

NINE
EARTHS



Environmental
Storytelling—
Art/Science/Technology
—CitizenStories^{AI}
—Nine Earths^{IMMERSIVE / AV}
—Powers of Us^{IMMERSIVE / XR / FILM}
—Respira-Trees^{INSTALLATION / WALK}

Nine Earths is an immersive artwork that explores the relationship between ordinary lives and humanity's excessive demand for the Earth's resources. In doing so it invites the viewer to reflect on our impact on the planet, and how this connects us all.

Nine Earths is a collaborative piece created by the arts collective D-Fuse, and part of their **environmental storytelling** programme – a unique approach to highlighting some of the most urgent issues of our day.

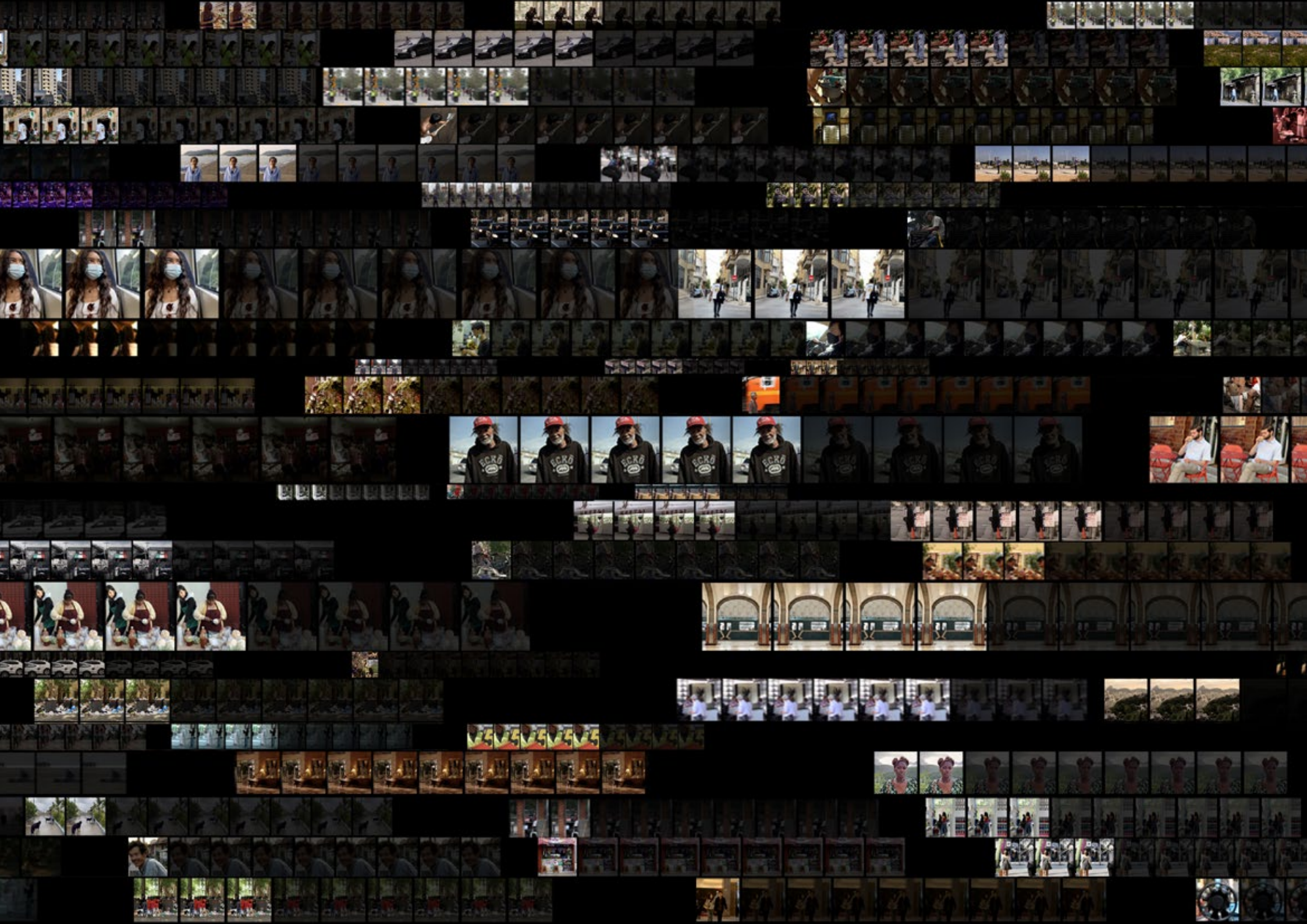
Why Nine Earths?

Each year human demand for natural resources — our ecological footprint — exceeds what our planet can regenerate in that time. We are going beyond what scientists call our **planetary boundaries**, and in doing so putting all our futures at risk. If we all consumed as much as Americans, for example, we would need the equivalent of five Earths' worth of the planet's resources. The **Nine Earths** of the title is inspired by the **ecological footprint** of the highest consuming nation of all — Qatar.



The **planetary boundary (PB)** concept, introduced in 2009, aims to define the environmental limits humanity can safely operate within. There are nine interlinked boundaries humanity must respect to keep the planet habitable. Six of these have already been overstepped.

The **ecological footprint** is a way of measuring the impact of human demand on the Earth's ecosystems, otherwise described as its biocapacity. It measures the scale of the biologically productive area that must be regenerated to facilitate the consumption of all products and services.





“There is something about watching our environmental issues through the visual medium. If structured and shown with research, the impact can be lasting”

Rutger Bregman
Author of *Humankind: A Hopeful History*

“People respond to art and stories that produce emotions, not just facts. *Nine Earths* shows how normal people live around the world, consuming food, goods and energy, and we can see ourselves reflected in their lives. I’m very proud to be involved”

Mark Maslin
Earth System Science, University College London



THE RICHEST
10% OF US
EMIT HALF
OF OUR
PLANET'S
CARBON
EMISSIONS

Nine Earths takes its audience on an audiovisual journey, blending words, film, photography, sound and data graphics to explore human consumption and its impact on our world. Central to the piece are “citizen stories” of ordinary people describing their daily routines, hopes and fears. The artwork travels through several continents, bringing together local experiences with its global theme. There are aerial photographs that capture the consequences of over consumption, while quotes from scientists, economists and activists provide a wider context.

/ **Nine Earths** Trailer

<https://vimeo.com/dfuse/nine-earths-trailer-1>

/ **Nine Earths** Ethnographic Research

<https://vimeo.com/dfuse/nine-earths-research-vn>



هال | العمر 19
لندن | إنجلترا

إسعي حال أعيش في شرق لندن، وأدرس التاريخ كما أعمل أيضًا في حانة قريبة في الوقت عينه. شخصيًا لا أشعر أن التفكير الصناعي يؤثر على طريقة عيشي حاليًا. لكنني أعلم أنه سيكون له تأثير كبير إذا لم أسير على الوضع بطريقة ملائمة. أستطيع أن أرى كيف يمكن لأفعالي الشخصية أن تؤثر فعليًا على تغير المناخ، خاصة أن الإحصائيات تقول أن 70% من الانبعاثات تنبع عن شركات، وليس عن أفراد.



هوك | العمر 18
ريو دي جانيرو | البرازيل

أشعر بالضيق لأنني أعلم أن الدول الغنية تستهلك الكثير وتنتج الكثير من النفايات، مما يؤثر على البيئة. بينما البلدان الفقيرة ليس لديها شيء. تتأثر البرازيل بظواهر الطقس الشديدة والأمراض المعدية وتلوث الهواء كما يتفاقم سوء التغذية والجوع بسبب ارتفاع درجة الحرارة العالمية. تُعد البرازيل من بين أسوأ دول السياسة المناخية في العالم، وأرى مستقبلًا دون ضوء في نهاية النفق.



ماريو | العمر 35
لوس أنجلوس، كاليفورنيا، الولايات المتحدة

تôi là Mario. Tôi đến từ thành phố Guatemala. Vợ tôi và con trai sống ở đây, còn tôi thì gửi tiền về cho họ. Đôi khi tôi làm 12 giờ một ngày, đôi khi thì là 8 giờ. Khoảng hai tuần trước tôi đã chuyển đến LA. Tôi muốn sống ở đây trong vòng hai năm tới và sau đó sẽ quay lại Guatemala. Tôi thích sống ở đây vì cảm giác rất an toàn.



هوي | العمر 19
لونغ بيونج، فيتنام

Chủ nghĩa tiêu thụ phản ánh tư duy, nhu cầu, văn hóa, chính trị và ý thức môi trường của người dân. Chủ nghĩa tiêu thụ cũng ảnh hưởng đến biến đổi khí hậu. Tôi sống ở vùng đồng bằng sông Cửu Long, một vùng đất hiện đang có nguy cơ bị ngập do nước biển dâng toàn cầu. Gần đây, mùa hè ngày càng nóng hơn. Những năm 2014 - 2019 được coi là thời điểm nóng nhất. Hiện tại, chúng tôi đeo khẩu trang để bảo vệ bản thân khỏi ô nhiễm không khí.



يارا | العمر 18
بيروت، لبنان



لينا | العمر 19
لوس أنجلوس، كاليفورنيا، الولايات المتحدة

Vyrstl jsem v LA, Během velké hospodářské krize, byla řeka Los Angeles jedním místem na hraně. Koupali jsme se v ní, chytali jsme ryby a jedenkrát tam dokonce medial zlato. Teď je to kemp beton, kolikrát dosti nedy nevytáhli, jen tam vby a ducky žijet, ale teď chci užívat, to samé i se zbytkem řeky. Zase začínají rušit beton, ale to bude trvat dlouho.



لينا | العمر 19
لوس أنجلوس، كاليفورنيا، الولايات المتحدة

Na této odpadní skládce žije a pracuje šest tisíc domovních. Žijí tam tak silně, že mnoho obyvatel denně vrací. Lidé se mi ptají, "Proč žijí na skládce?" Je to strach místo a hraně. Nechtějí. Ale pak říkají, že si recyklovaným vyhládkám skvělé peníze. Pracují sám, sbírají plechovky, skleněná lahev a věci z plastu všeho druhu. Vydělávají si více než dělníci v dolech.



لينا | العمر 19
لوس أنجلوس، كاليفورنيا، الولايات المتحدة

Rozdíl mezi dvěma je velmi neobvyklý. Tuť v tvář glaciální společnosti si připadám malá, ale stále pracuji jako mramor, který i přesto jak je malý, unese několikrát více své vlastní váhy. Na budoucnost nahodím různé způsoby, jako matka čtyř dětí, agentka zmluv a sběratelka recyklovatelných materiálů. Environmentální povědomí je třeba rozvíjet a zdokonalovat po celý život.



لينا | العمر 19
لوس أنجلوس، كاليفورنيا، الولايات المتحدة

Jmenuji se Supari a pracuji jako roční vrtání v podzemí. Ve volném čase dobrovolně hlídám na fotbalových příjezdech. Dělám to, protože tam často dochází k nehodám a chci pomáhat. Jediným zájmem a zastávám dopravu, když projedu vlak, což se děje často a nepravděpodobně. Očista dostanu nějaké zprávy, ale většinou ne.



لينا | العمر 19
لوس أنجلوس، كاليفورنيا، الولايات المتحدة

Jmenuji se Velasco. Jsem z Mexika a do LA jsem se přestěhoval před několika lety. Vlastním pojízdnou dodávku a prodávám tacos. Mám fix, že lidé v LA rádi opatrně, dokonce i velmi dobří organizovaní. Opatrně v Mexiku je absolutní chaos. Lidé se mi LA, protože tu lidé mají příležitost pracovat. Nežijím žádná jiná místa kromě Mexika. Můj sen je moci pořídit si své vlastní věci a mít peníze.



لينا | العمر 19
لوس أنجلوس، كاليفورنيا، الولايات المتحدة

Myslím si, že spotřeba je přehnaná. Dobrou příležitostí cyklus života a smrti funguje na bázi konzumace a spotřeby. Vše musí být ale v rovnováze, protože si od Země nemůžeme brát více, než nám může dát. Zimna musí přijít od lidí, kteří mají nějakou moc, jinak se moc přehradí. Mnohá generace vybudoval neudržitelné. Budoucí stáří Mario, jestli bude pokračovat, nám ukáže velkou sílu do budoucna.



لينا | العمر 19
لوس أنجلوس، كاليفورنيا، الولايات المتحدة

Jsem výkumník a řemeslník. Z ostatních řemeslníků zpracovávám nedopady a dále je jin nový život. Věřím, že to má kladný dopad na životní prostředí, ale nevím, jak moc naprosto. Kladím se svou techniku přehled místním řemeslníkům a ti ji kombinují se svými dovednostmi. Mým snem je mít mobilní workshop, abych mohl zastavit po svých regionech, kde používají jen materiály a přírodní techniky.



لينا | العمر 19
لوس أنجلوس، كاليفورنيا، الولايات المتحدة

Jako studentka musím vynaložit hodně úsilí, abych získala práci v oboru umění a politika a změnila jakoukoliv náhlí svět k lepšímu. Jenže skutečné změny můžeme dosáhnout jedině pokud lidé vzájemně spolupracují. Anagorini a chavini lidé, kteří si přezdívali kofí našeho státu, se o změnu klimatu jednoduše nezmínují. Některá nová mladých Libanonců se je vědomo tohoto globálního problému i důležitosti i nám mládež.

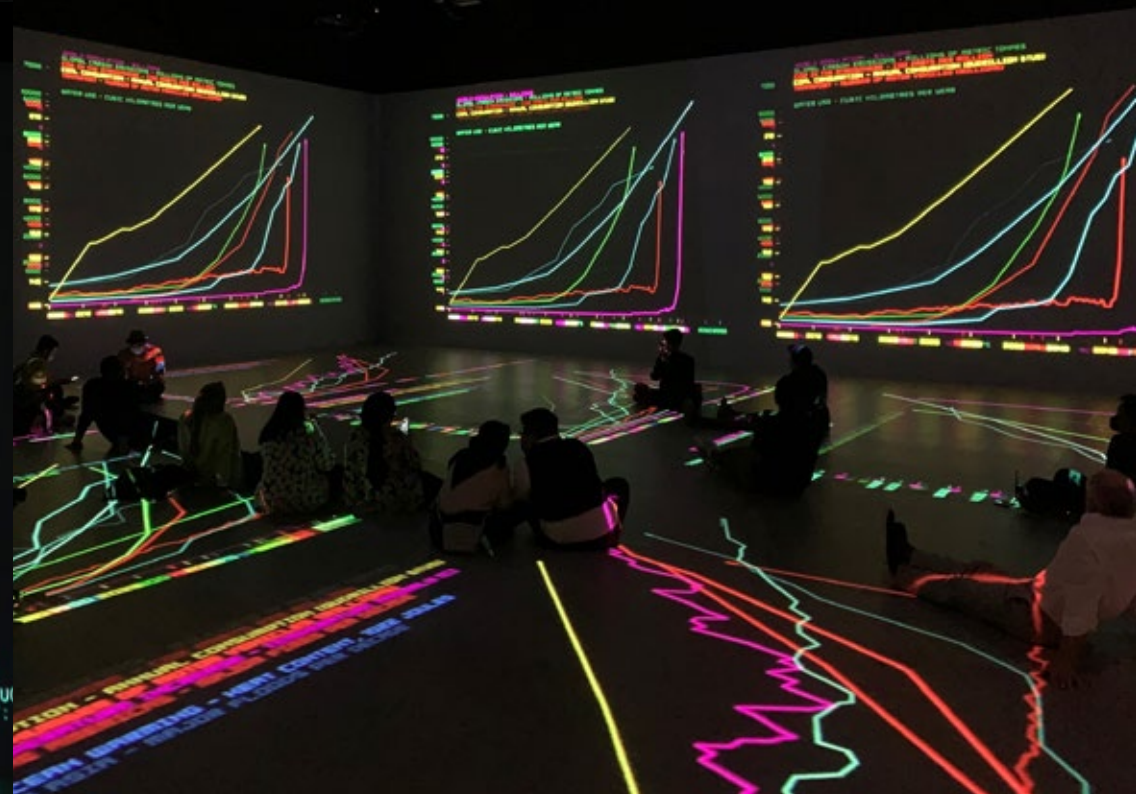
ALL OF US
ARE CITIZENS.
WHAT CAN
WE DO
AS CITIZENS?

ALL OF US
ARE CONSUMERS.
WHAT CAN
WE DO
AS CONSUMERS?

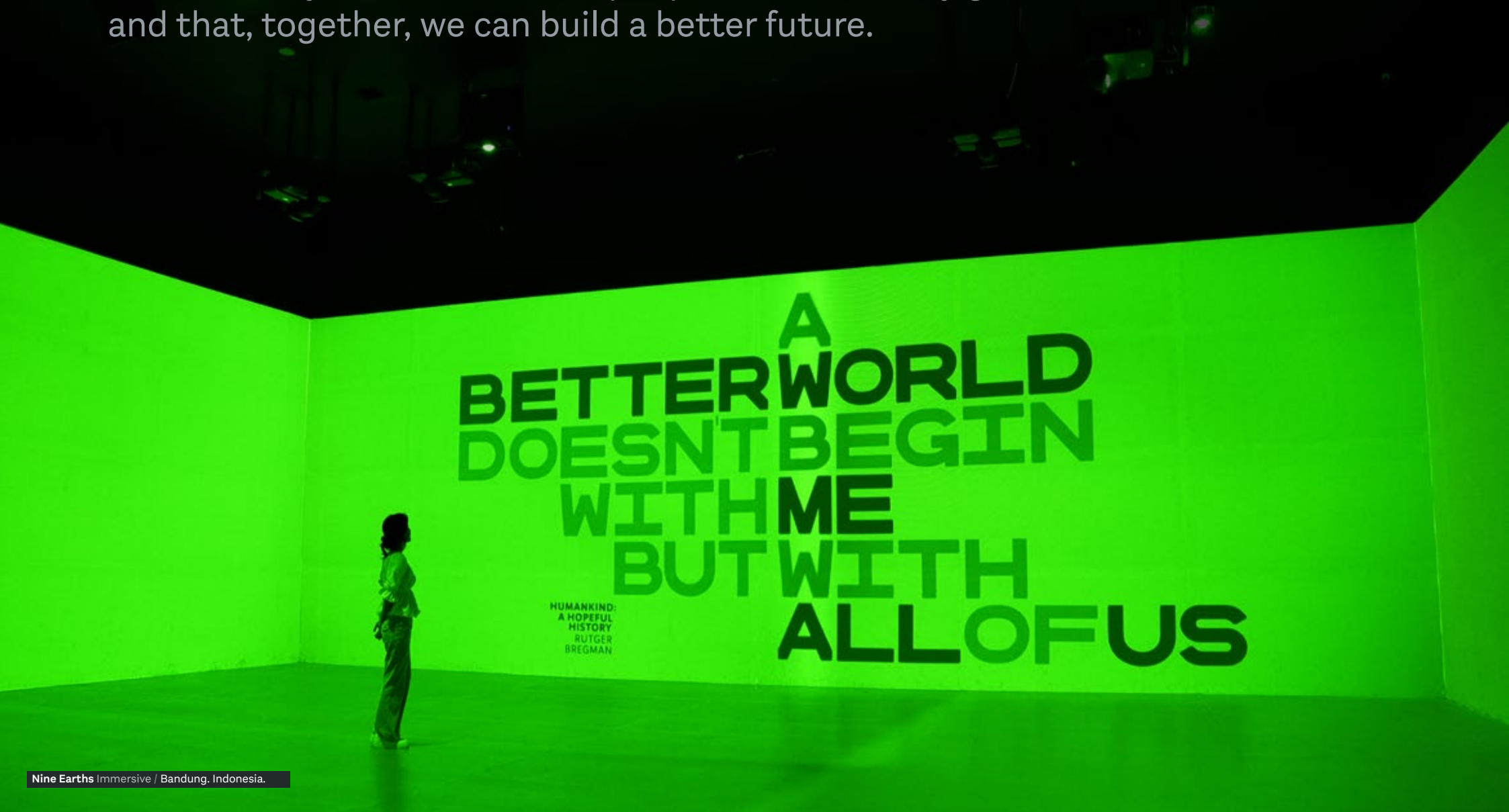


IMAGINE
OUR FUTURE
HISTORY.
CREATE THE
PATHWAY.
MAKE
IT
HAPPEN.

PROFESSOR MARK MASLIN
EARTH SYSTEM SCIENCE, UI
'HOW TO SAVE OUR PLANET:
THE FACTS'



Nine Earths is a positive, compassionate artwork, influenced by Rutger Bregman's book *Humankind: A Hopeful History*, which makes the argument that it is realistic - as well as revolutionary - to assume that people are essentially good and that, together, we can build a better future.



Nine Earths has been developed in collaboration with researchers, scientists and filmmakers worldwide. Originally commissioned by the British Council to mark the UK hosting the UN climate change conference in Glasgow, the artwork is a dynamic piece that continues to evolve – adding different places, people and their stories as time goes on. This allows **Nine Earths** to be customised to be site-specific, with local workshops where individuals can contribute their citizen stories. While Nine Earths is primarily an immersive installation, it is also available as an audio-visual performance and as a set of single-screen films (ethnographic research and audio description screening).

/ **Nine Earths**

Immersive
installation

High-resolution four/five screen
Immersive space it can be
configured and presented as a
Cube, 360-degree cylinder, or
video wall.

/ **Nine Earths**

Audio Visual
AV

Currently, comprises of two
live sets - **Act One, The Reality**
and **Act Two, The Resolution**.

/ **Nine Earths**

Audio Description
AD screening

Bespoke single screen film with
audio description (AD) for the
visually impaired.

/ **Nine Earths**

Research
screening

Visual ethnography research
film. Narrated by climate
scientist **Mark Maslin** and
artist / academic **Kevin Walker**.



Nine Earths AV / Iklectik, London. UK.



Nine Earths AV / Iklectik, London. UK.



Nine Earths Audio Description



Nine Earths AV / Iklectik, London. UK.



Environmental Storytelling — Art/Science/Technology

Nine Earths is a collaborative piece created by the arts collective D-Fuse, and part of their environmental storytelling programme. The programme reflects the collective's passion to amplify the voices of marginalised communities and focus more attention on the pressing environmental issues of our times, including climate change, biodiversity loss, ocean acidification, land-system change, and excessive demand for the Earth's resources.

Other current environmental storytelling projects are:

/ Environmental Storytelling Workshops

During workshops participants will delve into discussions, ethnographic storytelling and data collection. Accompanied by an Urban Climate Walk.

/ Respira-Trees Installation

An environmental installation that raises awareness about air pollution by making invisible data visible.

/ Powers of Us XR / Immersive Installation

An VR / Immersive Film inspired by Charles and Ray Eames' film, **Powers of Ten**, which explores our planet's environmental fragility and the effects of global consumption.



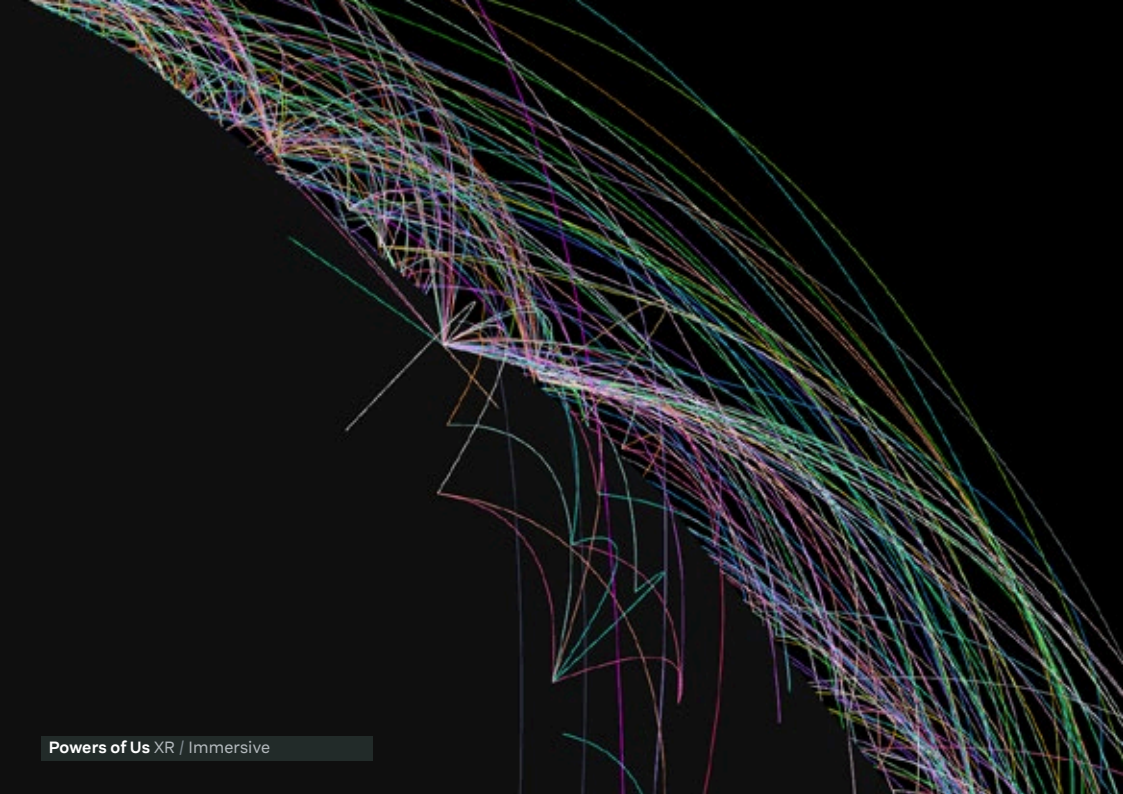
Environmental Storytelling Workshops / Da Lat, Vietnam.



Respira-Trees Prototyping / Liberty Arts festival, London, UK.



Urban Climate Walk / Liberty Arts festival, London, UK.



Powers of Us XR / Immersive

About D-Fuse

Founded by neurodivergent artist Mike Faulkner in the mid-1990s, D-Fuse is a collective of audiovisual innovators who collaborate on environmental storytelling using a range of media and art forms. The collective's output encompasses immersive art installations, live audiovisual performances, experimental film, animation and virtual reality.

D-Fuse has collaborated on a wide range of high-profile commissions with international partners including Al Gore, the Eames Office, the British Council, Steve Reich, Beck, Hauschka, Leftfield, Scanner, Greenpeace, University College London, Cranbrook Academy of Art, Immersive Media Lab/USC and Eyebeam. Exhibitions include COP26 (Glasgow), COP27 (Sharm El Sheikh), the British Film Institute (London), Prix Ars Electronica (Linz), Mori Art Museum (Tokyo), Tribeca Film Festival (New York), Museum of Modern Art (San Francisco), Sonar D+ (Lisbon/Barcelona) and the Cannes Film Festival.

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SDGs (UN Sustainable Development Goals)

Nine Earths has been informed by and reflects nine of the **UN Sustainable Development Goals** to address the global challenges we face. The goals aim to achieve a better and more sustainable future for all, encouraging positive behavioural change and educating and empowering every person on the planet.



Nine Earths Credits

Director, Artist and Creator
Mike Faulkner – D-Fuse

Associate Producer / **Vladislav Severtsev**

Researcher and Concept Advisor / **Kevin Walker** – Associate Professor of Immersive Media, Centre for Postdigital Cultures, Coventry University.

Climate Change Advisor / **Mark Maslin** – Professor of Earth System Science, University College London.

Climate Communication Advisor / **Julie Doyle** – Professor of Media and Communication, School of Art and Media, Centre for Spatial, Environmental and Cultural Politics, University of Brighton.

Music Composer / **Robin Rimbaud** – Scanner

Creative Developer / **Toby Harris** – D-Fuse

Design and Animation Optimization
Ben Sheppee – Observatory Creative

Creative Consultant / **Glenn Rickwood** – D-Fuse

Design Advisors / **Christian Küsters** – CHK Design
Tomi Vollauschek – FL@33

Production Partners / **Maya Chami** (Lebanon)
Andrew Stiff – RMIT University (Vietnam)
Adi Panuntun – Sembilan Matahari (Indonesia)
Thiago Cury – Musica Estranha (Brazil)
Batman Zavareze – Multiplicidade (Brazil)

Photography Credits

Nine Earths Immersive / **Sembilan Matahari**
Nine Earths Audio description / D-Fuse
Nine Earths AV@Ikklektik / **Alastair Fyfe** Photography
Environmental Storytelling workshops / **Pho Ben Doi**

