PROGRAMME

15.00 - 15.30 NETWORKING BREAK

15.30 – 15.50 KEYNOTE **Christian Hoffmann**, Energy Transformation, UPM

15.55 – 16.05 INNOVATION PITCH **Pekka Harju-Autti**, CEO, Treebuddy

16.15–16.45 PANEL DISCUSSION

Host: Dr. Jan Feller Panelists: Linda Tissen, Michael Hanf, René Graichen, Christian Hoffmann, Marina Basso Michael

16.45 Closing

17.00 Departure to Port of Hamburg (bus transfer)

Christian Hoffmann

Energy Transformation, UPM







UPM - WE CREATE A FUTURE BEYOND FOSSILS

Christian Hoffmann

German - Finnish Business Forum Hamburg, 3. November 2022



Our businesses



UPM Pulp A versatile range of chemical pulp for many growing end uses



UPM Timber Certified sawn timber



UPM Forest Sourcing wood raw material for sustainable and recyclable products



UPM Energy Low-emission electricity generation of hydro, nuclear and thermal power



UPM Raflatac Self-adhesive label materials for promotion, information and functional labelling



UPM Specialty Papers Labelling materials, release base papers, flexible packaging papers, office and graphic papers



UPM Communication Papers Magazine paper, newsprint and fine papers for a wide range of end uses



UPM Plywood Plywood and veneer products for construction, vehicle flooring and LNG shipbuilding



UPM Biofuels Wood-based renewable diesel and naphtha



UPM Biochemicals Glycols, lignin products, renewable functional fillers



UPM Biomedicals Wood-based biomedical products for medical and life science applications



UPM Biocomposites UPM ProFi decking materials and UPM Formi composite material

Our global presence

19%

Asia

Sales 2021 EUR 9.8 billion 17.000 employees

> 63% Europe





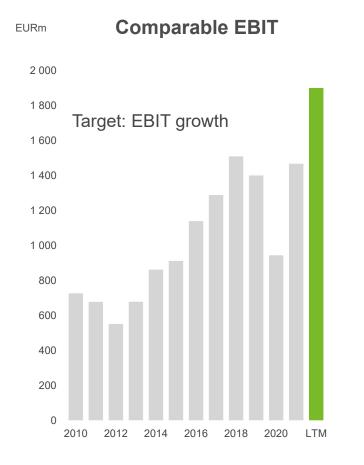
UPM

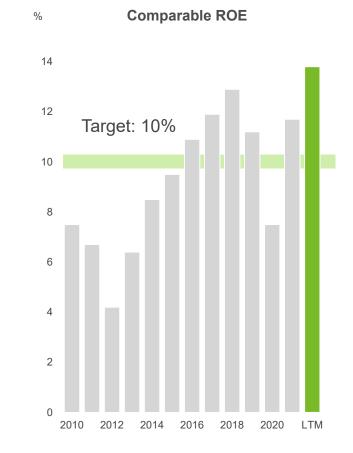
12% North America

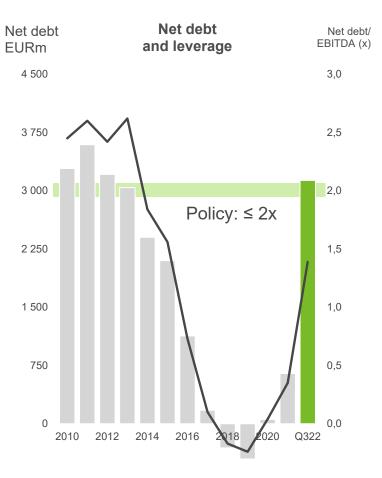
6% Rest of the world



Earnings above pre-pandemic levels







Long-term value creation driven by our spearheads for growth



SPECIALITY PACKAGING MATERIALS

Label Specialty materials papers

FIBRES

Pulp

Forests

BIOREFINING

BiofuelsBiochemicalsBiomedicalsBiocomposites

Communication papers

Plywood

Energy

Our climate commitment



Committed to climate-positive forestry and enhancing biodiversity

CO_2 WE ACT THROUGH EMISSION

REDUCTIONS

-65% from own CO₂ emissions

-30% from CO₂ emissions of supply chain



Innovative products

Scientifically verifying the climate impact of all our products







Leader in responsibility



MSCI ESG RATINGS

Member of Dow Jones Sustainability Indices Powered by the S&P Global CSA

PLATINUM Top 1% 2022 ecovadis Sustainability Rating Bloomberg Gender-Equality Index 2022



Sustainability Award Gold Class 2022

S&P Global



New business in woodbased biochemicals

Responding to strongly growing demand for sustainable solutions



Industrial scale 100 % woodbased biorefinery in Leuna, Germany



Alternatives to fossil materials in various consumer-driven end-uses



EUR 750 million investment Total annual capacity of 220,000 tonnes

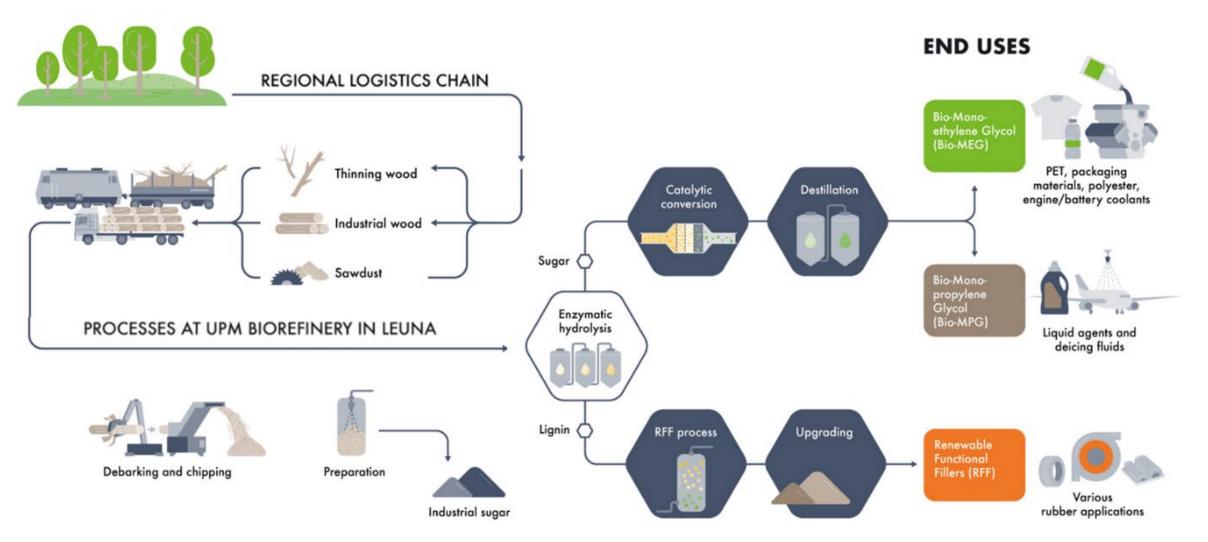
ROCE target of 14%

	-	1
8	3	

Scheduled to start up by the end of 2023



UPM's biorefinery in Leuna: Unique set-up converting all components of wood into materials









SUSTAINABILITY

ERJ Elastomers for TOP 10 SUSTAINABILITY

Company	Project title	Score
UPM Biochemicals	Renewable functional fillers (RFF) for a lighter and more sustainable future	556
Synthos	Extending the magic triangle with a new multi-functionalised SSBR	555
Arlanxeo	Keltan Eco	540
Eneos Materials Corp. (formerly JSR Elastomers)	New styrene-butadiene rubber (SBR) binder for SiOx anode in lithium ion battery	538
Nynas	New bio-based processing oil	523
Semperit	Green Evo Star	515
Cabot Corp.	Engineered elastomer composites (E2C)	515
Eneos Materials Corp. (formerly JSR Elastomers)	New hydrogenated styrene-butadiene rubber	510
Techsyn	New tire technology platform for improved sustainability performance	500
Xillix GmbH The latest E4S Top 10 sustainab	Lignin-based, renewable functional filler to replace carbon black	495





<u>Digital Twin -</u> <u>UPM</u> <u>BioChemicals</u>

UPM Energy's carbon free electricity generation provides cost competitive and reliable energy



Reliable CO₂-free baseload energy to support the electrification of the society



Flexible generation, crucial to balance the volatile energy system



Finland's electricity self-sufficiency significantly improved



Digitalization of hydro power operations and trading

•



Smart River Concept

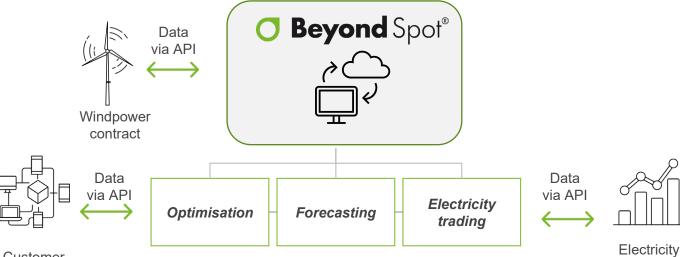
IoT river system measurement systems

AI based river system and power plant optimization

Automated trading tools for Intraday and Reserve markets

ML based maintenance process and tool

Beyond Spot[®]



Customer automation system An innovative energy management service for energy business combination of right data, current tools and competence.

We help you uncover energy savings, sustainability targets and revenue potential by digitalising, automating and optimising your energy management.

market









DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

Pekka Harju-Autti

CEO, Treebuddy





NO BS, JUST TREES



TREEBUDDY MEGATRENDS ON SUSTAINABILITY

Need to tackle holistically the global environmental "Triple challenge": Climate change, biodiversity loss, and environmental pollution

Green transition: massive innovation and capital reallocation

Consumers become increasingly conscious of their goods' environmental impacts

Need for solutions that have all three: People & Planet & Profit

Dominance of capitalistic language throughout the world: Need to include the services of nature to this capitalistic language

TREEBUDDY MEGATRENDS ON DIGITALIZATION

Note: Digitalization is not a technical evolution but rather an industrial and social revolution driven by citizens and customers

- Conversion of almost everything into services rather than ownership: SaaS, cars as a service, gadgets, real estate etc.
- Personalization of the majority of goods offered: consumers' choices are exploding. Improved functionalities, designs, sharing etc. Higher ROI and more enjoyable for consumers
 - Investment in employees, the individual success driver is the key. Work Environment > Flexibility, on-demand, lifelong learning, learning to learn, intrinsic work motivation



The world needs 1000 billion trees (UN 2020)

A huge emerging 1.000 B\$/year market

PROBLEM

Tree planting organizations around the globe always have two weaknesses:

WEAK VERIFIABILITY

They are unable to show in a transparent and real-time manner where and how many trees they have planted

SHORT-TERM FOCUS

They are focusing only on tree planting which is in itself rather easy - but it's <u>tree caring</u> that really counts to ensure long-term impact

Most of 11m trees planted in Turkish project 'may be dead'

Agriculture and forestry union says up to 90% of saplings they have looked at so far have died



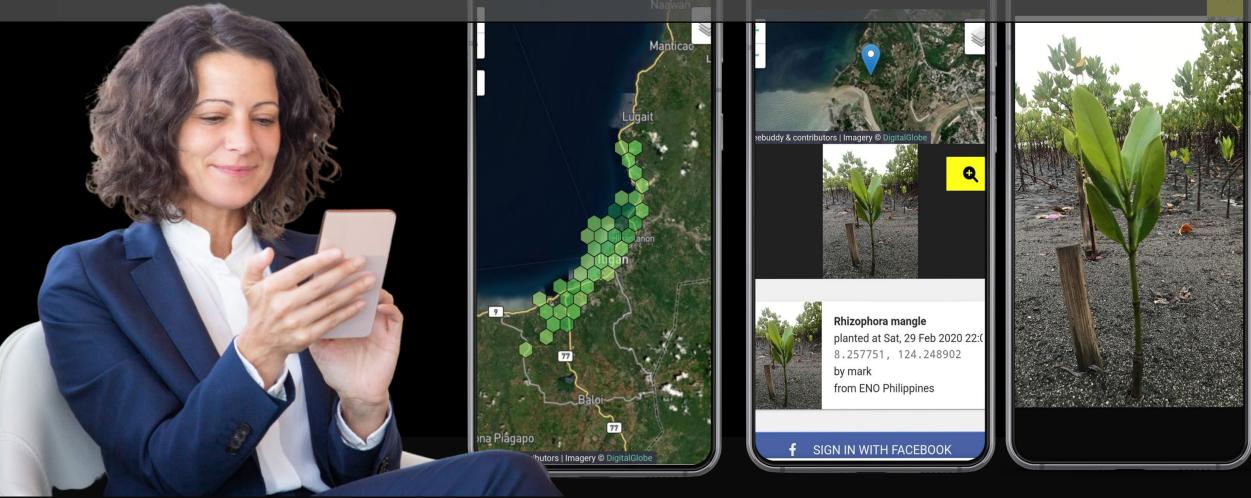
[▲] The Speaker of Turkey's parliament, Mustafa Şentop, planting a tree in Ankara on 11 November 2019 as part of National Forestation Day. Photograph: Anadolu Agency via Getty Images

Up to 90% of the millions of saplings planted in **Turkey** as part of a recordbreaking mass planting project may have died after just a few months, according to the country's agriculture and forestry trade union.

Treebuddy Earth addresses both of these problems with a seamless solution

TREEBUDDY Trees as a service (TaaS)

Our Trees-as-a-service puts every single tree on our global map. Enabling B2B clients to meet their core sustainability goals and allowing anyone to seamlessly join the reforestation movement.





Economic incentives to local tree planters and communities
Treebuddy has already amassed a huge network of tree planters: 10,000 communities in 157 countries

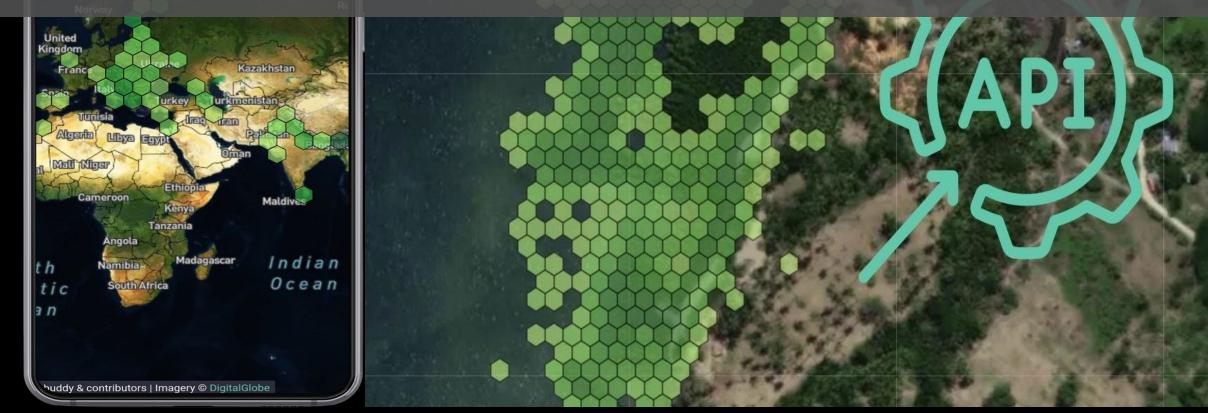


Economic incentives: 1€ after planting and status updates after 1,5,10,15 and 20 yrs

TREEBUDDY A FULLY VERIFIABLE COMPANY FOREST

See your growing company forest in a world map

- A customer loyalty gift
- Event gift for all participants for large events
- API integration as part of own business
- Give climate positivity to your workers



PERSONAL CONNECTION to trees and COMMUNITY ENGAGEMENT



- Access to our virtual community of peers and planters
- Enabling direct interaction with local community through bespoke events
- Learn more about tree planting and care directly from the experts and tree planters themselves!



SOME CLIENTS



"We are incredibly happy with the Treebuddy partnership. It allows us to share gifts that truly make an impact in so many ways. Our customers and our very own Smartlies love the passion and interactiveness during the Treebuddy Club meetings and we are looking forward to a close collaboration in the future."

Mark de Brujn, Director of Global Customer Experience Marketing, Smartly.io

"We want to be sustainable in all of our actions. TreebuddyEarth fits our ideology just perfectly. Treebuddies are subscribed based on the monthly amount of all the pizzas sold. We feed the people with our lovely pizza, enable to plant Treebuddies all around the world and those trees help communities to grow. It's a kind of circle of niceness!" **Maija Ijäs,** restaurant manager, **Putte's pizza restaurants**



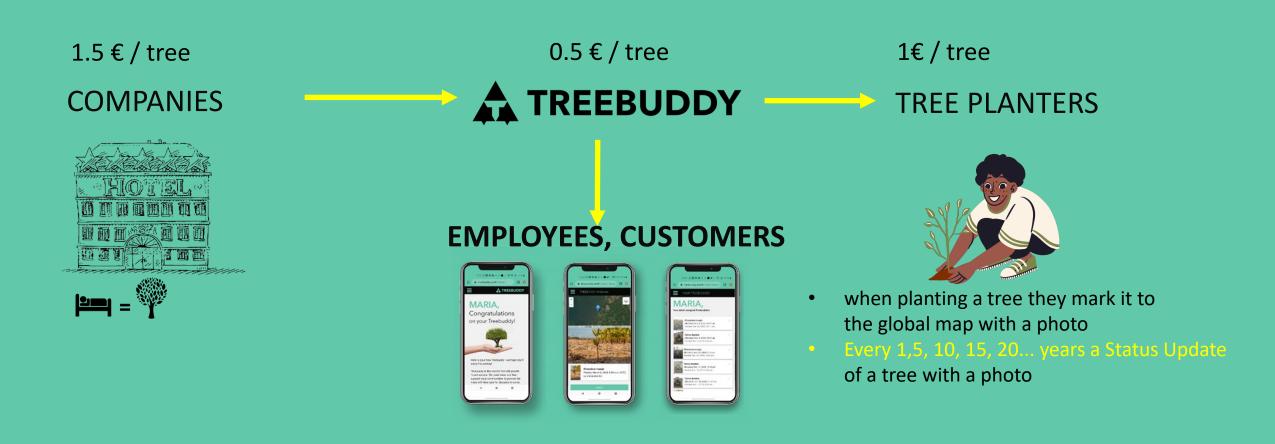
TreebuddyEarth – growing across the globe



4,000+ users

30M trees

157+ countries



We manage global demand with the most reliable tree planting organizations



UNIQUE SOLUTION: GLOBAL COMPETITION ANALYSIS

	Biodiversity	CO ₂	Digital Business	On Map	Frequent interaction with planters	B2B2C benefit	Long Term Sustainability	Climate positive employees
forestswithoutfrontiers.org	Yes	No	No	No	No	No	Partly	No
plant-for-the-planet.org	Partly	Partly	Yes. Donations	1 or many	No	No	No	No
carbonfootprint.com	Partly	Yes	Yes	No	No	No	No	No
mossy.earth	Yes	Yes	Yes	GPS	No	No	No	No
treevotion.com	Partly	Partly	No	No	No	No	Partly	No
Onetreeplanted.org	Partly	Partly	Partly	No	No	No	Partly	No
cedarcoin.org	Yes	Yes	Yes	No	No	No	Yes	No
8billiontrees.com	Partly	Yes	No	No	No	No	Yes	No
tree-nation.com	Partly	Yes	Yes	Yes	No	Partly	No	No
Treebuddy.earth	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



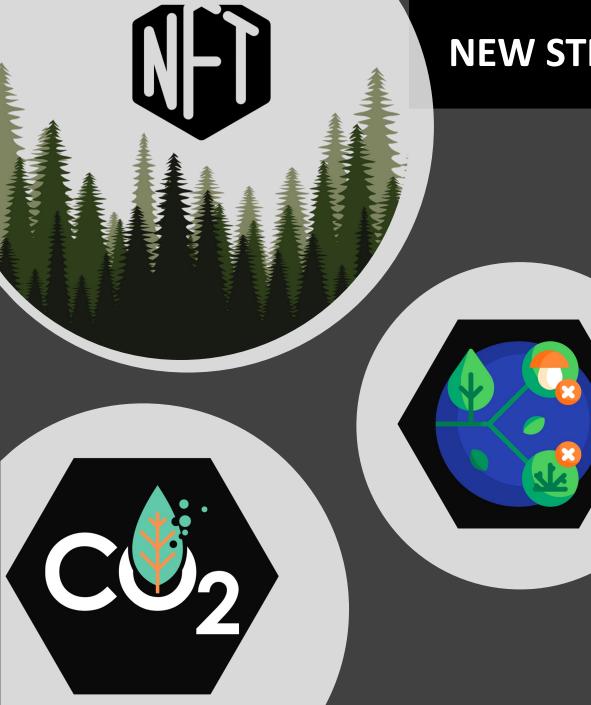


Treebuddy.Earth has been featured in 140 global media sites in 40 different countries



READY TO SCALE UP FOR MILLIONS OF TREEBUDDY

Join our global mission : Investment round on-going



NEW STRATEGIC AREAS

• Trees as NFTs

- Trees to a blockchain
- Carbon credits
- Biodiversity credits

TREEBUDDY GROWTH ESTIMATES AND IMPACT TO LOCAL PEOPLE

Performance metrics	Current value	< 2 years	2030
Trees in care	50 000	600 000	50 000 000
Revenue	120 000€	1 000 000€	75 000 000€
CO ₂ sequestration in	65 000 t	800 000 t	65 000 000 t

20 years



- Local people in numerous countries planting trees Great for local
- schools and education

- Has the received money been used well for community development? Has the feeling of tree
- appreciation/ local ownership increased ?

- Number of trees planted and taken care of
- Number of local people that have planted trees
 CO2 and biodiversity effect of trees

BREADTH OF IMPACT

TREEBUDDY MEGATRENDS ON SUSTAINABILITY

Need to tackle holistically the global environmental "Triple challenge": Climate change, biodiversity loss, and environmental pollution Planting lot of trees - especially Mangroves - is one of the best solutions Green transition: massive innovation and capital re-allocation TreebuddyEarth = Digital platform to preserve biodiversity Consumers become increasingly conscious of their goods' environmental impacts Giving trees can be integrated to various consumer goods Need for solutions that have all the three: People & Planet & Profit We bring the local people to the front, giving long term economic profit Dominance of capitalistic language throughout the World: Need to include the services of nature to the capitalistic language

TB is a tech platform transforming natural capital of trees to B2B clients

TREEBUDDY MEGATRENDS ON DIGITALIZATION

Conversion of almost everything into services rather than ownership: SaaS, cars as a service, gadgets, real estate etc.

Trees as a service (TaaS) puts every single tree on our global map.

It helps B2B clients meet their core sustainability goals

Personalization of the majority of goods offered: consumers' choices are exploding. Improved functionalities, designs, sharing etc. Higher ROI and more enjoyment for consumers

TB makes owning a tree a very personal thing. Trees can easily be shared, and they can be seamlessly integrated to gaming

Investment in employees, the individual success driver is the key. Work Environment > Flexibility, on demand, lifelong learning, learning to learn, intrinsic work motivation

Companies can give climate positivity to their workers Trees as event gifts. Non-material sustainable Xmas gifts



Hey you! Trees are not just CO2 machines. They are our homes. Plus for a big bunch of other species - well, you call it biodiversity. Naturally we want a lot of trees to keep us well alive! (Kekah Natuna, vulnerable,IUCN Red List)

Mangrove forests are natural living places for the Kekah monkeys. Unfortunately, for years, their population has continued to decline as their habitats are destroyed which may soon lead to extinction and they are included in the International Union for Conservation of Nature's (IUCN) Red List of Threatened Species. Treebuddy will be saving endangered Kekah monkey in the remote Natuna island in Indonesia by planting there 200 000 mangrove trees in the next 3 years.

COLLAPSE

BE SURE TO WASH YOUR HANDS AND ALL

WELL RE WELL

Panel discussion

Host



Dr. Jan Feller AHK Finnland

Panelists



Linda Tissen Ecobio



René Graichen Cargotec / HIAB



Michael Hanf Taival



Christian Hoffmann UPM



Marina Basso Michael Port of Hamburg Marketing



#DFBF22

DANKE SCHÖN KITOS! **DEUTSCH-FINNISCHES BUSINESSFORUM Twin Transition**



Deutsch-Finnische Handelskammer Saksalais-Suomalainen Kauppakamari Tysk-Finska Handelskammaren **Premium Partners**









