hard part.

We already encourage our visitors to use refillable bottles but this year we increased the number of drinking water taps across the site. For those who forget to bring a bottle we offer water in glass bottles or aluminium cans – which are infinitely recyclable – and also sell reusable bioplastic bottles in our shops. Our sandwiches are no longer wrapped in plastic and we've switched our kids' pick-and-mix lunch packaging to compostable paper products and replaced the plastic juice bottles with glass ones. Like other major festivals, we've also stopped using plastic straws and switched to reusable cups at the Eden Sessions.



## Renault EVs

Eden took delivery of a new fleet of 100% electric vehicles as part of its long-running partnership with Renault. Three new Renault ZOE hatchbacks and 14 Renault Kangoo vans joined our existing TWIZYs. Over the past two years alone the previous Renault fleet of electric vehicles travelled 94,000 miles around Eden. Eden has a green tariff through its partnership with Good Energy which coupled with the EVs' zero tailpipe emissions means that the Renault fleet has prevented 17 tonnes of CO<sub>2</sub> from being released.

It's not just about the cars' environmental impact either – Renault is the Official Car Partner at Eden, and often plays a role in our year-round entertainment and events programme, creating a Renault Moon Buggy driving test for Expedition Space this summer and more recently flying rainbow colours in support of our annual Proud Eden event, showcasing LGBT art and music.



## Eden's first Regenerative Sustainability Strategy

Launched in early 2019 this five-year plan steers our sustainability ambitions across five areas:

### **Climate Change, Energy and Innovation**

Eden already sources all of its electricity from renewable sources, and by 2023 Eden will be carbon positive with a site that generates renewable energy and exports excess electricity and heat. Eden will adapt to climatic changes, be ready for extreme weather and develop projects that practise energy innovation.

### **Resource Use: Circular, Fair & Responsible Economy, Water & Ocean Health**

Over the next five years, Eden will have actively contributed to the system changes required to move our economy from its current linear path to a circular one. Aiming for zero avoidable waste, we will take a circular approach to our resource use. We will support the local economy and work with our suppliers to improve our joint impact on the world and promote products that have a positive purpose.

### **Biodiversity, Food Security & Research**

Eden will continue to develop as a horticultural destination to explore the relationship between people, plants and the living world. We will collaborate with partners to implement activities that enhance natural systems, biodiversity and ecosystem services and increase food security.



### **Community, Human Health & Equal Rights**

Eden will continue to foster an inclusive and connected Eden team (staff and volunteers), and support local community and regional communities. Recognising the interconnections and the innate potential of each individual we will increase their abilities to the benefit of all. We will support community cohesion by reaching 20 million participants in the Big Lunch and 480 participants in Community Camps.

### **Interpretation, Education, the Arts & Outreach**

We will continue to use our unique approach to education, the arts, music and events that attract visitors to Eden (physically and virtually), as well as extend the reach of Eden's mission beyond the Biomes. We will explore and enhance Eden's ability to portray our dependence on the natural world and how regenerative transformation can help us realise a positive future.

The implementation of the strategy is now underway.

### **ExeMPLar**

Launched at Eden in March 2019, Exeter University's research hub ExeMPLar – aimed at better understanding the flow of plastics in the South West and finding suitable substitutes where possible. Eden is one of the participating organisations. <https://exemplar.net.org.uk/>

## Energy & Carbon reporting for 2018-19

With an overall carbon footprint of 2,638 tonnes CO<sub>2</sub>e, we are pleased to report a reduction in carbon emissions by 30% compared to our baseline year (2012/13) and a 3% reduction compared to last financial year. Of the total carbon emissions, the vast majority relates to the energy we use to heat and power our Biomes and buildings, followed by the fuel needed to run our fleet of vehicles (apart from the 28 electric Renaults) and emissions related to business travel. We are working on improving the way we account for business travel. In the meantime, we are accounting for only the trips booked through our travel partner Key Travel. During 2018/19 we had a leak in our ice-rink chiller which meant we had to refill one of the gases, and this has meant a higher than usual figure for refrigerants. We continue to compost 100% of our food waste and landfill figures continue to drop. Next financial year will see Energy Savings Opportunity Scheme (ESOS) phase 2 completed and the appointment of a new Energy manager.

The carbon emissions calculation for 2018/19 are based on Defra 2018 greenhouse gas conversion factors.

Well-to-tank emissions have been omitted for 2018/19 reporting in line with The Planet Mark's Code of Practice.

The summer of 2018 was extremely dry and we had to irrigate the site much more than usual, hence high water figures.

|                                       |                                      | 2018/2019   |                       | 2017/2018      |                       | 2012/2013      |                       |
|---------------------------------------|--------------------------------------|-------------|-----------------------|----------------|-----------------------|----------------|-----------------------|
|                                       | Source                               | Units       | CO <sub>2</sub> e (t) | Units          | CO <sub>2</sub> e (t) | Units          | CO <sub>2</sub> e (t) |
| Energy                                | Electricity (kWh)                    | 4,243,918.0 | 1201.3                | 4,233,013.0    | 1,488.2               | 4,764,421.0    | 2,191.7               |
|                                       | Gas (kWh)                            | 5,766,439.0 | 1060.8                | 4,887,536.0    | 900.1                 | 5,671,168.0    | 1,050.4               |
|                                       | Liquid Petroleum Gas (l) (building)  | 107,169.4   | 23.0                  | 128,604.0      | 27.6                  | 128,053.0      | 196.3                 |
|                                       | Oil (l)                              | 0           | 0                     | 0              | 0                     | 991.0          | 2.5                   |
|                                       | Bottled Gas (building) (l)           | 6,504.0     | 1.4                   | 2,720.0        | 4.1                   | 1,923.0        | 3.0                   |
|                                       | Renewable generation (kWh)           | 63,256.0    | 0                     | 20,190.6       | 0                     | 68,924.0       | 0.0                   |
|                                       | <b>Total</b>                         |             |                       | <b>2,286.5</b> |                       | <b>2,420.0</b> |                       |
| Fuel                                  | Diesel (l)                           | 7,624.7     | 20.0                  | 6,805.9        | 17.7                  | 38,834.4       | 100.3                 |
|                                       | Gas oil (red diesel) (l)             | 23,636.0    | 70.2                  | 24,285.9       | 71.7                  | 0              | 0                     |
|                                       | Petrol (l)                           | 9,175.9     | 20.2                  | 5,498.7        | 12.1                  | 9,171.4        | 20.1                  |
|                                       | LPG (l)                              | 5,876.9     | 8.9                   | 7,427.0        | 11.2                  | 18,719.0       | 28.2                  |
|                                       | <b>Total</b>                         |             |                       | <b>119.4</b>   |                       | <b>112.7</b>   |                       |
| Refrigerants & catering gases         | R134a (kg)                           | 4.5         | 6.4                   | 6.88           | 9.8                   | 4.1            | 5.3                   |
|                                       | R404a (kg)                           | 13.3        | 52.3                  | 2.27           | 8.9                   | 3.8            | 12.4                  |
|                                       | R417a(kg)                            | 0           | 0                     | 10.0           | 23.5                  | 0              | 0                     |
|                                       | CO2 (l)                              | 275.4       | 0.3                   | 335.3          | 0.3                   | 0              | 0                     |
|                                       | R410a (kg)                           | 1.8         | 3.8                   | 0              | 0.0                   | 0              | 0                     |
|                                       | R452a (kg)                           | 0           | 0                     | 0.2            | 0.4                   | 0              | 0                     |
|                                       | CO2 (kg)                             | 275.4       | 0.3                   | 335.3          | 0.3                   | 0              | 0                     |
| <b>Total</b>                          |                                      |             | <b>63.0</b>           |                | <b>43.3</b>           |                | <b>17.7</b>           |
| Business travel                       | Rail (km)                            | 30,209.0    | 1.3                   | 30,209.0       | 1.3                   | 30,209.0       | 1.3                   |
|                                       | Car (km)                             | 218,856.3   | 40.1                  | 131,136.0      | 23.5                  | 218,812.5      | 41.4                  |
|                                       | Domestic flights (passenger km)      | 8,119.0     | 1.3                   | 92,964.0       | 24.9                  | 84,804.5       | 24.9                  |
|                                       | Short-haul flights (passenger km)    | 3,032.0     | 0.3                   | 20,108.2       | 3.2                   | 10,851.5       | 1.8                   |
|                                       | Long-haul flights (passenger km)     | 373,655.0   | 42.0                  | 384,343.1      | 75.9                  | 177,655.0      | 37.3                  |
|                                       | International flights (passenger km) | 79,421.0    | 7.7                   | 91,268.5       | 16.5                  | 0              | 0                     |
|                                       | <b>Total</b>                         |             |                       | <b>92.6</b>    |                       | <b>143.9</b>   |                       |
| Water                                 | Mains water supply (m3)              | 19,985.0    | 6.9                   | 18,209.0       | 6.3                   | 13,393.0       | 4.6                   |
|                                       | Water treatment (m3)                 | 26,515.0    | 18.8                  | 24,948.0       | 17.7                  | 25,127.0       | 17.8                  |
|                                       | Rain & Ground water usage (m3)       | 64,605.7    | 0                     | 6,739.0        | 0                     | 11,734.0       | 0                     |
|                                       | <b>Total</b>                         |             |                       | <b>25.6</b>    |                       | <b>23.9</b>    |                       |
| Waste                                 | Food - anaerobic digestion (tonnes)  | 57.9        | 1.2                   | 50.3           | 1.1                   | 5.7            | 0.0                   |
|                                       | Food - Compost (tonnes)              | 32.6        | 0.3                   | 35.8           | 0.2                   |                |                       |
|                                       | Recycled (tonnes)                    | 246.5       | 5.3                   | 227.0          | 4.9                   | 206.4          | 4.5                   |
|                                       | Energy recovery (tonnes)             | 118.8       | 2.5                   | 93.4           | 2.0                   | 0.0            | 0.0                   |
|                                       | Clinical & Haz waste (tonnes)        | 6           | 0.1                   | 6.4            | 0.1                   | 10.1           | 4.0                   |
|                                       | Landfill (tonnes)                    | 26.3        | 2.6                   | 36.8           | 7.3                   | 161.1          | 45.1                  |
|                                       | <b>Total</b>                         |             |                       | <b>12.1</b>    |                       | <b>15.7</b>    |                       |
| <b>Total (tonnes CO<sub>2</sub>e)</b> |                                      |             | <b>2,599.4</b>        |                | <b>2,759.5</b>        |                | <b>3,747.8</b>        |

Compared to last year: **6%↓** Compared to baseline year: **31%↓**

# Eden Project International

Eden Project International Ltd. was formed in 2016 and officially launched as a separate company under the Eden Trust in 2017. It aims to deliver social and ecological benefits, at a time of environmental decline and social disruption, by working in partnership with like-minded organisations around the world on the development of Eden Project visitor attractions and selected wild-site projects. These new Edens will focus on the global challenges that face specific localities, such as soil, water, food and biodiversity. Eden Project International is currently working on projects in China, Australia, Dubai and elsewhere in the UK. A new team has been formed at Eden to take these ideas forward.



## Eden Project North

Eden Project North is a unique and ambitious project that seeks to reimagine the seaside resort for the twenty-first century. The project has far-reaching environmental, social and economic ambitions, but above all it will be a day out that inspires a sense of wonder and connection with the natural world. Eden Project North's focus on themes of fostering health and well-being, both of humankind and the natural environment on which we rely. The Eden team is working closely with its regional partners and local people to ensure this venue truly embodies the place that has inspired it. The planning and land acquisition processes are progressing well.



## Foyle River

Eden has been working with the Foyle River Gardens Trust, a local partnership in Derry~Londonderry, to explore ways of rejuvenating the historic riverside from Foyle Bridge towards Culmore Point. Eden Project Foyle will link the historic local estates of Boom Hall and Brook Hall, transforming them into a new cultural destination which will create jobs and help drive social, economic and environmental regeneration for the community. The project will open up 250 acres of previously inaccessible land to the public, providing recreational space, entertainment and learning.

## Eden Project Qingdao

Due to open in 2023, Eden Qingdao will focus on one of the great global issues of our time – water – telling the stories of its abundance, scarcity, and quality in a unique, Eden way with a Chinese and global audience in mind. It will deliver the best water gardens in the world, an innovative, interactive, entertaining and expandable destination and programmes of activity that fuse international expertise with local talent.

Eden Qingdao is set on a prime location in the city, a large area of reclaimed and environmentally damaged land, originally used for salt production and then prawn breeding. Eden are working with Grimshaw architects on the project design.



## Eden Project Portland

We were approached to help imagine a subterranean Eden on the Jurassic Coast in a historic setting that discusses and highlights the loss of biodiversity and the sixth mass extinction.

Eden Portland could be a major educational visitor attraction and cultural hub; a theatre creating a visceral, multi-sensory and interactive journey that reconnects people with the wonder of all life, underpinned by science and inspired by creative artists, designers and thought leaders. It would bring social and economic regeneration to the area alongside catalysing action and fostering a better understanding of the global crisis of biodiversity loss. If funding is secured, further community engagement and discussions with the local authority would follow.

## Dubai

We have been working with architects Grimshaw to give creative direction to the Expo 2020 Sustainability Pavilion. The pavilion is one of three at Expo 2020 and presents the opportunity to deliver an aspirational message about the natural world, ecology and sustainability to a global audience, with an expected 25 million visitors.

# Financial Reporting



It has been another good year for the Eden Project. We made a cash surplus from trading of more than £1.7 million in the last financial year. Turnover and visitor numbers decreased in this financial year primarily due to the sustained period of warm dry weather between May and August; however, we welcomed our 20 millionth visitor since Eden opened.

The year again saw Eden continuing to make big investments in its staff and on improvements to the site, most notably the opening of the Invisible Worlds permanent Exhibition, the creation of a new orchid display in the Rainforest Biome and the installation of three ancient olive trees in the Mediterranean Biome.

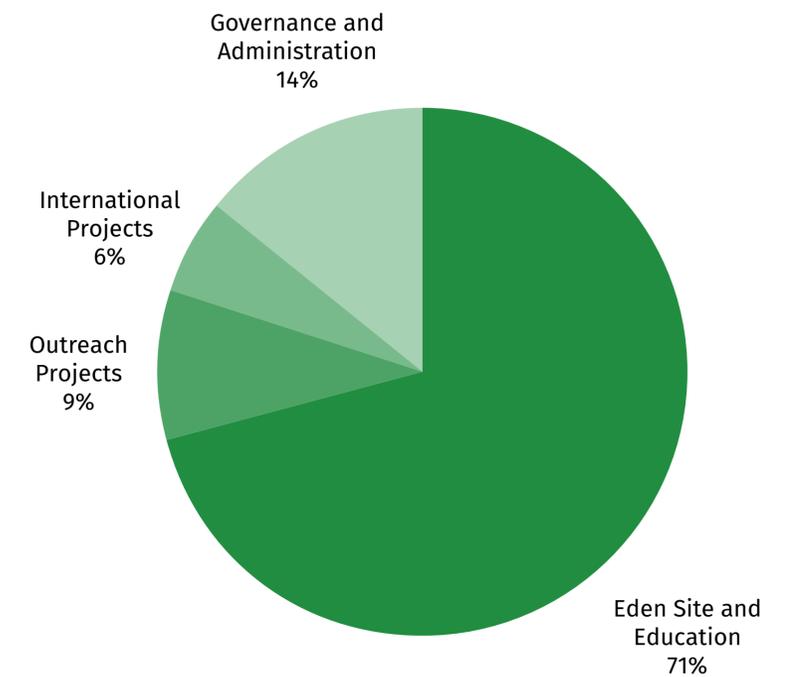
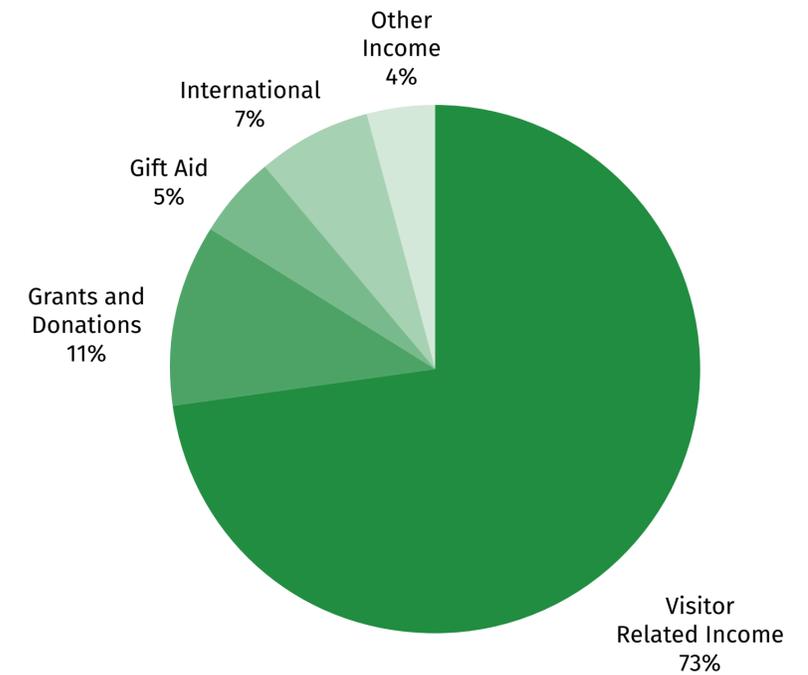
Annual accounts for Eden Project Ltd 2018/19 show that the trading cash surplus of £1,639,000 was down on the previous year's

figure of £2,087,000. However, it is the sixth successive year that Eden has recorded a significant surplus.

The company's payroll costs have again increased as it has again met and exceeded the National Living Wage requirements. Legacy debt was further reduced by £1m and the remaining £1.38m minibond was redeemed shortly after year-end.

Any surplus generated from the visitor destination and related income streams is used to support maintenance and investment on our site, in our educational programmes and repaying debts.

The surplus is not sufficient to cover all of Eden's costs, and like many charities we seek the support of charitable trusts, grants and donations to deliver new projects.



| Eden Project Group Accounts  | Mar-19 Group Actual YTD £000s | Mar-18 Group Actual YTD £000s |
|--|-------------------------------|-------------------------------|
| Group Earnings before interest (Reduction)/Increase in net current liabilities | 1,742<br>(217)                | 2,358<br>57                   |
| Net Cash Inflow from Core Activities   | 1,525                         | 2,415                         |
| Net Interest Paid  | (300)                         | (348)                         |
| Net Investment in Fixed assets   | (1,355)                       | (611)                         |
| Loan and Lease Advances  | 4,740                         | 30                            |
| Loan and Lease Repayments  | (3,704)                       | (864)                         |
| Net Cash (Outflow)/Inflow  | 906                           | 622                           |

# Future Plans

Eden is always evolving. In this section you'll find selection of our plans for the year ahead (2019/20) some of which have been years in the making and others that are reacting to current challenges.





## Eden Geothermal

For the past ten years, we've been exploring the idea of building a geothermal power plant at Eden. If successful, the project will have two phases. The first involves drilling a hole the diameter of a medium-sized pizza 4.5km into the granite, casing it with a steel lining and then inserting an insulated pipe down to 3km. Cold water is then injected down between the lining and the pipe. The water is heated via conduction on its way down before returning up inside the pipe as steam at 100°C. This phase will provide heat for our Biomes, offices, kitchens and the new glasshouses we have planned. District heating systems like this are the commonest form of geothermal power – at present, there aren't any geothermal power plants generating electricity in the UK. We have sought EU funding for this first phase. If the first phase is successful, a further round of funding will be required to drill another well. The two wells will allow us to use the natural fractures in the rock as a heat exchanger, pumping cold water in and drawing water out at 180°C as superheated water that drives a turbine. The second phase will provide not only heat but also enough electricity to power the whole of Eden plus a further 5–7,000 houses.

## Earth Story

Having explored the outer limits of our solar system over the previous two years, the 2019 summer season will be closer to home, with Earth Story, a tour of the world's wonders that have been lost, are at risk, or have been brought back from the brink. The challenge will be to show the real challenges we all face without losing hope, so the Make the Change campaign will be a key part of the season's messaging. Its aim will be to show the difference that we can all make together and showing real examples of success. We expect the campaign to outlive the summer season and it will feature online and in Eden publications like the Eden Magazine.



## Make the change

Thanks to the efforts of Extinction Rebellion, Greta Thunberg and the school strike, the climate crisis is visible as never before. With twelve years left to prevent runaway climate change there's no question it's time to act. However, there are different ways of winning hearts and minds to the cause. For over a decade, we've engaged the widest possible audience and inspire people with the possibilities, not just the challenges ahead; next year we're making it the theme of our summer programme.

## Korea Garden

Work on our new Korea Garden is underway and it is due to be completed in spring/summer 2020. The garden draws its inspiration from the Demilitarised Zone (DMZ) between North and South Korea and will also tell the story of South Korea's amazing reforestation programme. The new exhibit is being created with the help of the Korean National Arboretum and DMZ Botanic Garden.

A preliminary trip to South Korea was made possible by the generous support of the Cornwall Garden Society and the Royal Horticultural Society.

## The Eden Magazine

The Eden Magazine is printed on FSC paper using vegetable inks, but we're keen to reduce our impact further. As of this year, we stopped using plastic wrap, and switched to envelopes instead (our research suggests that biodegradable plastic isn't the way forward). Next year, we will launch a new digital version via dedicated iOS and Android apps that support additional media, with the aim of reducing our paper consumption over time.

# Trustees and Directors

## The Eden Trust

Edward Benthall, Chairman of the Eden Trust  
Jonathan Drori  
Penny Parker  
Richard Reid  
Sir Ferrers Vyvyan  
Geoffrey Austin  
Professor Adam Beaumont  
Kevin Havelock  
Dame Georgina Mace

## The Eden Project Limited board

Eden Project Limited is managed by a Board of Executive and Non-executive Directors.

### Non-executive chair

Judith Donovan CBE

### Directors

Sir Tim Smit KBE, Executive Vice Chair of EPL  
Gordon Seabright, CEO of EPL  
Mike Maunder, board director of EPL  
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Angela Marshall, non-executive board director of EPL  
Caroline White, non-executive board director of EPL  
Christian Wilson, non-executive board director of EPL  
Andrew Peters, non-executive board director of EPL (resigned June 2018)  
Lucy Edge, non-executive board director of EPL (resigned March 2019)

## Eden Project International Ltd

Eden Project International Ltd (EPIL) is an entity formed as part of the Eden Trust, created to drive the establishment of Eden Projects around the world.

### The Eden Project International Ltd Board

Chairman Sir Tim Smit KBE – Executive Co-Chair of EPIL  
Geoffrey Wilkinson – non-executive Co-Chair of EPIL

### Directors

David Harland – CEO of EPIL  
Keric Morris, non-executive board director of EPIL  
Helen Owers, non-executive board director of EPIL  
Sir Ken Robinson, non-executive board director  
Mike Maunder, board director (resigned April 2018)

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The Arts Council  
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The Big Lottery Fund (Big Local)  
The Big Lottery Fund (The Big Lunch Programme)  
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Esmée Fairbairn Foundation  
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European Social Fund and The Big Lottery Fund (Building Better Opportunities)  
Good Energy  
The National Lottery Heritage Fund/Patagonia via B4 Project  
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## Gifts in wills:

Mr John Anderson