

BIOECONOMY FORUM LATVIA 9 MARCH 2017

TUOMAS MUSTONEN FOUNDER, CEO



TWITTER @PAPTICLTD



PAPTIC® AGENDA

MARKET DISRUPTION IS ENABLER

PAPTIC ADDRESSES CONSUMER NEED

TECHNOLOGY MUST DIFFERENTIATE NEEDED

INDUSTRIAL SCALE-UP



PAPTIC®
AGENDA

MARKET
DISRUPTION
IS ENABLER





"STOPPING THE USE OF PLASTIC BAGS IN OUR STORES IS THE RIGHT THING TO DO"

Frank Henke
Vice President
ADIDAS Group









PREREQUISITES FOR PACKAGING SUSTAINABILITY

PERFORMANCE OF MATERIAL

RE-USE AND END OF LIFE WILLINGNESS OF CONSUMERS FOR RIGHT BEHAVIOUR

PAPTIC

PAPTIC®

PAPTIC
ADDRESSES
CONSUMER
NEED

PAPTIC IS
THE NEXT
GENERATION
OF PAPER

RENEWABLE
RECYCLABLE
REUSABLE





PAPTIC® ENVIRONMENTAL POSITION

- NEW CATEGORY BETWEEN PAPER AND

PAPTIC IS NOT PLASTIC.

REUSABLE BAGS

CONSUMER
PREFERRED WAY
TO REDUCE
OCEAN PLASTIC
ACCUMULATION

BASED ON
CERTIFIED (FSC/
PEFC) WOOD AND
RENEWABLE RAW
MATERIALS

RECYCLABLE WITH CARDBOARD (WHERE SYSTEMS AVAILABLE)

DURABLE FOR MULTI-USE AND CONSUMERS PREFER TO REUSE PAPTIC

PAPTIC HAS LOWER
CO2E FOOTPRINT THAN
OTHER ALTERNATIVES
(PAPER, PLASTIC).



Seppälä

GOES
PAPIC®
INJUNE



PAPTIC BAG ENHANCES THE BRAND IMAGE

PAPTIC BAG IS
ASSOCIATED WITH
HIGH CLASS BRANDS.

"Of course there's a difference if the product is stuffed into a plastic bag or given to you in a nice high-quality bag" - Woman, 35 years

"The bag has an effect on the vibes you get from the store. It somehow finalizes the shopping experience." - Woman, 36 years

CHOICE OF PAPTIC BAG
IS A SUSTAINABILITY
ACTION THAT
CONSUMERS NOTICE
AND PREFER

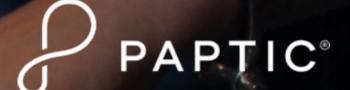
"The bag tells something about the brand, about the big picture. About what they want to say about their values. That's why material choices are important." - Woman, 52 years



FOCUS IN THE RIGHT COMPANIES

		C&A)	THEBODYSHOP	CEGO*	Seppälä
Testimonials	"This is too good replacement of plastic bag, unseen quality in this price range."	"Paptic renewability exceeds all other competitors"	"We're interested to become one of the first global users of PAPTIC®."		"I love Paptic! When can we replace all bags."
Annual bag/ packaging purchase value	37 million €	22 million €	23 million €	24 million €	€250.000





PAPTIC

"Great Move!"
woman in her early twenties

"Now we can put all our goods in these bags, we do not need the plastic bags from other stores"

8 year old girl to her mother

"This feels nature-friendly"
Woman 30 years

"Wonderful and stylish, I am happy to carry this with me"

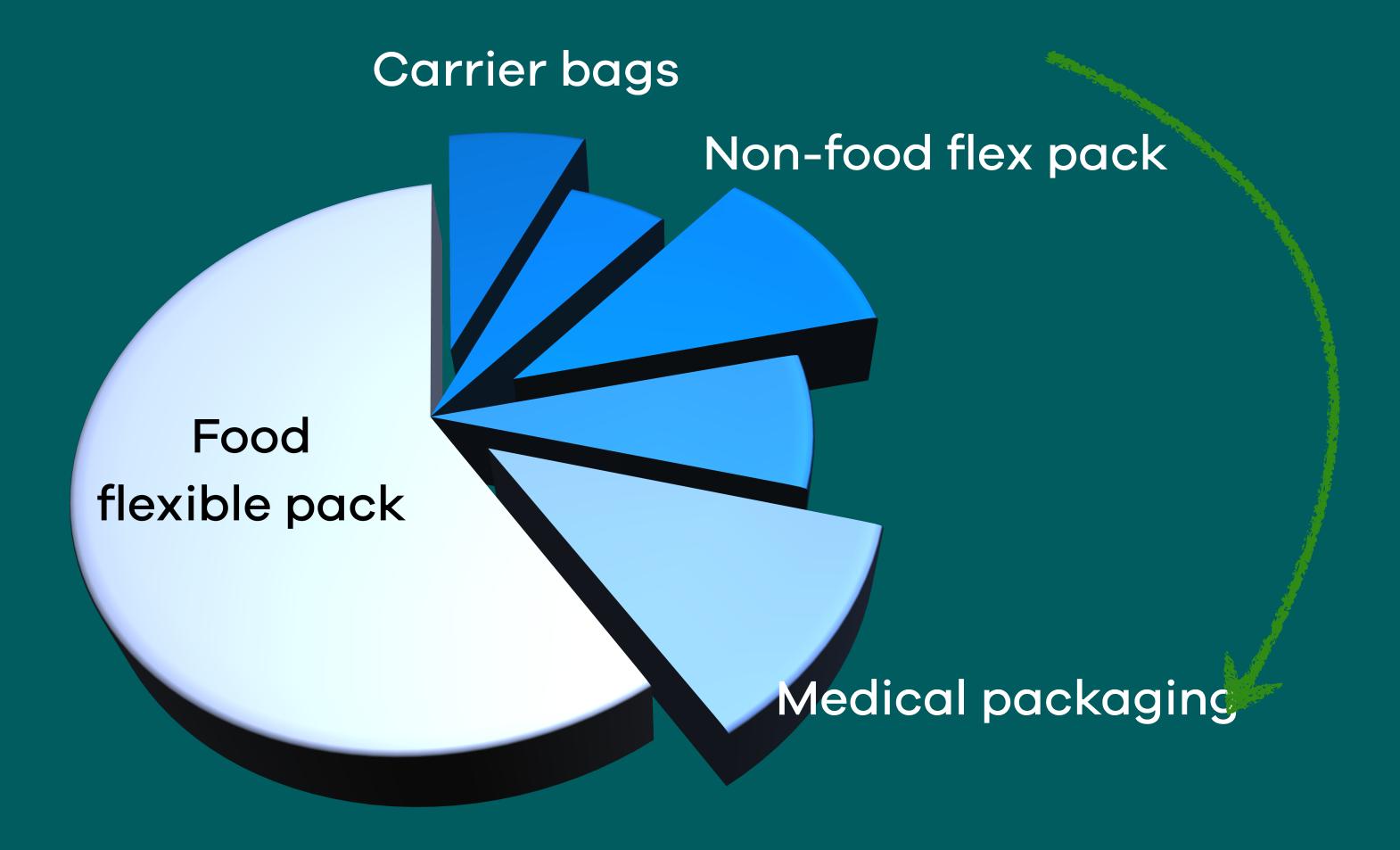
Man in his 60s

"This shows that Seppälä is a sustainable brand"
Woman 45 years





FLEXIBLE PACKAGING MATERIALS IN EUROPE AND US ARE >30 BILLION EUR MARKET



Global bioplastics market CAGR 14%, reaching €28 billion by 2020.

TOP BRANDS TESTING PAPTIC®



German fashion chain

UK cosmetics chain

Global sport brand

German optics chain

Global fashion brand

UK retail chain

CARRIER BAGS

Global toy brand

Consumer electronics brand

Major US retail chain

Global snacks company

EU leading packaging converter

Medical paper producer

NON-FOOD FLEX PACK

MEDICAL PACKAGING

BALANCED GO-TO-MARKET STRATEGY



< 6 month sales cycle

> 12 month sales cycle

> 18 month sales cycle

Easy entry,
market in disruption
wide specification

Application specific requirements

Strong regulatory demands and standards

Limited market size, negative growth

Large market, specific focus, growing +4% CAGR

Large market, growing +9% CAGR

Direct end-user marketing

Focused development with end-users (JDA model)

Partnering model

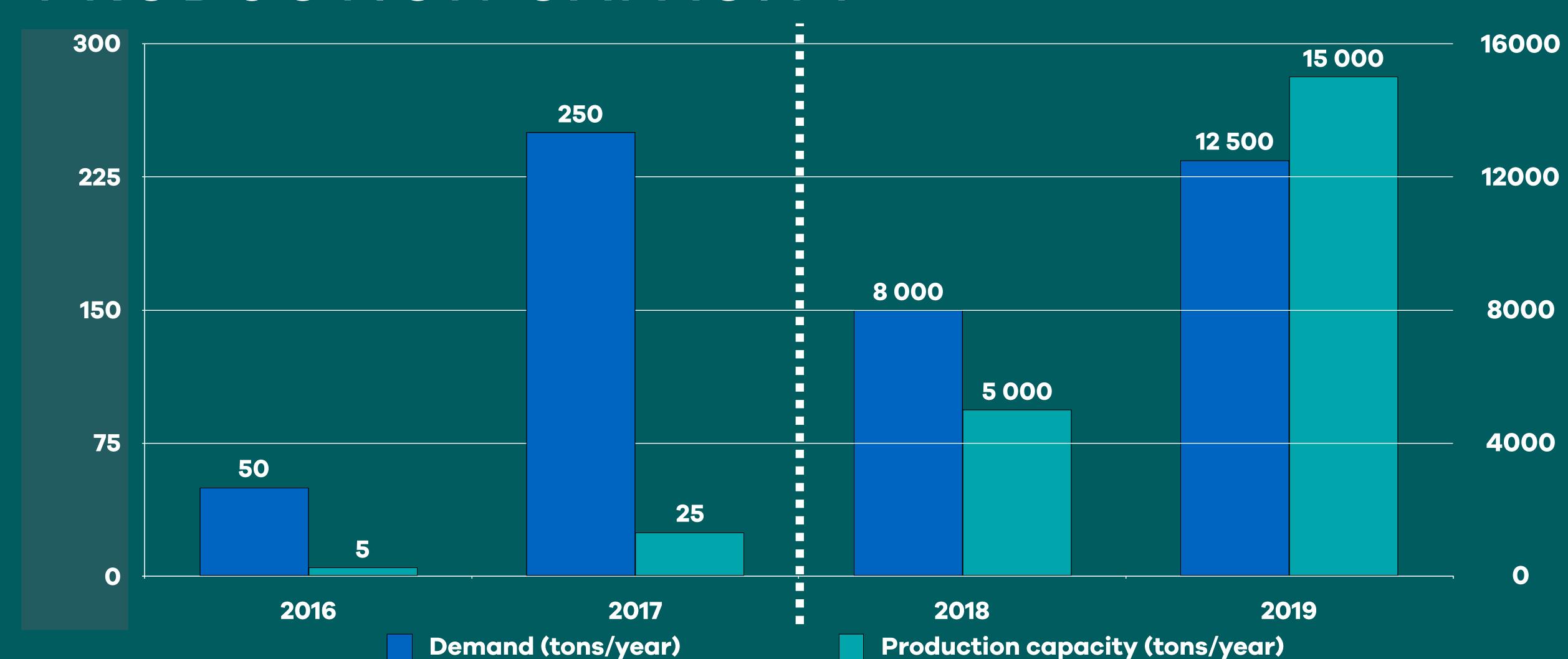
CARRIER BAGS

NON-FOOD FLEX PACK

MEDICAL PACKAGING



MARKET DEMAND EXCEEDS PRODUCTION CAPACITY



PAPTIC®

PAPTIC® AGENDA

TECHNOLOGY
MUST
DIFFERENTIATE

PAPTIC® TECHNOLOGY TODAY

DISRUPTIVE
PAPTIC® FOAM
PROCESS
TECHNOLOGY
WITH IPR
PORTFOLIO
OF 6+ PATENTS



TARGETING
CAPEX EFFICIENT
SCALE-UP BY
UTILISATION OF
EXISTING
INFRASTRUCTURE

BENEFITS OF FOAM FORMING



Excellent formation

High bulk products

NEW PRODUCTS

Wide variety of raw materials

Resource savings potential in water & energy

EXCELLENT FORMATION WITH LONG FIBRES





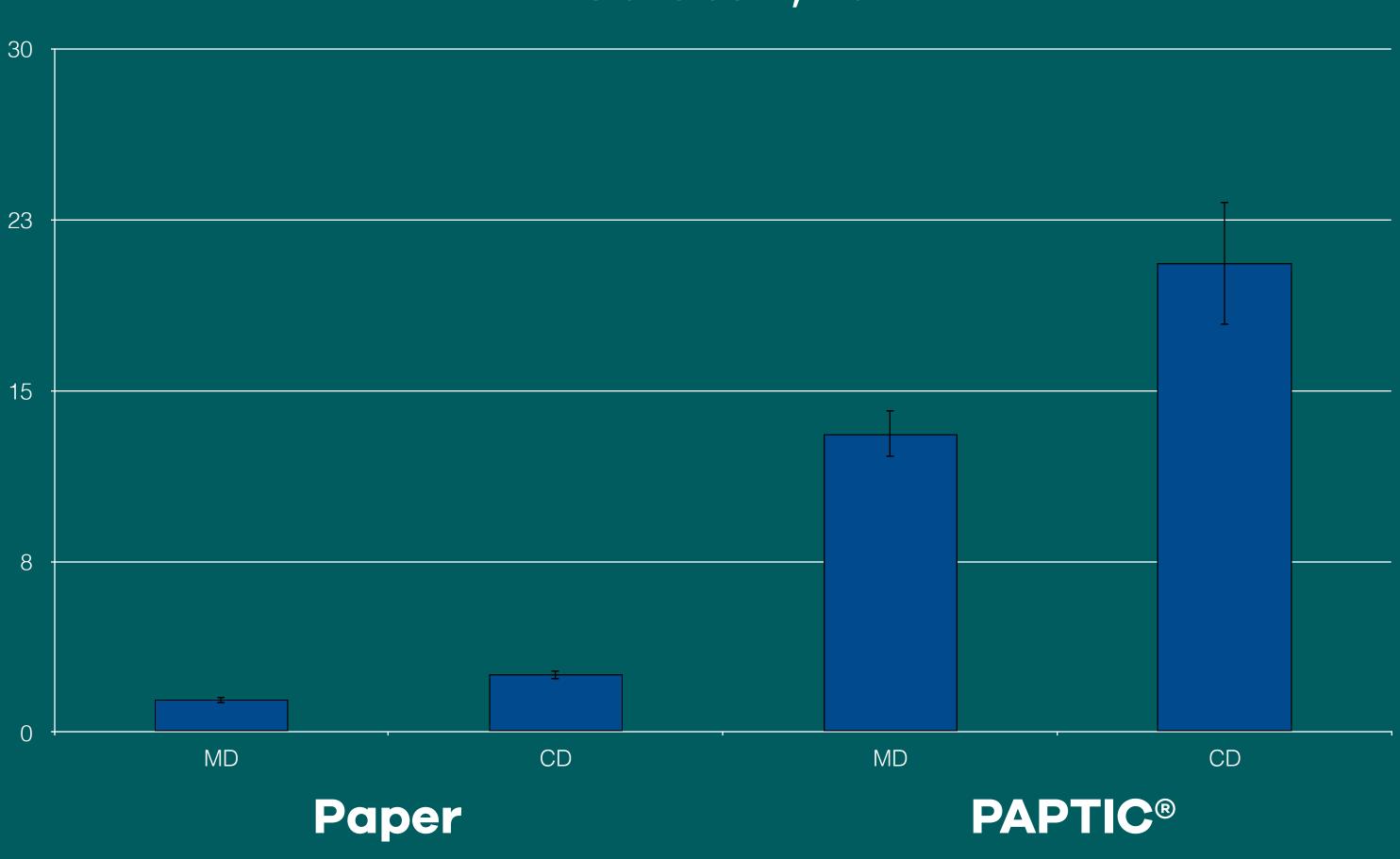
Paper

PAPTIC®

FORMATION+RAW MATERIALS+RIGHT CHEMISTRY = PAPTIC®



Stretch, %





PAPTIC® AGENDA

INDUSTRIAL
SCALE-UP
NEEDED

PAPTIC® PLUGS INTO EXISTING VALUE CHAIN

R&D

Building IPR and new products

PRODUCTION CONVERTING

SALES & MARKETING

Integration with existing infrastructure

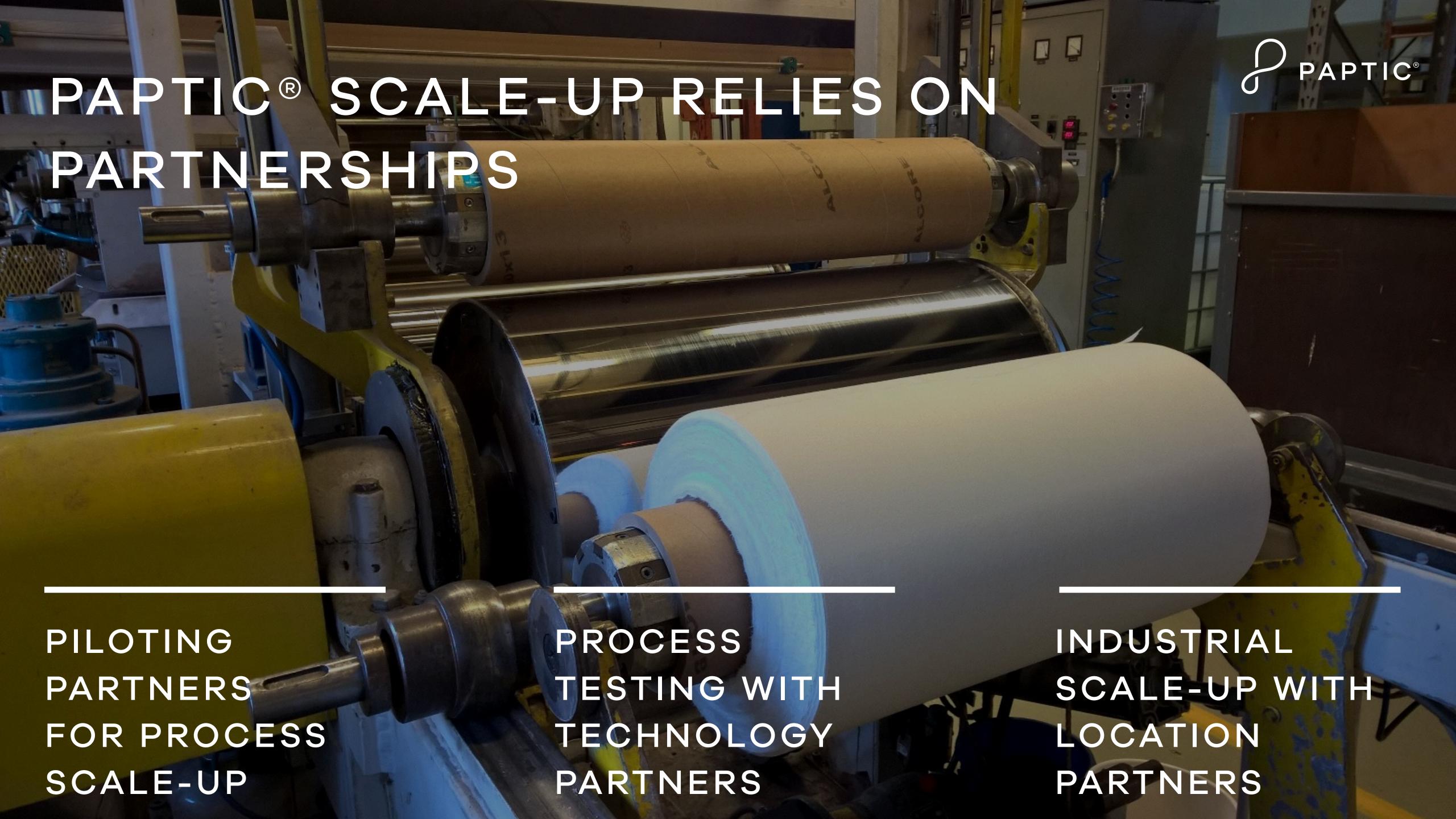
Utilisation of existing machines

Building PAPTIC® brand with brand owner focus

PAPTIC® FOCUS

PARTNERSHIPS

PAPTIC® FOCUS





PRESS RELEASES

2017 (2)

February

STARTUP COMPANY
PAPTIC IS PLANNING A
PAPER MACHINE
INVESTMENT TO
CHALLENGE PLASTIC
WITH A NOVEL WOOD
BASED PACKAGING
MATERIAL

START-UP-YRITYS PAPTIC SUUNNITTELEE PAPERIKONEINVESTOINTIA TUODAKSEEN MUOVIN HAASTAVAN PAKKAUSMATERIAALIN MARKKINOILLE

- > 2016 (3)
- > 2015 (1)

STARTUP COMPANY PAPTIC IS PLANNING A PAPER MACHINE INVESTMENT TO CHALLENGE PLASTIC WITH A NOVEL WOOD BASED PACKAGING MATERIAL

PRESS RELEASE

FREE FOR PUBLICATION

Finnish startup company Paptic Ltd is planning a paper machine investment to upscale the production of its patented PAPTIC material to industrial scale. The demand for PAPTIC material on the market allows for the company's quick transition to industrial-scale production. Currently Paptic is negotiating the financing of the investment with a number of actors. The new production line is scheduled to start production in 2018 and its impact on employment will be more than 30 people.

Bioeconomy is a highly capital-intensive industrial sector. Paptic's goal is to move to industrial-scale production in 2018, less than four years after the company's launch. Paptic's business model is built on strong partnering in the traditional paper industry value network.

The forest industry has closed down a lot of paper manufacturing capacity in recent years. Paptic seeks to take advantage of this existing infrastructure to upscale production with a capital-efficient model. Sharing infrastructure also creates significant synergies when production begins.

BUSINESS MODEL EVOLUTION



BUSINESS
DEVELOPMENT
2016-2017

GROWTH OF
CUSTOMER
BASE BY BAG
SALES AND
PARTNERSHIPS

REVENUE 1 M€

EARLY
GROWTH
2017-2020

REVENUE
GROWTH WITH
INDUSTRIAL
SCALE-UP OF
PRODUCTION

50 M€

SCALEABLE
GROWTH
2020->

FURTHER
CAPACITY OR

TECHNOLOGY LICENSING

>> 100 M€



TARGETING INDUSTRIAL SCALE-UP

FINANCING Q3/2017

•••••

CLOSE
INVESTMENT
ROUND OF
€10 MILLION



START-UP Q3/2018

CAPACITY FOR €50 MILLION REVENUE WITH 29% EBITDA



1) GLOBAL PLASTICS CHALLENGE

In response to global plastic waste challenge, PAPTIC provides an environmentally friendly alternative to plastics.

2) VALUE PROPOSAL

Elevating Retailer's and Brand
Owner's brand by activating
consumers senses with a sustainable
versatile branded solution

3) PAPTIC TEAM

Over 100 yrs of packaging & paper industry experience supported by C-suite industrial advisors.

4) MARKET

Sustainable packaging materials market growing at CAGR 14%, targeted to reach €28 billion by 2020.

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WWW.PAPTIC.COM

PAPTIC®

5) STRONG IPR

Patent portfolio of 5 patent applications and 2 granted patents.

6) DISRUPTIVE TECHNOLOGY

Paptic is the next generation of paper. Environmental benefits of paper combined with function of plastics and textiles.

7) SCALE-UP

Seeking partners for industrial scaleup. Today pilot plant in operation, first industrial factory in opened in 2018.

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