

VMF LATVIA

- timber measurement services in a customer defined framework

Jānis Buļs
Chairman of the Board
VMF LATVIA

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Riga

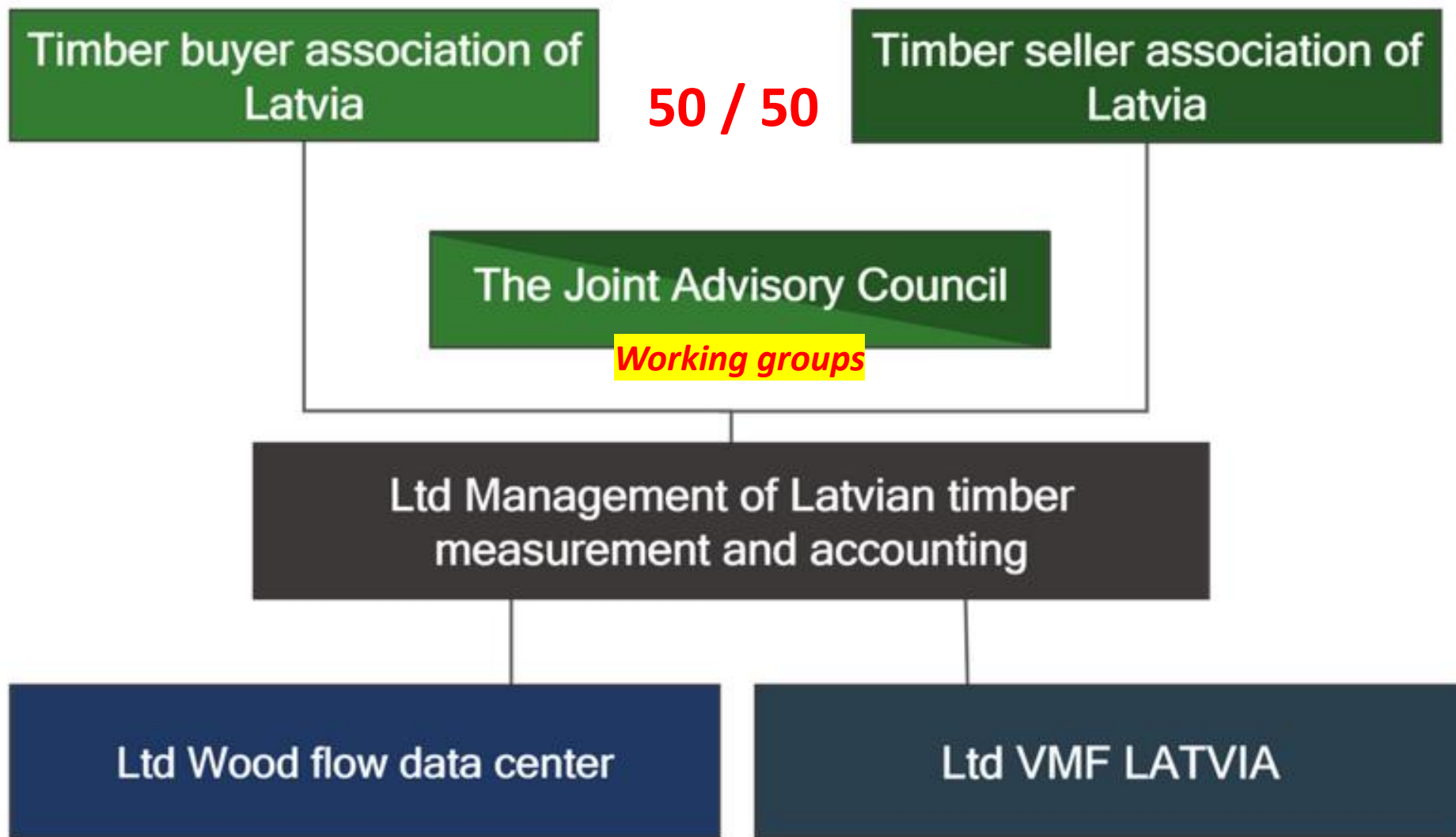
Establishment of VMF LATVIA



VMF LATVIA was founded in 1998 as a subsidiary company of the Swedish company VMF Qbera Ekonomisk Forening (VMF Qbera) with the aim:

to introduce model of independent
timber measurement in Latvia.

Since 2011 fully owned by **LATVIA's** timber sellers and buyers associations.



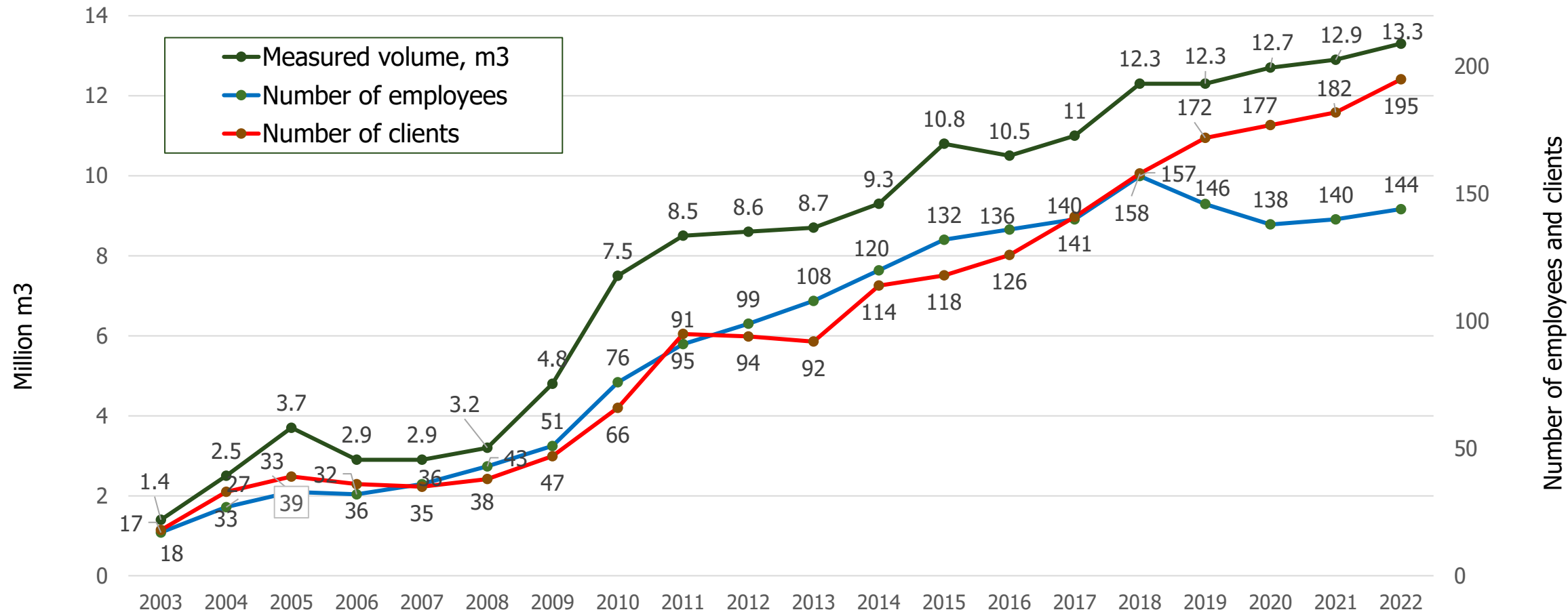
STRATEGIC GOALS



Company Overview (2022)

- Founded in 1998
- 144 employees
- Turnover 5,4 M EUR
- Total Measured volume 13,3 M m³
- Number of Customers – 195

Measured volumes, number of clients and employees, 2003-2022



Authorization and Accreditation



Authorized by Biometria (VMR*) since August 2003
*(Swedish Timber Measurement Council)



LVS EN ISO/IEC 17025:2017 since January 2006
(Latvian National Accreditation Bureau)

Future: Third party of Joint Advisory Council?

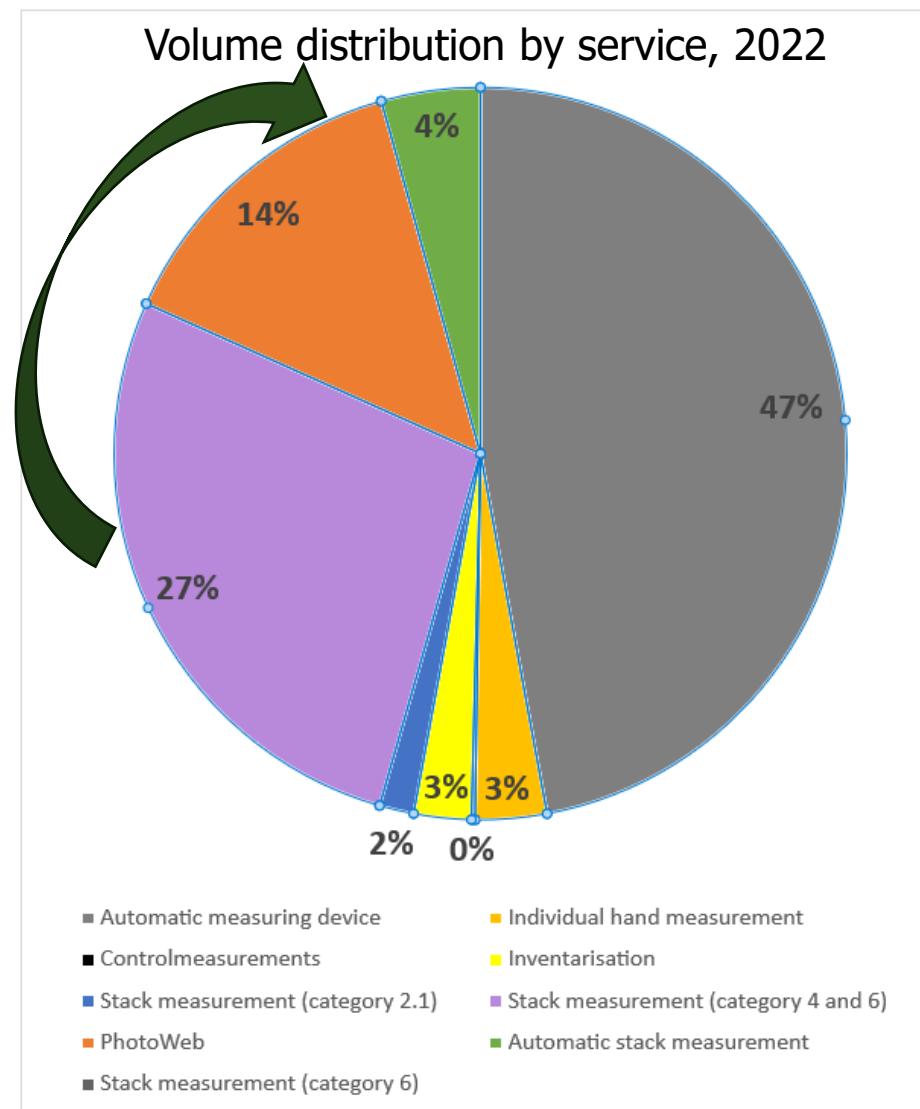
VMF LATVIA regions

IT services at
Data Centre



Development trends, mainly under the pressure of rising labor costs

Stack measurement:
Use of image technologies
- mobile and stationary,
manual and automated,
as well as automation of
image processing with
artificial intelligence (AI)



Individual measurement:
The use of artificial
intelligence (AI) machine
vision technologies in the
assessment of timber quality

Remote measurement technologies

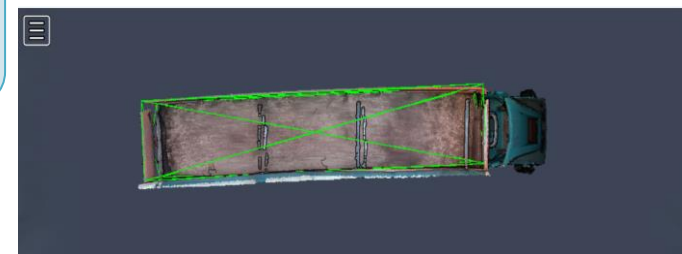
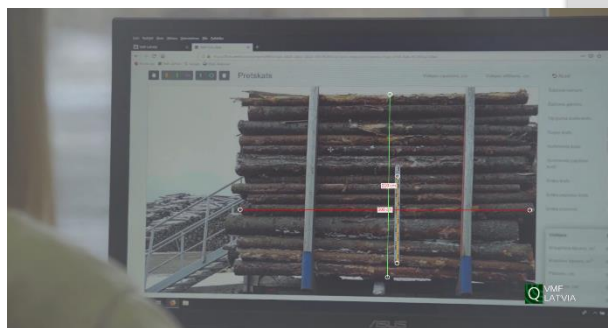
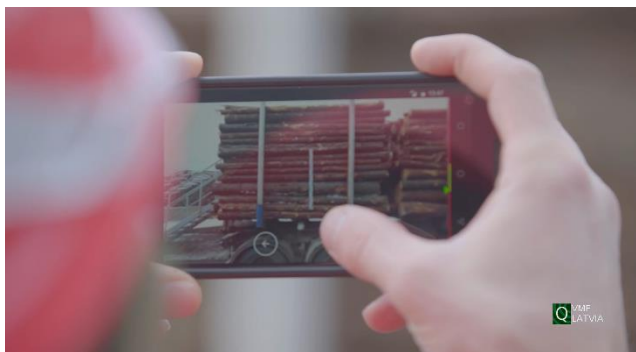
Remote group
measurement

FotoWeb

Mobile solution

KPDC Frame

Stationary device



Stack measurement with photo measuring technologies

Mobile solution for remote stack measurement on trucks by using image processing technology –

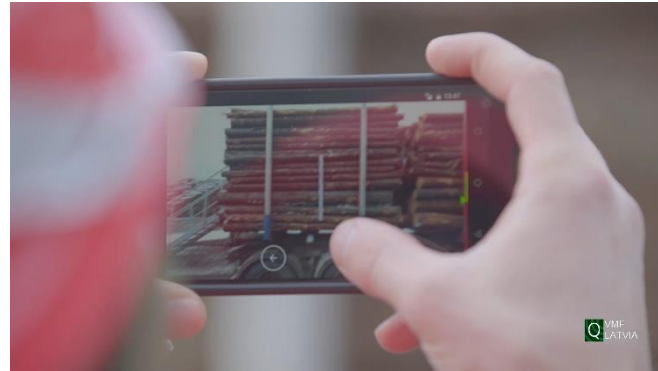
VMF Mobile Photo Web

Stats:

- Regular deliveries for sawmills and irregular deliveries of fuelwood for private consumption
- About 100 customers
- Measured volume (2022) – 1,85 M m³

Observed benefits:

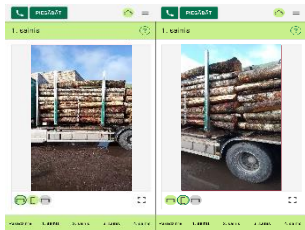
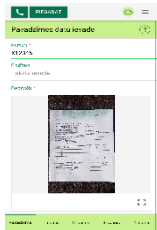
- Increased availability of VMF LATVIA measurement service
- Shortened time interval (delivery → measurement → testing report)
- **2x lower** service costs compared to manual measurement on-site



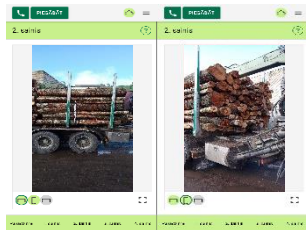
VMF Mobile Photo Web - process

Client - app user

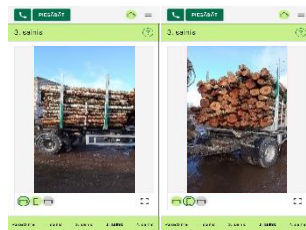
Stack No. 1



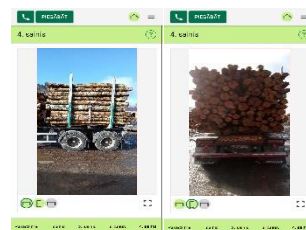
Stack No. 2



Stack No. 3



Stack No. 4



Scale

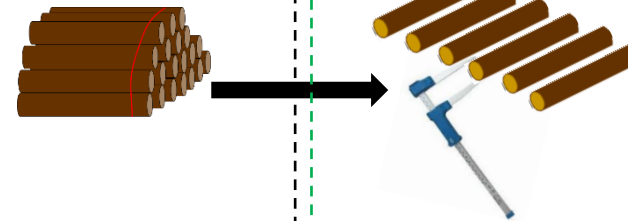


- User sends photos



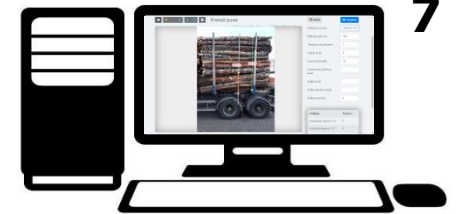
VMF Photo mobile app

Control measurement process



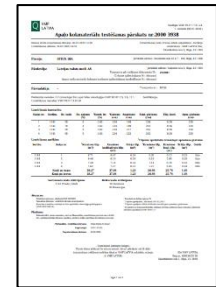
VMF LATVIA - scaler measures the load and prepares the results

VMF Photo Web app



7 min

Testing report



Stack measurement with automatic measuring device – **KPDC Frame**



NACIONĀLAIS
ATTĪSTĪBAS
PLĀNS 2020



EIROPAS SAVIENĪBA
Eiropas Reģionālās
attīstības fonds

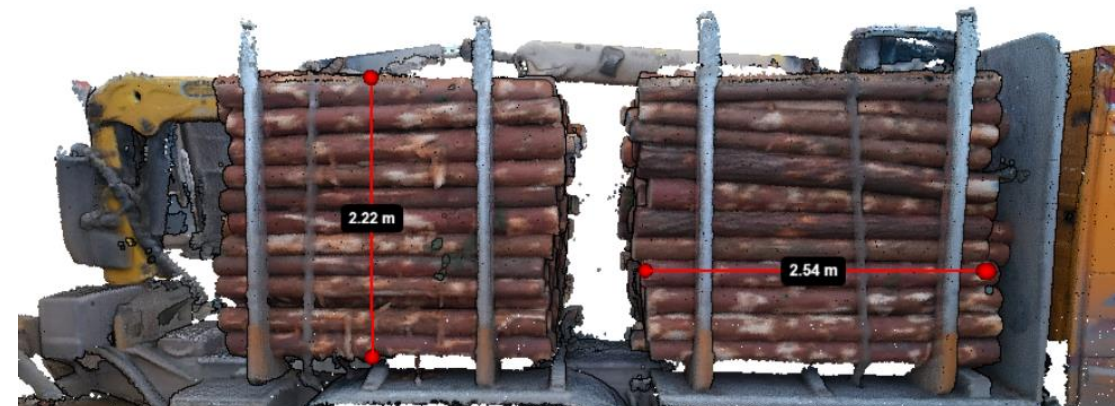
IEGULDĪJUMS TAVĀ NĀKOTNĒ

- What is it?

- Stationary device and its IS that enables remote and automated acquisition of timber cargo data (waybill content, cargo images and 3D model of cargo)

- What does it provide?

- Recording of timber cargo content at the time of delivery
- Timber cargo flow in 24/7 mode
- Efficient management of timber warehouse
- Reduced measurement service costs



*MNKC project Nr. 1.2.1.1/18/A/004_P7 “Stack measurement automation options”

Ongoing projects and future development

- **Improve connections with:**
 - Terminals' management system
 - Resource management system
- **Development of systems:**
 - e-waybills (process development)
 - Automatisatisation of truck load geometry measurement (PhotoWeb)
- **Use of AI:**
 - Automatisatisation of determination of volume coefficient
 - Timber quality assesment

Thank You!

Jānis Buļs

Chairman of the Board

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