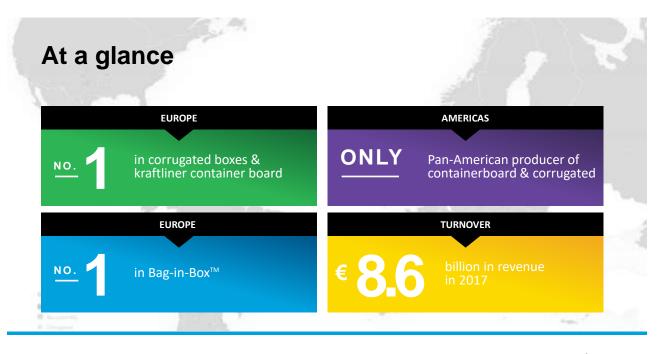




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Geographic reach



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Sustainability



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Innovation and expertise

- Collective expertise of 700 designers around the world
- ▶ 7200 design solutions available
- World's largest packaging Experience Centre in Schiphol, The Netherlands
- Supported by a global network of 23 Experience Centres



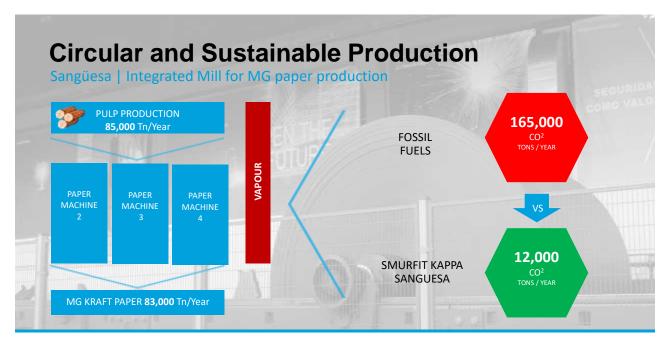
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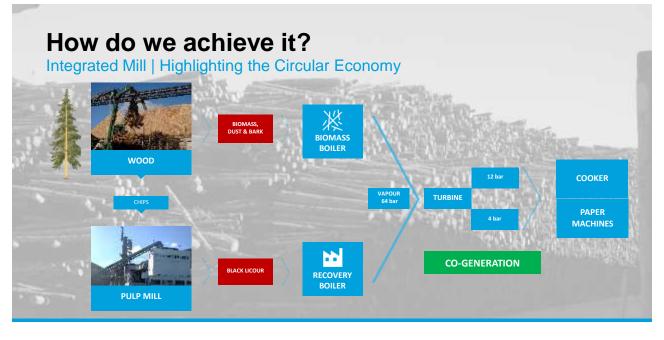
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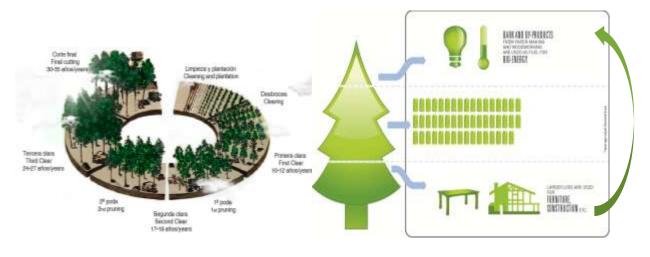






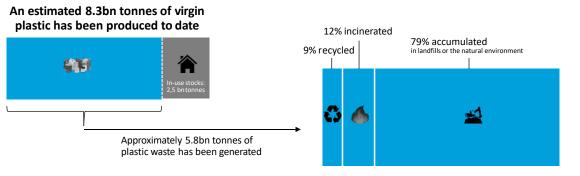
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Circular economy in Forestry Management





Some facts about plastic pollution



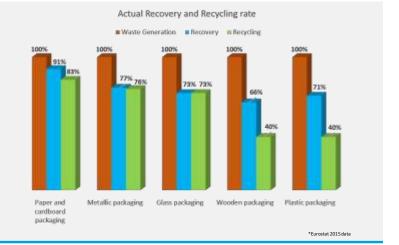
Source: Roland Geyer et al. Sci Adv 2017;3:e1700782

"This is a planetary crisis... we are ruining the ecosystem of the ocean," UN oceans chief, Lisa Svensson

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The challenge is recovery

- 29% of the produced plastic packaging is not collected by any waste management system
- More recycling will probably not solve plastic pollution
 - Many plastic products have no economic value in today's recycling system (contamination, down cycling, etc.)
 - Can increase recycling keep pace with the increase in the use of plastic?



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Fight against plastic packaging

The big problem



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The world is changing

Everybody is talking about the plastic problem



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Current situation and outlook call for immediate action!



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Source: National Geographic



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What can we do?

Better Planet Packaging

The world has opened up to the opportunity of paper based packaging

Being biodegradable is a material property Biodegrading in the ocean is sustainable

Paper-based packaging is in many applications the sustainable packaging of choice

Sustainable packaging should be no harm to our planet in any end of life scenario

Future success depends on what you're made of

Estimated decomposition rates of common marine debris items

Short term opportunities to replace plastic by a material that is adaptable, could biodegrade within a period of months and cause no harm to our planet



This year... **5.0 TRILLION** Plastic bag are consumed. That means 160,000 per second. Less than 1% are recycled

Future success depends on what you're made of

Paper-based packaging is in many applications the sustainable packaging of choice

Biodegradable

Paper always biodegrades quickly, be it in controlled or uncontrolled end of life scenarios.

Renewable

Paper is 100% renewable in a sustainable way (environmentally, economically and socially).

Recyclable

High paper recycling rates give a low chance of used packaging becoming litter.



We have the solution: the paper bag...

What do consumers think?



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Paper Bag

Leading the change in the world and in Navarra





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Paper Bag

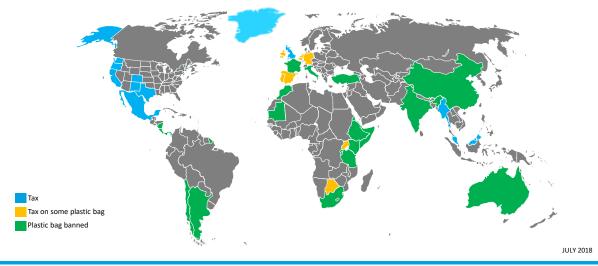
Not all the papers give the right solution



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Acting against plastic bag pollution



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Paper Bag Day in Europe

Navarra is leading that day in South Europe



Why to celebrate the European Paper Bag Day?

- Paper bags are the packaging of the future. They are strong and reliable shopping companions for all occasions. They carry almost anything – from food, fashion, luxury and decorative items to pharmaceuticals and electronics – and can hold up to 12 kg. Furthermore, they are also pleasant to handle and touch.
- But paper bags do a lot more. Paper bags are reusable, recyclable, biodegradable and made from renewable resources they are environmentally-friendly. In a world facing changing requirements due to globalization, climate change and scarcity of raw materials, consumers engage in living a healthy and sustainable lifestyle. By using paper bags, they do. By reusing and recycling them, they do even more so. Taking responsibility for the environment can be that simple and it is one of the megatrends in our society.
- By celebrating the European Paper Bag Day, we want to convince more people to be trendy and use paper bags. We invite them to combine the happiness from a great shopping experience with a good conscience for the environment.



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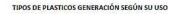
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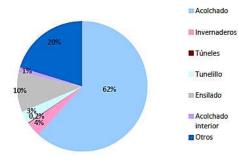


The paper based solution that ends up smelling of roses



Agriculture Waste generation in Navarra





EVOLUCIÓN DE LA GENERACIÓN Y GESTIÓN DE RPUA



¿Waste management or avoid it?

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Mulching project

Real problem to solve





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Mulching project

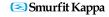
Testing our paper-based solution

Key Drivers vs Plastic solution

- > Special paper based solution made from virgin fibres.
- > Better weed control.
- > Storable without losing properties.
- > Sustainable and Eco-Friendly.
- > Biodegradable as Compost.







INTIA

NADE IN NAVARRA

Mulching project

Highlighting Circular Economy



- It's not necessary to remove the paper.
- The farmer could plough the land with the paper.
- The paper will act as compost for the land, improving its quality.

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- > Price reduction vs PE solution.
- > Transport costs optimization.
- > Waste fee reduction.
- > Environmentally friendly.



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Smurfit Kappa believes the best way to open the future of sustainable packaging is to create it

