

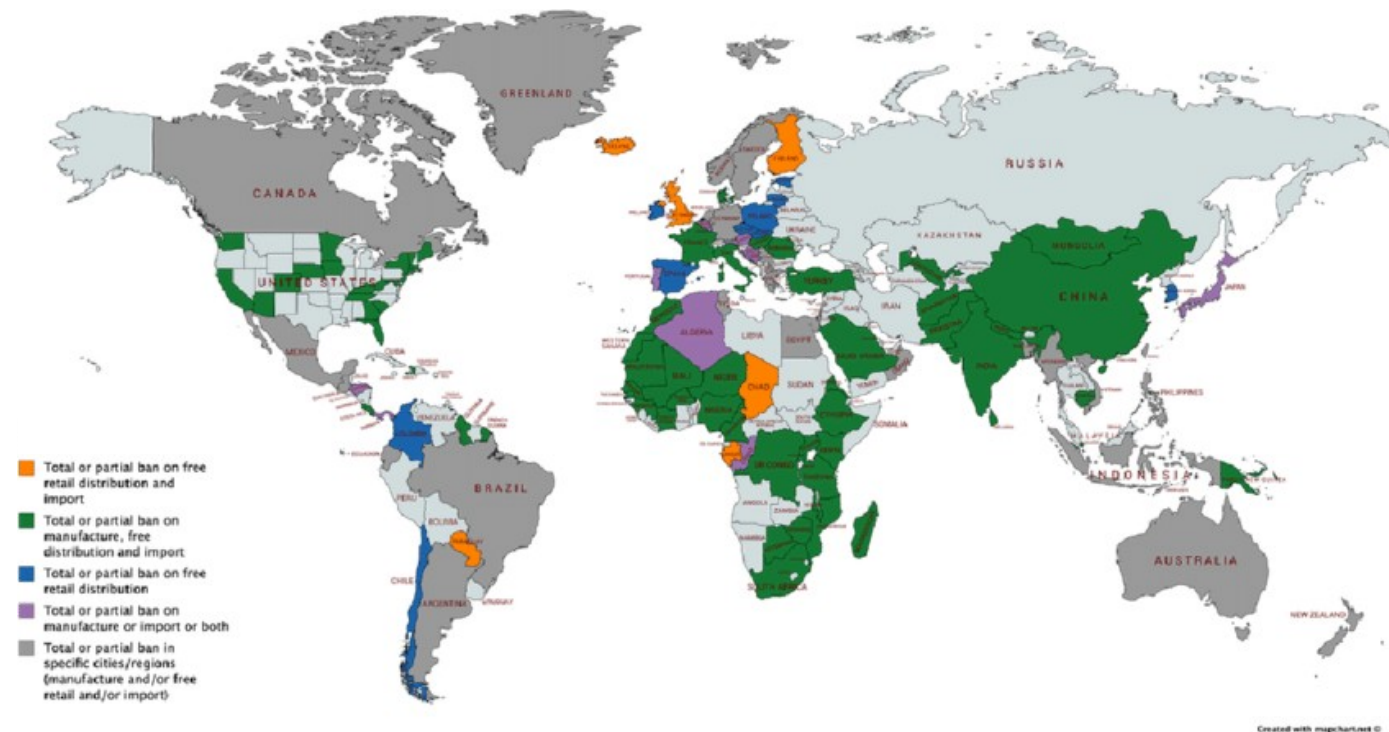
We **DO** bring
SOLUTION
for single-use
plastics





Sustainability is becoming an important topic across the world: **countries** are regulating and banning single-use plastic products

Legal limits on single-use-plastics (SUPs)



More countries are regulating and banning single-used plastics

EU dismisses industry calls to lift ban on single-use plastics

15. 4. 2020 [Link](#)



India Shelves Plan to Ban Single-Use Plastic Products Countrywide

19.10. 2019 [Link](#)



Single-use plastic: China to ban bags and other items

19.10. 2019 [Link](#)





Consumers don't want plastic in products resulting in national regulations and brands' commitment to reducing plastic use

Consumer voice – Middle East market



Customers want eco-friendly products

35%

consumers are likely to purchase products that do not contain any plastics¹

60%

consumers are willing to pay more for environmental-friendly products²

Source
: 1) [Global Data](#)
; 2) [blog.globalwebindex.com](#)



More countries are regulating and banning single-use plastics

The Abu Dhabi government has launched a new policy to reduce single-use plastics

13. 3. 2020

[Link](#)



Saudi Arabia has banned non-biodegradable plastics packaging

5. 2. 2020

[Link](#)



A ban on single-use plastic products in Egypt's Red Sea province has taken effect

11. 7. 2019

[Link](#)



Global brands are also banning single-use plastics

More than **450** organizations have signed up to this vision as part of the [New Plastics Economy Global Commitment](#)



Mandarin Oriental comits eliminating single-use plastic across its global luxury portfolio



[Link](#)

Emirates commits to reducing single-use plastic on board



[Link](#)

17. 6. 2019



ReFork brings a solution to single-use plastics by combining material, technology, and sourcing expertise

ReFork solution

Material R&D

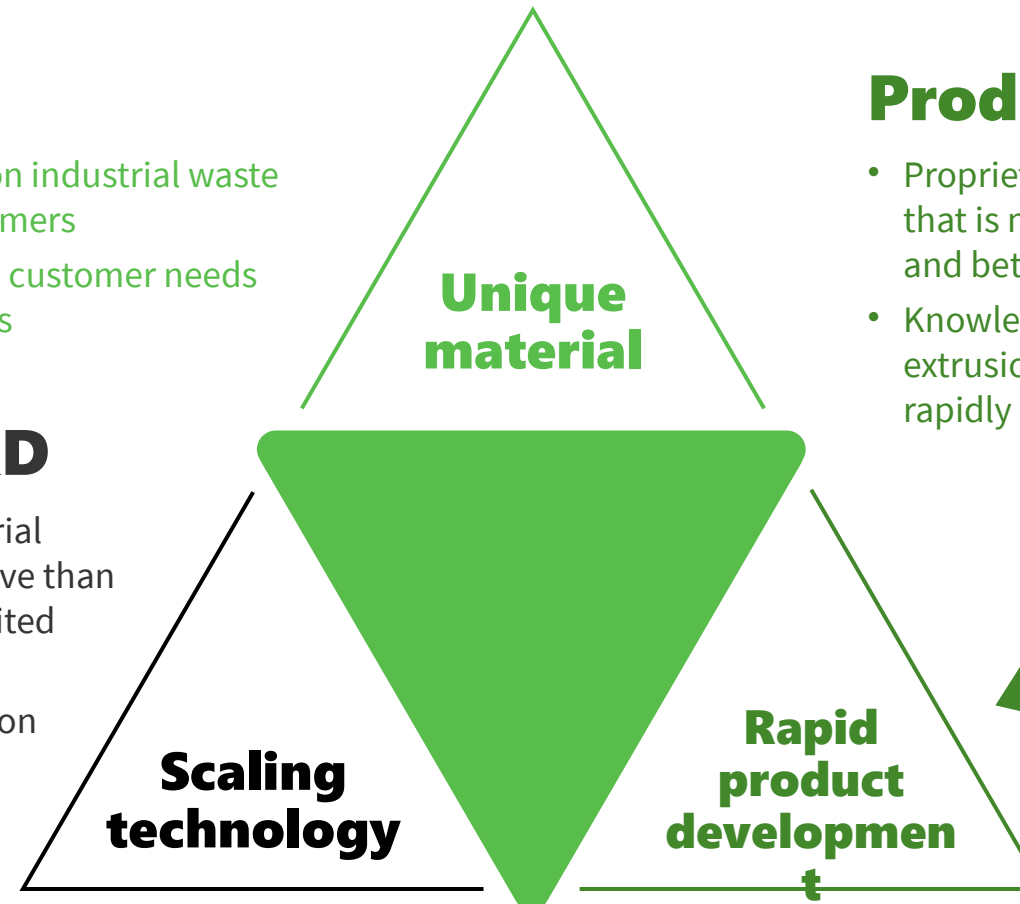
- Developing material based on industrial waste and naturally occurring polymers
- Designing material based on customer needs and processing requirements

Technology R&D

- Proprietary high scale material blending that is more effective than compounding and better suited for our raw materials
- Knowledge of scaling injection and extrusion molding to mass production rapidly

Product R&D

- Proprietary high scale material blending that is more effective than compounding and better suited for our raw materials
- Knowledge of scaling injection and extrusion molding to mass production rapidly



ReFork Product development

We combine all these aspects to create sustainable products that meet customer need and can be quickly rapidly mass produce



ReFork unique material from industrial waste and natural resources that are fully biodegradable and renewable

ReFork material



The base of our material is locally sourced wood sawdust that is produced as a waste of wood processing.*



Finally, as a binder for our mix, we use polyhydroxy-alkanoate (PHA) naturally occurring biopolymer that is degradable in compost, soil and sea and produced via fermentation by bacteria.**



We add natural occurring mineral additives to improve the properties of our material.



Our PHA is TÜV certified for biodegradability in home compost, soil and marine



* As we want to always source base of our material locally, we are investigating other material for our base like bamboo, coconut scrapes and others that we could use in other regions

** While currently range of feedstock is used for production of PHA including starch, sugar and rapeseed oil, several companies have pilot scale to produce PHA from wastewater streams or plastic waste. Our aspiration is to use the PHA made from the waste stream to make our product more circular



We have developed wood-based cutlery as the first product but are continuously working on extending our product portfolio

Our portfolio

ReFork Portfolio

Food segment

Fork _____



Spoon _____



Knife _____



Leisure market

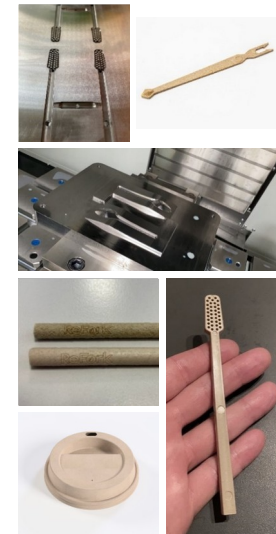
Shisha
mouth tip _____



NOW



FUTURE



Portfolio expansion in 2021

Food segment Launch

Small fork _____ Q1 '21

Small spoon _____ Q1 '21

Straw _____ Q1 '21

Lid hot beverage _____ Q2 '21

Lid cold beverage _____ Q2 '21

Chopstick _____ Q3 '21

Strawless lid _____ Q4 '21

Dental market

Toothbrush _____ Q3 '21



Our current product portfolio and packaging

Product portfolio



**Standard
packaging**
(100pcs per
biodegradable bag)



**Hygienic
packaging
in paper**

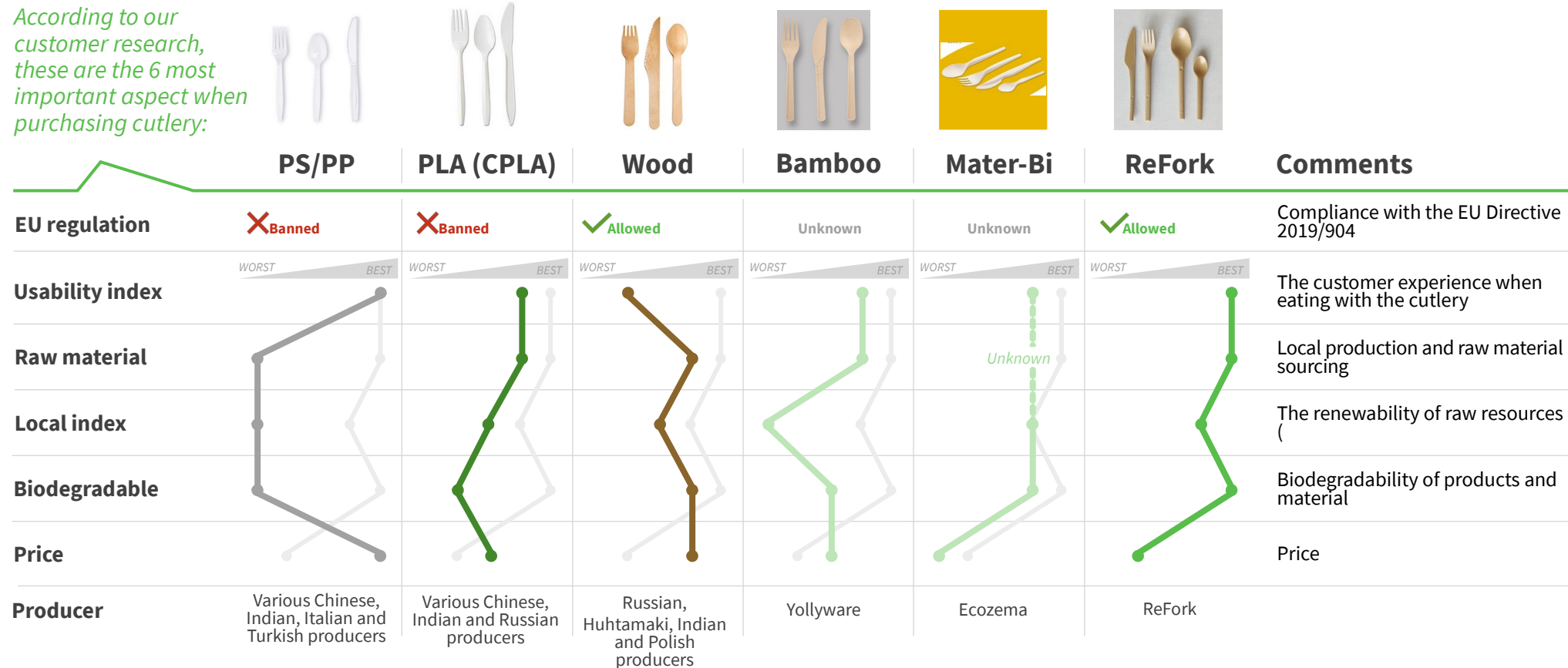




There are limited sustainable material alternatives for disposable cutlery

Comparison to alternatives

According to our customer research, these are the 6 most important aspect when purchasing cutlery:



Source: ReFork



Refork products bring range of benefit across different types of environment

Refork benefits



Great user comfort feels like silverware

Biodegrades in home compost, soil and sea environment

Keeps **resistance in higher temperature**, but can be safely burned

Functional for single-use, **reusable** if needed

Suitable for situation with **high hygienic requirements**



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