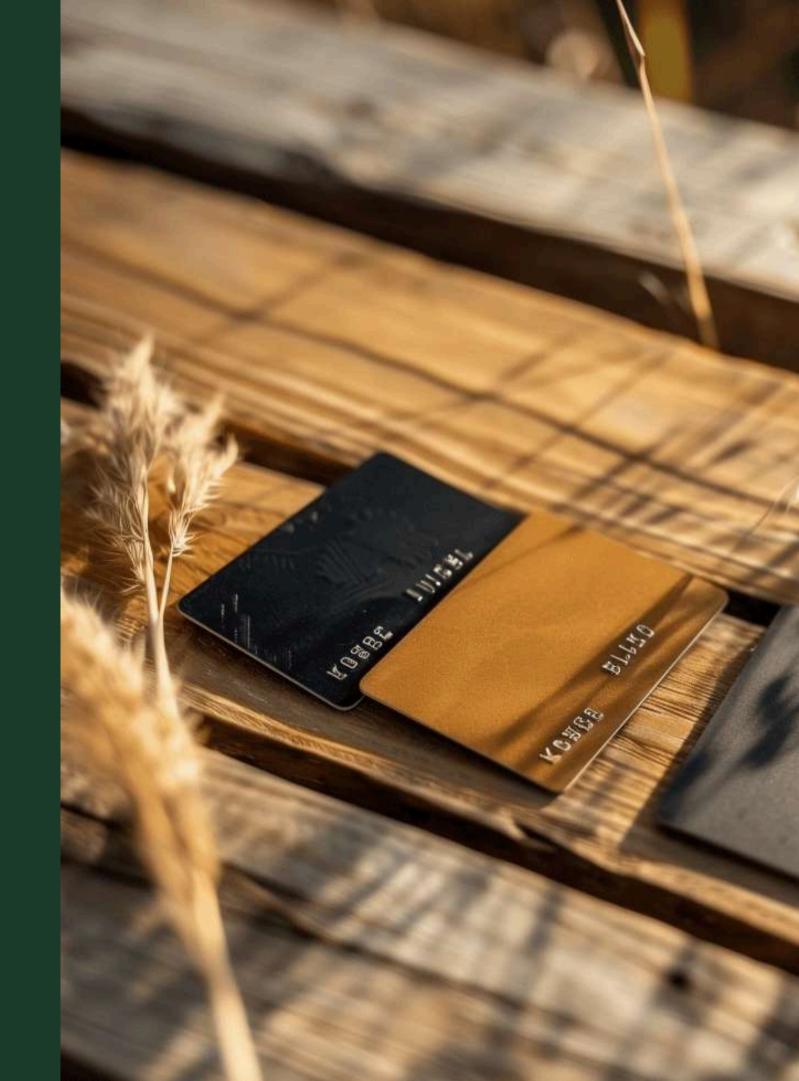


Biocomposite to replace plastics

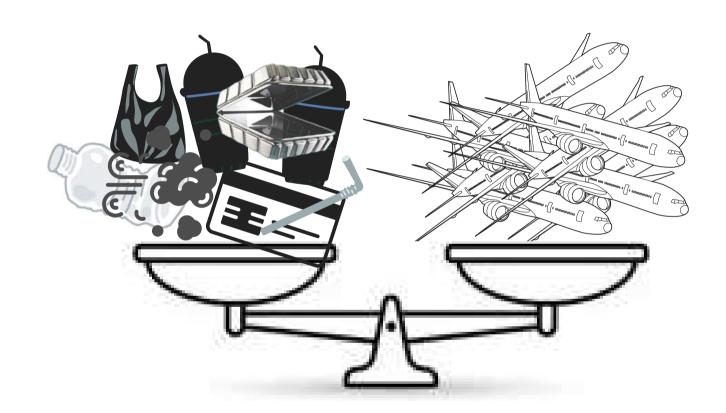
Made from reed of Baltic Sea





Problem

Fossil-based plastic is a big part of global pollution



50,8 million tons yearly => 128 000 Boeing 747

Card manufacturers will be forced to replace fossil plastic with eco-friendly materials by 2028*



Solution

SUTU - <u>patentable</u> material from reed plant





100% PLANT-BASED

- Fast-regenerating
- Never used as food
- Scalable all over the world

SUSTAINABILITY COMBINED WITH DURABILITY

- <u>Unique combo</u> of flexibility and strength
- Low-impact throughout the lifecycle
- Technology is already available (existing machines)



Application for cards

Technologie:

thin film

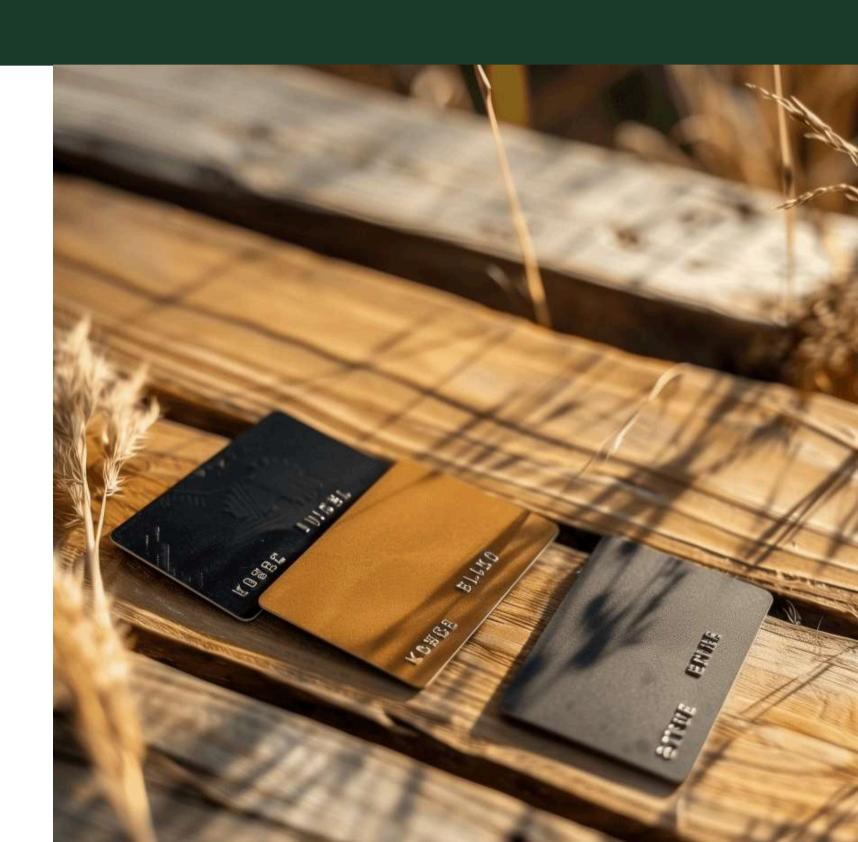
Product verticals:

- card blank (bank, gift, VIP, etc.)
- packaging films (food, gift, etc.)
- adhesive tape
- wax cloth



Reed proportion:

-> 10-30%





Possible other applications

Technologie:

3D-printing

Product verticals:

- DIY home kit
- design products (complex)
- everyday items
- parts for drones (defense industry)

injection molding

- household products
- food containers
- drinking cups & lids
- cosmetic cups



Reed proportion:

-> 20-40%

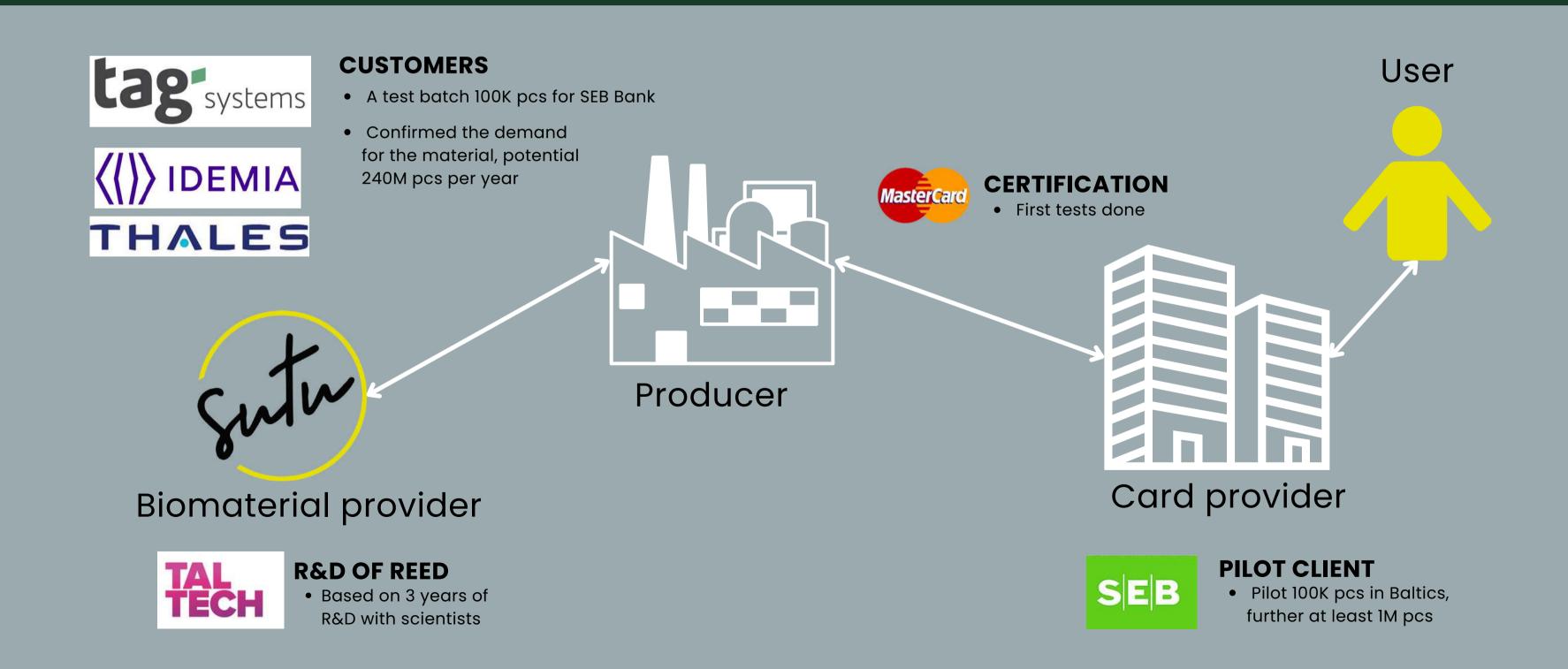


-> 30-60%



Validation

Validated unique biomaterial for eco-friendly cards





FOSSIL PLASTIC

WOOD

OCEAN PLASTIC

CORN-BASED MATERIAL

SUTU

Required conditions: strength

flexibility

hardness

fatigue resistance

fracture toughness

DURABLE

MICROPLASTIC FREE

PLANT-BASED

SUSTAINABLY SOURCED

MECHANICAL PARAMETERS

PRICE



€







€€€









€€









Market



Plastic cards in circulation today worldwide



33 billion pc → 24 billion €





Europe has the second largest share (23.2%)



7,6 billion pc → 5,5 billion €



Sutu's partner Tag covers 55% of European fintech&neobanks market



240M new bank cards per year

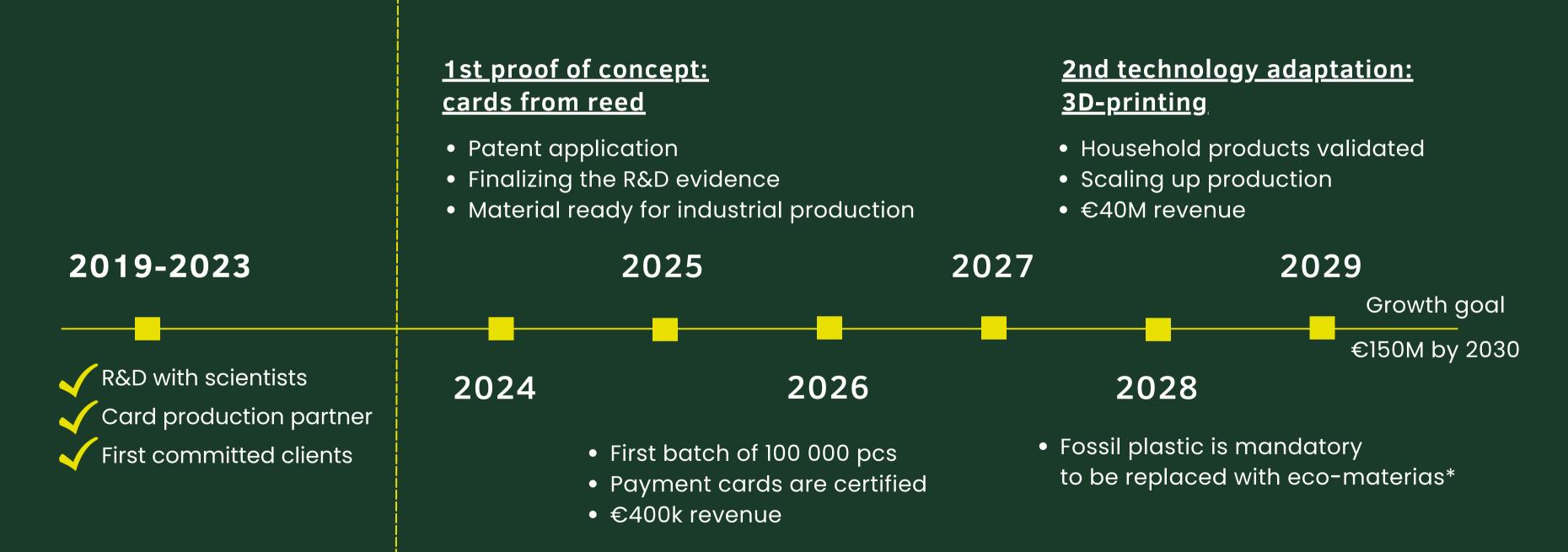
Cards won't disappear (expected growth rate 2–3% each year)



as banks seek close customer ties



Milestones



*Source: Mastercard

Business Potential



2025 we will produce 3,9 tons of reed material for one partner

2026 35,5 tons of reed material for three partners

2027 90,5 tons, incl 3D printing and household items adaptions

Potential REVENUE by 2030:

- CARDS
- → 60 million €
- 3D-printing
- 50 million €
- Household items
- 40 million €





150 million € by 2030



SUTU team







SAMSUNG Bigbank
Hansab Nordeo





Ailet Õis-Saar CEO, M.Sc.



Mihkel Karu
Advisor
Product & Business Development



Anneli Laines-Ensling
Growth & visibility manager



Kaido Saar Hands-on advisor 20+ years in banking



Impact

SUTU's impact per year:

- Removing 2,03 million tons of fossil plastics
- Optimizing the use of resources and saving 2,5 million tons of CO2
- Cutting the reed eliminates from the wetland:
 - -> 5,3 thousand tons of phosphorus
 - -> 0,5 million tons of nitrogen
 - -> more than 1 million tons of organic carbon















Fundraising

To bring the reed card to market:

300 000 € total



- production of 100 000 cards
- material certification
- reed card on producers' product list



50% of this is committed as a grant

