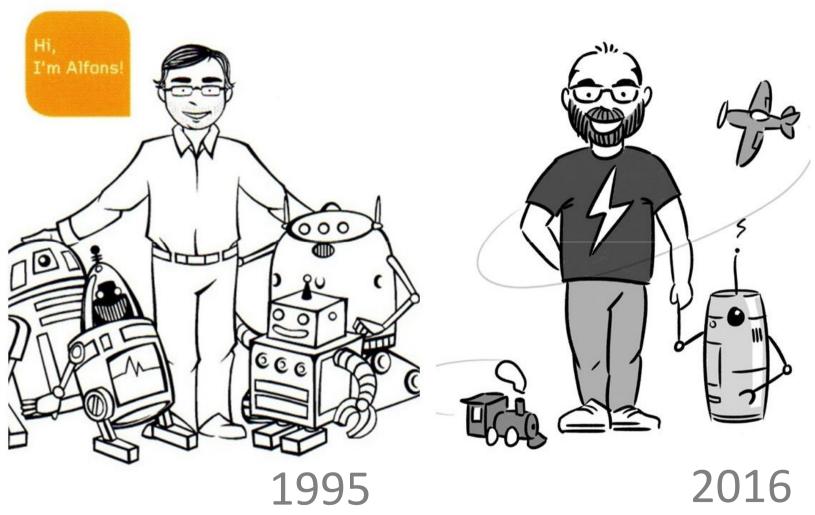
Cap a l'economia circular al comerç

Alfons Cornella

Founder & CEO

ac@infonomia.com

Alfons Cornella





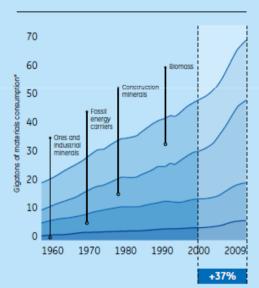
LA REVOLUCIO DEL RECURSOS

Figure 2. Global materials extraction and energy consumption (1960–2010)

Global Materials Consumption

Between 2000 and 2009, global materials consumption increased 37 percent. The largest increases have come from construction materials.

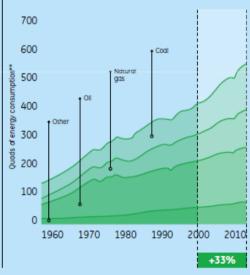
+37%



Global Energy Consumption

Between 2000 and 2010, global energy consumption increased by 33 percent. The largest increases have come from coal.

+33%

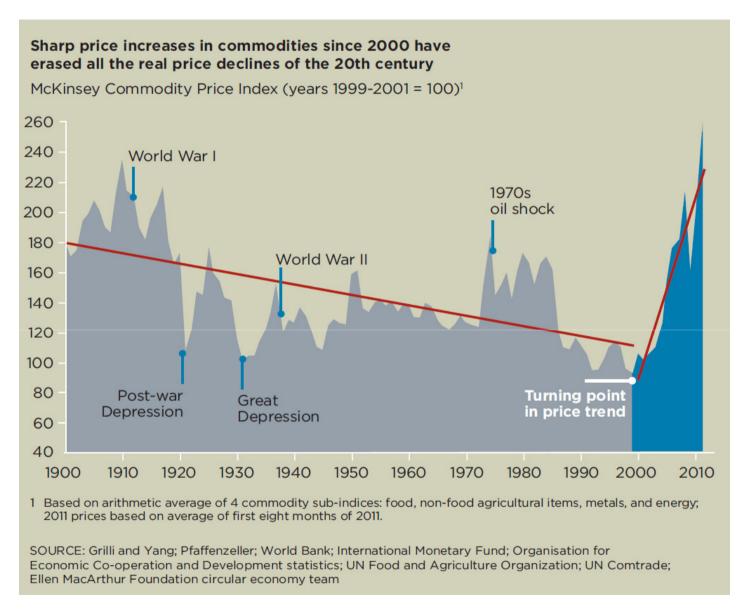


*Source: Krausmann et al., "Growth in global materials use, GDP and population during the 20th century," Ecological Economics 68, no. 10 (2009): 2696–2705. Data version 1.2, revised August 2011.

**Source: US Energy Information Administration (EIA), International Energy Statistics, available at http://www.eia.gov/cfapps/ipdbproject/IEDIndex3.cfm, accessed August 26, 2014.

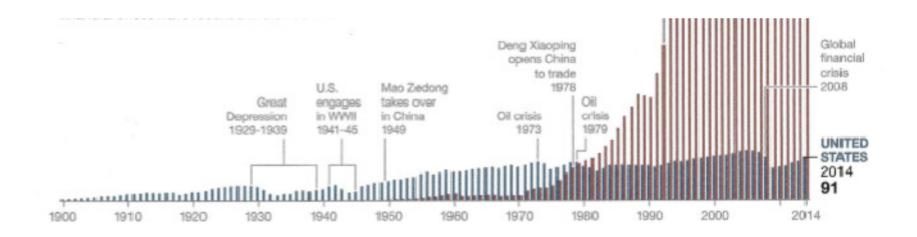
Ge.com



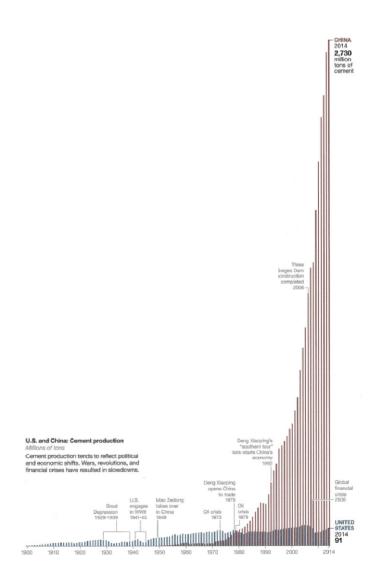


ellenmacarthurfoundation.org

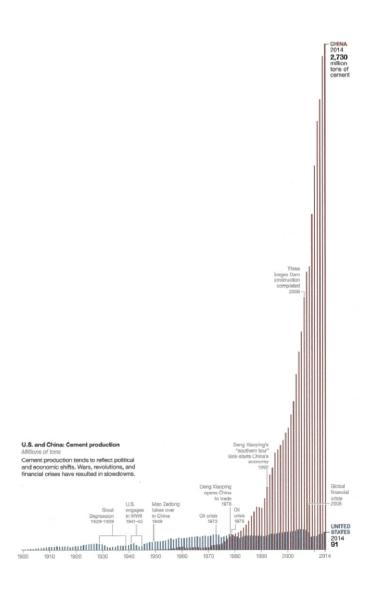


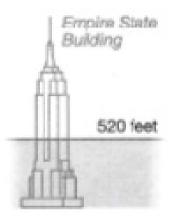


National Geographic, 01/16







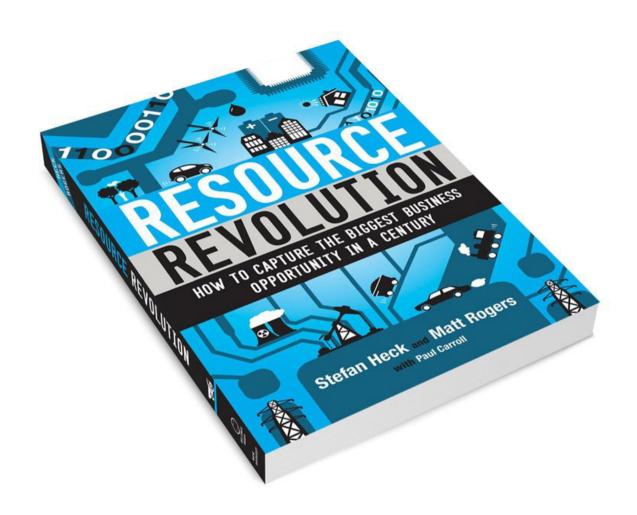


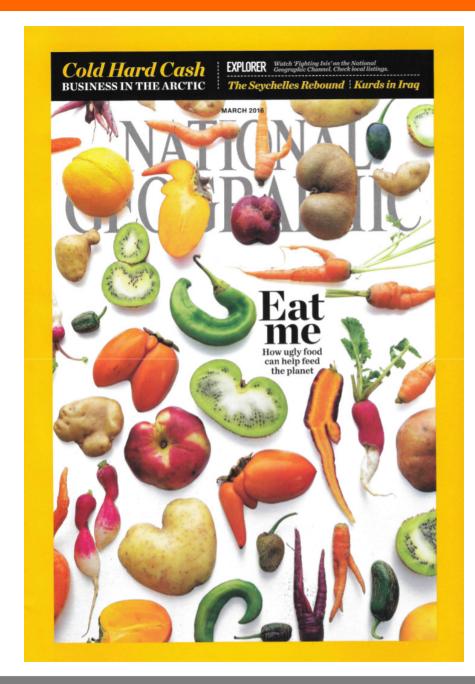
How much concrete? In 2014 China produced enough cement to make 330 billion cubic feet of concrete. That's enough to cover the entire island of Manhattan with a block 520 feet thick.

2.500 Mpax més a la clase mitjana i a les ciutats

Necessitarem més recursos i més energia

O una millor utilització dels recursos i energia





1/3 dels aliments produïts no es consumeix

suficient per alimentar a 2000 Mpax

Més auto-suficiència

ライフスタイルに合わせて選べる、 3種の Green Farm ラインナップ。



Green Farm Cube

かわいい畑でお部屋に彩りを。 インテリア感覚で野菜を楽しむ、 自分スタイルのコンパクトモデル。



Green Farm

家族みんなで 毎日野菜の成長が楽しめ、 収穫できるスタンダードサイズ。



Green Farm TRI-TOWER

安心の自家栽培をこころゆくまで。 ミニトマトもしっかり育てられる、 大容量&多品種育成のグランモデル。

greenfarm.uing.u-tc.co.jp







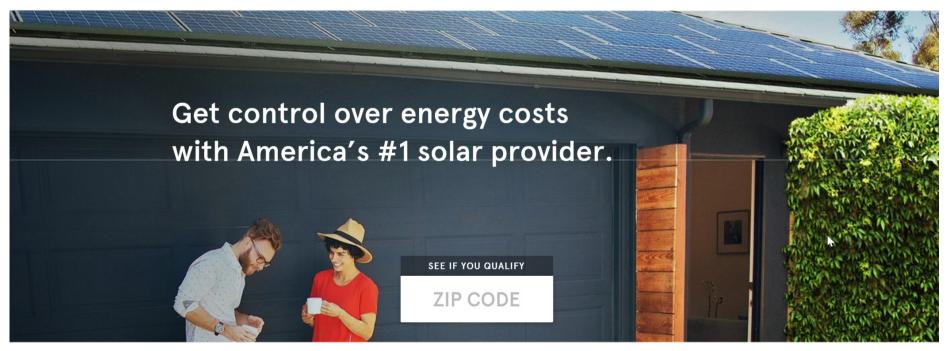
SolarCity

RESIDENTIAL

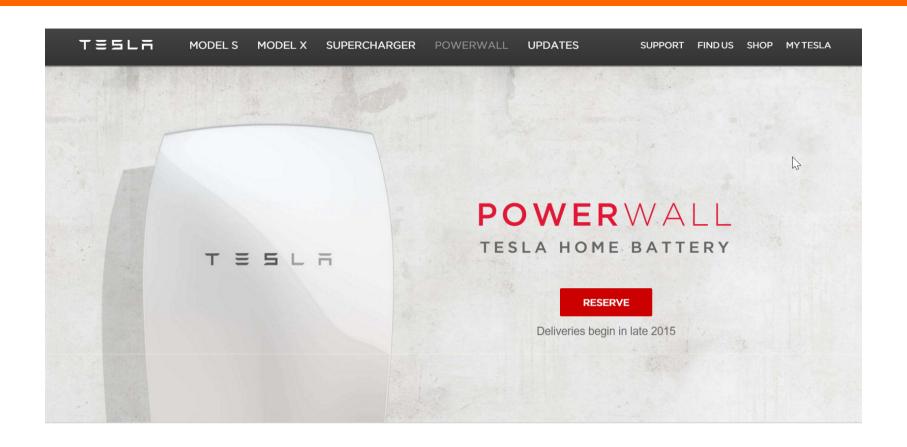
BUSINESS & GOVERNM

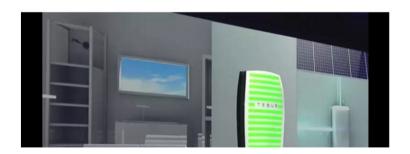
CAREERS

COMPANY



solarcity.com



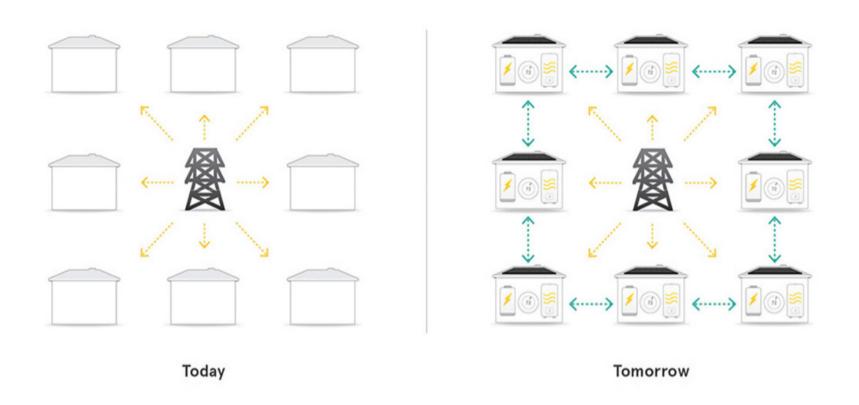


Energy Storage for a Sustainable Home

Powerwall is a home battery that charges using electricity generated from solar panels, or when utility rates are low, and powers your home in the evening. It also fortifies your home

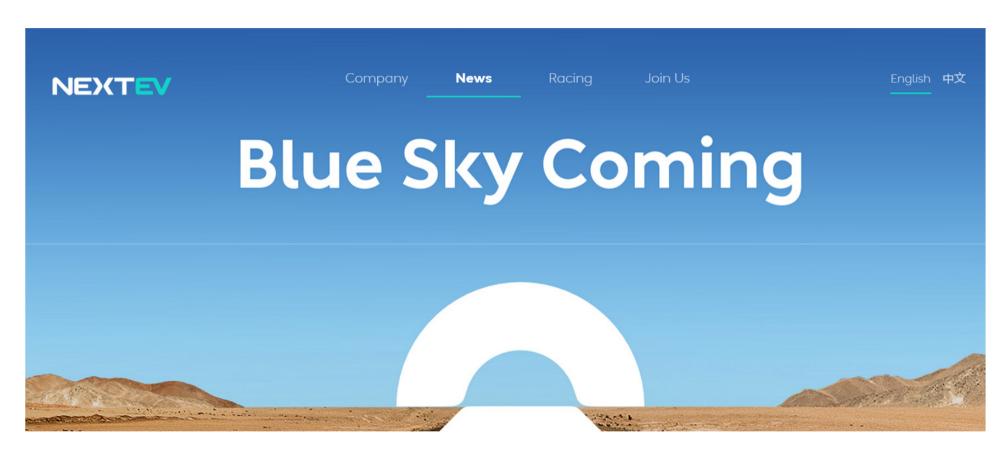
teslamotors.com

Xarxes intel.ligents



solarcity.com

Nous models de mobilitat



nextev.com

Forward-Thinking Entrepreneurs Are Driving The Clean Car Revolution





psfk.com

Nous usos dels residus



A Coal Plant That Buries Its Greenhouse Gases

By Peter Fairley | Photographs by Jenn Ackerman and Tim Gruber

The first commercial power plant to use carbon capture and sequestration shows the potential of a crucial technology.

technologyreview.com





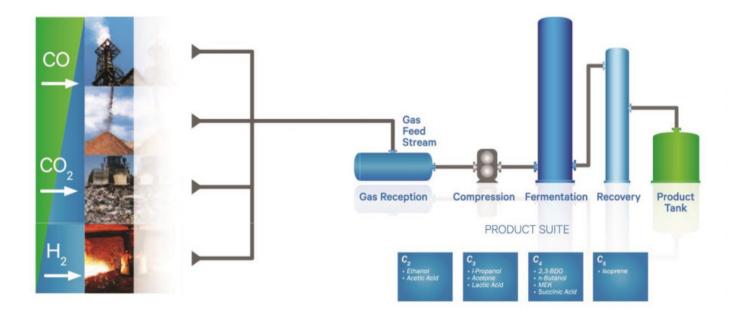
Home Company What Matters Most Innovation News Careers Carbon Smarts



lanzatech.com



The LanzaTech Process



Carbon-rich waste or residue gas streams enter a fermentation bioreactor. Proprietary microbes consume the gas and grow biomass, producing ethanol as a byproduct. Valuable products are then separated from the fermentation broth and used directly downstream or as chemical intermediates for products such as plastics, nylons, rubbers, and "drop-in" fuels.

lanzatech.com



Els residus com a recursos



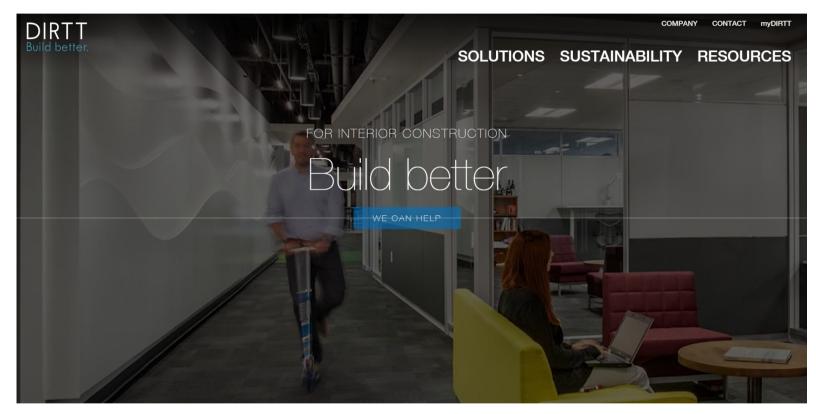
Home



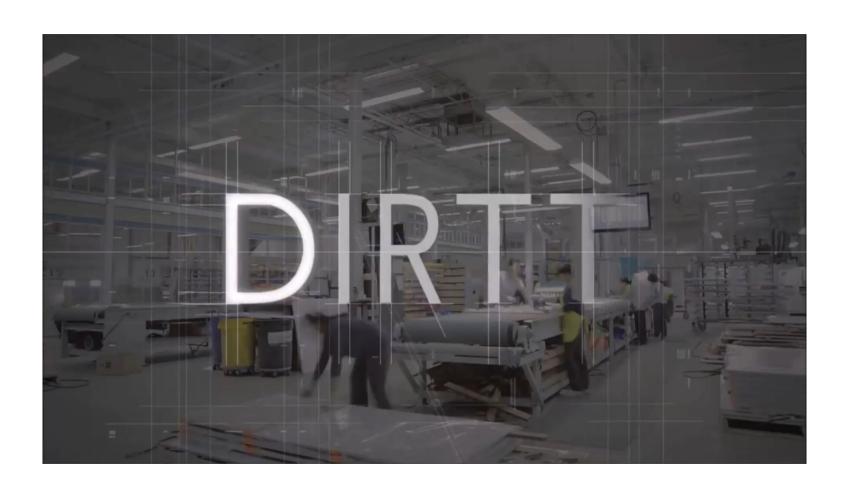
THERMAL RECYCLING OF COMPOSITES

trcsl.com

No residus



dirtt.net



Repensar (dràsticament) els processos

L'ECONOMIA CIRCULAR





Founding Partners of the Ellen MacArthur Foundation

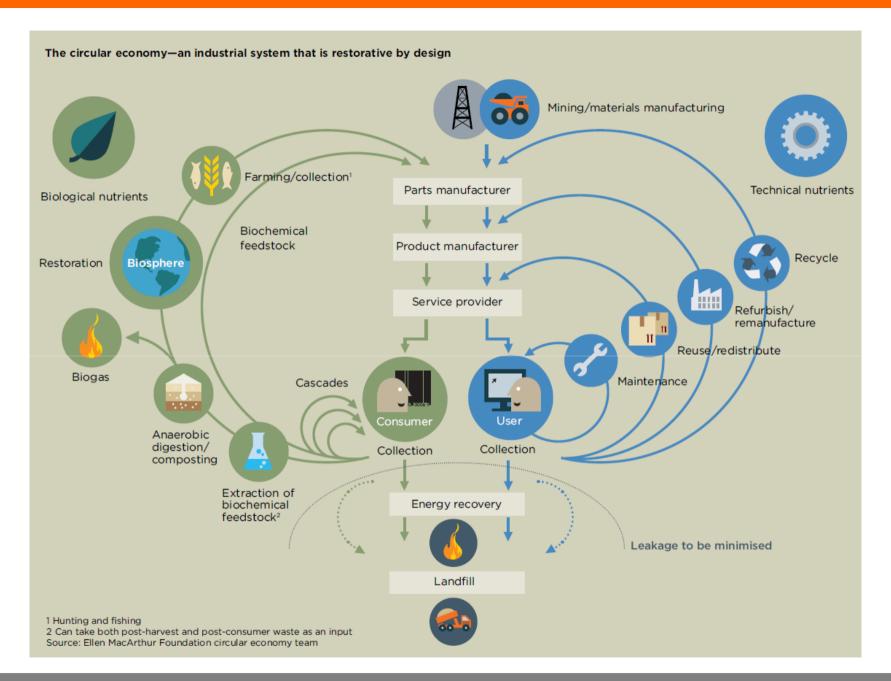








ellenmacarthurfoundation.org



L'ECONOMIA CIRCULAR AL COMERÇ

Contra el signe dels temps?



Let Amazon Pick, Pack, and Ship Your Orders

You sell it, we ship it. Amazon has created one of the most advanced fulfillment networks in the world, and your business can benefit from our expertise. With Fulfillment by Amazon (FBA) you store your products in Amazon's fulfillment centers, and we pick, pack, ship, and provide customer service for these products. Best of all, FBA can help you scale your business and reach more customers—in a 2014 survey, 71% of FBA respondents reported that their unit sales increased on Amazon.com more than 20% since joining FBA.



Save Time and Grow Your Business With These Benefits:



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Prime members love free Two-Day shipping, and all Amazon.com customers can get free shipping on orders over \$35. FBA Listings on Amazon.com* benefit from customer awareness of discounted shipping—and because most FBA listings are ranked without a shipping cost, you get an edge when competing! FBA helps improve your performance-based metrics, increasing your chances of winning the Buy Box.





The New York Times

Monday, December 22, 2014 | I Today's Paper | ■ Video | 241°F | Nasdaq +0.21% ↑



Handlers sort packages at the FedEx hub in Memphis. Shipment companies are gearing up to avoid holiday delays. Andrea Morales for The New York Times





Crunch Time for Shippers

By HIROKO TABUCHI

FedEx hired 50,000 seasonal workers this year, and UPS almost double that, to handle the Christmas-season workload.

Re-novar el valor



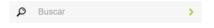






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Donar nova vida als productes

Giving furniture a second life with IKEA

IKEA offers the "Second Life for Furniture" service to customers. They can bring old IKEA furniture to a store and exchange it for a voucher. This service has been rolled out to all French stores (except Vélizy) since 1 January 2014. The purpose of this service is to help consumers adopt a sustainable and responsible lifestyle while saving money. It also encourages the reuse of furniture, maximising the life of IKEA products.









porque nadie en absoluto puede decirnos qué leer, cuándo ni cómo. **Doris Lessing**

ENCUÉNTRANOS

CENTRO MADRID CHAMBERÍ

C/Covarrubias, 38 28010 Madrid Tlf. 91 282 1001



CENTRO MADRID SALAMANCA

C/Padilla, 78 28006 Madrid Tlf. 91 282 1001



CENTRO BARCELONA

C/ Planeta 17 08012 Barcelona Tlf. 93 681 4293



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INDITEX

ABOUT US

BRANDS ▼ SUSTAINABILITY ▼ INVESTORS ▼

MEDIA C

Home > Sustainability > Products > Product use and end-of-life

Managing sustainability

Products

Demanding health, quality and sustainability standards

Exhaustive controls

Product testing

Our benchmark laboratories

Raw materials

Animal welfare

Product use and end-of-life

Employees

Suppliers

Community

Environment

Product use and end-of-life management



As part of its commitment to the environment, Inditex concerns itself with the need for better management of apparel and footwear products at the end of their useful lives. Working on more efficient use of environmental resources by consumers throughout and at the end of its products' life cycles is a priority.

Inditex believes that the best way to reuse a garment or textile waste is that which modifies the product as little as possible. The reuse of the garment as it was produced is therefore the preferred option, followed by the reuse of subproducts deriving from discarded garments and recycling to obtaining products of the same or greater value. The disposal unit must be the last option, preceded by incineration (for energy production).



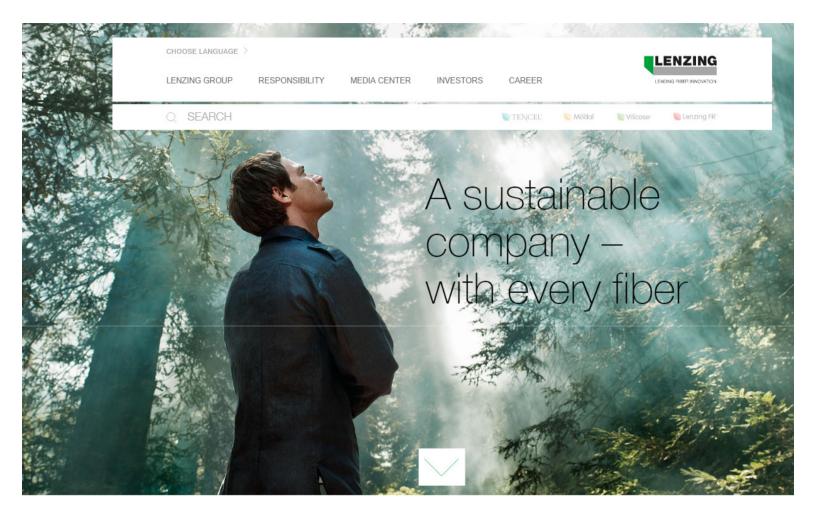
Avances conseguidos en los últimos cuatro años con la implantación del plan estratégico medioambiental del Grupo 2011-2015:

- Tienda energéticamente eficiente
- Trazabilidad de las materias y la producción
- Procesos más sostenibles (ej: lavandería)

El presidente de Inditex, Pablo Isla, ha aprovechado la Junta de Accionistas 2016 para presentar las nuevas iniciativas estratégicas de la empresa, entre ellas destaca un ambicioso plan de reciclaje que ofrecerá la recogida gratuita de ropa a domicilio a través del servicio de compra online



Inditex ha firmado un acuerdo con Lenzing, empresa austríaca productora de la fibra textil sostenible de origen vegetal Lyocell TENCEL, para fabricar materia prima textil de primera calidad a partir del residuo textil generado por Inditex.



With Lenzing fibers you immediately feel it: they come from Nature itself. There is a piece of Nature in every product made of Lenzing fibers, and they accompany the user all day long.

lenzing.com

Tenir un propòsit

Toward a circular economy in food

The French food and water company Danone has a history of environmental awareness. In this interview with McKinsey partner Clarisse Magnin, CEO Emmanuel Faber discusses his commitment to resource efficiency.

I grew up in the Alps, where the beauty of the natural cycles seeded in me the underlying importance of something that we as managers can often lose sight of—namely, that life is more than ideas, mathematical models, and software. I later spent three years in Asia, including Indonesia and China, where I saw firsthand how fast resources were being depleted in emerging markets.

Canvis en la cadena de valor

When we're asking people to move toward a circular model, we're asking them to change product design, change their business models, change the way their supply chain is set up.

You have to have all those people at the table working together to make that happen. **Emmanuel Faber:** To embed the principles of the circular economy in our operations, we have started managing our three key resources—water, milk, and plastic—as cycles rather than as conventional linear supply chains.

One example of this is what we are doing in yogurt. To make Greek yogurt, you use a "strained" technology with a membrane, extracting a lot of acid whey. Instead of just seeing this acid whey as an effluent, we are testing technology solutions in five or six countries and working with different partners to find ways to use whey as a resource. We are already using whey protein, for instance, in our Early Life Nutrition business, and we will soon be able to use it for animal feed, fertilizers, and energy. What we're doing is turning something that is a challenge today into something that will have value tomorrow.

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- You also need an investment-payback period that is longer than it is in today's traditional model—five years instead of three; seven years instead of five.

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- the yearly bonus attached to CO₂ reduction was equivalent to the yearly bonus attached to profit generation.
- Consumers are interested in what is at work in the products they eat, how these products were produced and delivered, and what is their effect on the body.

McKinsey&Company

Why the circular economy is all about retaining value

October 2016



By reassessing where waste is most prevalent in their value chains, companies can learn to close those loops to get more from the resources and materials they use. How can we capture more of the value that's lost in a traditional linear system?

Great examples here are the transition from product to service in a lot of industries.

Product-as-a-service examples would be instead of buying tires, you buy kilometers. And instead of buying a jet engine, you buy hours of time in the air. There are very few supply chains that are set up with robust reverse-logistics networks, so we need to make sure that by whatever circular-economy levers we're applying, we're generating enough value that we overcome the additional challenges, the additional costs associated with implementing those reverse logistics.

Conclusions



Consumidor?

Usuari

Compra?

Contracte

Estalvi matèries primeres: 300.000 M€/any

Impacte general: 1.800.000 M€/any

It requires realigning the incentives on a different set of key performance indicators (KPIs) and it starts with the top management

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