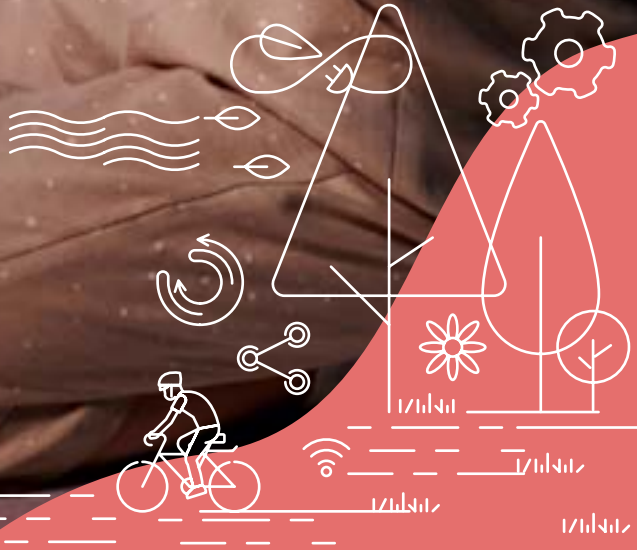
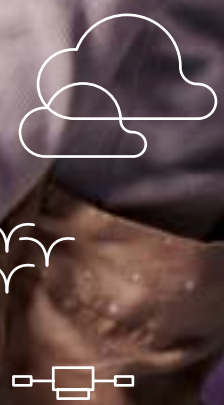




# Earth Matters Exhibition Guide



Created by





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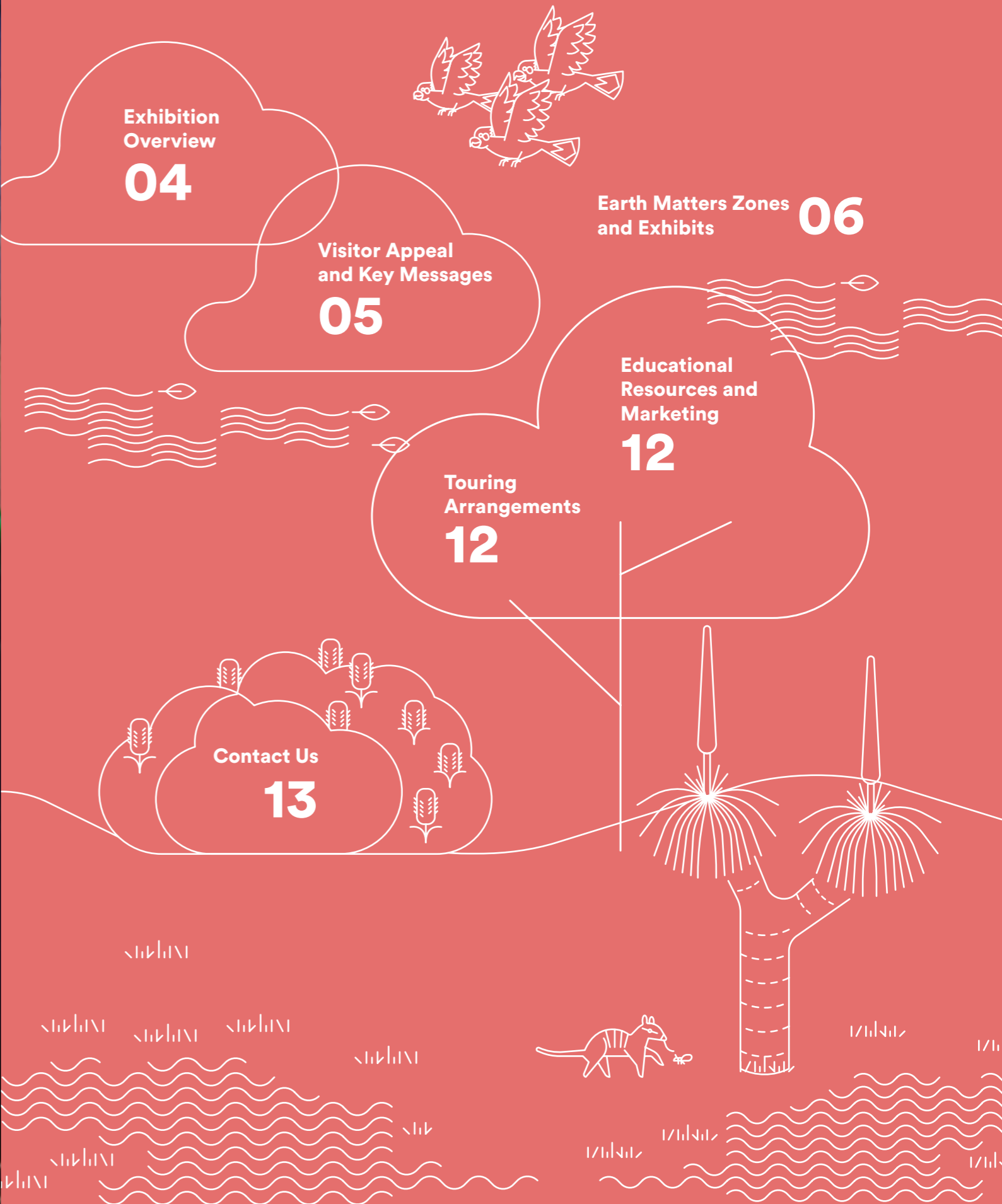
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## Exhibition overview

**Welcome to a place where you can dive deep into the science behind some of the changes we are seeing in our surroundings. Experience how the smallest of actions can have a big impact on the world around you. Our exhibits are both thought-provoking and fully interactive, so you can find new answers to big questions. This is where you play to change the game.**

In nature, everything is connected – air, land, water. As you explore Earth Matters, look out for the connections along the way. Solve complex challenges and push your own ideas to new heights. Then rethink what the future could look like.

## Visitor Appeal

**Earth Matters has been developed to engage children aged between 5-16 years and their families, although the exhibition provides a broader appeal to fascinate and inform people of all ages. Different exhibits will appeal to different ages with the insect hotel and log crawl-through capturing the attention of younger children, while older children take on challenges that involve problem solving, innovation and teamwork. Visitors of all ages will be captivated by the Banksia Woodland, an immersive installation that looks at the six seasons of Australia as depicted by an Aboriginal elder, as well as the three-dimensional Coral Reef exhibit that comes to life with stunning, colourful projections.**

Great opportunities exist for media exposure and sponsorship, as Earth Matters provides an insightful look at the innovations and solutions that will help us adapt our way of living for a more sustainable future.

### Key messages

- Investigate intertwined relationships between humans and different habitats.
- Experience how the smallest of actions can have a big impact on the world around you.
- Activate critical thinking and realise your own ideas to find STEM-based solutions for real-world challenges.
- Learn how to use your problem-solving skills to play a critical role in the progress and well-being of communities in our modern world.



# Earth Matters Zones and Exhibits

## Zone 1: Understand

See the inner workings of a tree, listen and learn about endangered species and experience large-scale visualisations of changes taking place in our natural world. Learn more about the big issues, like biodiversity, rising global temperatures and how to manage carbon emissions.

### Arctic Sea Ice

We know Arctic sea ice is important to polar bears, but why is it important to us? Explore change in sea ice extent over time using our projected animation. Learn about the Arctic's fundamental role in moderating the Earth's climate.

**Education Links:** *Climate Change, Earth's Systems*



### Transport Emissions

Through augmented reality, see the carbon emissions of various modes of transport. Explore the impact of our choices when it comes to how we move and travel around.

**Education Links:** *Human Impacts, Interpreting Data*



### Show Your Stripes

Walk through time and see how the Earth's annual average temperature has changed. Spanning from 1850 to 2018, each stripe in this powerful exhibit represents a single year in time.

**Education Links:** *Interpreting Data, Climate Change*

### Threatened Animals

This interactive exhibit introduces our youngest visitors to the topic of threatened animals. Simply match the tiles to find out which animals are in danger. Where do they live, and which threats do they face?

**Education Links:** *Biodiversity, Ecosystems*



### How Does a Tree Work?

Explore this trio of exhibits to understand how trees breathe, live, and grow. Discover a whole new way of looking at trees. Learn about the essential role they play in our natural world.

**Education Links:** *Biology, Earth's Systems*





## Zone 2: Renew

Experience our planet in new ways and immerse yourself in incredible ecosystems. Explore the restoration journey of valuable and endangered ecosystems with these stunning three-dimensional digital experiences. Make decisions and interact to see how we can all help renew our natural world. From the ocean to the forest, what difference can you make?



### Coral Reef

Experience a large three-dimensional coral reef coming to life with stunning colourful projections. How will the choices you make impact the marine habitat in front of you?

**Education Links:** *Ecosystems, Human impact*

### Banksia Woodland

What impact do your footprints leave upon the environment? Find out in this incredibly immersive installation depicting the six seasons of Western Australia as told through the eyes of an Aboriginal elder. Journey inside and discover what challenges this rich and fragile ecosystem faces.

**Education Links:** *Ecosystems, Biodiversity, Weather and Climate*



## Zone 3: Backyard

Starting in your own backyard, learn how you can make mini changes with major results. Designed for our littlest visitors, this series of interactive exhibits create new ways to explore backyard biodiversity and sustainability. Connect with nature and uncover the secrets of urban habitats to understand how you can give it a helping hand.



### Insect Hotel

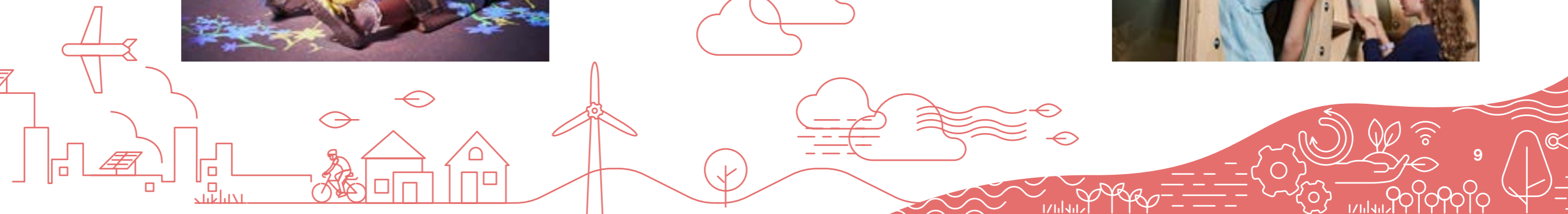
We take our youngest visitors on a journey to explore how little changes can make a huge difference in the world around them. Visitors can help little creatures find the perfect home within our large-scale insect hotel.

**Education Links:** *Ecosystems, Design Solutions*

### Log Crawl Through

Learn how the simple action of leaving a fallen log in your backyard can encourage biodiversity. Crawl-through to discover which creatures you'll be helping!

**Education Links:** *Ecosystems, Biology*





### Water Pump

Do you know how much water is needed to make some of your favourite daily items? This mechanical game lets you investigate – and you might be surprised! It's a hands-on way to find out more about your water footprint.

**Education Links:** *Natural Resources, Human Impacts*



### Microgrid

Explore energy generation, storage, and transfer in this fun and engaging exhibit. Using pedal generators, produce energy to light up a central townscape. Share excess energy with a neighbour to watch the town come alive.

**Education Links:** *Design Solutions, Science as a Human Endeavour*



## Zone 4: Re-Imagination Zone

Let's rethink the future! Explore inspiring Australian STEM solutions across our innovation pods. See videos, drawings, prototypes and models to learn how the ideas were brought to life. And be inspired to design and share your own solutions.

**Education Links:** *Design solutions, Human impacts, Science as a Human Endeavour*



## Zone 5: Reflection Zone

Take a moment to tune into our clouds to listen to other visitors, and how they re-imagine the future. Reflect on the changes you would like to see in the natural environment and share it to the cloud as well. What's your vision for the future?

**Education Links:** *Science as a Human Endeavour*



## Educational Resources

Earth Matters is accompanied by an Education Guide to assist teachers and family groups visiting the exhibition.

The exhibition covers the following areas of science:

- **Life science – Interdependent Relationships in Ecosystems, Cycles of Matter and Energy**
- **Earth and Space Sciences – Weather and Climate, Earth's Systems, Human Impacts, Natural Resources**
- **Engineering Design – Design Solutions**
- **Science as a Human Endeavour**

Scitech will provide each venue with a sample program to run with visiting schools. Venues are free to use and modify this material to suit the curriculum in their area or the target audience, providing due acknowledgment is made of Scitech as the designer and producer of the exhibition.

## Marketing

Earth Matters has been designed specifically for children aged between 5 and 16 years old although the subject material and exhibit content will have broad appeal for both younger and older audiences.

Scitech will provide the following marketing materials to help each venue promote the exhibition:

- **Exhibition photos and videos**
- **Exhibition logos**
- **Examples of advertising and promotional artwork**
- **Example of at-home activities**
- **Example of a media release**

Earth Matters will tour to other venues free of any specific sponsorship agreements, enabling host venues to link with a wide range of sponsors in the local market.

## Touring Arrangements

Earth Matters consists of 16 exhibits with accompanying graphic panels that outline instructions for the visitor and provide engaging stories and information to complement and build upon learnings in the exhibits in everyday terms.

## Space and Height

- Fits an exhibition space of approximately 4,300 -6,500 square feet (400 -600 square metres) in flexible configurations
- Minimum ceiling height requirement for the exhibition is 10 feet (3 metres), although 13 feet (4 metres) is optimal
- Entry and exit points measuring at least 9 feet x 9 feet (2.7 metres x 2.7 metres) for installation

## Power and Air

- Exhibits are powered by a standard 120v/240v electricity supply and are designed to accept power from the ceiling or the floor
- Some exhibits require 24 hour power to prevent damage to the projectors
- A licensed electrician will need to be supplied by the host venue to assist with the exhibition installation
- The exhibition is completely self-contained

## Fees

Negotiations with individual venues will be conducted to determine the appropriate fee structure for the exhibition period.

## Training And Maintenance

- Scitech will provide the host venue's exhibition and visitor staff with a full briefing on exhibit operation and maintenance, as part of the exhibition installation
- The exhibition does require some simple maintenance which needs to be carried out on a daily basis
- A full list will be provided in the exhibition manual

## Scitech Will Provide:

- The exhibition as outlined in the Contract
- An exhibition supervisor to coordinate the installation and dismantling of the exhibition
- Replacement parts through normal wear and tear
- Education and marketing material

## The Host Venue Will Provide:

- A team to assist the installation and dismantling of the exhibition
- Replacement exhibit consumables as required
- 24 hour physical and/or electrical security of the exhibition
- Any special requirements (scaffolding, forklifts, carts etc.) as specified in the Contract



## About Scitech

Scitech is Western Australia's premiere science centre. Its world-renowned exhibitions are sought after for their highly interactive and compact nature. Backed by over 30 years' experience creating popular STEM experiences, these exhibitions are created with expertise and advice from scientists, students, innovators and community.

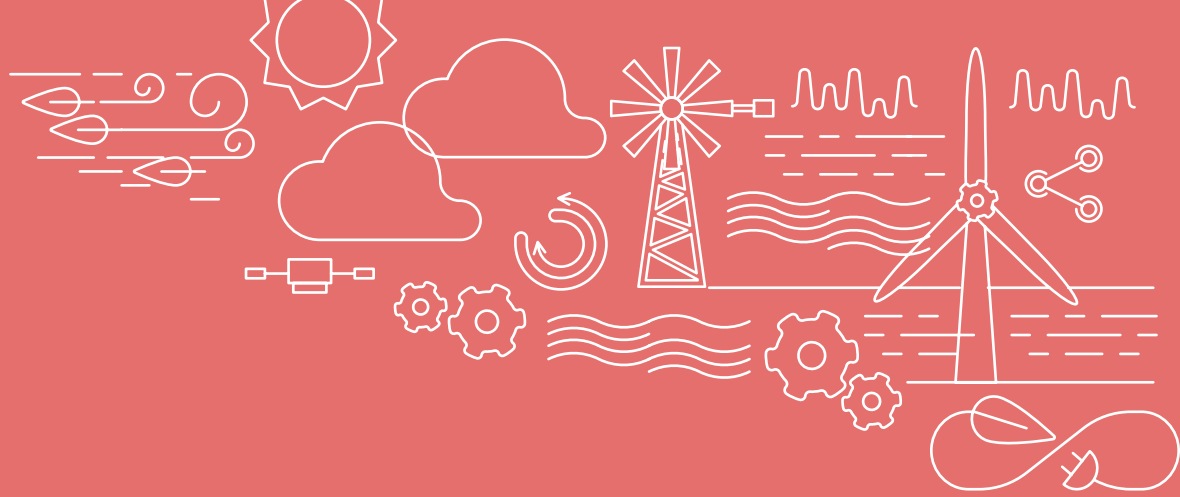
Scitech's exhibitions present complex STEM concepts in everyday language and experiences that visitors of all ages can understand. While Scitech exports a physical product with a dollar value, it also exports inspiration and a product that nurtures multitudes of enquiring minds of future generations.

## What sets Scitech apart?

**Customer-centric:** Underpinned by a design-based thinking framework, our human-centered design suits a diverse range of ages and backgrounds, accommodating different learning styles – engaging audiences via multi-modal interactivity.

**Exhibits:** Ranging from small-scale to fully immersive interactions, Scitech exhibits offer a variety of digital and physical experiences and are adaptable to localised language preferences.

**Support:** We offer ongoing support, can accommodate fast turnaround times, and supply detailed technical and loading manuals as well as automated software fault detection and reporting.



## For Booking or More Information:

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Information contained in this guide was correct at the time of publication.

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