Not so fun Facts:

- in 2014 people bought 60% More garments than in
- Fashion production makes up 10% of humanities carbon emissions. More than international flights and maritime shipping combined.
- Fashion production also dies up water sources and pollutes water.
- 85% of textiles go to the dump each year, enough to fill sydney harborn annally.
- washing some types of clottes send therwands of microplastics into the ocean, 500,000 tones each year = 50 billion plastic bottles.
- Zara puts out 24 collections per year and H&m
 Detween 12-16
- The equivilent at one garbage truck of of thes is burred or dumped each recond.
- producing polyester releases two to three times more carbon emissions than cotton, and polyester decs not breakdown.
- fashion industry is the second largest consumer of
- Dying of fabric uses enough water to fill 2 million olympic sized swimming pools per year.

Macarthur Foundation

Make fashion circular initiative

create a new textiles economy, aligned with the principles of the circular economy innovators. Its aim is to stimulate the level of collaboration and innovation necessary to across the fashion industry, including brands, cities, philanthropists, NGOs, and Initiative, at the Copenhagen Fashion Summit. The initiative brings together leaders from In May 2017, Make Fashion Circular was originally launched as the Circular Fibres

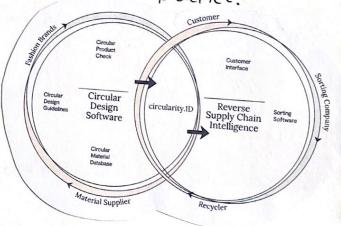
enormous economic opportunity circular system, where we keep safe materials in use, the industry can unlock an fashion industry needs to radically redesign its operating model. By transitioning to a entered its second phase: Make Fashion Circular. To thrive, and not just survive, the One year later, at the 2018 Copenhagen Fashion Summit, the Circular Fibres Initiative

People's Postcode Lottery. Circular has been made possible by C&A Foundation, MAVA Foundation and players of Gap Inc., H&M Group, HSBC, PVH and Stella McCartney as Core Partners. Make Fashion to join forces. Make Fashion Circular brings together industry leaders including Burberry, To really Make Fashion Circular, businesses, governments, innovators, and citizens need

Circular, fashion

- · Circular fashion is a sustainable change agencey a circular economy in fashion and textiles
- A Digital platform for:
 Material suppliers,
 fashion brands and
 recyclers including a
 circular design softCircular design softCircularity. #A IDs for
 garments. this digital
 tag provides transparent
 unformation to users
 and sorters to ensure
 Closed (cop recycling.

- consultancy & training that encourages and enables Restrict brands to encorporate circularity into the core of their bussiness. We provide Industry knowledge and methods that relp brand transition towards circular practice.



Explore each part of the circular.fashion system:

 The Circular Design Software, workshops and sourcing support for fashion brands, enable recyclable product design.

 The circularity.IDs in garments inform customers and sorters to successfully bring them back into the loop by reusing, updating or regenerating into new fibres.

 Our highly innovative recycling partner network ensures that your products of today will become the resources of tomorrow.

Moving towards a circular economy is not an option - it is essential to survive as a business in the future. Be part of the change and join the circular.fashion system.

Sorting software - This is an awesome of the circularity. ID!

The circularity.ID enacts a sorting software where circular garments quickly can be identified at sorting facilities and sent to the matching recycling partner. In the future, the option to bring these recycled textiles back into the production stream will be possible, creating an endless textile loop.

Godis Sustainable Menelopment

8

AND PRODUCTIO 6 CLEAN WATER AND SANITATION 12 RESPONSIBLE CONSUMPTION SUSTAINABLE CITIES
AND COMMUNITIES PARTNERSHIPS FOR THE GOALS 5 GENDER EQUALITY 16 PEACE, JUSTICE AND STRONG INSTITUTIONS 10 REDUCED INEQUALITIES 4 QUALITY EDUCATION 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 3 GOOD HEALTH
AND WELL-BEING 15 LIFE ON LAND DECENT WORK AND ECONOMIC GROWTH 14 LIFE BELOW WATER 2 ZERO HUNGER AFFORDABLE AND 13 CLIMATE ACTION POVERTY

SUSTAINABLE development. Un. 049

Pure Advantage & The Formory

- to champion environmentally focused economic models and bussiness practices as the best way for No to become and remain a world leading. Must society.
- o pure advantage is a facilitator to help bivi businesses adopt more sustainable practices.
- on there website they have many resources surrounding sustainable practices.
- The Formary is an extention of pure advantage. They transform surplus fibres into luxurious fabrics for the home, specialising in the development of the planet.
- o trein textiles include "Wojo" which is made up of wool and Jute repurposed from coffee sacks.

 Juton" which is made up of 40% coffee sacks.

 30% Coffen off cuts and 30% new cotton and "Miby" which is made up of wool and rice straw.

- Alabama Chanin -

- -The Brand began in 2000 with the creation of hand Sewh garments made from cotton tersey T-shirts by founder and slow design pioneer Natalie Chanin. They maintain responsible, ethical the highest Standards for quality
- The school of making is an extention of the brand.
 It is a way of educating people on whatis
- Alabama chanin began as a Diy enterprise. Naturally was born and of this Diy Initiative. They found that to really comment withe workshop allowed beople the unportance of an organic supply chain.
- Alabama chanin are completely pedicated to the ethical and sustainable production of there garments.

"Thought full Design. Responsible Production. Good business.

1 - from Heir Nebsite

perfect way to sum exp the brand and brands stoud be striving for.





- Alabama Chanin -

ways in which trey re-use:

- · Scrap fabrics go unto:
 - often worked into other garments. or become a key comporent of them.
 - decorations
 - Made into wreaths
 - employed practically in mending
 - factored into the fewellery casting
 - bading them to creating seating for areas in the factory.
- · promote "waste Not, want Not"
- · Jell bags of Heir scraps in the school of
- · Mending; Repurpose, Repair, and restone your
 - can develop relationships with chothing.
- · paragónia partnership (2017)
 - repurposing down jackets unto one of
 - once scarfs have reached the end of their life you can trade it in through the paragonia worn near program
- o promote environmentos organisations

Kowtow

Company history

Kowtow is a New Zealand owned and operated fashion label and was founded in 2007 by Gosia Piatek, the brand was created to make positive change in the fashion industry, and only use renewable and sustainable fibres and ethical manufacturing. Piatek doesn't come from a business or fashion background but one day decided after leaving her job that she wanted to create something that can do good in the world. Kowtow started off only selling t-shirts, then moved on to more garments and now sell everything from housewares to underwear.

Nature and place in design the industry

Kowtow has a very special place in the fashion industry as they are incredibly sustainable and ethically focussed. Kowtow is a very transparent company, they share a lot of information about the fabrics they use and where they come from, how ethical they are and many other things on their website. They choose to create collections that are utilitarian, minimal and carry an understated sense of femininity. The kowtow style is very simple and minimalistic focusing more on beautiful colours accompanied by lovely well thought out silhouettes. All of Kowtows garments are produced in India in only 5 factories as Piatek says that these are the only factories she trusts to pay a fair wage and paid breaks etc.

Kowtow's team in New Zealand challenge Piatek to keep the brand's ethical standards high. Kowtow's buttons are all made from recycled hemp. Their parcels are also sent out in recycled card packages. Kowtow hasn't yet found a source of sustainable, ethically produced zips, so Kowtow clothing doesn't use them. They come up with inventive design solutions to replace the zip.

⁻ piece I wrote for a different paper

how tow &

- o everyday basics made from 100% organic cotton -rainted, won-genetically modified seed.
- of Ethical wool coats are made from a blend of ZQ certified Nz merino and certified Global recycled Standard recycled mylon.
- · Lenzing tencel, a biodegradable fibre made using wood pulp from forest Stewardship council certified forests.
- · Design with longevity in mind
- · Support fair wages, no child labour, gender equality and grower community.
 - · environmentally friendly diges and washes.
 - o Swimwear is made from Econyle (Regenerated nylon)
 - o offer complimentary repairs through their repair
- · Take back program - return unwanted garments for a \$10 voucher.



Maggie Marilyn

Maggie Marilyn are a brand that focus greatly on ethical and sustainable practices and are incredibly aware of the necessity of a move towards circular fashion. They have recently released their sustainability strategy for 2020 and have outlined how they will change the way the do thinks in order to align with the united nations sustainability development goals.

Below is a piece from their website outlining their vision statement and objective targets;

"Vision Statement

To turn the fashion industry around to become circular, transparent, accountable, and empowering. We will leave the world a better place than we found it.

Objectives and Targets

Outlined below are the commitments we are making as a business to achieving our vision. We have split them into the following three categories: People, Planet, and Prosperity."

I believe Maggie Marilyn is a brand with the right idea. When reading through their sustainable strategy it was very clear that they were not just talking about this change but they know how they are going to make these changes.

Relating to circular fashion they have multiple objectives to help them as a brand move more towards becoming circular. Firstly they plan to use at least 30% reused natural fibre in each collection. They also plan to use "10% of total material meterage used in our ready to wear collections to be from repurposed materials.

10% of total material meterage used in our ready to wear collections to be from repurposed older MM garments. (20% of total collections from repurposed material)."

Below is a screenshot of the overall changes they plan to make;

•Planet	Objective	2020 Target			•People				
01.	To remove union sourced untitate forms from our garments	100% of writhete fibres used sourced from post-consumer wase.	Investigate indutions to stopping interostories being industried when are garments are washed.	Educate our risitomers to reduce the machine waiting of their synthetic gamments.	09.	Gender Equality	Work with industry poems and NGO organizations to champion and influence equal pay and	100% of suppliers sign our Supplier Code of Conduct	
02.	To use mrycled network fibres.	Use a minimum of 30% included habital fibres in each collection.					gender vicuality within fathori.	(link) (which rickdes treating all genders equally, and zero tolerance for discretization)	
03.	To use organic cotton	100% of cotton used to be organizally centiled by GOTS (Init)			10.	 By the we mean a safe, health, empowering working emistrement and flar pay? for all staff, manufactures and suppliers. 	Build strong trusting open, and bing listing relationships with all our suppliers.	We will each individual supplier on a briannal bias to ensure they meet our Supplier Code of Conduct, [ink]	100% of suppliers sign our Supplier Code of Conduct first Engage with our NZ manufacturers to engourage
)4.	To use https://posed.nutceriab	30% pl total material meterage uses in our mady to wear collections to the from repurposed materials.	10% of total microsi insterage used in our ready to we ar collections to be from repurposed older PPM garments. (20% of total coffeetions from repurposed malersal)		n.	Frovide access and support for personal and profesional growth	Engige with experts and our elemational suppliers to begin developing education projects for the communities of our suppliers.	Collaborate with aducation providers and reductry poers within New Zealand to create an account collaboration programme.	petroling their mill the NL Live Wage (Ink)
)5.	Ritiotroide chemical use	100% of our texter suppliers to be signed up to our Supplier Cook of Conduct (whele includes parameters around the responsible up of respo	100% of vegio labrars to be an ideal with a repulsible charactal management continuation body.		• Prosperity			A194	
)6.	Perspaniste water usage	Discassing water management with our supply chain to better understand the impacts on water from our binness practices.			12.	 Responsible accountable, and transparers. 	A bi-armual glubally recognised, bushinability report.	Prositive and ongoing operates who transparency with all pur- stakeholders as to how we do- burness including regular website upolities and social media posts.	
)7.	Plannee QHG entitions	Engage with curbon experts to establish what our piveling curbon facilities of a	Enjuge with our legal partners to ensure we are as efficient in possible when transporting our goods to reservice our transport	Incentivity and support all staff to mineriste their curbon ensurons.		NZ Made	100% or all 1994 garments to be muste in NZ excluding our lint wear (link)		
)8.	Entreplay award welfare	Ensure 10000 of our annual product suppliers major the 1991 annual wedge standards (outlined in our SCOCS, (Link)	guaradiod and alsohout	High intersions for became Curbon Nindral certified.	14.	Supporting our bool contributly	Continue to support Sweet Characterist final character and by way of mentioning (link)		



education of through The solitary of the solitary o textile take backs Twoin mulhore mays. that can Brainstorm I deas Designing
garments that a ray she rest I can be easily disassembled how her berdies. re-assembled and Seaport of the seapor

deas Design for transformability.

Design for Dissovensley.

Cero Thansformwaste abinty
pattern
)

Dissasemble
Into a lenge
Hubrice
Sheet of Fabrice

Construction:
- Maker Soluble thread.
- Iron away thread.
- wearing at seams

Create symptoming