



GENERALITAT
VALENCIANA

TOTS
A UNA
VELL

IVACE
INSTITUTO VALENCIANO DE
COMPETITIVIDAD EMPRESARIAL



UNIÓN EUROPEA
Fondo Europeo de
Desarrollo Regional

Una manera de hacer Europa



FOCUS
PYME Y EMPRENDIMIENTO
Comunitat Valenciana

CEEI
ELCHE

CENTRO EUROPEO DE
EMPRESAS INNOVADORAS

"Proyecto cofinanciado por los Fondos FEDER, dentro del Programa Operativo FEDER de la Comunitat Valenciana 2014-2020"

FOCUS 2018

PYME Y EMPRENDIMIENTO
Comunitat Valenciana

"Economía circular"

Marina Baixa

Alfaz del Pi, 2 de Octubre de 2018



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EMPRESAS INNOVADORAS

ECONOMÍA CIRCULAR

OPORTUNIDADES DE EMPRENDIMIENTO EN MEDIO AMBIENTE

NICOLA CERANTOLA
02 Octubre 2018 · 13 horas

ecologing



NICOLA
CERANTOLA

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inspiración · formación · asesoría ·
facilitación
en Economía y Emprendimiento Circular
www.ecologing.es



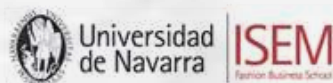
@ecologing

A black and white photograph of a man with a beard and short hair, smiling and holding a book titled "Create your Green Business". He is wearing a dark button-down shirt and jeans. In the background, there is a banner with the text "Project the European Union" and logos for RMI and the Ministry of the Environment. A chair is visible in the foreground.

MENTORIZACIÓN y METODOLOGÍA

A black and white photograph showing a group of people, mostly men, gathered around a large display board or wall. They appear to be looking at and discussing the content on the board. The image is slightly blurred, suggesting a candid moment at a professional event.

ASESORÍA y EXPLORACIÓN



A man with a beard and a wide-brimmed straw hat is shown in profile, looking towards a stone wall. He is wearing a white t-shirt and has a black wristband on his left wrist. His hand is near his chin in a contemplative pose. The background features a rustic stone wall and a structure with a translucent corrugated metal roof supported by wooden beams.

¿QUÉ LES VOY A CONTAR?



ECONOMÍA CIRCULAR





UN INICIO..



UNA AVENTURA

→ बीकानेर

INCERTIDUMBRE

← जैसलमेर

TECNOLOGÍAS
Y
COMODIDADES
POR UN LADO





POCA O
NINGUNA
SEGURIDAD
POR EL OTRO



TECNOLOGÍAS



CAMBIOS SOCIALES



CAMBIOS
AMBIENTALES Y
ECONÓMICOS

A composite image of Earth from space, showing the Americas and surrounding oceans, set against a starry background. The text "¿QUÉ NOS ESPERA?" is overlaid in white.

¿QUÉ NOS ESPERA?



8.000.000.000
EN 2030

A photograph of two women in a rural setting. The woman on the left, wearing a black headwrap and a black top, is holding a black mobile phone and looking at it with a focused expression. The woman on the right, wearing a blue t-shirt, is looking at the phone with a slight smile. They are sitting outdoors on a dirt ground. In the background, there are palm trees and a small yellow building. The text is overlaid in the center of the image.

+1.800.000.000
CONSUMIDORES
DE CLASE MEDIA
EN 2030



DEMANDA

+50%

2030



DEMANDA

+30/40%

2030



DEMANDA

+50%

2030



RECURSOS



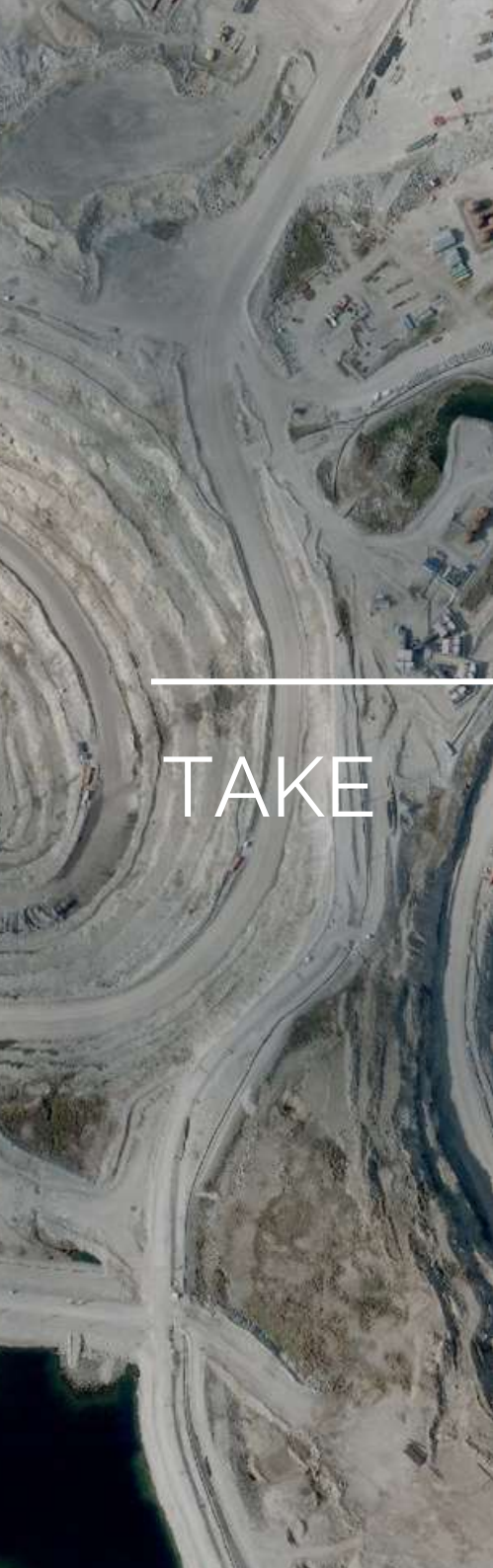
ECONOMÍAS
EMERGENTES



GLOBALIZACIÓN



NUESTRA RELACIÓN CON EL CAPITAL NATURAL



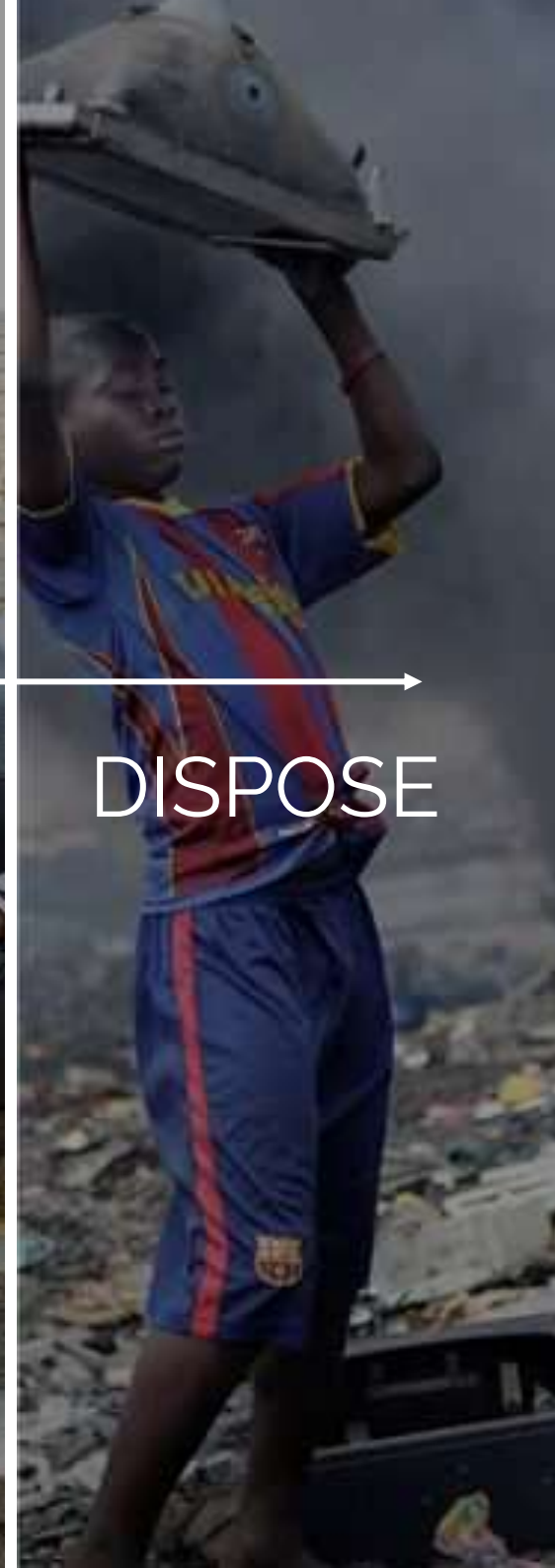
TAKE



MAKE



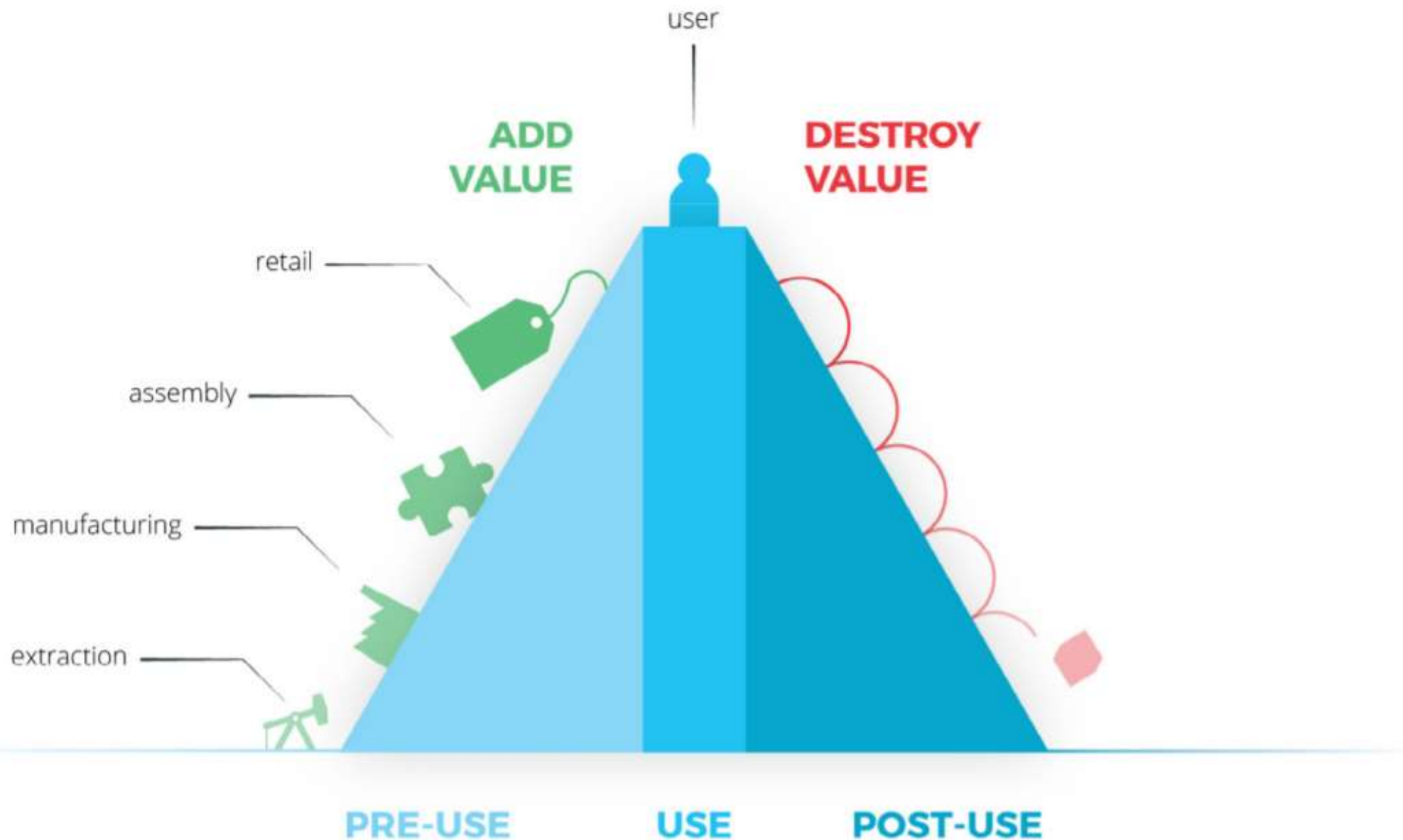
CONSUME



DISPOSE



ECONOMÍA LINEAL



PÉRDIDA DE ECOSERVICIOS



A full-page image of Batman from the 2005 movie "Batman Begins". He is standing in a room with a high, vaulted ceiling, surrounded by a large number of bats flying in all directions. The lighting is dramatic, with strong highlights and shadows. The text is overlaid in the center of the image.

¿AHORRO DE 128.000 EUROS
PARA LA PROTECCIÓN DE
MURCIÉLAGOS?

A man with a white face and dark hair, looking intensely at the camera, with a hand in the foreground.

COSTE:
900.000.000 EUROS
INSECTICIDAS

¿CUÁNTO LES QUEDAN?

FIGURE 10 Supplies of key resources are limited, while recycling rates for many remain low

Many resources are forecasted to run out within a relatively short period...

**Remaining years
until depletion of
known reserves**
(based on current
rate of extraction)

5-50 years
50-100 years
100-500 years

1 H 1.0079																	2 He 4.0026
3 Li 6.941	4 Be 9.0122											5 B 10.811	6 C 12.011	7 N 14.007	8 O 15.999	9 F 18.998	10 Ne 20.180
11 Na 22.990	12 Mg 24.305											13 Al 26.982	14 Si 28.086	15 P 30.974	16 S 32.065	17 Cl 35.453	18 Ar 39.948
19 K 39.098	20 Ca 40.078	21 Sc 44.956	22 Ti 47.867	23 V 50.942	24 Cr 51.996	25 Mn 54.938	26 Fe 55.845	27 Co 58.933	28 Ni 58.693	29 Cu 63.546	30 Zn 65.38	31 Ga 69.723	32 Ge 72.64	33 As 74.922	34 Se 78.96	35 Br 79.904	36 Kr 83.798
37 Rb 85.468	38 Sr 87.62	39 Y 88.906	40 Zr 91.224	41 Nb 92.906	42 Mo 95.94	43 Tc [98]	44 Ru 101.07	45 Rh 102.91	46 Pd 106.42	47 Ag 107.87	48 Cd 112.41	49 In 114.82	50 Sn 118.71	51 Sb 121.76	52 Te 127.60	53 I 126.90	54 Xe 131.29
55 Cs 132.91	56 Ba 137.33	57 La [†] 138.905	72 Hf 178.49	73 Ta 180.95	74 W 183.84	75 Re 186.21	76 Os 190.23	77 Ir 192.22	78 Pt 195.08	79 Au 196.97	80 Hg 200.59	81 Tl 204.38	82 Pb 207.2	83 Bi 208.98	84 Po [209]	85 At [210]	86 Rn [222]
87 Fr [223]	88 Ra [226]	89 Ac [†] [227]	104 Rf [261]	105 Db [262]	106 Sg [266]	107 Bh [264]	108 Hs [277]	109 Mt [268]	110 Ds [271]	111 Rg [272]	112 Uub [285]	113 Uut [284]	114 Uuq [289]	115 Uup [288]	116 Lv [293]	117 Uus [293]	118 Uuo [294]
Lanthanides *			58 Ce 140.12	59 Pr 140.91	60 Nd 144.24	61 Pm [145]	62 Sm 150.36	63 Eu 151.96	64 Gd 157.25	65 Tb 158.93	66 Dy 162.50	67 Ho 164.93	68 Er 167.26	69 Tm 168.93	70 Yb 173.05	71 Lu 174.97	
Actinides †			90 Th 232.04	91 Pa 231.04	92 U 238.03	93 Np [237]	94 Pu [244]	95 Am [243]	96 Cm [247]	97 Bk [247]	98 Cf [251]	99 Es [252]	100 Fm [257]	101 Md [258]	102 No [259]	103 Lr [262]	

¿QUÉ HACEMOS CON ELLOS?

...while only few materials are recycled at scale

Current rates
of recycling

<1%
1-10%
10-25%
25-50%
>50%
No data available

1 H 1.0079																	2 He
3 Li 6.941	4 Be 9.0122											5 B 10.811	6 C 12.011	7 N 14.007	8 O 15.999	9 F 18.998	10 Ne 20.180
11 Na 22.990	12 Mg 24.305											13 Al 26.981	14 Si 28.086	15 P 30.974	16 S 32.065	17 Cl 35.453	18 Ar 39.948
19 K 39.098	20 Ca 40.078	21 Sc 44.956	22 Ti 47.867	23 V 50.942	24 Cr 51.996	25 Mn 54.938	26 Fe 55.845	27 Co 58.933	28 Ni 58.693	29 Cu 63.546	30 Zn 65.38	31 Ga 69.723	32 Ge 72.64	33 As 74.922	34 Se 78.96	35 Br 79.904	36 Kr 83.798
37 Rb 85.468	38 Sr 87.62	39 Y 88.906	40 Zr 91.224	41 Nb 92.906	42 Mo 95.96	43 Tc [98]	44 Ru 101.07	45 Rh 102.91	46 Pd 106.42	47 Ag 107.87	48 Cd 112.41	49 In 114.82	50 Sn 118.71	51 Sb 121.76	52 Te 127.60	53 I 126.90	54 Xe 131.29
55 Cs 132.91	56 Ba 137.33	57 La 138.905	72 Hf 178.49	73 Ta 180.95	74 W 183.84	75 Re 186.21	76 Os 190.23	77 Ir 192.22	78 Pt 195.08	79 Au 196.97	80 Hg 200.59	81 Tl 204.38	82 Pb 207.2	83 Bi 208.98	84 Po [209]	85 At [210]	86 Rn [222]
87 Fr [223]	88 Ra [226]	89 Ac†	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Uub	113 Uut	114 Uuq	115 Uup	116 Lv	117 Uus	118 Uuo

Lanthanides *

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Actinides †

The background of the image consists of several Euro banknotes. A 100 Euro note is prominently visible in the foreground, showing the number '100' and the European Union flag. Other banknotes, including a 50 Euro note, are visible in the background, slightly out of focus.

PÉRDIDA EN
CALIDAD Y CANTIDAD
= COSTE

O MEJOR DICHO
= **ECOCOSTES**

accepted the deal, brokered by UN
envoy Kofi Annan, calls for a
political solution.
came as bullets
area of Lebanon
seen at the
Assad visited
where hund
loyalist force



INDONESIA: A protester aims a nokia at riot police in Jakarta yesterday during the latest in a week-long string of protests across the country against plans to raise fuel prices.

FIGURE 26 Overview of selected products—prices and costs in linear production

CRÉDITOS:
FOUNDATION ELLEN MCARTHUR

¿CUÁNTO DEPENDEMOS DE LOS MATERIALES?

	Mobile phone ¹		Smartphone ¹		Light commercial vehicle ¹		Washing machine ¹	
	USD	Percent	USD	Percent	USD	Percent	USD	Percent
Price ²	36	100%	400	100%	41,400	100%	970	100%
Input costs ³	27	75%	228	57%	39,730	96%	832	86%
Material	16	44%	128	32%	22,760	55%	437	44%
Labour	2	6%	29	7%	4,140	10%	223	23%
Energy	2	6%	2	1%	680	2%	18	2%
Other ⁴	7	19%	69	17%	12,150	29%	155	16%

1 Data is a standardised composite blend of 3 to 7 products
2 Excluding VAT and retail margin
3 Costs in final production; energy and labour costs in upstream activities partially embedded in material
4 Other includes SG&A; also includes R&D costs for light commercial vehicles

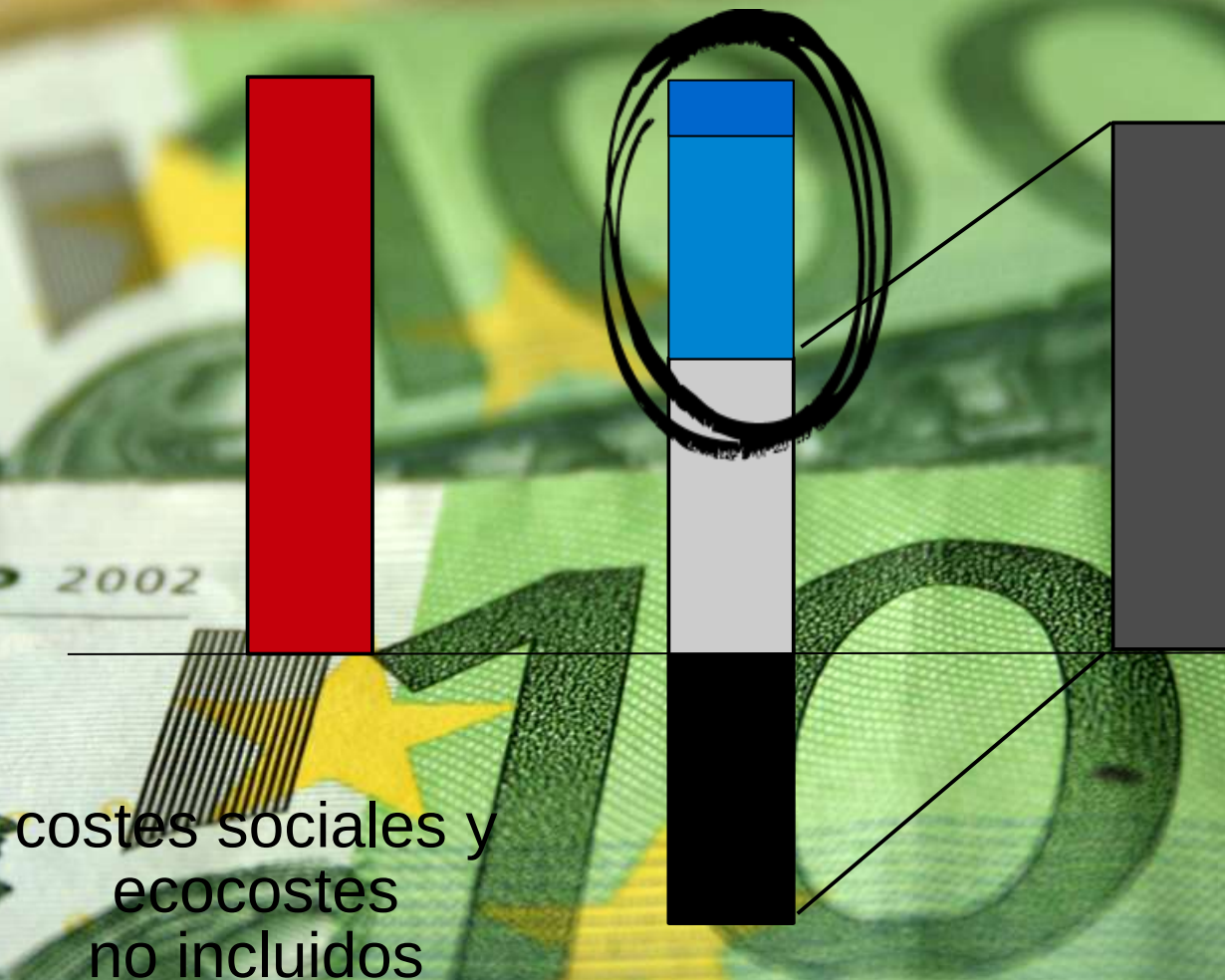
SOURCE: Credit Suisse, 'Smartphone report', broker report, August 2009; Bloomberg financial data; Pranshu Singhal, Integrated product policy pilot project, stage I final report: life cycle environmental issues of mobile phones, Nokia report, April 2005; Ina Rüdenauer et al., Eco-Efficiency Analysis of Washing Machines, Öko-Institut working paper, November 2005; Ellen MacArthur Foundation circular economy team

EXTERNALIZACIÓN

precio

coste actual

coste real



**UNA PRESIÓN
CRECIENTE EN TÉRMINOS DE COSTES
RELACIONADOS CON ENERGÍA Y RECURSOS**

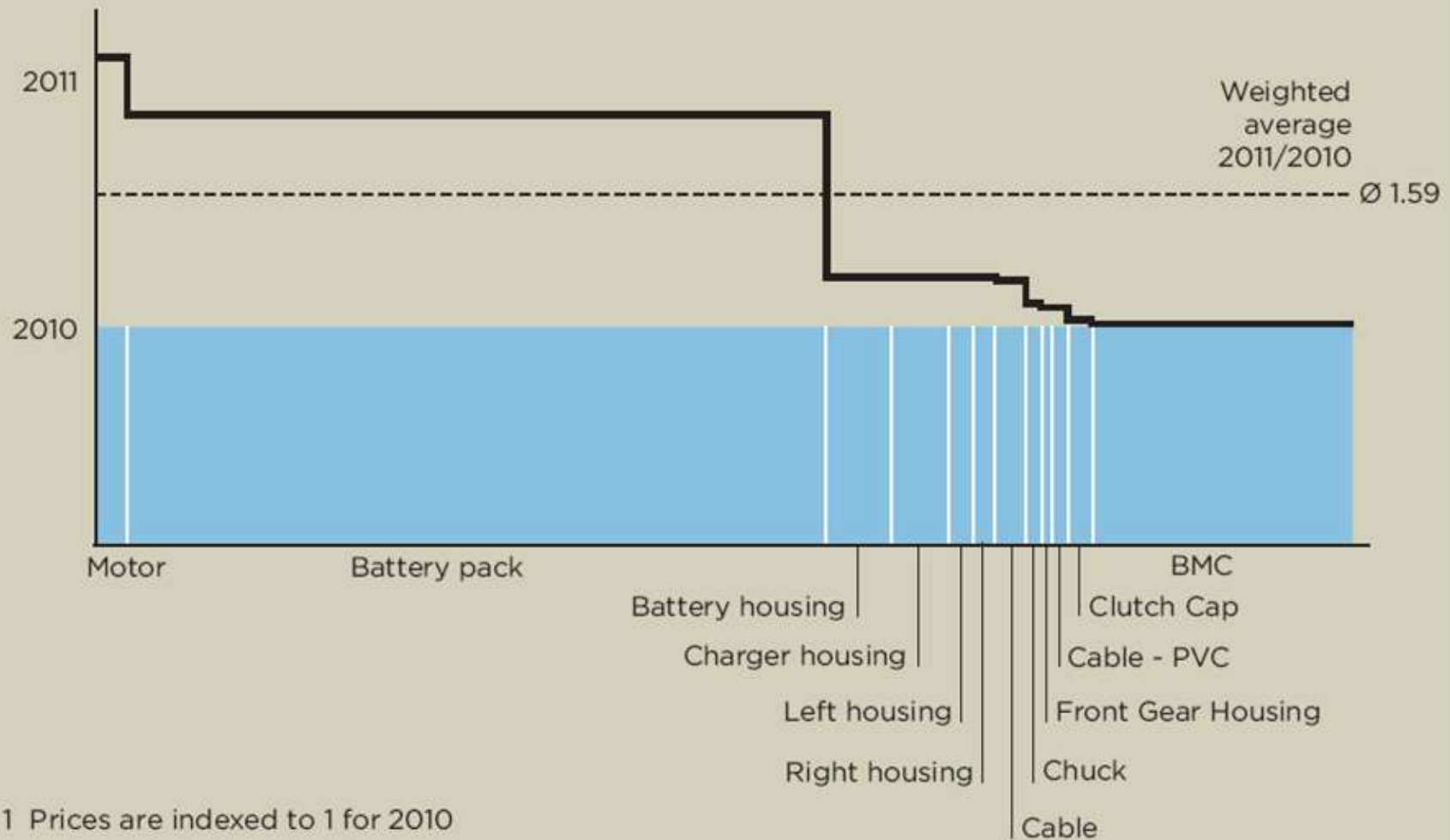
HABLAMOS 2020..2030

FIGURE 8

The price went up for most components of the 14.4V drill drive between 2010 and 2011

+ 59%

Indexed price¹



1 Prices are indexed to 1 for 2010

Components shown represent 95% of the material costs

SOURCE: B&Q/Kingfisher 14.4V power drill component price data



NOS SALVARÁ LA
TECNOLOGÍA?

The background of the image consists of several Euro banknotes. A 100 Euro note is prominently featured in the foreground, showing the large number '100' and the European Union flag. Below it, a 20 Euro note is partially visible, showing the number '20' and the text 'EKT EKP 2002'. The notes are slightly out of focus, creating a sense of depth.

**¿QUÉ PODEMOS HACER PARA REDUCIR
LOS RIESGOS RELACIONADOS CON LOS
RECURSOS?**



INCLUIR **PRINCIPIOS
REGENERATIVOS** EN LA FASE DE
CONCEPCIÓN DE PRODUCTOS,
SERVICIOS Y NEGOCIOS

WHAT?



TE REFIERES A..

..DISEÑO
SOSTENIBLE?





EXAMPLE

a real example

99% recyclable

37% recycled

disassemblable in

15'

no toxics

cert. c2c gold

hermanmiller.com



 **HermanMiller**

HACIA INCLUSIVOS

NUEVOS

ENFOQUES

**DISEÑO
SOSTENIBLE**

ecodiseño
criterios
ambientales

social design
criterios
sociales

funcionali-
dad

estética

ergonomí-
a

calidad

seguridad

manu-
factu-
rabilidad

costes

**Producto
/
Servicio**





INSPIRACIÓN



BIOMIMÉTICA









<https://www.sharklet.com/>

No antimicrobials. No chemicals. Just Sharklet.

Sharklet is the world's first technology to inhibit bacterial growth through pattern alone. The Sharklet surface is comprised of millions of microscopic features arranged in a distinct diamond pattern. The structure of the pattern alone inhibits bacteria from attaching, colonizing and forming biofilms. Sharklet contains no toxic additives or chemicals, and uses no antibiotics or antimicrobials.

Sharklet draws inspiration from the shape and pattern of the dermal denticles of sharkskin. Sharks are resistant to fouling organisms in the water including algae and barnacles.

A blue-tinted photograph of a shark swimming underwater, viewed from below. The shark is in the lower right, moving towards the upper left. The water has a textured, wavy appearance.

INSPIRED BY NATURE

SHARKLET'S MICROPATTERN MIMICS
THE FORM AND FUNCTION OF SHARKSKIN







A close-up, top-down view of a sliced kiwi fruit. The image shows a radial pattern of dark, oval-shaped seeds arranged in concentric circles around a central, lighter-colored core. The kiwi flesh is a vibrant green color. The text "PRINCIPIOS BIOINSPIRADOS" is overlaid in the center of the image.

PRINCIPIOS BIOINSPIRADOS

PRINCIPIOS BIOINSPIRADOS

ADAPTACIÓN

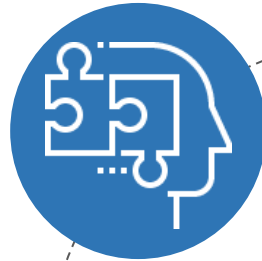
DISEÑO PARA EL CAMBIO

Presión selectiva

Genes "resbaladizos"

Dispersión o concentración

Forma activa



RESISTENCIA

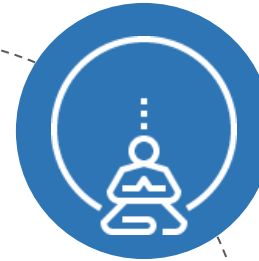
DISEÑO PARA LA INCERTIDUMBRE

Eficiencia o resiliencia

Sucesión ecológica

Estructura dinámica

"Capas" vivos



RELACIONES

DISEÑO PARA LOS SISTEMAS

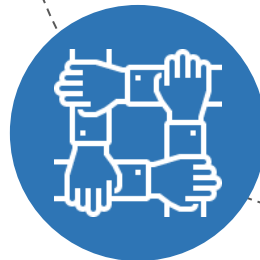
Especies fundamentales

Mutualismo

Ingeniería Autogénica

Ingeniería Alogénica

Estrategia emergente



COMUNICACIÓN

DISEÑO PARA LOS SISTEMAS

Reglas sencillas

Redes emergentes

Señales contextuales

Indicadores pasivos



PRINCIPIOS BIOINSPIRADOS



RESISTENCIA

DISEÑO PARA LA INCERTIDUMBRE

Eficiencia o resiliencia

Sucesión ecológica

Estructura dinámica

"Capas" vivos

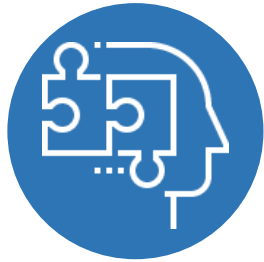


PREGUNTAS PARA NOSOTROS

¿Estamos en una condición estable o impredecible?

¿Podría nuestro sistema beneficiarse de la descentralización, diversidad y redundancia para aumentar la resiliencia?

PRINCIPIOS BIOINSPIRADOS



ADAPTACIÓN

DISEÑO PARA EL CAMBIO

Presión selectiva

Genes “resbaladizos”

Dispersión o concentración

Forma activa



Tipo r



Tipo k

PREGUNTAS PARA NOSOTROS

¿Las condiciones actuales sugieren que dispersamos un gran número de opciones, o comprometerse con una sola idea bien cuidada?

¿Qué nivel de compromiso se requerirá de nuestro diseño?

¿Cómo podría nuestro diseño valerse por sí mismo?

PRINCIPIOS BIOINSPIRADOS



COMUNICACIÓN

DISEÑO PARA LOS SISTEMAS

Reglas sencillas
Redes emergentes
Señales contextuales
Indicadores pasivos



PREGUNTAS PARA NOSOTROS

¿¿Cómo podría ser el estado del sistema o la salud?
comunicado automáticamente?

¿Cuáles son los "camarones de salmuera" en nuestro sistema?

¿Hay indicadores pasivos en nuestro sistema?

PRINCIPIOS BIOINSPIRADOS



RELACIONES

DISEÑO PARA LOS SISTEMAS

Especies fundamentales

Mutualismo

Ingeniería Autogénica

Ingeniería Alogénica

Estrategia emergente



PREGUNTAS PARA NOSOTROS

¿Hay elementos claves -personas, lugares o cosas- en nuestros sistemas? ¿Qué podríamos hacer para aumentar su efecto?
¿Cómo estabilizan otros elementos en el sistema?



produce color



Search powered by  algolia

<https://asknature.org/>



BIOLOGICAL STRATEGIES

Nature's refined solutions, mapped to your design challenges.



INSPIRED IDEAS

Design solutions to human challenges, inspired by biological strategies.



RESOURCES

Everything you need to learn and teach about biomimicry and life centered design.



COLLECTIONS

Themed clusters of strategies, ideas, and resources, curated by you.

STRATEGY

Surface allows self-cleaning

Sacred Lotus



AskNature Team



December 10, 2015



Shared with everyone

PROTECT FROM DIRT/SOLIDS

PROTECT FROM EXCESS LIQUIDS

Leaves of the sacred lotus are self-cleaning thanks to





CICLOS CERRADOS

RESIDUO = NUTRIENTE*



***NUTRIENTE?**





METABOLISMO BIOLÓGICO





METABOLISMO TÉCNICO





¿RE-CICLAJE?

LINEAR ECONOMY



TECHNICAL & BIOLOGICAL MATERIALS MIXED UP

ENERGY FROM FINITE SOURCES

© 2019 ELLEN MACARTHUR FOUNDATION



ELLEN MACARTHUR FOUNDATION
Rethink the Future

WWW.ELLENMACARTHURFOUNDATION.ORG/EDUCATION

CIRCULAR ECONOMY



ENERGY FROM RENEWABLE SOURCES

PRINCIPLES OF A CIRCULAR ECONOMY

WASTE = FOOD
DIVERSITY = STRENGTH
ENERGY = RENEWABLES
PRICE = REAL COST

BIOLOGICAL MATERIALS
SAFELY ENRICHES
NATURAL SYSTEMS



TECHNICAL MATERIALS DO NOT
COMPROMISE, THE PRODUCTS ARE
MADE TO BE MADE AGAIN



EJEMPLO



99% reciclable

37% reciclada

Desarma en 15'

No tóxicos

Certificada

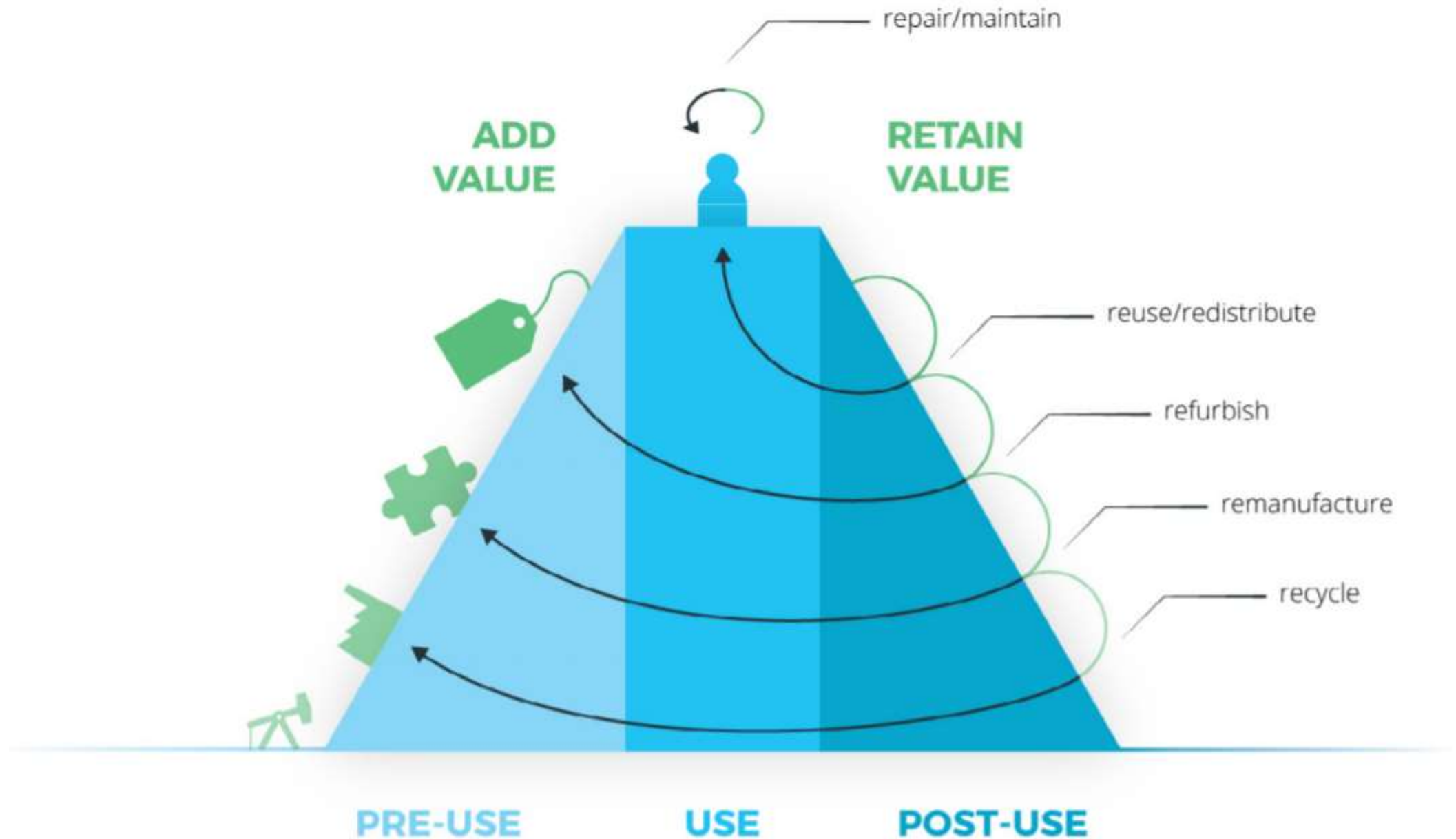
c2c gold

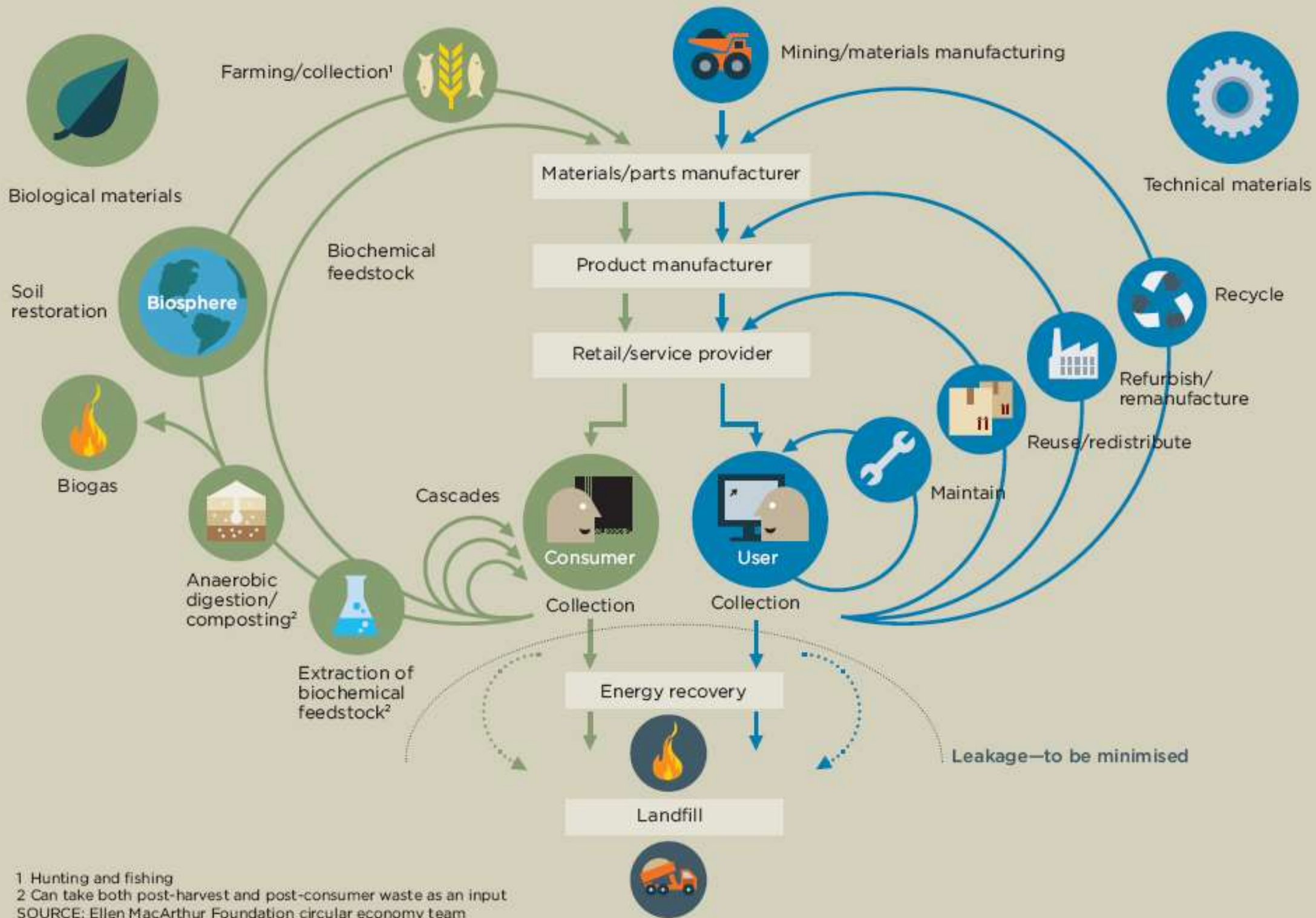
hermanmiller.com



 **HermanMiller**

ECONOMÍA CIRCULAR





A black and white photograph of a man in a suit and sunglasses, holding a glowing sword, with the text '¿CÓMO LA LLEVAMOS A LA PRÁCTICA?' overlaid.

¿CÓMO LA LLEVAMOS A LA PRÁCTICA?



DISEÑO
CIRCULAR

ed to fade the fabric

ensity of the laser can be controlled and
d. This enables us to create a variety of
s with different authentic or artistic
ions and looks.

JEANOLOGIA

WWW.JEANOLOGIA.COM

Customized wash pattern



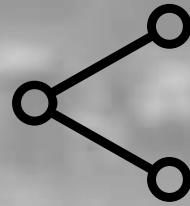


FLUX

WWW.FLUXFURNITURE.COM



<http://www.ctechinnovation.com/funded-projects/wear2-microwave-textile-disassembly/>



USO **MAXIMIZADO** y
COMPARTIDO DE
RECURSOS

Average car occupancy comparison

1.7
People



Car

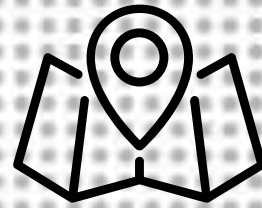
2.8
People



BlaBlaCar



Average car occupancy is 1.6 in the UK, 1.7 in Italy & Spain, and 1.8 in France. BlaBlaCar occupancy is 2.8, that's **157% more passengers**.



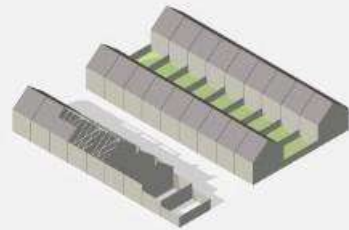
PRODUCCIÓN-CONSUMO
ONDEMAND
A “**kmCASICERO**”



Pre

Manual
Distributed

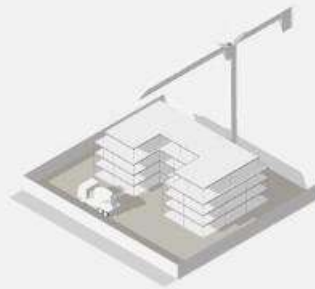
On-demand / direct



1st

Manual
Centralised

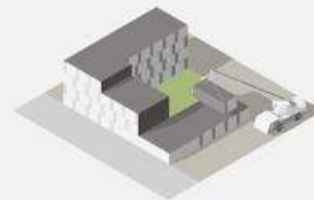
Speculative



2nd

Mechanical
Centralised

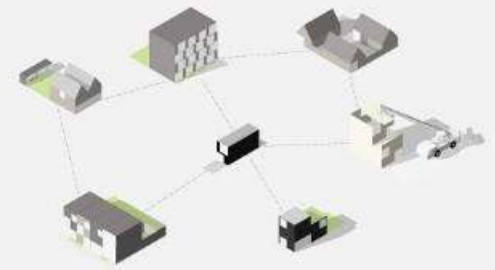
Speculative



3rd

Digital
Centralised

Speculative

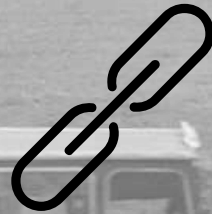


4th

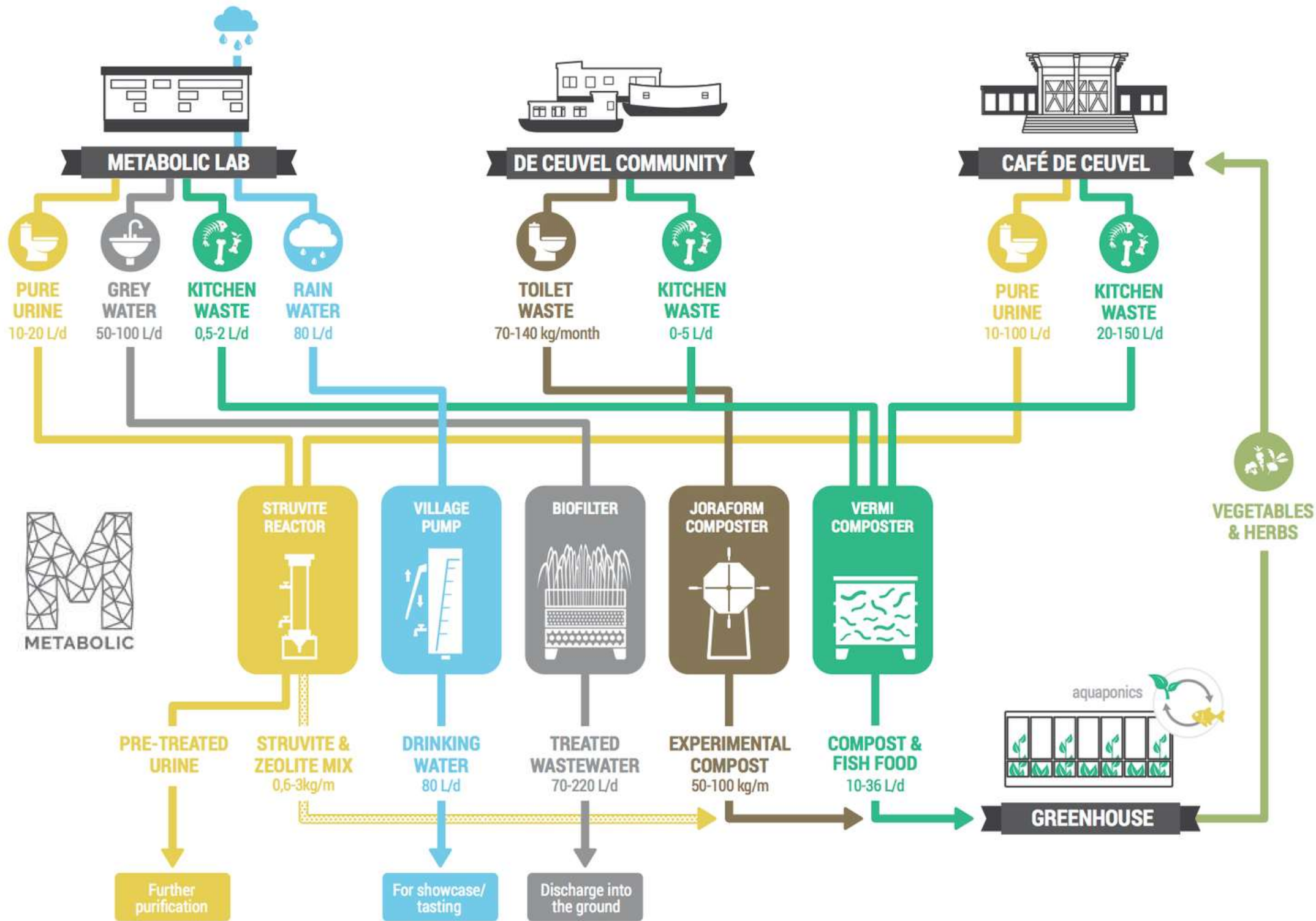
Digital
Distributed

On-demand / direct





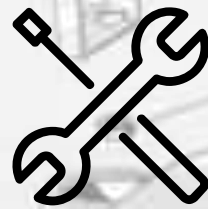
CADENA DE VALOR CIRCULAR
**(COCREACIÓN Y COLABORACIÓN
MULTINIVEL)**





CERVEZA DE “PAN” <http://www.toastale.com/>

EDSPEED - VESPA HEADSET
, PE



DISEÑO EN ABIERTO Y PARA LA
DURABILIDAD
MAKERS + **FIXERS**

WWW.IFIXIT.COM



**The free repair guides for
everything, written by**

[Find a Repair Guide](#)

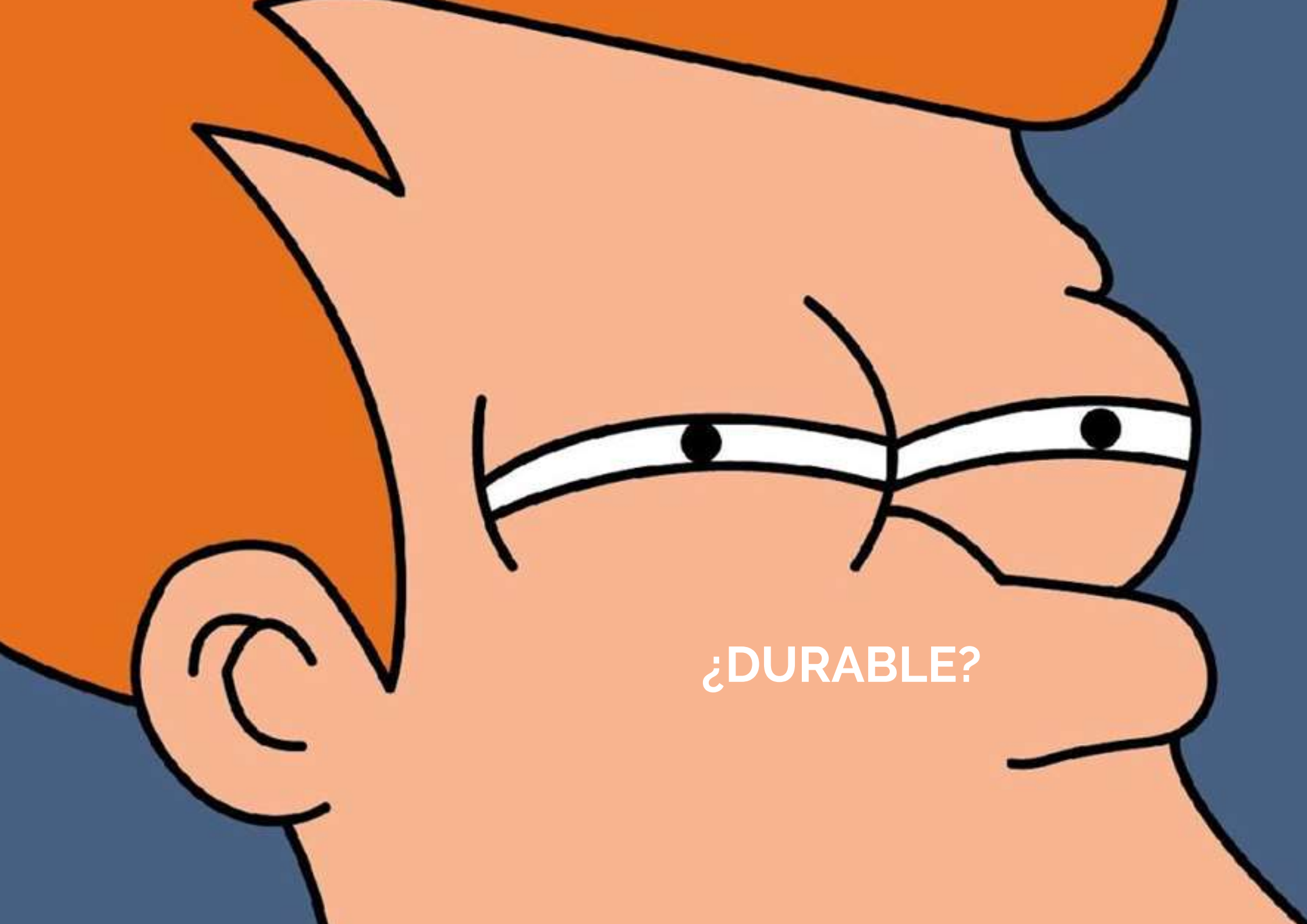
[Shop Parts & Tools](#)

We took apart the all-new OnePlus One smartphone!

[Check It Out >](#)



¿REPARABLE?



¿DURABLE?



FOX

Patadas Voladoras®

Tus muletas ecológicas



MODELO DE NEGOCIO DE LA EMPRESA

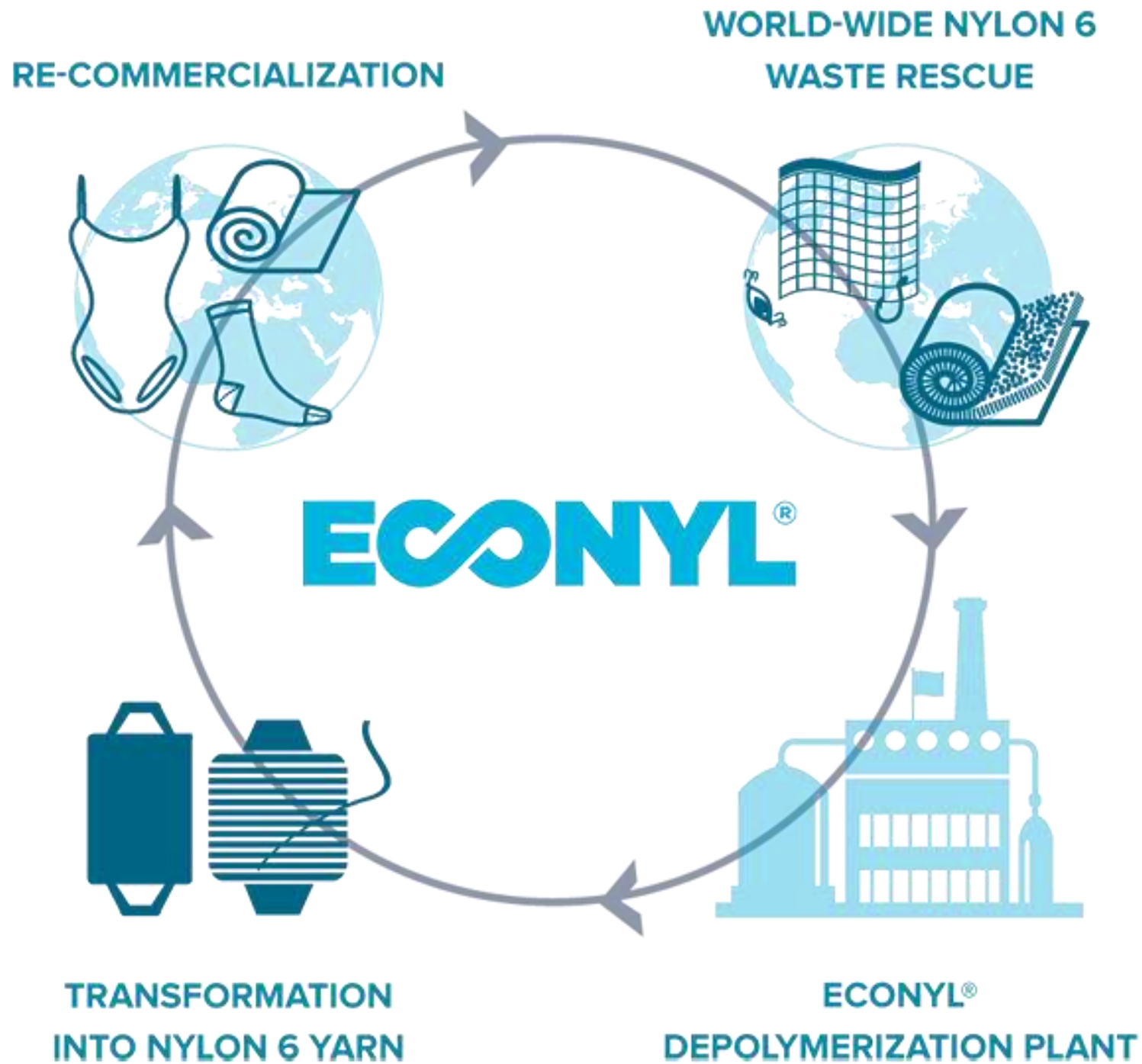


producto
/ servicio

sociedad y medio
ambiente







MODELO DE NEGOCIO DE LA EMPRESA

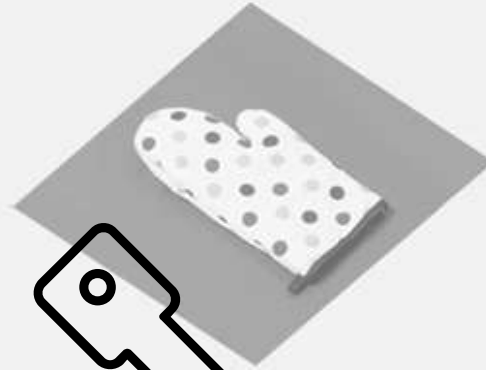


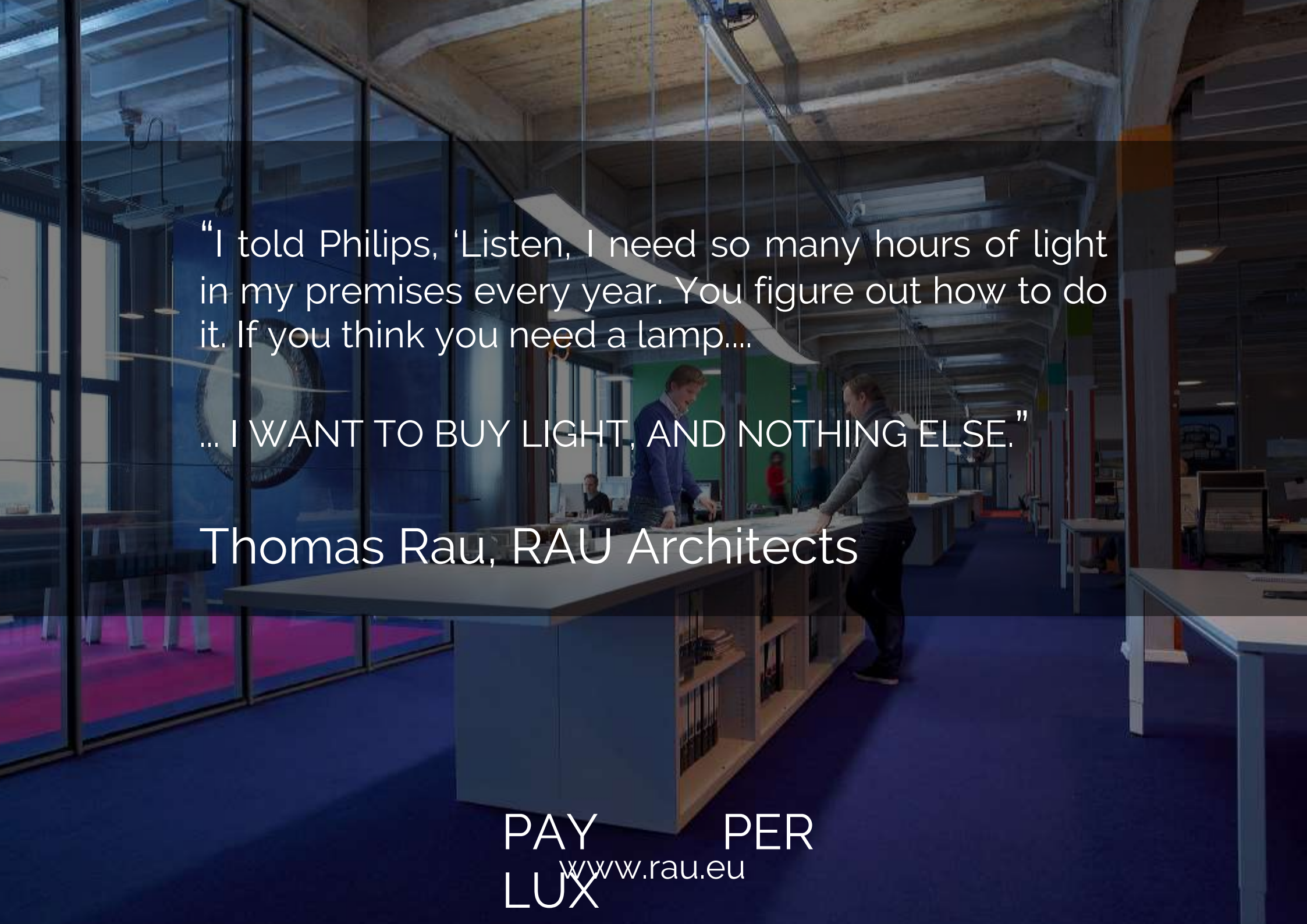
producto
/ servicio

sociedad y medio ambiente



DE PROPIEDAD A **ACCESO/USO**
(SERVITIZACIÓN)





"I told Philips, 'Listen, I need so many hours of light in my premises every year. You figure out how to do it. If you think you need a lamp...."

... I WANT TO BUY LIGHT, AND NOTHING ELSE."

Thomas Rau, RAU Architects

PAY PER
LUX www.rau.eu



<http://www.agencyofdesign.co.uk/>





pay member fee
(1st month, one time)



receive your jeans



monthly fee
(for 12 months)

AFTER 12 MONTHS, WE SEND YOU AN EMAIL WITH 3 CHOICES:

keep them
still like them?



they're yours now. take them
with you wherever you go

switch them
ready for a new pair?



pay 'switching' fee
(1st month, one time)



send us your old jeans
and receive the new ones



7,50
monthly fee
(for 12 months)

send back
done wearing?



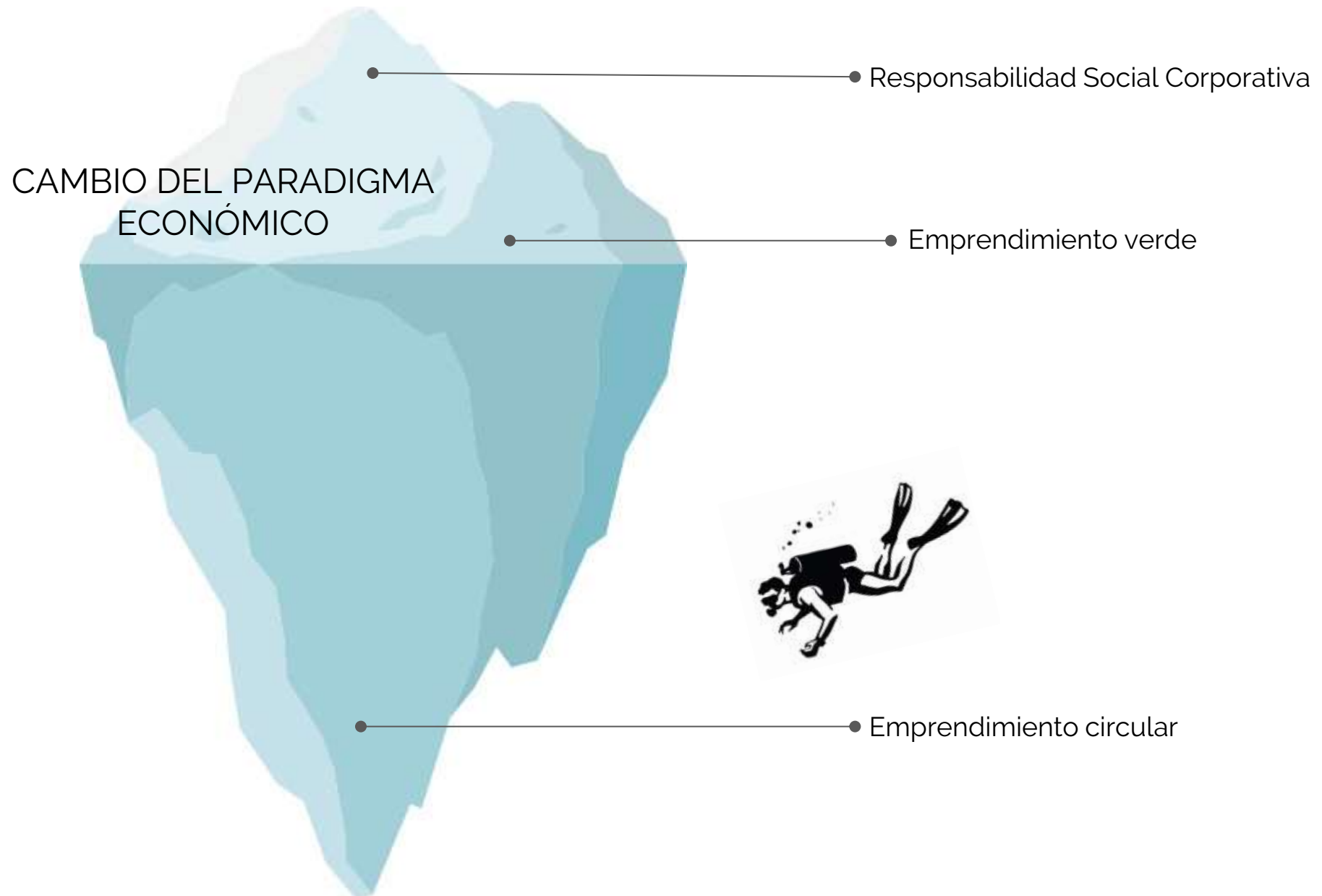
return the jeans and get
a € 10 voucher to use
at any point of time



MUD JEANS

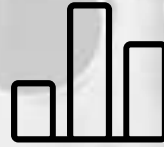
<http://www.mudjeans.eu/>

CUESTIÓN DE VISIÓN, PACIENCIA Y OXÍGENO





**ENTENDER Y
REPENSAR
EL SISTEMA
LINEAL**



**MEJOR
SOLUCIONES QUE
LAS ACTUALES**



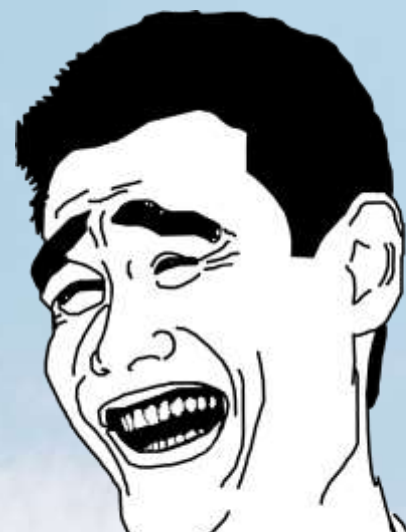
**GENERAR VALOR
REAL PARA EL
MERCADO Y LA
SOCIEDAD**



**PROTOTIPAR Y
APRENDER**



**VIABILIDAD
ECONÓMICA**

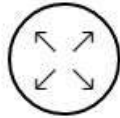


OPORTUNIDADES



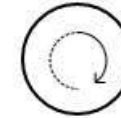
Recovery & Recycling

Alternative waste management, digital innovation in waste handling, closed loop systems, innovative business models around waste re-use.



Logistics & Transportation

Circular infrastructure, last mile logistics, integrated logistics, public transportation, route optimization, fleet management.



Textile

Smart sourcing, local or sustainable supply chains, traceability, wearable technology, closed loop systems, upcycling, sharing economy, performance design, cradle to cradle.



Spaces & Construction

Internet of things, community building, connected buildings, smart cities, resourceful construction, new materials.



Technology

Software & hardware innovations, digital transformation, IoT, small & big data, open source.



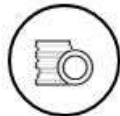
Food

Waste free business models, sustainable supply chains, healthy sourcing, local production.



Energy

Smart energy, circular infrastructure, innovative storage, smart grid, innovations in water management.



Finance

Circular Finance for investors, foundations, Family Offices and banks, P2P, Fintech, community financing.



Retail

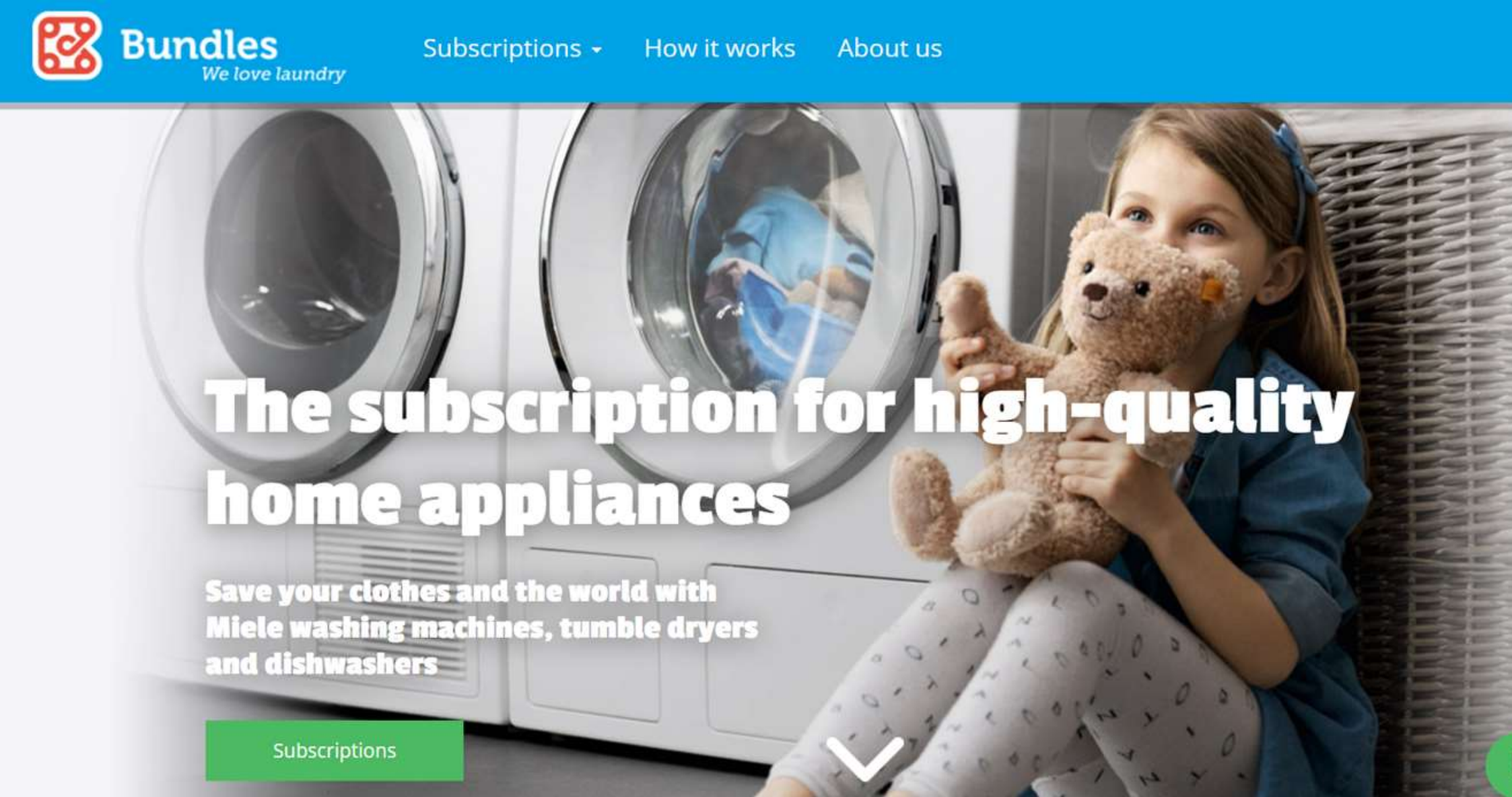
Packaging, distribution systems, waste reduction, consumer involvement.

The Potential of High-Value Textile Recycling

Today, 20 million tonnes of textiles are being landfilled or incinerated annually in the EU and US alone and an estimated 95% of all these textiles, could be re-worn or recycled.



SENSORIZACIÓN y BIG DATA



The subscription for high-quality home appliances

Save your clothes and the world with
Miele washing machines, tumble dryers
and dishwashers

Subscriptions



Quality



Sustainability



Profitability

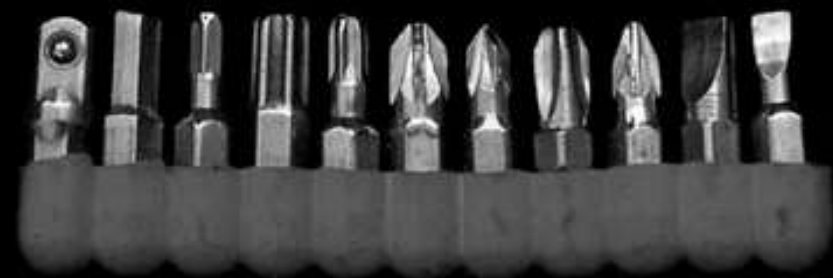


Best service

<https://www.bundles.nl/en/>

A photograph of several wind turbines silhouetted against a vibrant sunset sky. The sky transitions from a deep orange near the horizon to a soft purple at the top. The turbines are positioned at various heights and angles, creating a sense of depth. The word "ECODISEÑO" is overlaid in the center in a white, sans-serif font.

ECODISEÑO



A row of Erlenmeyer flasks containing green plant samples, likely for a chemistry or biology experiment. The flasks are arranged on a metal rack. The background is a bright, out-of-focus laboratory window.

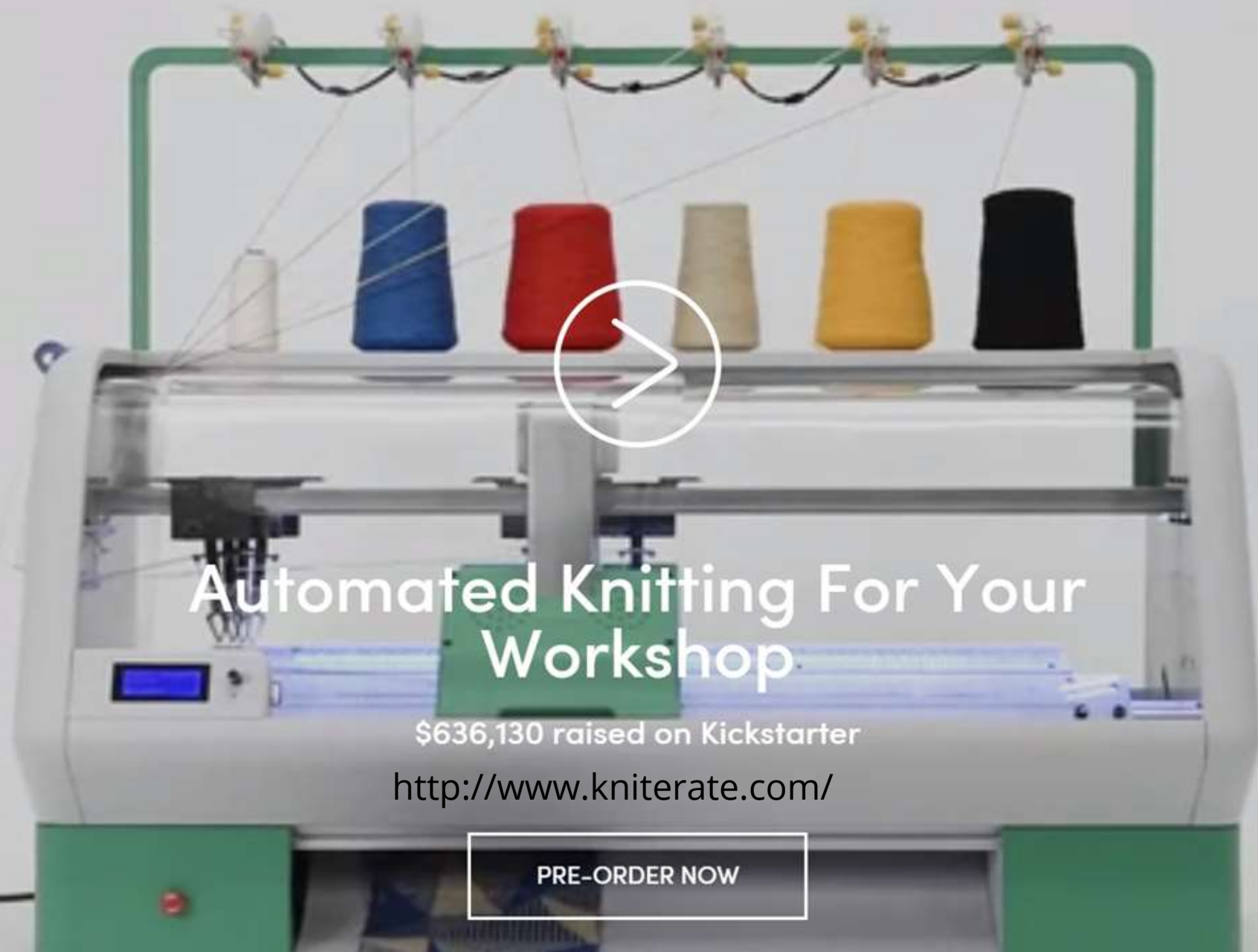
QUÍMICA **VERDE** y **NUEVOS** MATERIALES







CÓDIGO ABIERTO



Automated Knitting For Your Workshop

\$636,130 raised on Kickstarter

<http://www.kniterate.com/>

PRE-ORDER NOW



<http://aquapioneers.io/>



[FUTURECRAFT.4D]

TURISMO SOSTENIBLE Y NOMADISMO





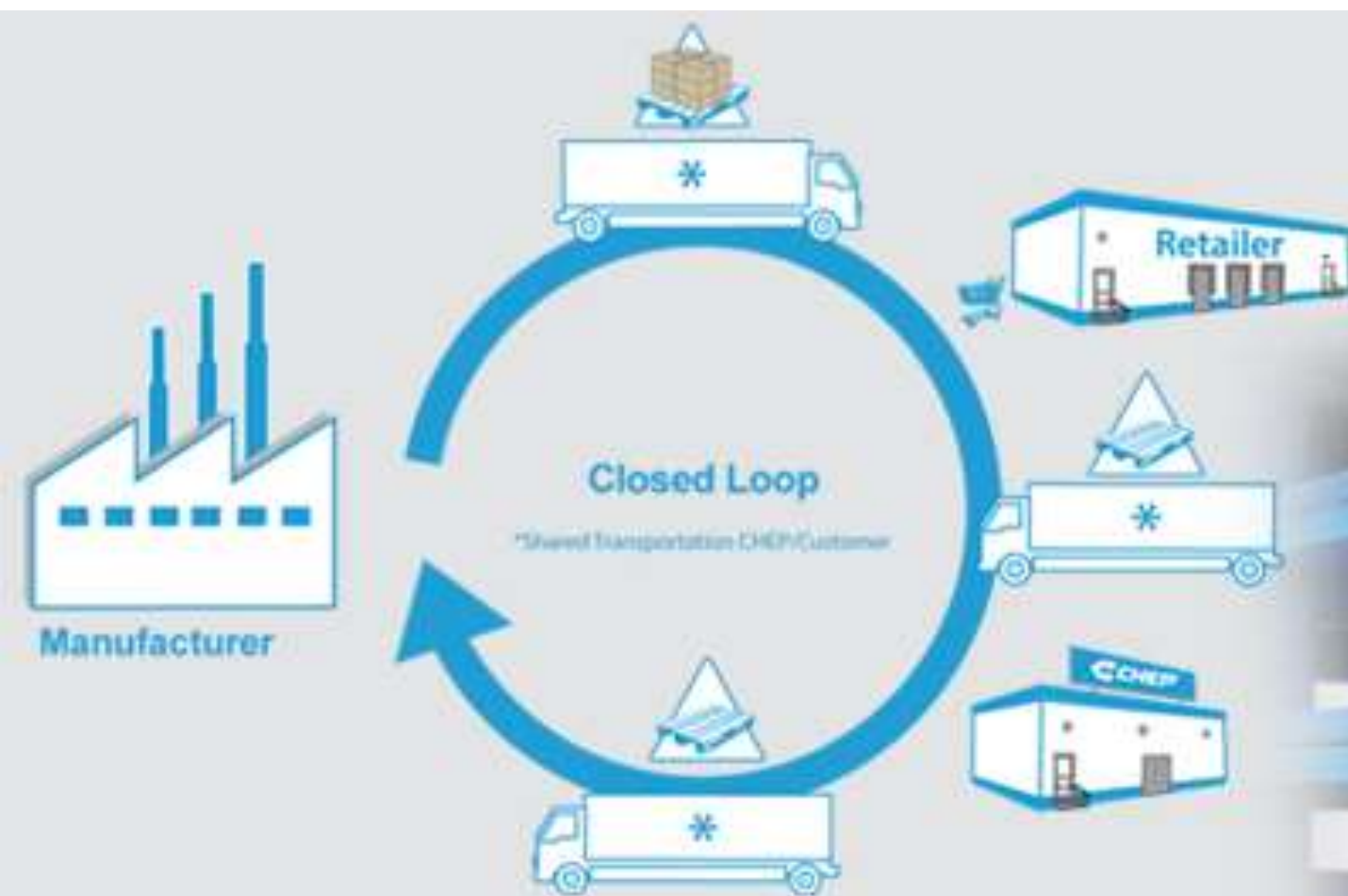


LOGÍSTICA INVERSA

20 01 00 8

20 01 00 8
200062 9

MAX GROSS
20320
TARE 21400





An aerial photograph of a vast, golden-brown agricultural field. Two tractors are visible, each pulling a plow. The tractor in the upper left is moving towards the left, while the tractor in the lower right is moving towards the right, leaving a wide, dark, furrowed path behind it. The word "BIOECONOMÍA" is centered in the middle of the image in a white, sans-serif font.

BIOECONOMÍA



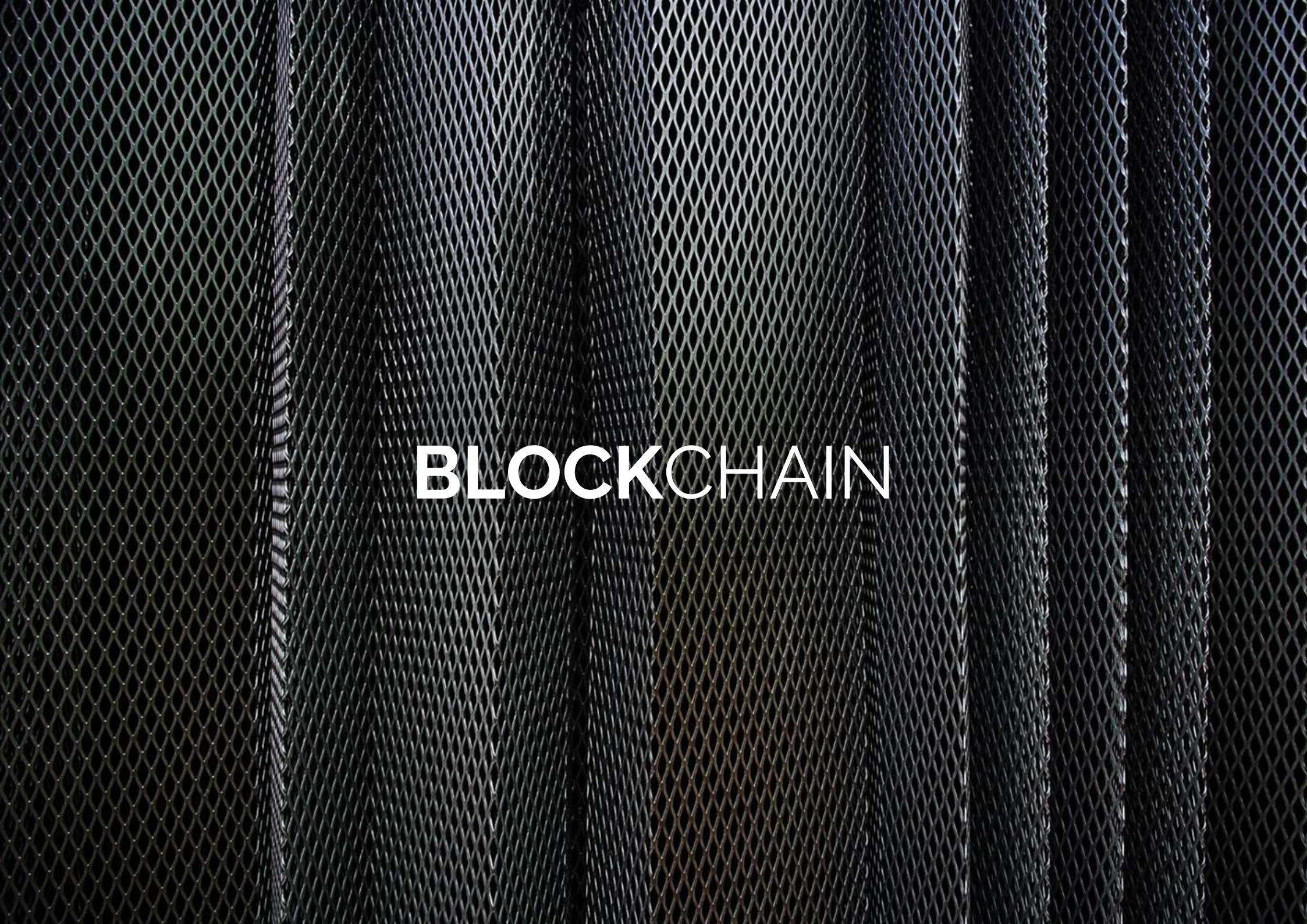
SUSTAINABLE AND VITAMIN-ENRICHED TEXTILE FROM CITRUS PRODUCTS



ORANGE FIBER

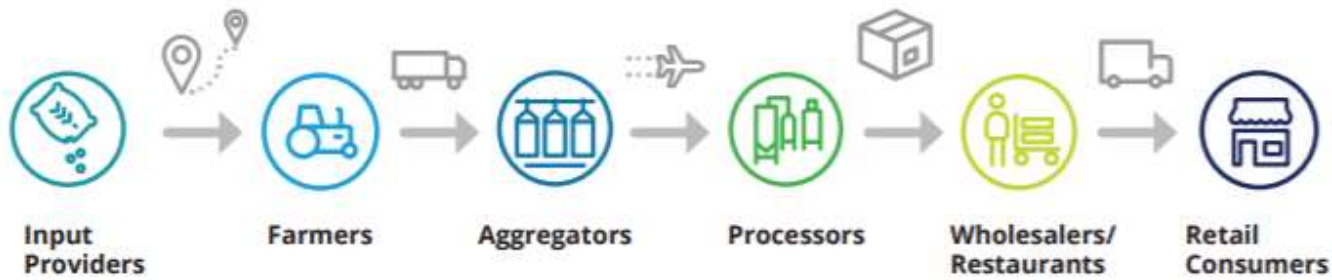
FILM NANOCELÚLICO
DESDE RESIDUOS ORGÁNICOS

PROF. ROBIN ZULUAGA
UNIVERSIDAD PONTIFICIA BOLIVARIANA

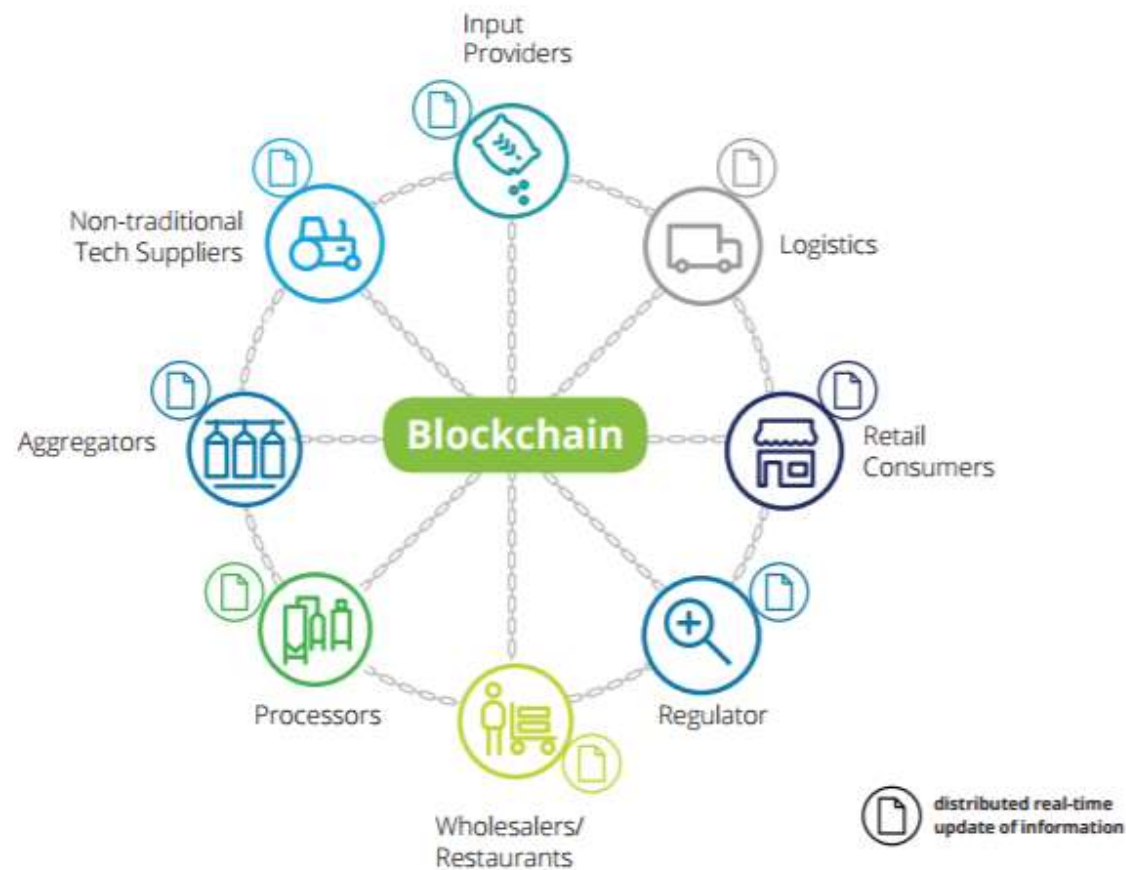


BLOCKCHAIN

Today



Tomorrow



Every product has a story

Provenance helps build trust in your goods and their supply chain

START FOR FREE

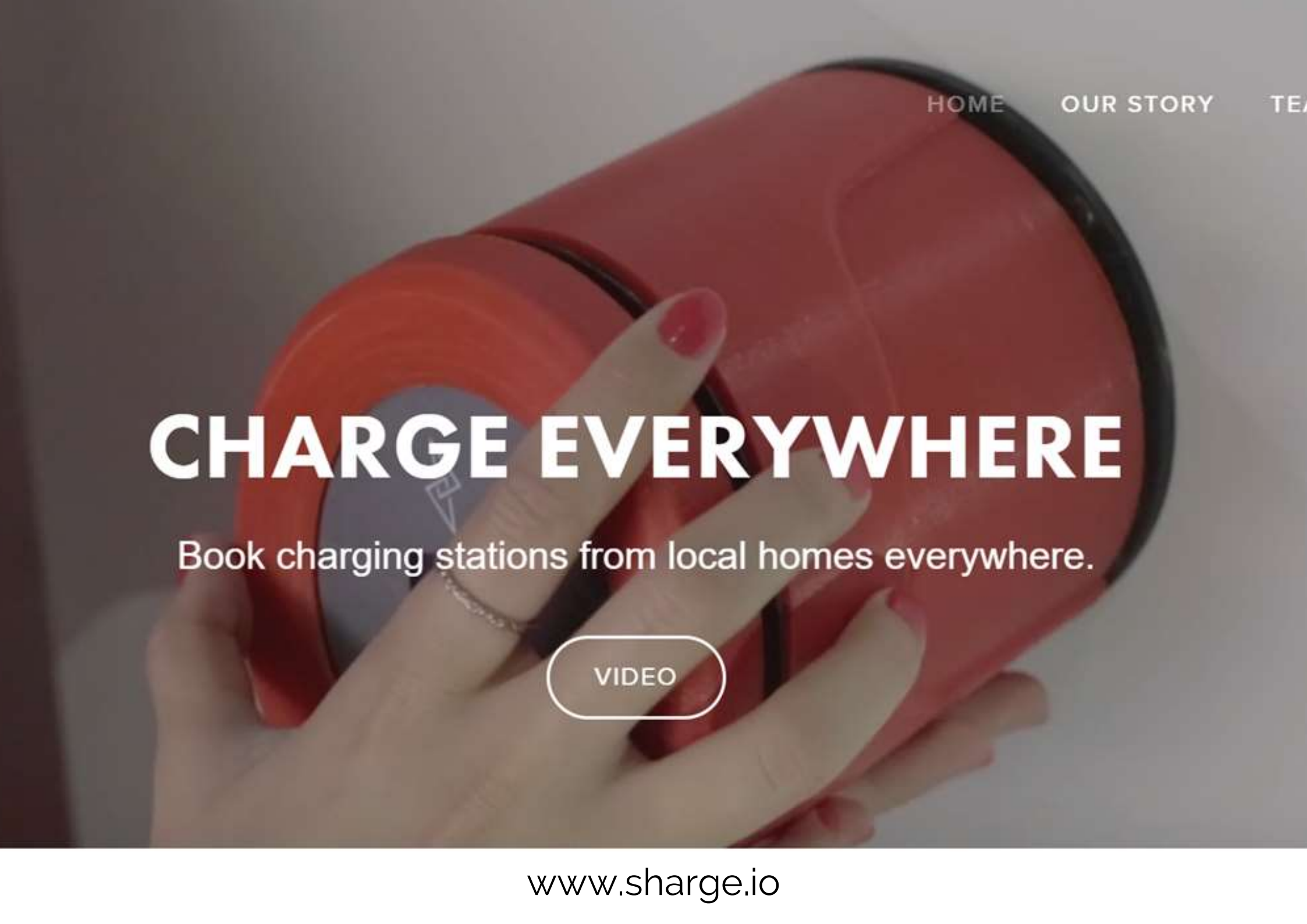
[Find out more](#)



Look beyond the label

Products are more than meets the eye. They are the sum of their creators' work, history and ownership. What if there were a new digital dimension to products that gave verified information about their producers, origins and ingredients? We created Provenance to do just that.

<https://www.provenance.org/>

A hand with pink nail polish holds a red, cylindrical portable power bank. A black USB cable is plugged into the top of the device. The background is a plain, light-colored surface.

HOME

OUR STORY

TEAM

CHARGE EVERYWHERE

Book charging stations from local homes everywhere.

VIDEO

www.sharge.io

RECOMENDACIONES



1 ESTUDIAR MUY MUY MUY BIEN EL PROBLEMA/NECESIDAD



A man and a woman are dancing at a wedding reception. The man is wearing a light pink shirt and a dark vest, and the woman is wearing a white lace dress. They are both smiling and holding glasses of champagne. In the background, there is a table with several lit candles in holders, creating a warm and romantic atmosphere.

**NO TOMAR DEMASIADO
EN SERIO EL “SÍ” DE
POSIBLE CLIENTES
HASTA QUE NO HAYA UN
DINERO QUE PAGAR**

**ESCUCHAR... A VECES
HACER CASO A LO QUE
TE DICEN.**



A close-up, slightly blurred photograph of a workspace. In the background, a laptop is open, showing its keyboard. In the foreground, an open notebook with blank, cream-colored pages lies flat. A pair of black-rimmed glasses with tortoiseshell temples is resting on the right page of the notebook. A black pen is visible on the right edge of the notebook. The text "PREPARARSE Y FORMARSE Y CONSTANTEMENTE" is overlaid in white, bold, sans-serif capital letters across the center of the notebook's pages.

**PREPARARSE Y
FORMARSE Y
CONSTANTEMENTE**

**SEGUIR LO QUE
VERDADERAMENTE NOS
MOTIVA**

PASSION LED US HE



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<https://betalist.com/>



Trending Startups

id	Start Name	Cloud Address	Phone Number	Website URL	Web Title
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	designer/illustrator
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Software Engineer
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Manager - Business Growth Advisory
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Chief Financial Officer
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	CEO and Founder
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Business Development, SaaS
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Co-Founder
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Founder, SaaS
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Director of New Business Development
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Chairman of CEO
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	CEO & Co-Founder
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Co-Founder
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Chief Executive Officer
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	CEO
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Senior Technical Product Specialist
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Co-Founder
254	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Subscribed to Beta	Co-Founder



Knowledge Hub

<https://circleknowledge.atlassian.net/>

Knowledge Hub becomes part of Circle Lab soon!



~~500+~~ 750+
inspiring examples
of the circular economy

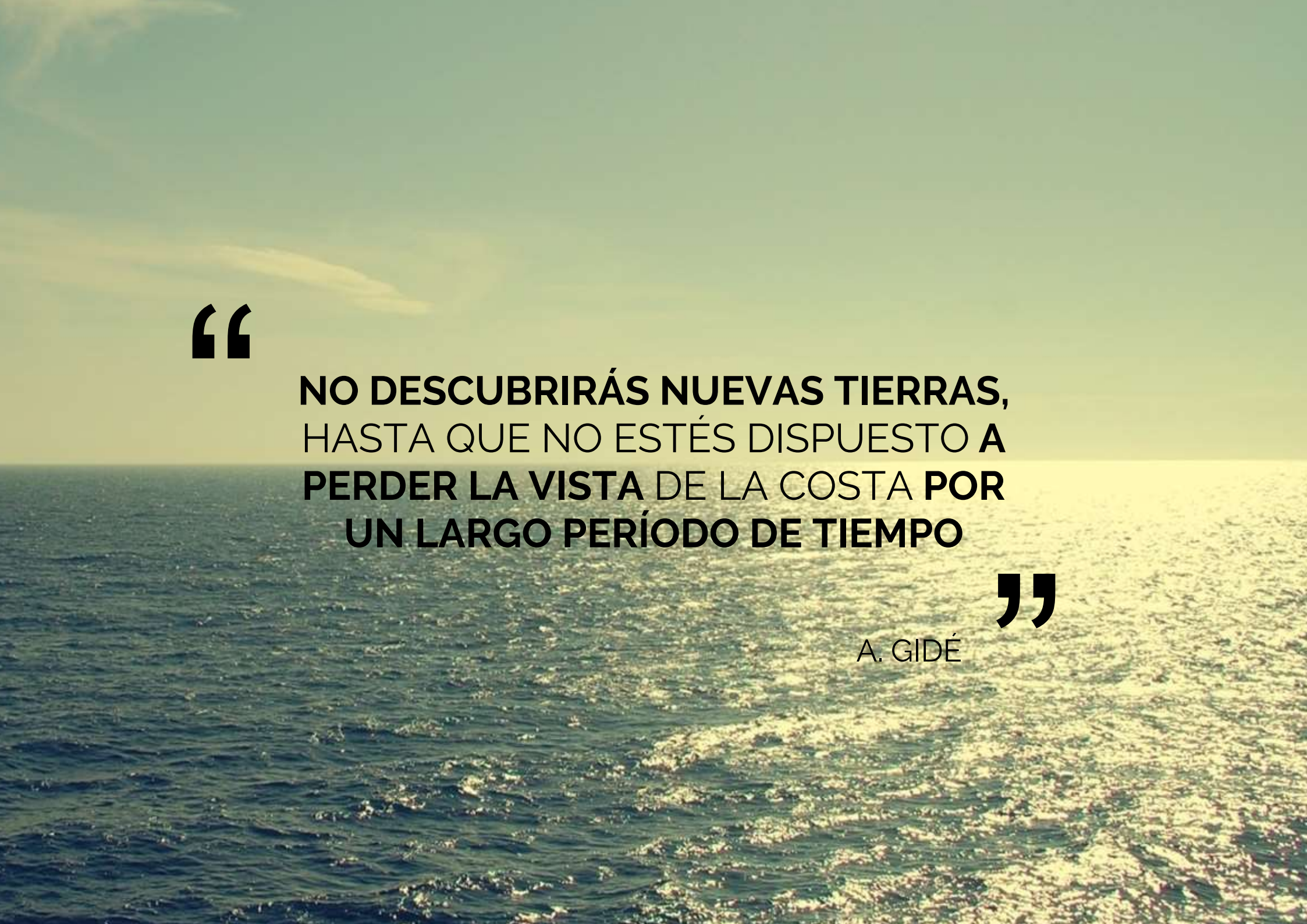


A large, multi-masted sailing ship, possibly a galleon, is shown from a side-on perspective, sailing on a deep blue sea under a cloudy sky. The ship has a white hull and dark wooden upper sections. The text is overlaid on the left side of the image.

..ENTONCES..
..ZARPAMOS o QUÉ?



Siiiiiii!



“

**NO DESCUBRIRÁS NUEVAS TIERRAS,
HASTA QUE NO ESTÉS DISPUESTO A
PERDER LA VISTA DE LA COSTA POR
UN LARGO PERÍODO DE TIEMPO**

”

A. GIDÉ

GRACIAS!

@ECOLOGING · WWW.ECOLOGING.ES ·
NICOLA.CERANTOLA@ECOLOGING.ES

