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Ballantyne, Trudie ORCID logoORCID: https://orcid.org/0000-0002-1667-9105 and Williams, Michelle A (2017) Plastic Fantastic - Or is it? In: University of Gloucestershire Public lecture series, 30th November 2017, University of Gloucestershire, Park campus, Cheltenham, Glos, UK. (Unpublished)

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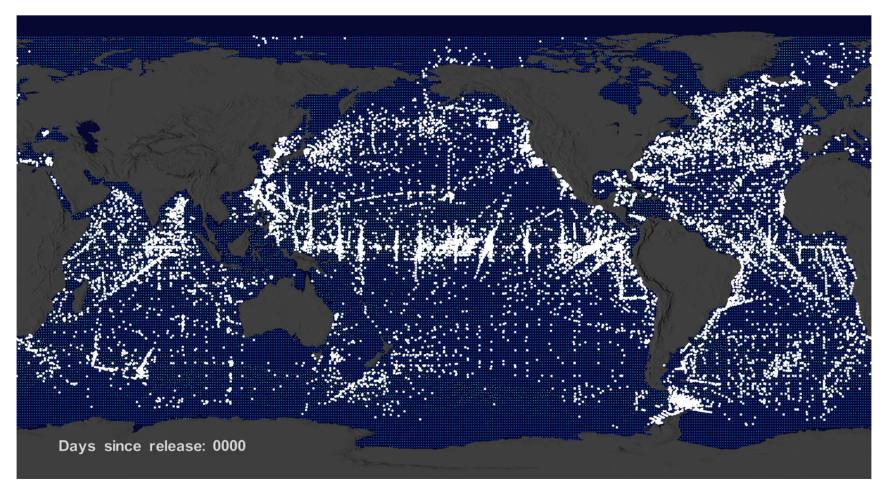
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Plastic Fantastic – or is it?



NASA's Scientific Visualization Studio

Dr Michelle Williams & Trudie Ballantyne

@UogAIR @TrudieBtyne @DrMichWilliams #UogAIR

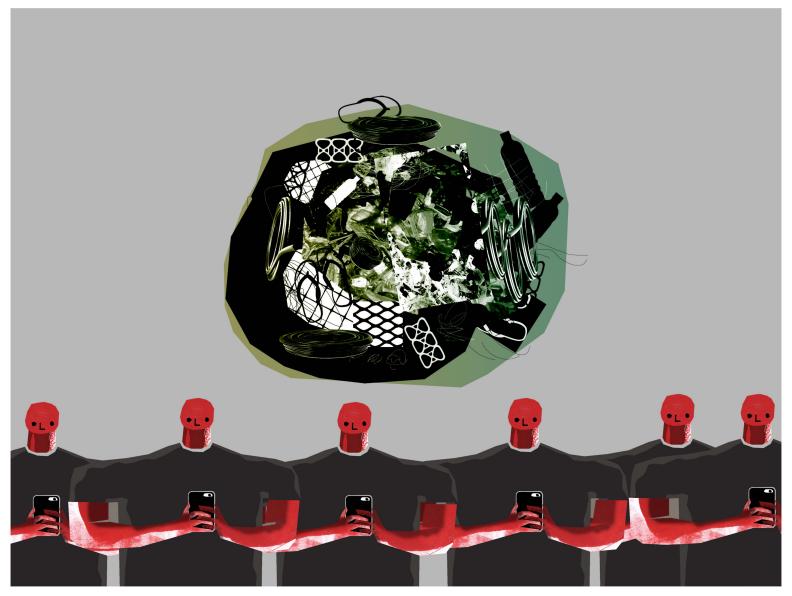
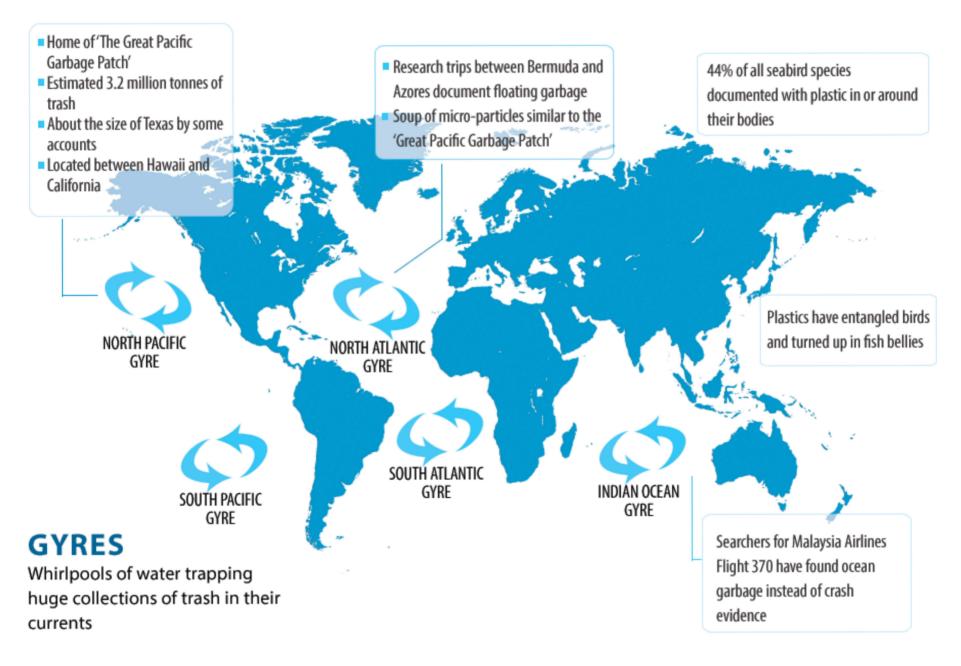
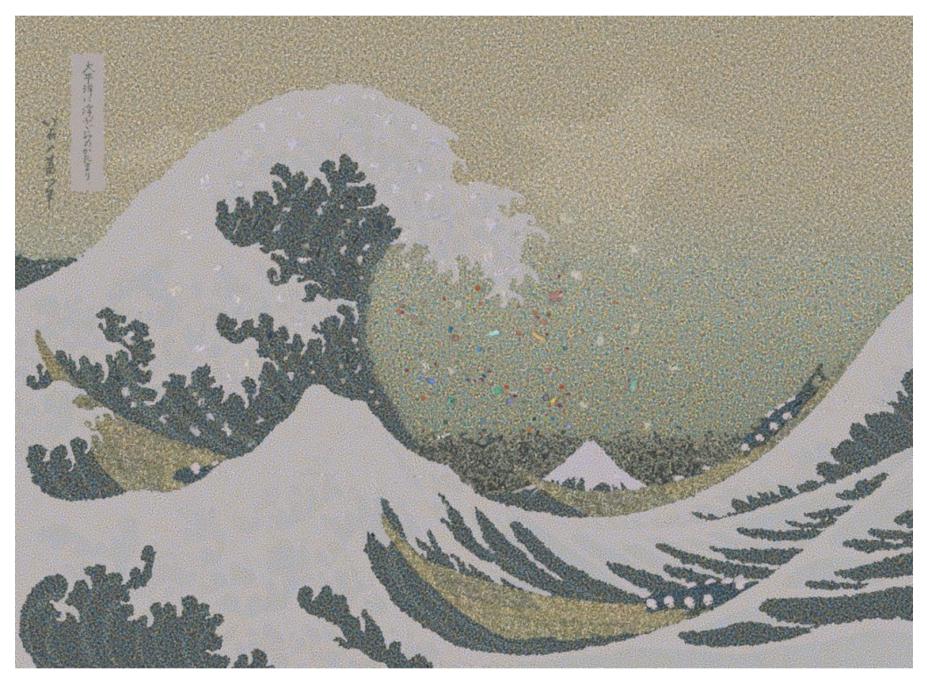
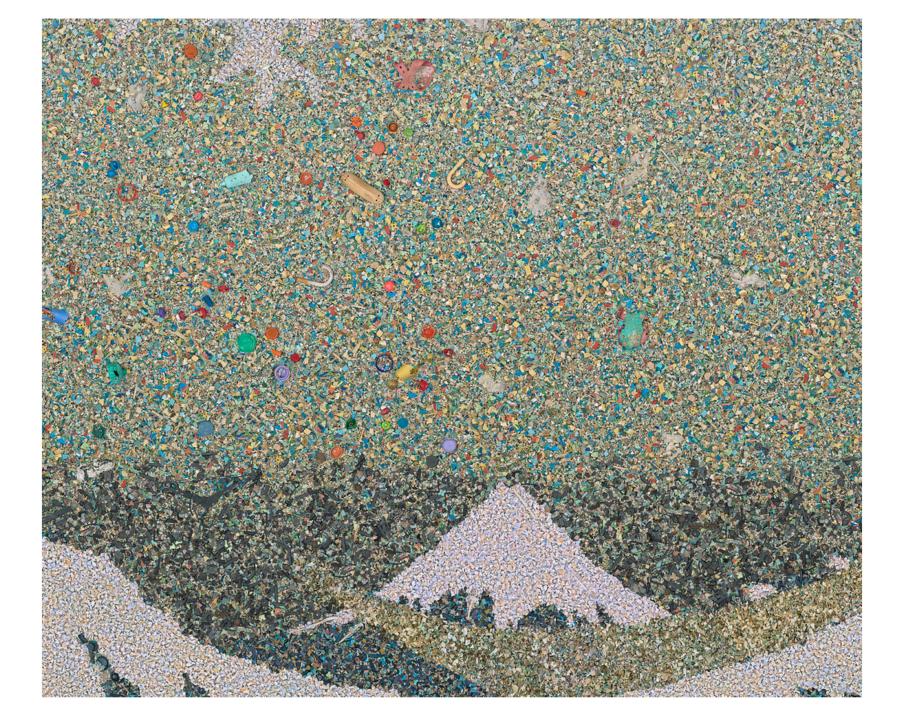


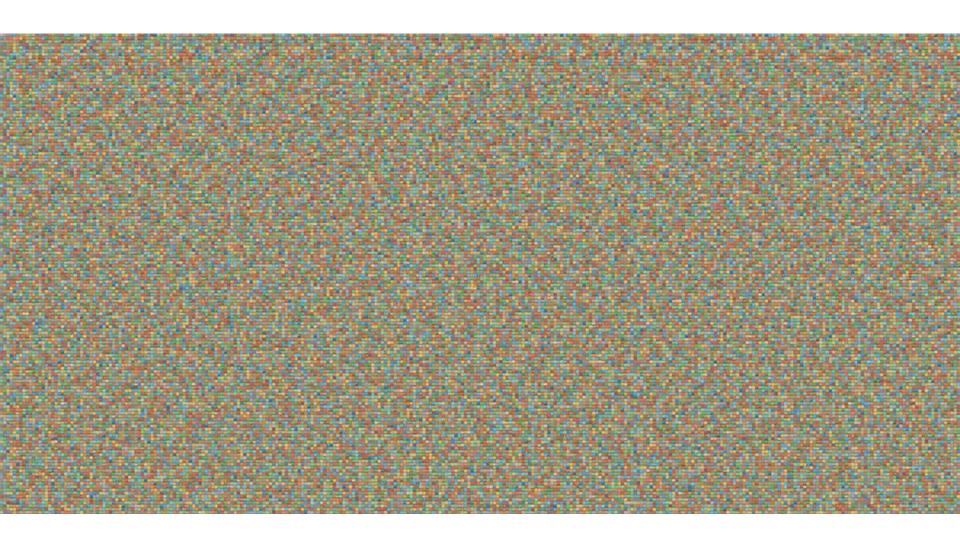
Illustration: Chris Kershaw



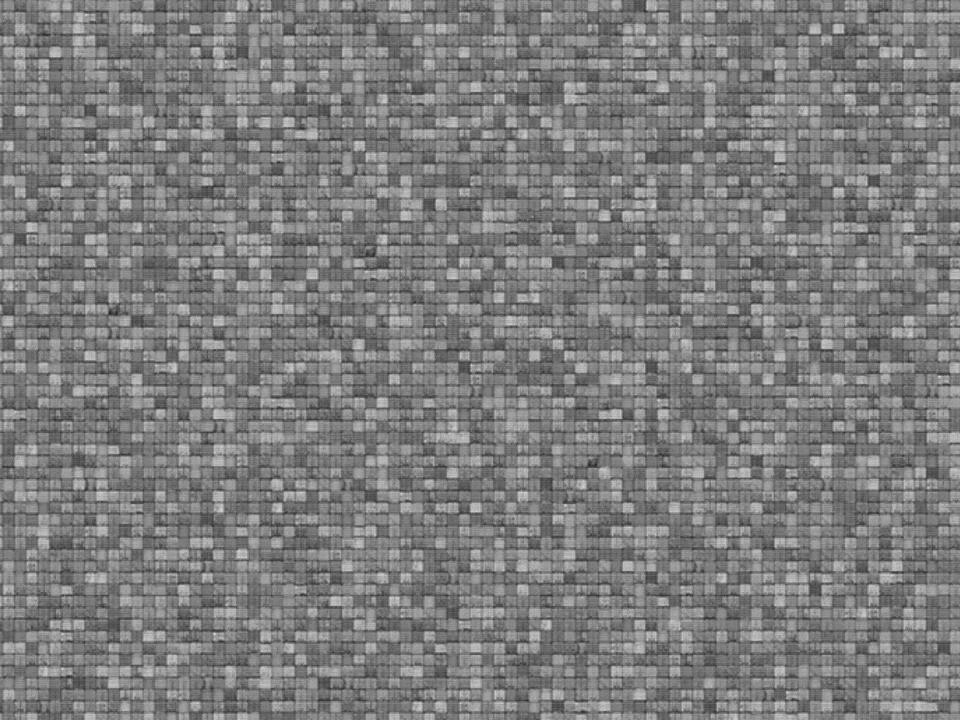


Chris Jordan: 'Gyre' 2009 - after Hokusai 'The Great Wave'





Chris Jordan: *Shipping containers; Running the Numbers: An American Self-Portrait.* 2007 Depicts 38,000 shipping containers – **the number processed through US ports** <u>every 12 hours</u>





Chris Jordan: *Plastic Bottles; Running the Numbers: An American Self-Portrait.* 2007 Depicts two million plastic drinks bottles <u>– the number used in the US every 5 minutes</u>



Alejandro Druran: Washed Up: Transforming a Trashed Landscape



Alejandro Druran: Amanecer(Dawn), 2011

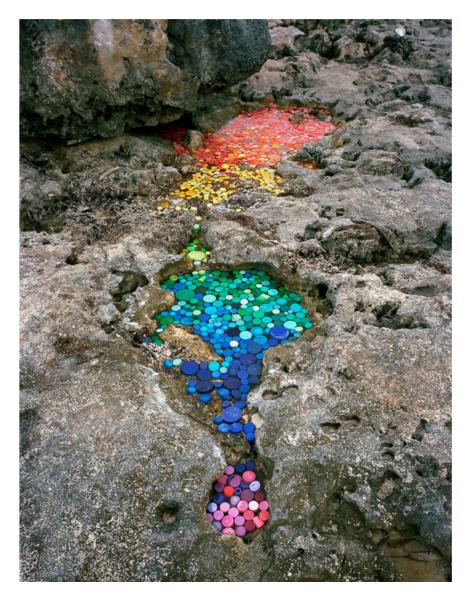


Gota (Drop), 2011



Brotes (Shoots), 2014





Alejandro Druran: Derrame (Spill), 2010

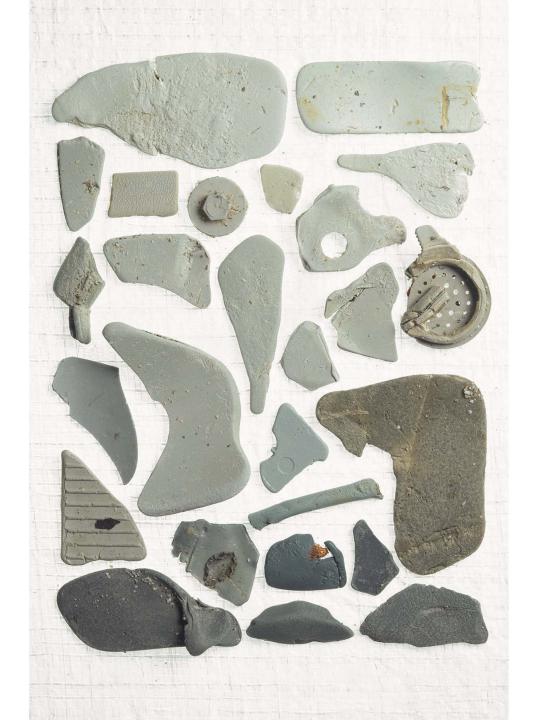
Algas (Algae), 2013

Photographs by Chris Jordan

- Andrew Market Com



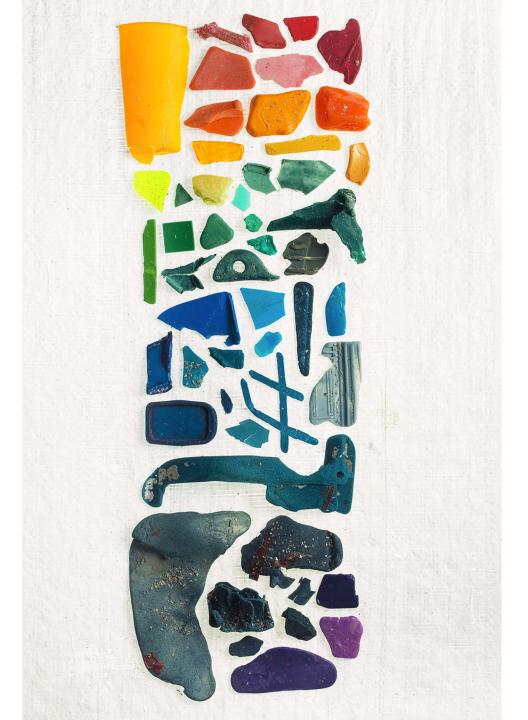
Fragments: white



Fragments: grey

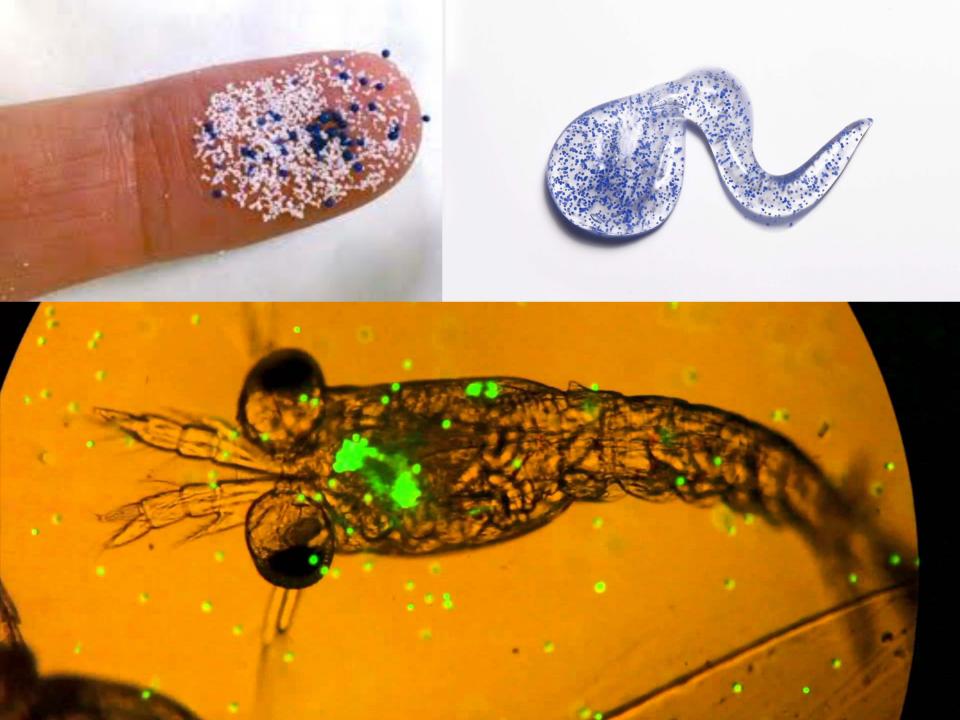


Fragments: black



Fragments: rainbow





Random sample



Product information

Scrubs / Peelings

Brand/Concern	Producer	Product name	Ingredient
Aapri	Aapri	Exfoliating facial scrub cream	Polyethylene (PE);
Aveeno	Johnson & Johnson	Positively radiant daily exfoliating cleanser	Polyethylene (PE);
Bare Foot	Freeman Beauty	Spa professional exfoliating polish	Polyethylene (PE);
Bioré	Kao Corporation	Warming anti-blackhead cleanser	Polyethylene (PE);
Bliss	Steiner Leisure Limited	Lemon and sage body scrub	Polyethylene (PE);
Boutique	Grace Cole Ltd	Orchid, amber & incense body scrub	Polyethylene (PE);
Clean & Clear	Johnson & Johnson	Morning energy skin brightening daily scrub	Polyethylene (PE);
Clean & Clear	Johnson & Johnson	Exfoliating daily wash	Polyethylene (PE);
Clean & Clear	Johnson & Johnson	Blackhead clearing daily scrub	Polyethylene (PE);
Clean & Clear	Johnson & Johnson	Advantage clear and soothe daily scrub	Polyethylene (PE);
Clinique for men	Estée Lauder Companies	Face scrub	Polyethylene (PE);
De.Solv.it	Zep UK	Heavy duty beaded hand cleaner	Polyethylene (PE);
Dermalogica	Dermalogica, Inc.	Exfoliating body scrub	Polyethylene (PE);
Dermalogica	Dermalogica, Inc.	Blackhead clearing pore control scrub	Polypropylene (PP);
Dior	Dior	Instant gentle exfoliant	Nylon; Polyethylene (PE);
Dirty Works	The Brand Architekts Ltd	Pore-fect face scrub	Polyethylene (PE);
Eau Thermal Avène	Pierre Fabre Ltd	Gentle purifying scrub	Polyethylene (PE);
Eau Thermal Avène	Pierre Fabre Ltd	Cleanance K gel crème	Polymethyl Methacrylate (PMMA);
Elemis	Steiner Leisure Limited	Sp@ home skin nourishing body scrub	Polyethylene (PE);
Elizabeth Arden	Elizabeth Arden, Inc.	Skin balancing exfoliating cleanser	Polyethylene (PE);
Elizabeth Arden	Elizabeth Arden, Inc.	Anti-aging treatment boosting cleanser	Polyethylene (PE);
Elizabeth Arden	Elizabeth Arden, Inc.	Ceramide plump perfect gentle line smoothing exfoliator	Polymethyl Methacrylate (PMMA);
Freederm	Diomed Developments Ltd	Exfoliating daily wash	Polyethylene (PE);
Guerlain	LVMH	Secret de pureté gentle polish exfoliator	Nylon; Polyethylene (PE);
Guerlain	LVMH	Blanc de perle cleansing foam	Nylon; Polyethylene (PE);
H2O+	H2O Plus	Face oasis dual-action exfoliating cleanser	Polyethylene (PE);
Jack Black	Jack Black LLC	Face buff energising scrub	Polyethylene (PE);
Johnson's	Johnson & Johnson	Daily essentials gentle exfoliating wash	Polyethylene (PE);
King of Shaves	The King Of Shaves Company Ltd	Super scrub lime zest for men	Polyethylene (PE);
L'Occitane en Provence	L'Occitane Group	Roses et reines shower scrub	Polyethylene (PE);
L'Occitane en Provence	L'Occitane Group	Almond shower scrub	Polyethylene (PE);
L'Occitane en Provence	L'Occitane Group	Revitalising body scrub	Polyethylene (PE);
Lab Series	Estée Lauder Companies	Invigorating face scrub	Polyethylene (PE);
Laura Mercier	Gurwitch Products	Verbena infusion body gel scrub	Polyethylene (PE);
Laura Mercier	Gurwitch Products	Crème de pistache scrub	Polyethylene (PE);
Laura Mercier	Gurwitch Products	Flawless skin face polish	Polvethvlene (PE):
Milk & Co	Milk & Co Pty Ltd	Face + body scrub	Polyethylene (PE);
NSPA	Pure Spa Products Ltd.	Smoothing face scrub for men	Polyethylene (PE);
NSPA	Pure Spa Products Ltd.	Brightening detox scrub exfoliate (Step 2 of 4)	Polyethylene (PE);
Neutrogena	Johnson & Johnson	Visibly clear pore and shine daily scrub	
Neutrogena	Johnson & Johnson	Blackhead eliminating SOS cleanser	Polyethylene (PE);
Neutrogena	Johnson & Johnson	Visibly clear pink grapefruit daily scrub	Polyethylene (PE);
Neutrogena	Johnson & Johnson	Visibly clear gentle exfoliating wash	Polyethylene (PE);
Neutrogena	Johnson & Johnson	Visibly clear blackhead eliminating daily scrub	Polyethylene (PE);
Neutrogena	Johnson & Johnson	Multi-defence gentle purifying scrub	Polyethylene (PE);
Neutrogena	Johnson & Johnson	Spot stress control daily scrub	Polyethylene (PE);
Neutrogena	Johnson & Johnson	Deep clean invigorating daily scrub	Polyethylene (PE);
Nip + Fab	Nip + Fab Ltd	Glycolic scrub fix - exfoliant glycolic fix	Polyethylene (PE);
Nip + Fab	Nip + Fab Ltd	Detox blend body scrub	Polyethylene (PE);
Nip + Fab	Nip + Fab Ltd	Circulation fix body scrub	Polyethylene (PE);
Nip + Man	Nip + Fab Ltd	Scrubbing face wash	Polyethylene (PE);
OLOS	Alfaparf Group	Thalasso exfoliating facial paste with oyster shell powder	Polyethylene (PE);
OLOS	Alfaparf Group	Face scrub with wholeorain rice	Polyethylene (PE):

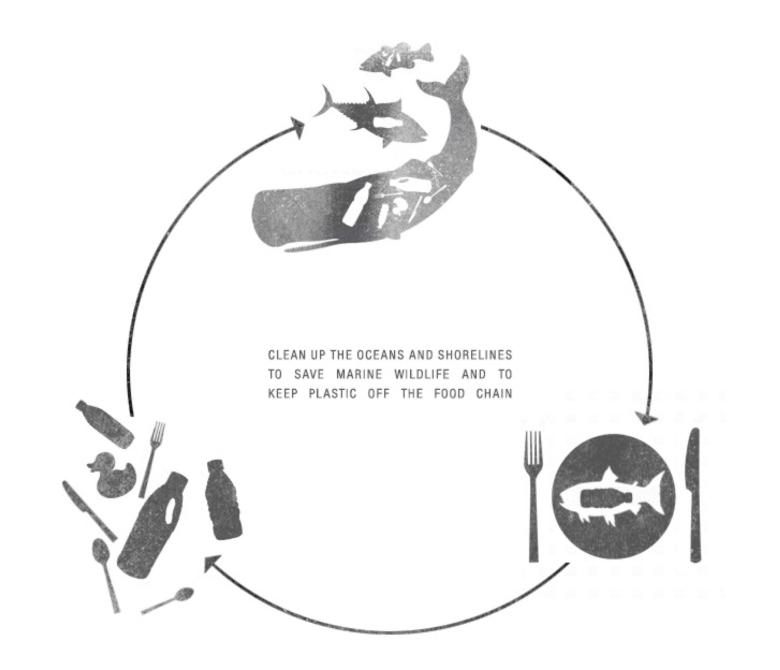


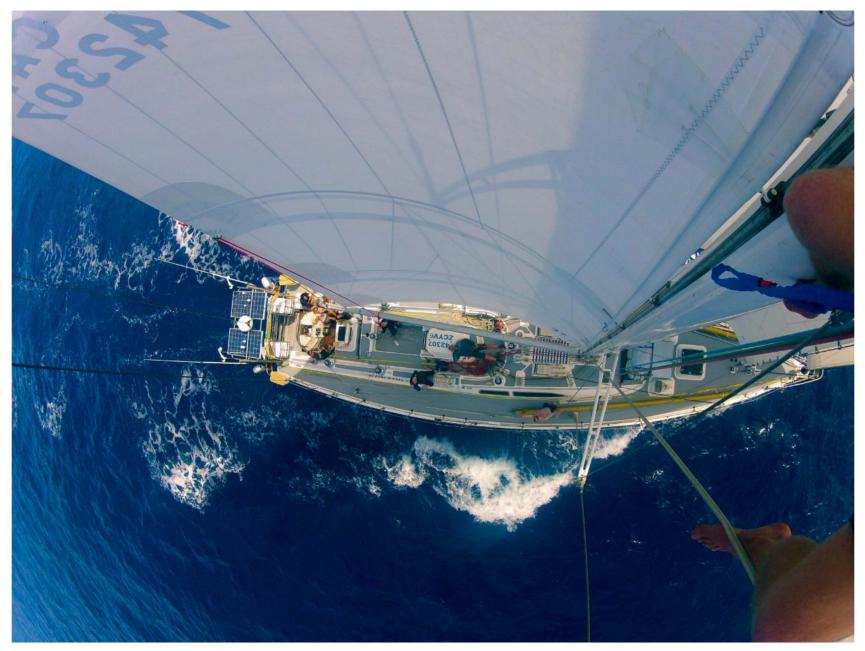
Shower / Bath

These products are 100% microplastic free!

Random sample

Brand/Concern Producer Product name Dr. Hauschka WALA Heilmittel GmbH Rose nurturing bath essence WALA Heilmittel GmbH Dr. Hauschka Almond soothing bath essence WALA Heilmittel GmbH Dr. Hauschka Moor lavender calming bath essence Neal's Yard Remedies Neal's Yard Remedies Nurturing Rose SHAMPOO Neal's Yard Remedies Neal's Yard Remedies Nurturing Rose SHAMPOO **Neal's Yard Remedies** Neal's Yard Remedies Nurturing Rose CONDITIONER Neal's Yard Remedies **Neal's Yard Remedies** Nurturing Rose CONDITIONER Neal's Yard Remedies Neal's Yard Remedies Nurturing Rose SHAMPOO Neal's Yard Remedies Neal's Yard Remedies Nourishing Melissa HAND WASH Neal's Yard Remedies Neal's Yard Remedies create YOUR OWNBATH OILUNFRAGRANCED Neal's Yard Remedies Neal's Yard Remedies Seaweed & Arnica FOAMING BATH **Neal's Yard Remedies** Neal's Yard Remedies Neem HAND MADE SOAP Neal's Yard Remedies Neal's Yard Remedies create YOUR OWNHAIR & BODY WASHUNFRAGRANCED Neal's Yard Remedies Neal's Yard Remedies NYR MEN Invigorating Body Wash Seaweed & Arnica FOAMING BATH Neal's Yard Remedies Neal's Yard Remedies **Neal's Yard Remedies** Neal's Yard Remedies Nourishing Lavender CONDITIONER Neal's Yard Remedies Neal's Yard Remedies Rosemary & Elderflower SHOWER GEL **Neal's Yard Remedies** Neal's Yard Remedies Nourishing Melissa HAND WASH Neal's Yard Remedies Neal's Yard Remedies Seaweed & Arnica FOAMING BATH Neal's Yard Remedies Neal's Yard Remedies Nourishing Lavender SHAMPOO Neal's Yard Remedies Neal's Yard Remedies Seaweed & Arnica FOAMING BATH Neal's Yard Remedies Nurturing Rose CONDITIONER Neal's Yard Remedies Neal's Yard Remedies Neal's Yard Remedies Rose & Pomegranate BATH OIL Neal's Yard Remedies Neal's Yard Remedies Revitalising Orange Flower SHAMPOO Neal's Yard Remedies **Neal's Yard Remedies** Revitalising Orange Flower SHAMPOO Neal's Yard Remedies Neal's Yard Remedies Petitgrain & Lemon SHOWER GEL Neal's Yard Remedies Neal's Yard Remedies Petitgrain & Lemon SHOWER GEL **Neal's Yard Remedies** Neal's Yard Remedies Petitgrain & Lemon FOAMING BATH Neal's Yard Remedies **Neal's Yard Remedies** Petitgrain & Lemon SHOWER GEL Neal's Yard Remedies Neal's Yard Remedies Soothing BATH OIL Neal's Yard Remedies Neal's Yard Remedies Soothing BATH OIL **Neal's Yard Remedies** Neal's Yard Remedies Revitalising Orange Flower CONDITIONER Neal's Yard Remedies Neal's Yard Remedies Revitalising Orange Flower CONDITIONER **Neal's Yard Remedies Neal's Yard Remedies** Rejuvenating Geranium SHAMPOO Neal's Yard Remedies Neal's Yard Remedies Rejuvenating Geranium CONDITIONER **Neal's Yard Remedies** Neal's Yard Remedies Soothing BATH OIL Neal's Yard Remedies Neal's Yard Remedies Refreshing BODY WASH Neal's Yard Remedies Neal's Yard Remedies Petitgrain & Lemon FOAMING BATH Neal's Yard Remedies Neal's Yard Remedies Revitalising Orange Flower SHAMPOO Neal's Yard Remedies Neal's Yard Remedies Rose & Pomegranate BATH OIL

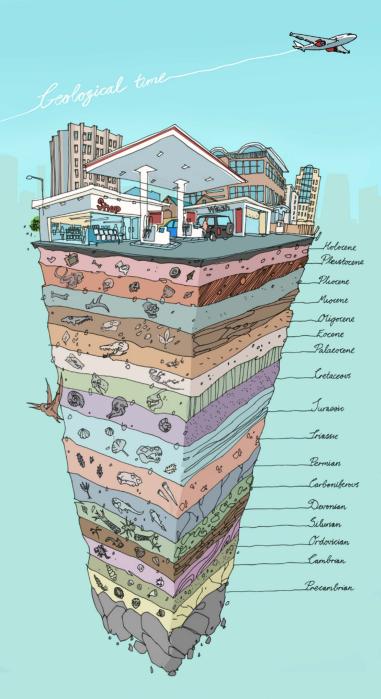




Emily Penn; Sea Dragon documenting the amount of floating debris in the worlds oceans

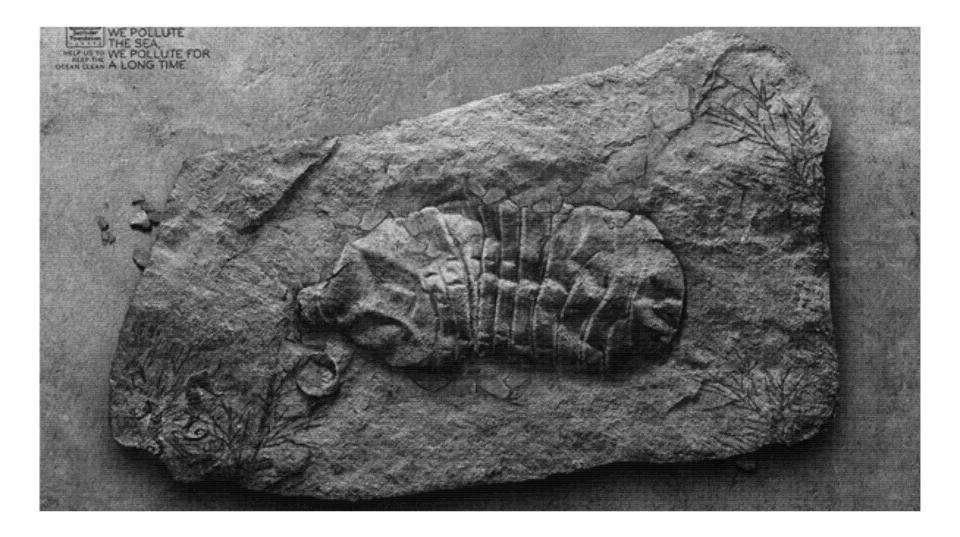


Plutonium from atomic weapons testing, found in soil beginning in 1951, could mark the start of the Anthropocene.



www.dylangibsonillustration.co.uk









PTEMBER 50

MAY







Earl Tupper developed and launched Tupperware 1948



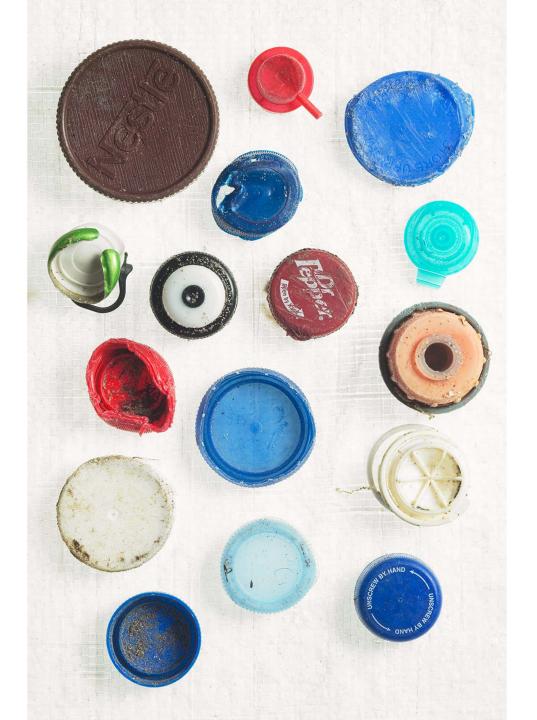


Woolworths 1950



First McDonalds 1955 Des Plaines Illinois





Lids



Straws



Edward Burtynsky: Oil Fields #19abBelridge, California, USA, 2003



Edward Burtynsky: Manufacturing #10abCankun Factory, Xiamen City, China, 2005



Edward Burtynsky: Manufacturing #17Deda Chicken Processing Plant, Dehui City, Jilin Province, China, 2005



Edward Burtynsky: Oxford Tire Piles #8, Westley, California, 1999

"Advertising design, in persuading people to buy things they don't need, with money they don't have, in order to impress others who don't care, is probably the phoniest field in existence today."

<u>Victor Papanek, Design for the Real</u>
<u>World: Human Ecology and Social</u>
<u>Change</u>







Kids Crocs



Tampon applicators



Bottles #1



Bottles #2

Linear economy



make – use - dispose



Problem

- Limited resources
- Increasing cost of resources and energy
- Increasing consumer population
- Increase in middleclass consumers from the developing countries (doubling in size to 5 billion by 2030)



Problem WASTE

- Household food waste
- Industrial beverage processing waste
- Clothing
- Packaging

PEOPLE PLANET PROFIT

Impact on environment





Impact on makers





Impact Disposal



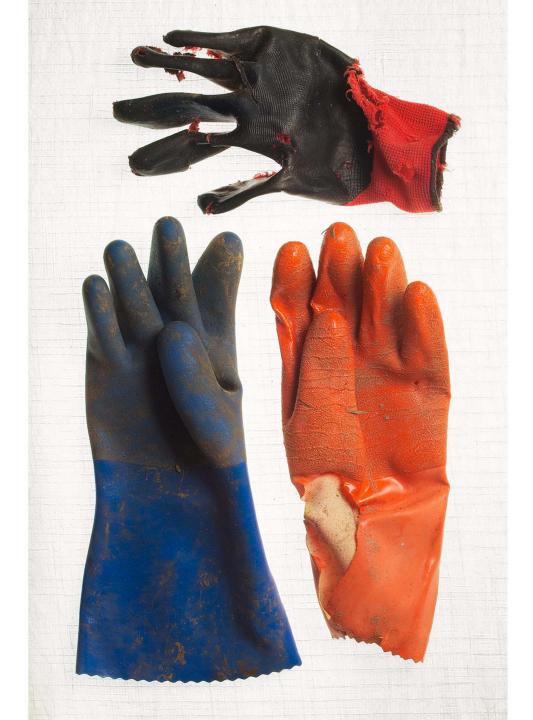












Gloves #1

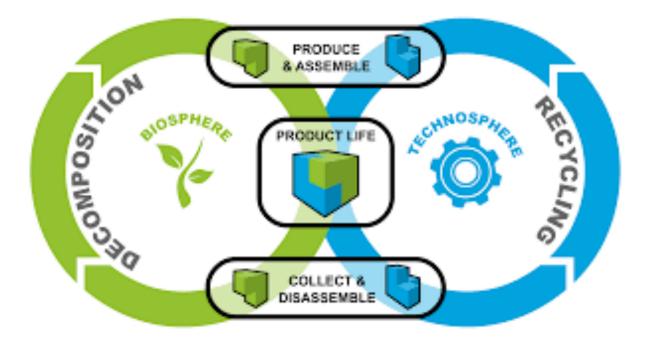




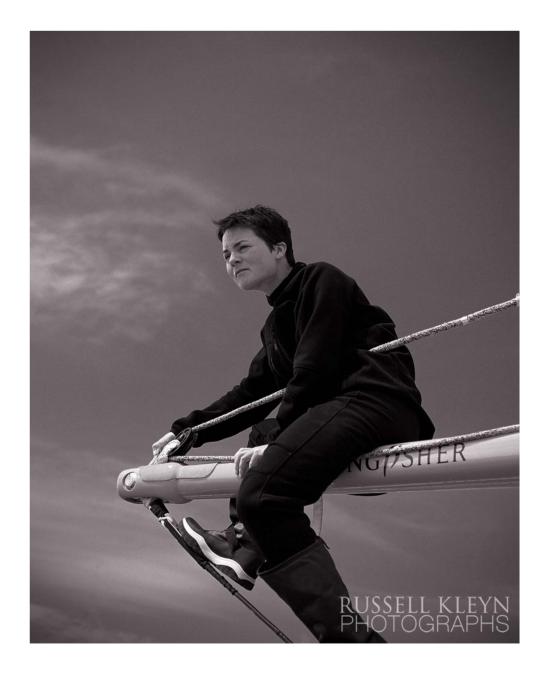
Eye wear #1



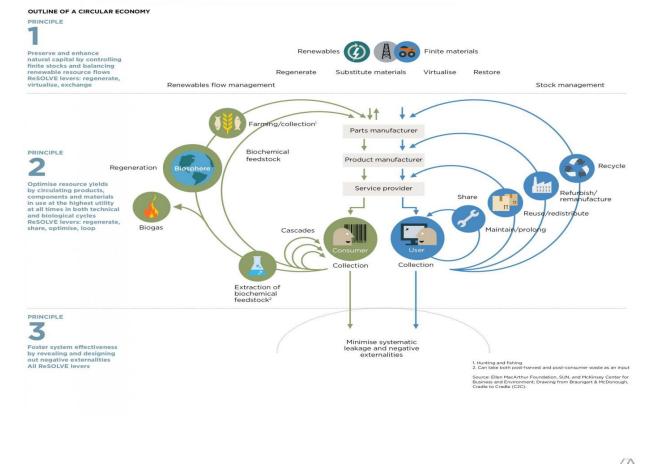
Oral goods







Solution = Circular Economy





սիսիս cisco



Google H.M







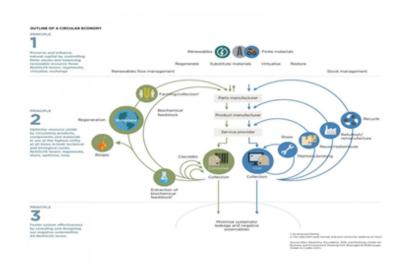


Leasing in place of ownership



The Optimist













Maintain/prolong

The free repair guide for everything, written by everyone.

What would you like to fix today?

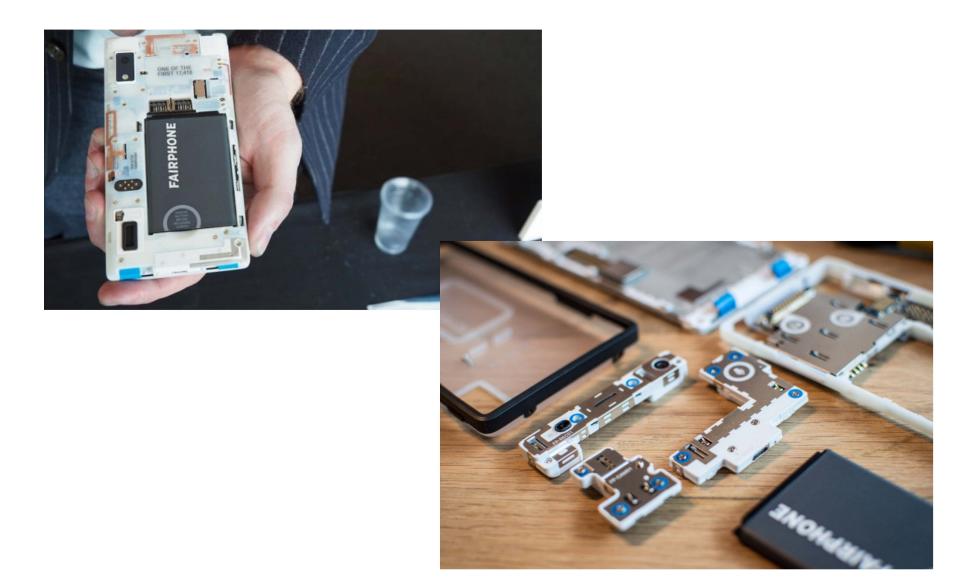


Q



90,220 SOLUTIONS



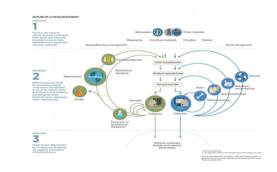




The Pragmatist modular design



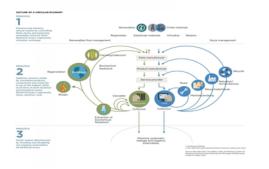




Reuse redistribute





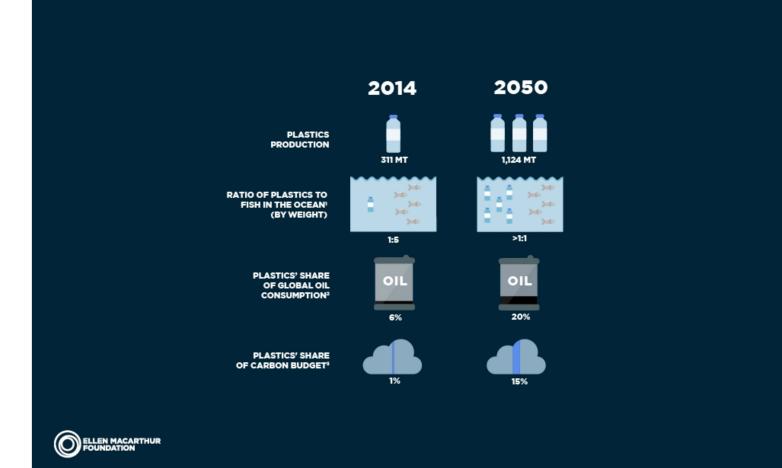


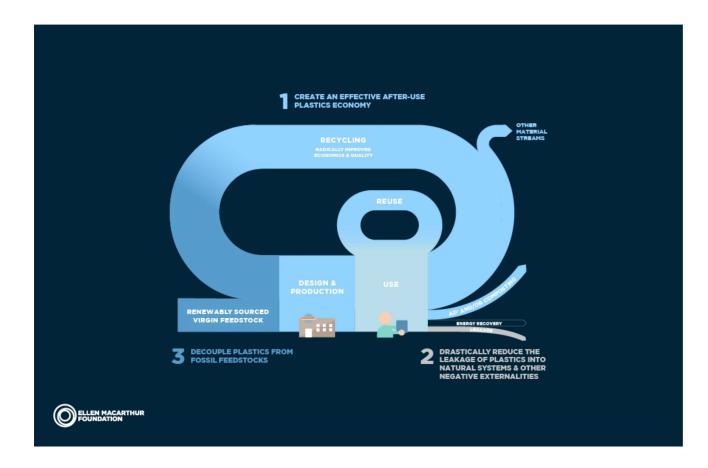
The realist











CORE PARTNERS















Knot #2



Rope Knots















100% REGENERATION

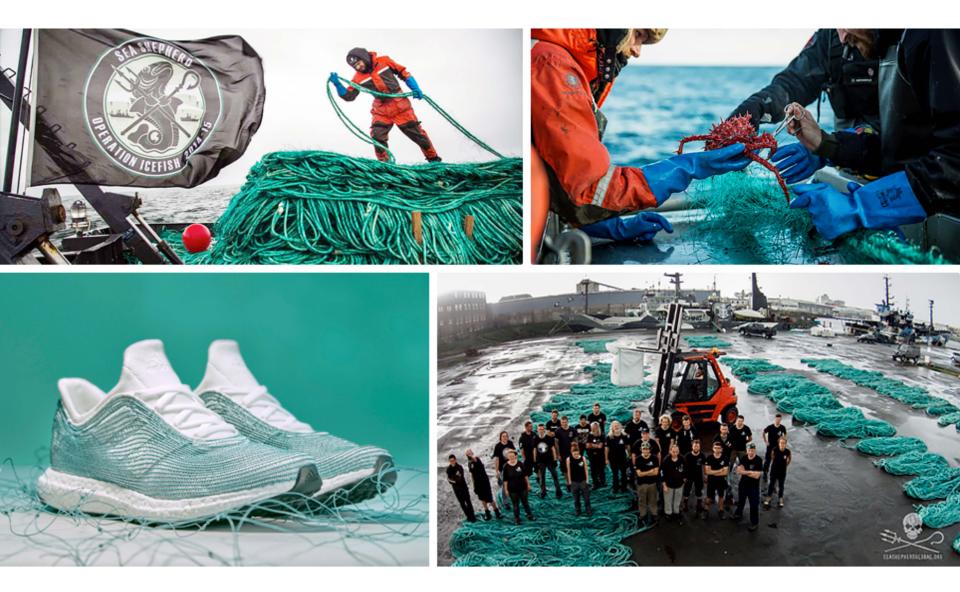
R

100% PERFORMANCE

PARLEY A.I.R STRATEGY

Every second breath we take is generated by the oceans.





#adidasParley









SBIONIC



ABOUT

- EXAM

RAW ESSENTIALS

imes W

Made from the finest Red Listing selvedge denim, featuring fabrics from Kaihara mill in





Notes C.





Designer Ari Jónsson

A Snact package was tested in TIPA's labs to simulate home composting conditions:



Remains of the package after 9 weeks

Remains of the package after 16 weeks

Remains of the package after 24 weeks

"Advertising design, in persuading people to buy things they don't need, with money they don't have, in order to impress others who don't care, is probably the phoniest field in existence today."

<u>Victor Papanek, Design for the Real</u>
<u>World: Human Ecology and Social</u>
<u>Change</u>

RISE ABOVE PLASTICS.

FIND OUT HOW YOU CAN HELP TURN THE TIDE ON PLASTIC POLLUTION AT WWW SURFRIDER.ORG/RAP









Whole Seabream served on a bed of Plastic Bag and Fishing Net, a side of green Pens/Straws and a Crude Oil sauce.

Charlotte Cooper: Level 4 Public awareness campaign to run on social media platforms



Fresh Sprats served on Rope Linguine with Sautéed Balloons

Charlotte Cooper

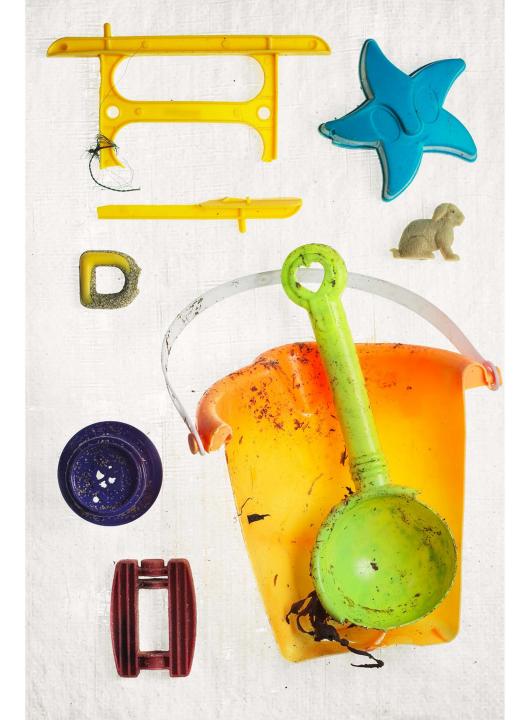




Lighters #1



Balls #1





Toys #2

@UogAIR @TrudieBtyne @DrMichWilliams #UogAIR

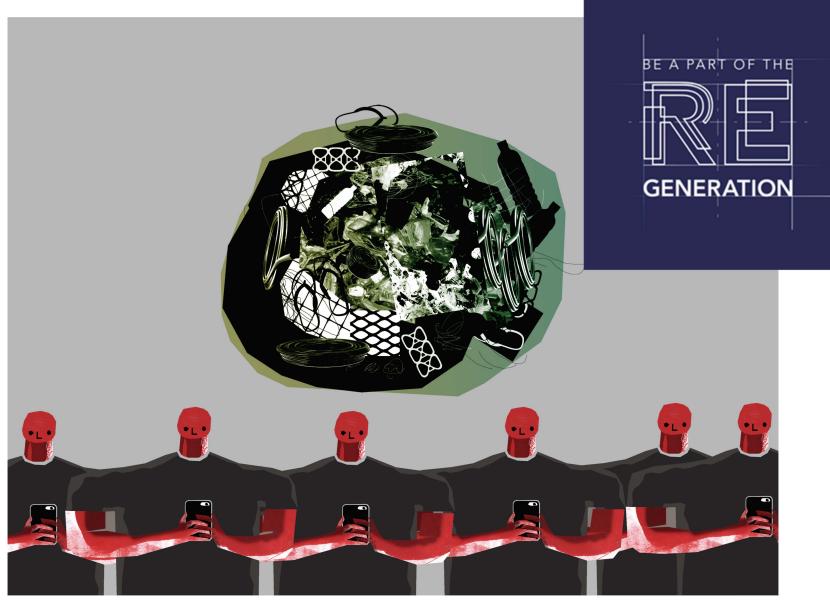


Illustration: Chris Kershaw