

Traceability Transparency
Harvested Timber Provenance
Digitalization





Why this problem

- **The world's forests** cover 30% of the earth land
- **Illegal timber** harvesting and distribution
- Industry is at the **digital transformation** gate
- Traditional timber **certification process**
- Existing technologies are **outdated**



Why this solution

- **DeepTech** innovative solution
- Big Data creation, **blockchain**
- **Eco friendly** – consumable free. no tags
- **Easy adoption** – replacing existing process,
- Robust solution **development road map**



Why now

- Forestry ready for **digitalization**
- Forestry management **sustainability**
- **ESG**, climate challenges at global level
- **EU Green Deal, C-footprint monitoring**
- **EU DEFORESTATION REGULATION (EUDR)**:
- ✓ Strong traceability & transparency obligations
geo-localization and the date, time range of
timber sourcing



Why you

- Technological **inventors** -patents filed, pending
- Experienced, skilled dedicated **team of 11**
- **Established 2019**, simple joint stock company
- **ClimateTech** company, listed by PWC CEE report
- Understanding, complying and deploying forestry
regulatory requirements

“The World’s Forests Are Valued At Up To \$150 Trillion – But Decisive Action Is Needed To Prevent 30% Value Loss By 2050”.
Boston Consulting Group report, June 9th, 2020



Addressing Timber Supply Chain Risk Assessment

The **World Bank** estimates €10-15B in **illegal timber** trading loss annually

Up to **30% of all internationally traded timber products** are **illegally sourced**

Deforestation accounts for up to **1/3 of total anthropogenic CO2 emissions**

Deforestation Inc. ”

www.icij.org/investigations/deforestation-inc/auditors-green-labels-sustainability-environmental-harm



Total Addressable Market

Forest ownership

2.400 M ha
State 86%
Private 14%

Sawmill production

141 M m3
USD 118 Billion

World

Serviceable Available Market

Forest ownership

850 M ha
State 59%
Private 41%

Sawmill production

123 M m3
USD 109 Billion

EU, UK Norway,
Switzerland, USA,
Canada, Australia,
New Zealand

Serviceable Focus Market

Forest ownership

81 M ha
State 45%
Private 55%

Sawmill production

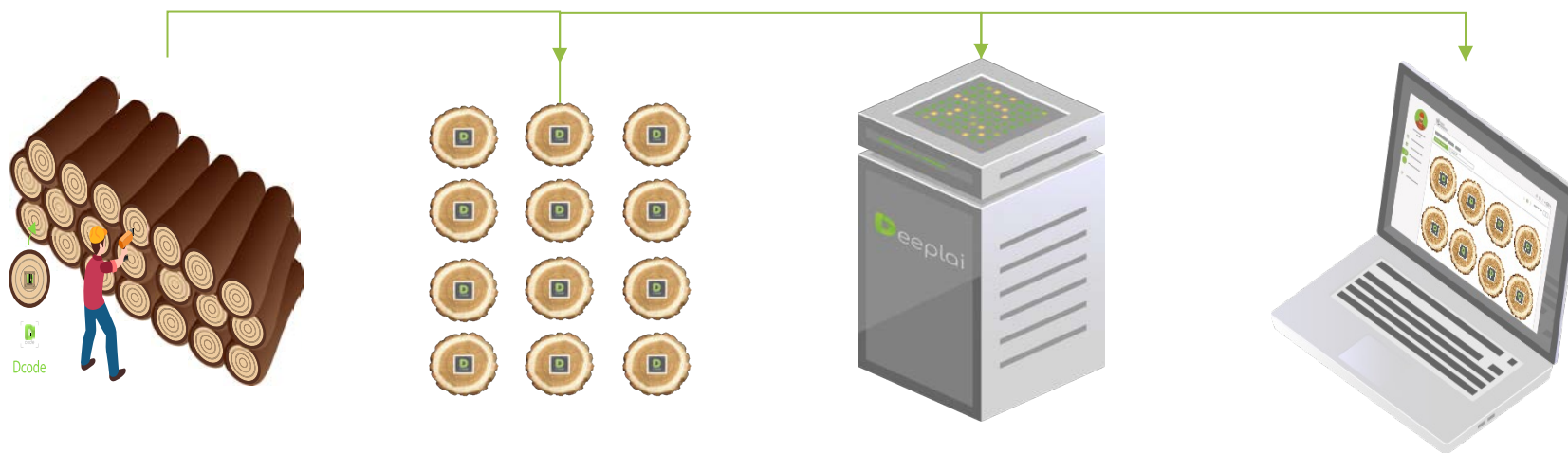
57 M m3
USD 55 Billion

EU, UK, Norway,
Switzerland

Innovation Brings Simplicity

TimberID system for solving the digitalization of forestry supply chain **management and reporting**.

Big Data creation drives the benefits



TimberID, is delivering ~100% accuracy in **harvested timber provenance** authentication

Traceability transparency confirmed by timber log data record incl. geo-localization and timestamp

Existing solutions

PAINT



RFID



PLASTIC



METAL



ELECTRONIC



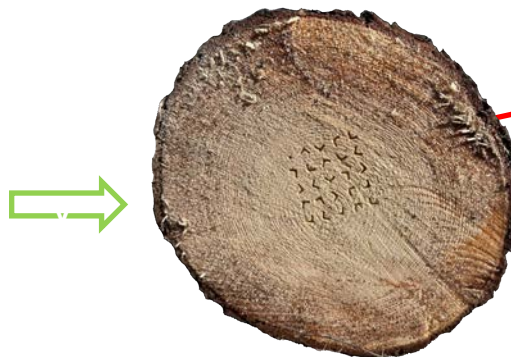
FOIL



Move to Eco Friendly

Forest free of plastic, metal and ink

TimberID



- Variable coding
- GPS location
- Time stamps
- Timber ring surface unique characteristic

Tamper - proof TIMBER ID

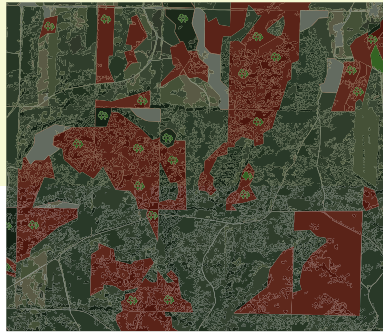
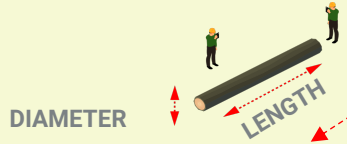
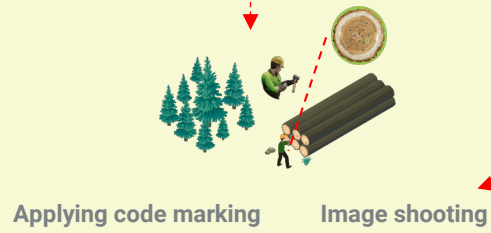
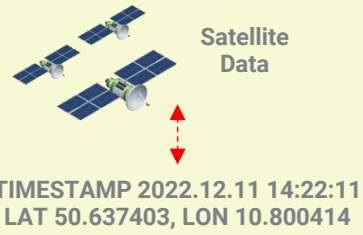
Competitors

latschbacher.com/en
codimex.com.pl/en
timbereye.com

Competitive Marking Technologies

Comparison with existing solutions Cost effective Savings exceeding 50% Delivering regulatory requirement	Total cost of ownership comparison	
	Estimatimed volume 50 000 logs	
	Unit cost EUR	Geo-localization, timestamp provenace data
Platic pre-printed tag, uncl tool kit	0,15	No
RFID tag, incl. Tool kit	0,40	No
DMH-5 applicator incl EDG code generator	0,05	Yes

DATA SOURCING



FOREST HARVESTING

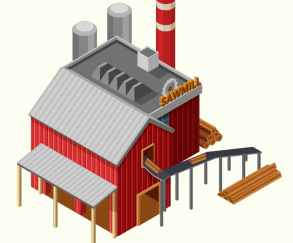
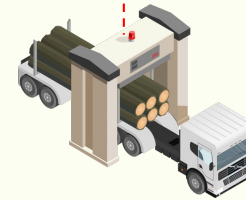
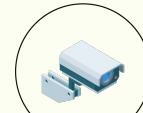
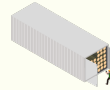
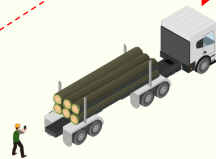
VERIFICATION



Mobile App



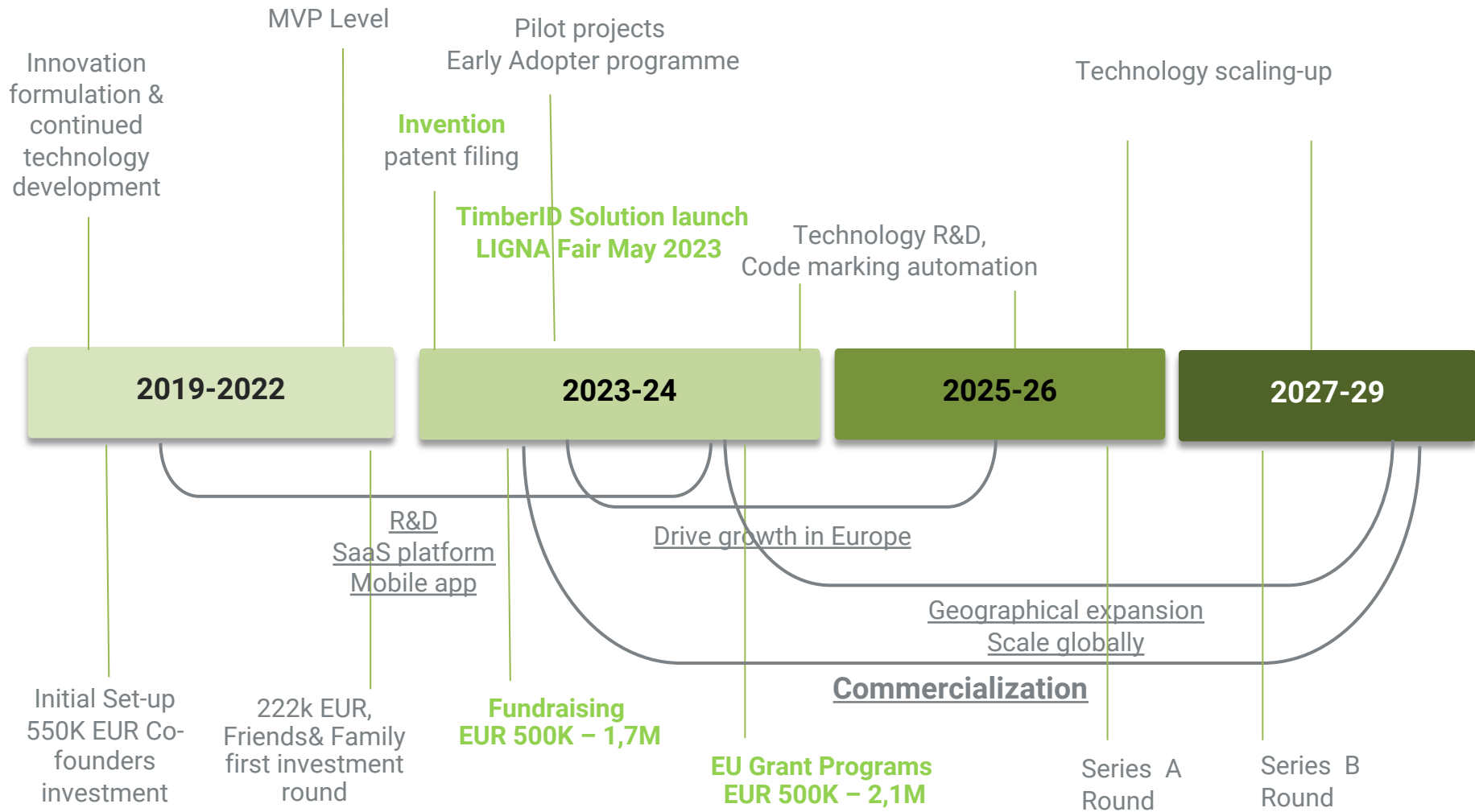
Web Client



TIMBER LOG DISTRIBUTION

PRODUCTION SAWMILL

Development Road Map Milestones



Investment split



60% New Hires



30% GoToMarket



10% Working Capital

Financial projection

K EUR	2023	2024	2025	2026	2027	2028	2029
TOTAL REVENUE	198	1 320	3 365	8 853	18 162	29 956	51 092
TOTAL COGS	60	322	1 229	3 234	7 038	11 550	20 435
TOTAL COST	604	1 769	2 291	3 954	4 622	5 256	6 000
EBIDA	-466	-771	-155	1 664	6 500	13 149	24 652
REVENUE/EBIDA	-235%	-58%	-5%	19%	36%	44%	48%

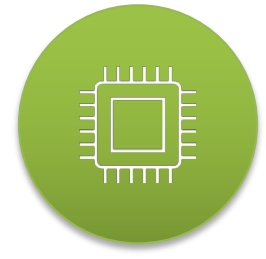
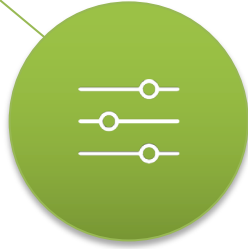
TimberID Acquisition

Licencing model

Hardware purchase

One off fee

Monthly recurring fee



SaaS software access fee, web client interface, AWS setting

Customization integration cost

SaaS software maintenance, support, upgrade

Mobile App

DcodeR, DcodeRAut
Electronic Data Generator
Camera

Sustainable Forestry Innovators

Enthusiastic development team of experienced great individuals.



Edith



Yaroslavl



Raphael



Peter



Martha



Michael



Sebastian



Luke

Leadership team brings the combined know-how of entrepreneurship, finance and operations.



Swapan Chaudhuri | **Cofounder and CEO**
Senior Executive at Xerox, Kodak, Danaher in CEE



Andrzej Saja | **Cofounder and CTO**
Experienced IT architect, global projects



Michael Proschek-Hauptmann, **Advisory Board**
Chief Compliance and Sustainability Officer
Associate Member of the Management Board
HS Timber Group GmbH



Gianni Picchi, PhD, **Advisory Board**
Researcher at CNR-IBE
Fields of expertise
Precision Forestry, Forest Operations,
Biomass Production