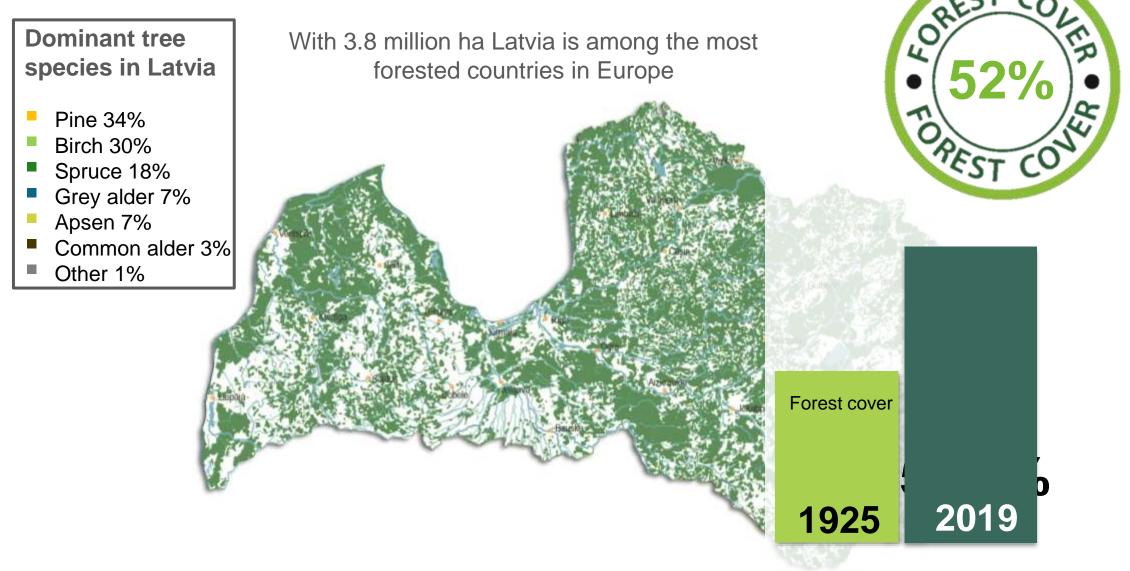


Forests in Latvia 1925

With 3.8 million ha Latvia is among the most forested countries in Europe

Forests in Latvia 2019 With 3.8 million ha Latvia is among the most forested countries in Europe

Forests in Latvia 2019

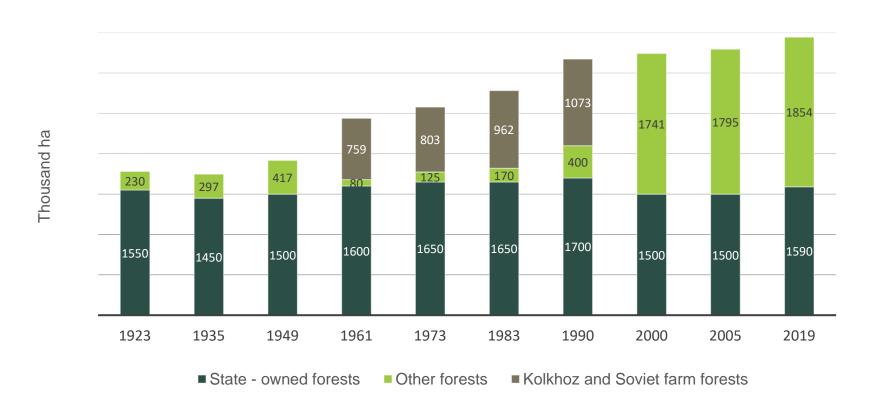


Forest Area by Property Form

The largest Top 5

Forest land managers in Latvia / land acreage, ha /

1.	AS «Latvijas valsts meži»	1 600 000 ha
2.	Sodra grupa	125 600 ha
3.	IKEA GROUP	90 000 ha
4.	SIA «Rīgas meži»	60 400 ha
5 .	SIA «Isnaudas mežs»	26 600 ha





IN LATVIA FOREST ACT IS BINDING TO EVERYONE

Cabinet Regulations

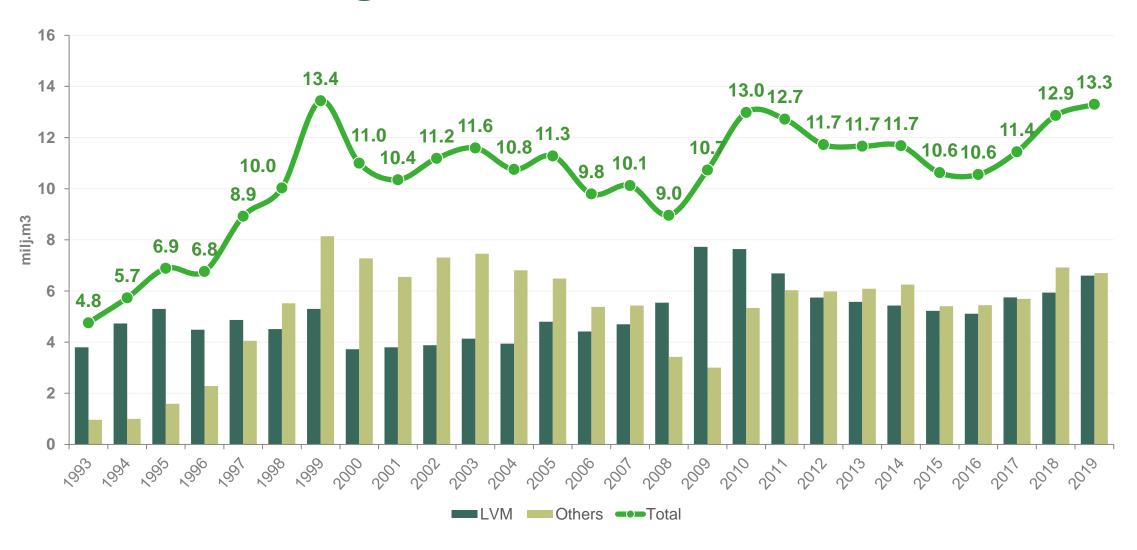
Forestry Act

> Forest Act

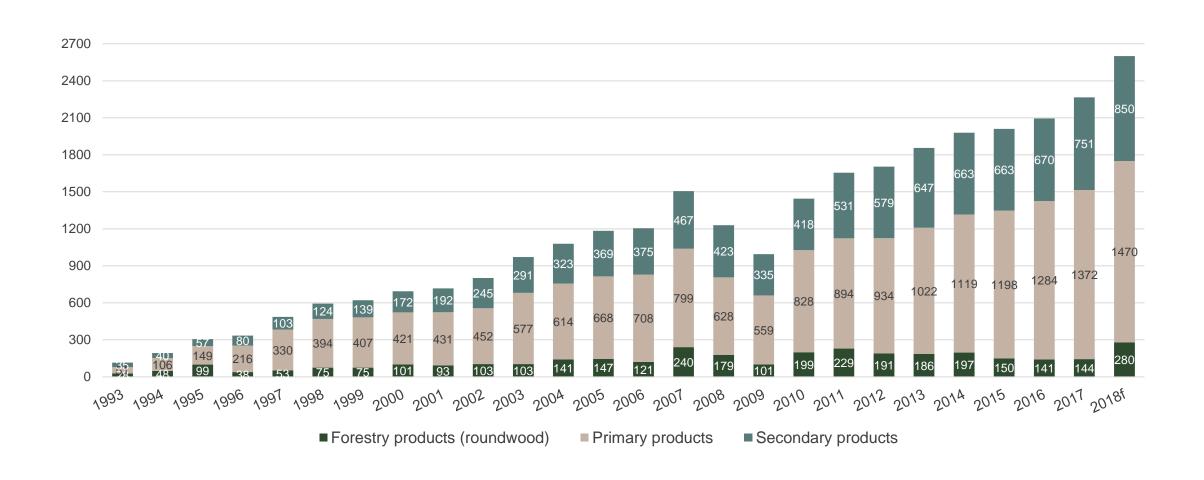




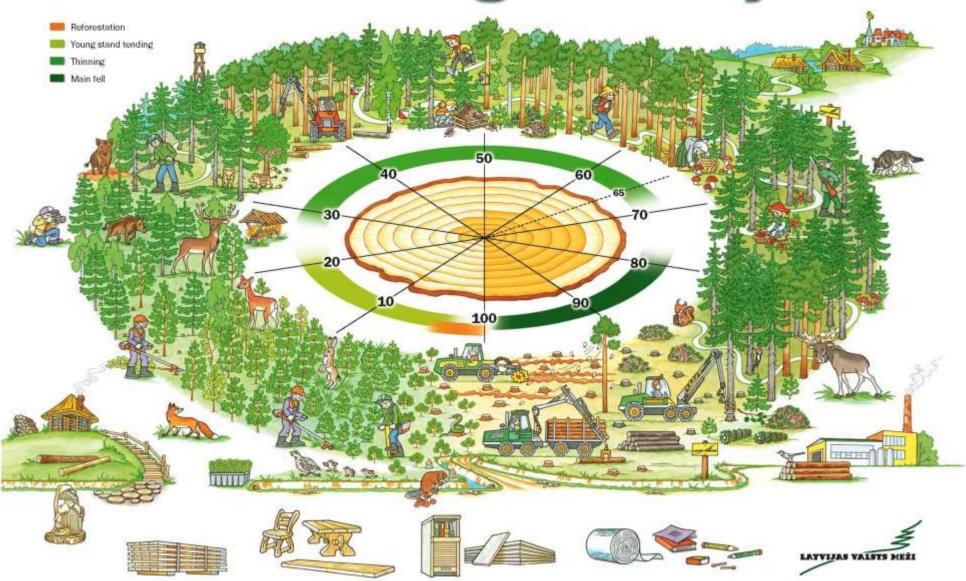
Felling Volumes of Latvia, million



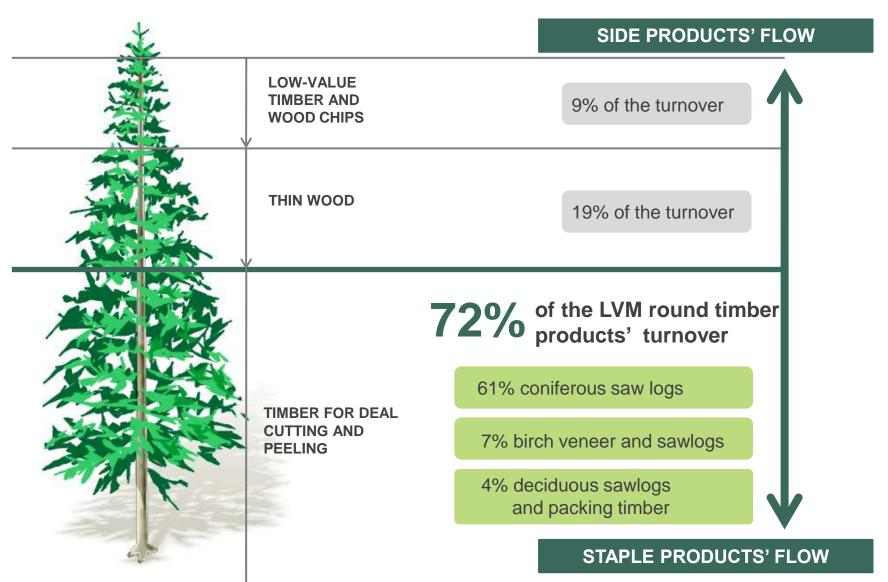
Export Value of Forest Industry, mill. EUR



Forest management cycle



LVM Round Timber Flow 2019



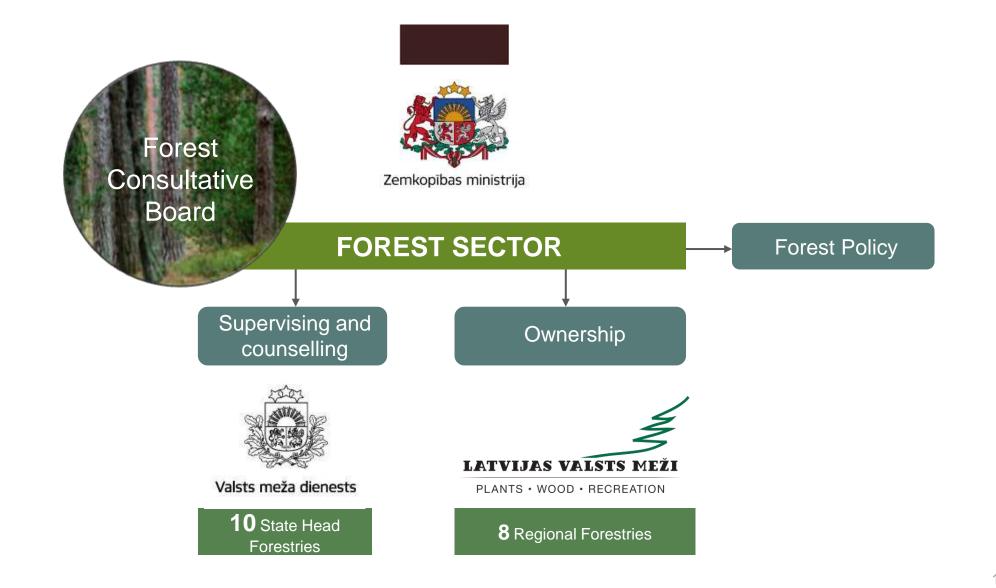


PLANTS • WOOD • RECREATION

Forest Management Principles



Forest Sector Administration





Founded in 1999



JSC «Latvia's State Forests» (LVM) pursue state interests in forestry by sustaining and increasing the forest value, while gaining maximum possible value from forest management



1021 employees



One of the Baltic's leader in efficient and innovative forestry

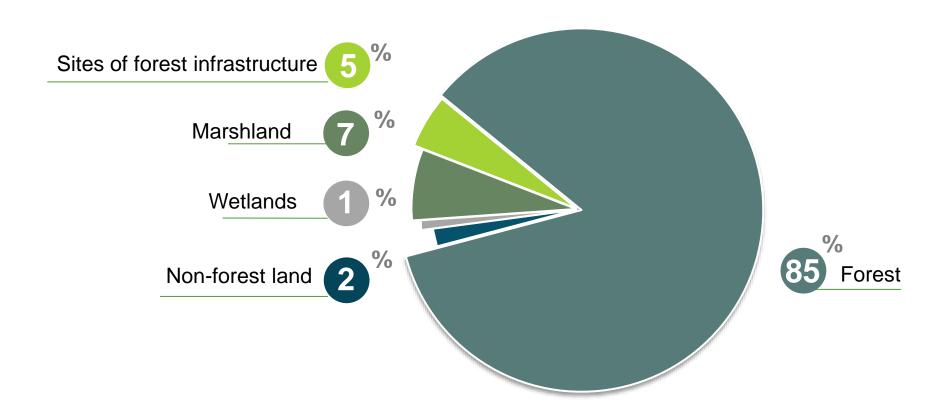




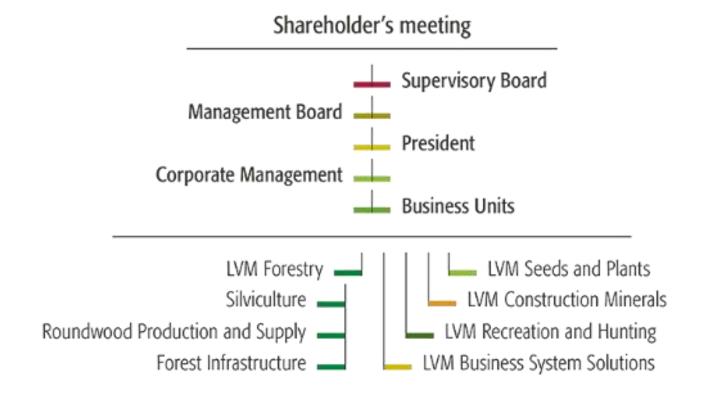
managed forests



LVM Area Under Management



Organizational Structure



Related companies

Jaunmokas Castle (100%)
Forest and Wood Products Research and Development Institute (40.22%)



We are considerate, careful, gentle and caring owner of Latvia's state forests, leader of the Baltic Sea Region in effective and innovative forest land management.





CONSIDERATE

The choices we make today should not limit tomorrow's opportunities



CAREFUL

Quality, proficiency and innovation drive our efforts



GENTLE

We are mindful about the environment where we live



CARING

We care about the people around us strengthening our employee's skills, loyalty and ambitions.



Strategic Goals



To ensure sustainable management of LVM according to its mission and vision, the company has established strategic goals, dividing them in three equally essential blocks of issues – environmental, social and economic.

Economic Goals

Derive regular profit and positive cash flow from economic activities

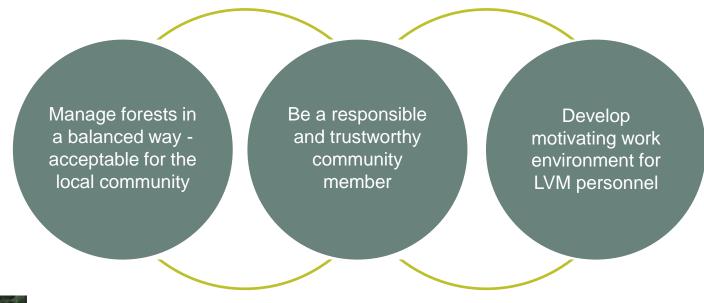
Increase the company's asset and forest stand value

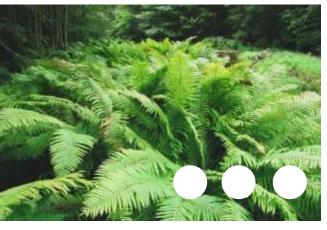
Improve the quality of services offered to customers

Become a stable and predictable partner to the customers, suppliers, and service providers Increase the
efficiency of
business activities
and strengthen the
capacity of service
providers

Develop wood products of high added value, promote the use of services and knowledge

Social Goals





Environmental Goals

Conserve biodiversity

Contribute to a caring attitude towards forest environment

Mitigate the global climate change

Decrease the impact of management activities on forest environment

LVM products and services

Supply of wood assortments

LVM delivers to its customers sawlogs, veneer logs, industrial wood, pulpwood and fuelwood. Sawlogs and veneer logs are supplied to woodworking enterprises in Latvia. Other assortments are sold following the FOB provisions.



Supply of fuel chips

LVM supplies fuel chips to produce green energy in Latvia and abroad.



Seeds and plants

LVM produces forest tree seeds and seedlings, as well as ornamental tree seedlings.



Services in recreation and hunting

LVM at its recreation sites offers recreation services – licensed angling, crayfish catching as well as hunting for locals as well as foreign customers in its managed forests.

Mineral resources

LVM offers sand, gravel, as well as peat extraction. The customers of sand and gravel are road construction companies, who carry out construction activities in forests and public highways.

Business System Solutions LVM GEO

Information system platform and derived tools work with any form of data and can be adjusted to the needs of different industries' companies – forest management, real estate, communication infrastructure, monitoring of natural process, providing services and other areas.





Business principle - outsourcing

Forest management

- ~ 675 companies
- ~ 2000 employees



Infrastructure building

- > 200 companies
- ~ 3000 employees

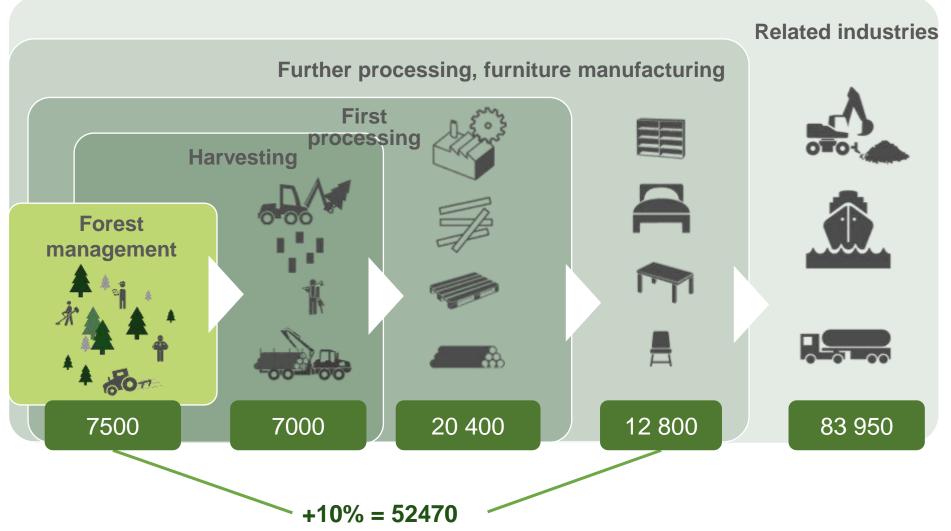
Timber transportation

- ~ 45 companies
- ~ 160 forwarders
- ~ 440 forwarder drivers

Harvesting

- ~ 140 companies
- ~ 164 harvesters
- ~ 210 forwarders
- ~ 900 operators
- ~ 800 loggers

Jobs in the Forest and Related Industries



Source: The Information Centre of Forest Industry



LVM Seeds and Plants >



LVM Seeds and Plants Fields of Activity



Produces seeds and plants for the maintenance of the forest area managed by LVM



Sells forest tree seeds and plants on the domestic and export markets

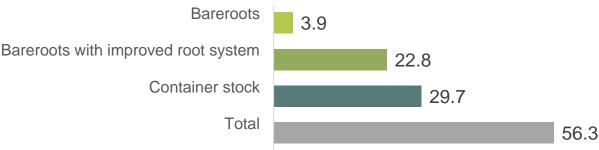


Operates 9 tree nurseries, produces and stores seeds at 3 cone drying facilities



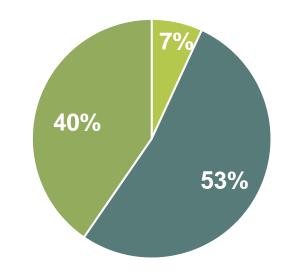
Manages Kalsnava arboretum

Forest Tree Plant Production in 2019, million

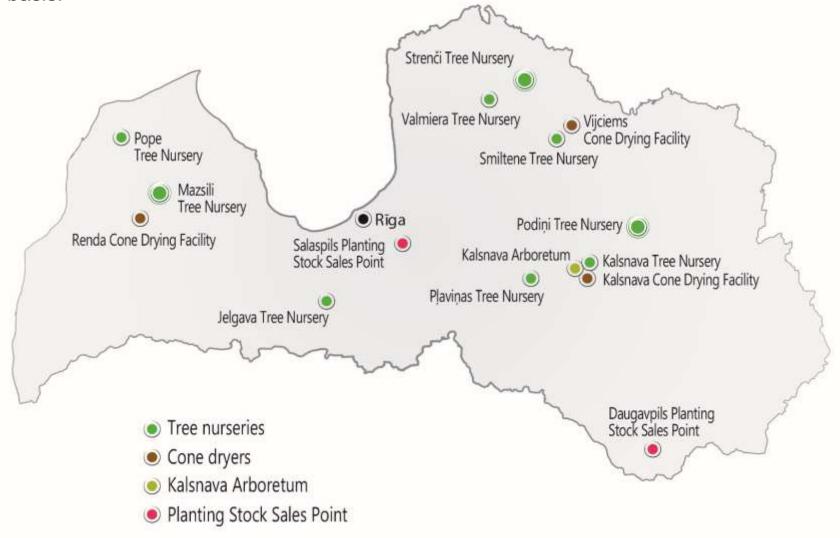


LVM Seeds and Plants

The production capacity of 9 nurseries allows LVM to put on the market more than 50 million forest tree plants per year with the target figure of 68 million for the upcoming years. In 2019, the sales volume was 56.3 million plants. LVM also manages Kalsnava arboretum also known as the garden of interesting trees. It also markets more than 800 denominations of ornamental trees and shrubs.



Tree seeds are acquired in cultivated forests, the total area of which is 513 ha for pine, 152 ha for spruce and 33 ha for other tree species. As the forest trees don't produce seeds every year, LVM keeps a strategic reserve of seeds to ensure the cultivation of forest planting stock on a regular basis.













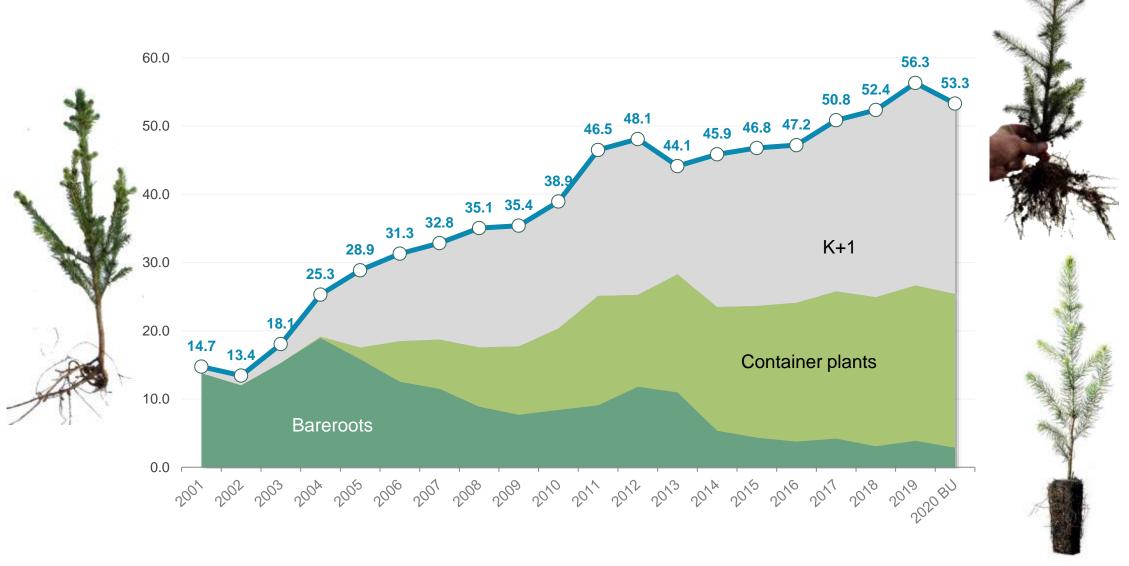




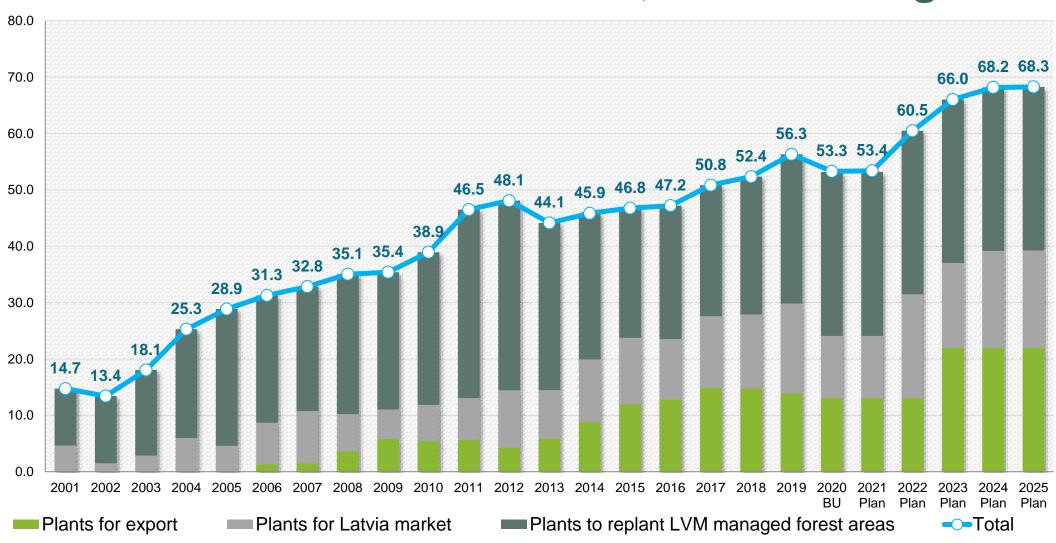




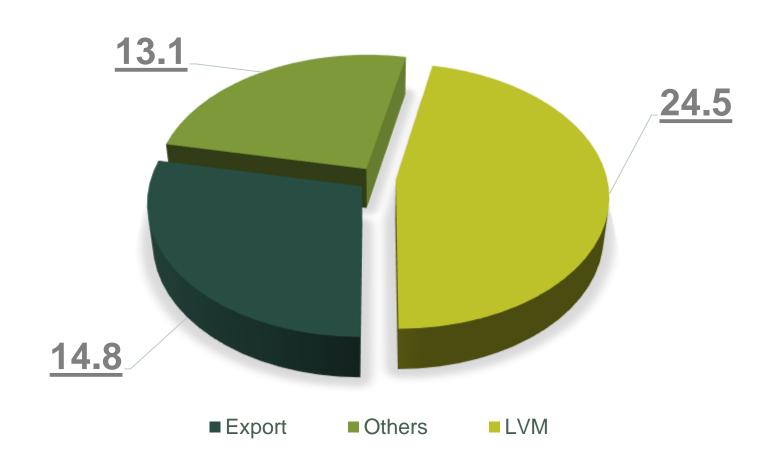
Plant Production



Sales of Forest Tree Plants, mill. Seedlings



Sales of Plants in 2019, mill. Units





LVM Forest Infrastructure Fields of Activity



Forest roads - MAC

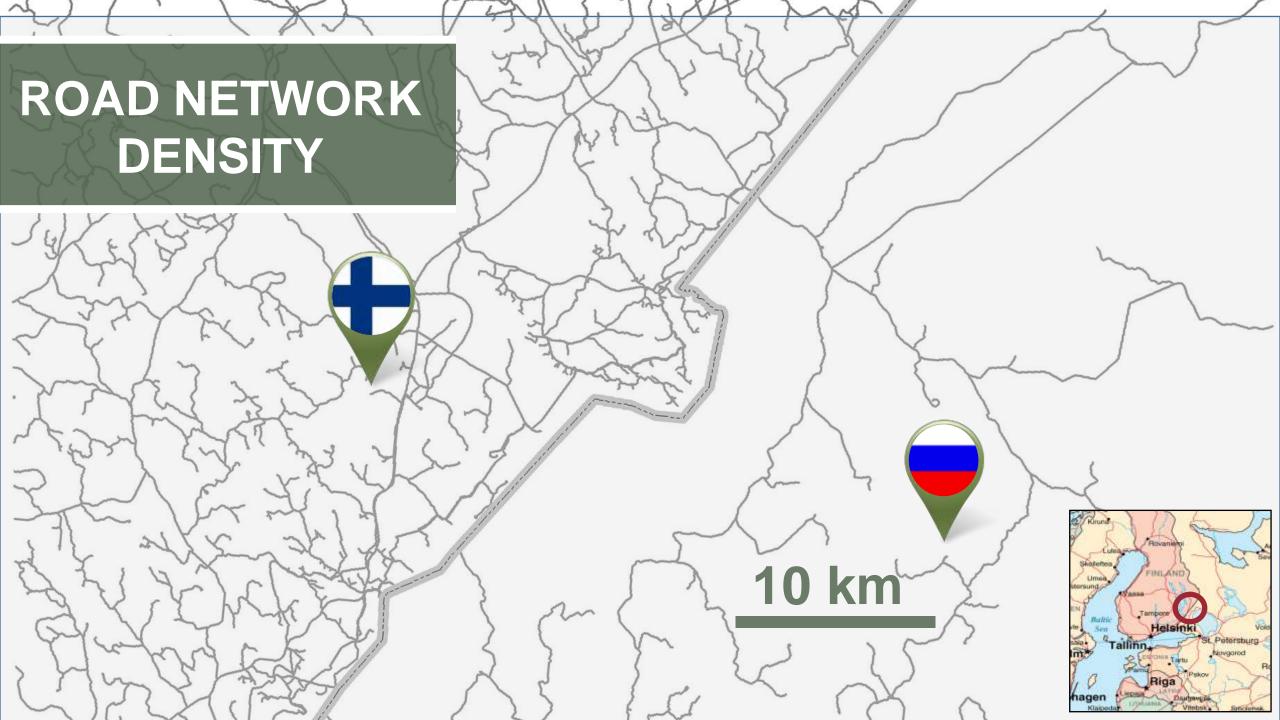


Bridges

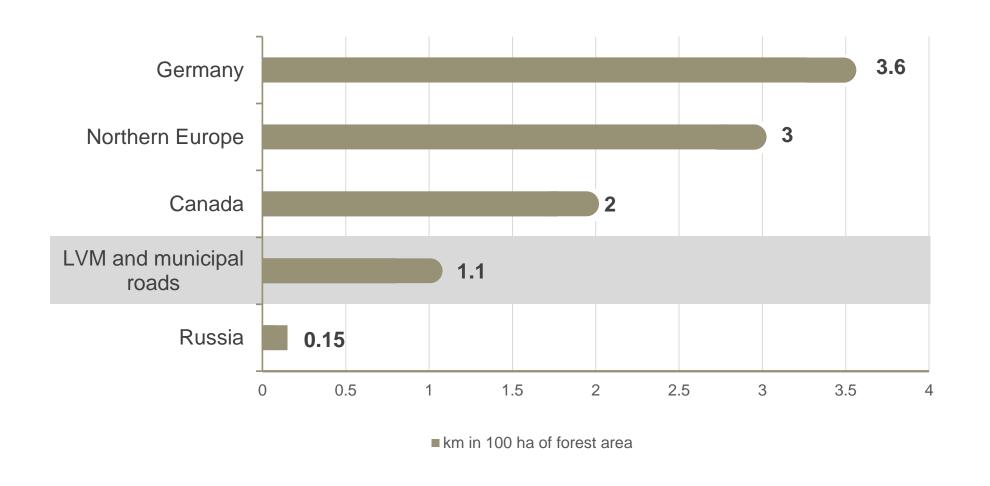


Forest drainage systems - MMS





The Density of Forest Roads on 100 ha of Forest Land



LVM Forest Infrastructure Road Building

Good quality roads and road maintenance assures to the clients assortment delivery on time



Road Building



On average every year we build

320 km













LVM Forest Infrastructure **Forest Drainage Systems**





Restoration of land reclamation systems assures higher levels of wood increment and increases the competitiveness of the sector

345 000 ha of moistureregulating ditch network has been constructed

200`377 ha

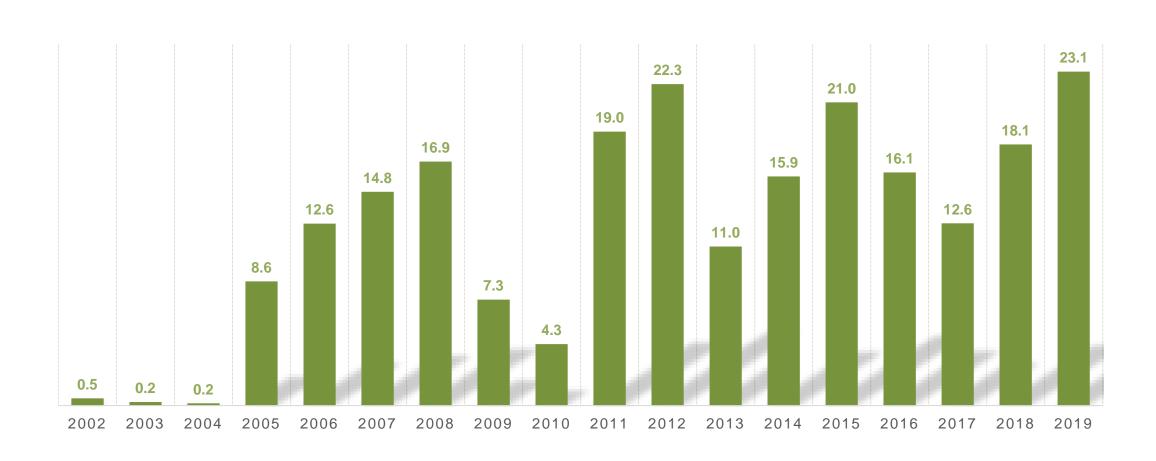
In this area forest roads have been reconstructed (since 2005)

Reconstruction of Forest Drainage Systems



Annual average of restored forest drainage systems is 16.3 thous. ha

Reconstruction of Forest Drainage Systems, thousand ha





LVM Silviculture



Preparation of soil



Forest planting



Forest tending



Forest protection



Forest fire safety and fire-fighting



Maintenance of forest drainage systems





Growing of

seedlings

Forestry

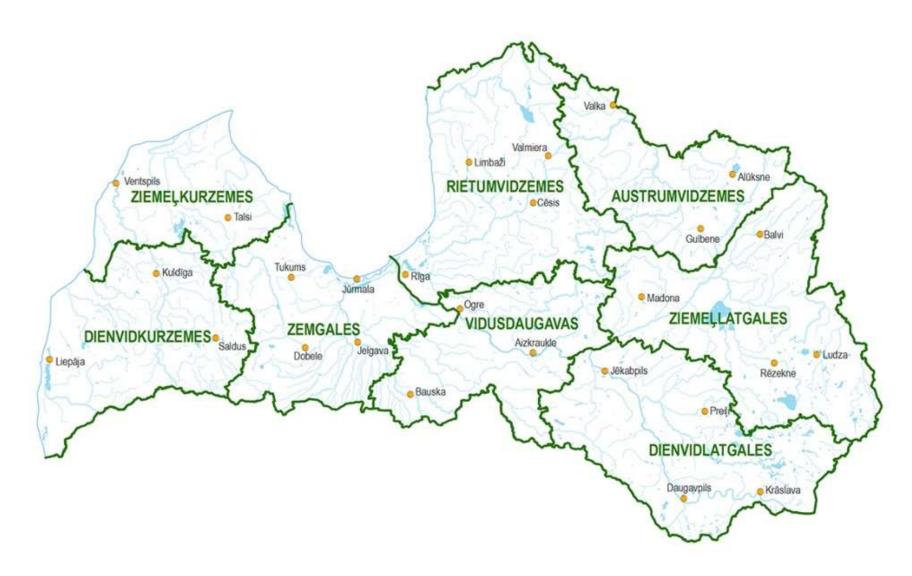
60

Forestry

of timber

products

8 Management Regions of LVM



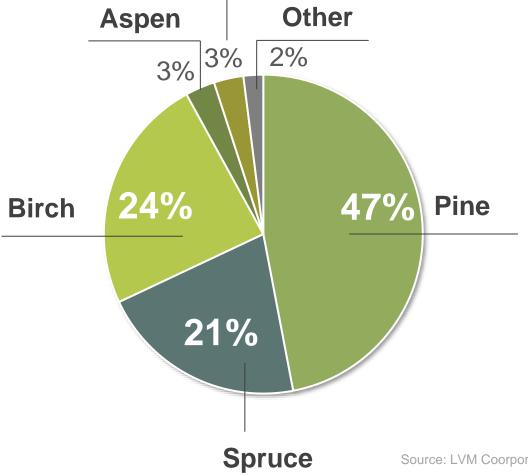
Pine 47%





Distribution of Tree Species in LVM Managed Forests

Black and grey alder



Annual Stock Volume Growth (excluding deadwood) in LVM Forests is 12 million m³







Forest Regeneration

Average annual natural regeneration

7.2 thous. ha

Average annual artificial regeneration

8.4 thous. ha

2018 planted ~26 500 000 forest tree plants













Forest Protection

Wax to limit the damage done by Hylobius abietis

Bioplastic spirals for trunk protection against deer

Repellents for shoot protection against deer



Stands are protected using environmentfriendly means of plant protection





LVM Manufacturing of Timber Products and Delivery Fields of Activity



Planning of felling sites



Selling of timber products



Manufacturing of timber products

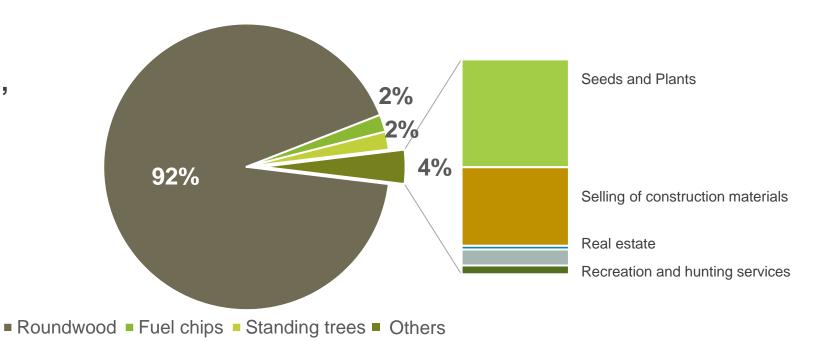


Delivery of timber products



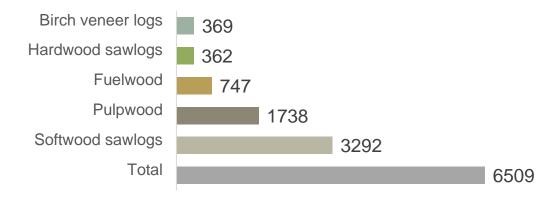
LVM Manufacturing of Timber Products and Delivery

LVM manufactures, sells and delivers timber products to wood processing enterprises and energy production companies



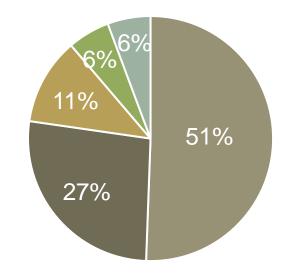


Roundwood deliveries in 2019, thousand m³

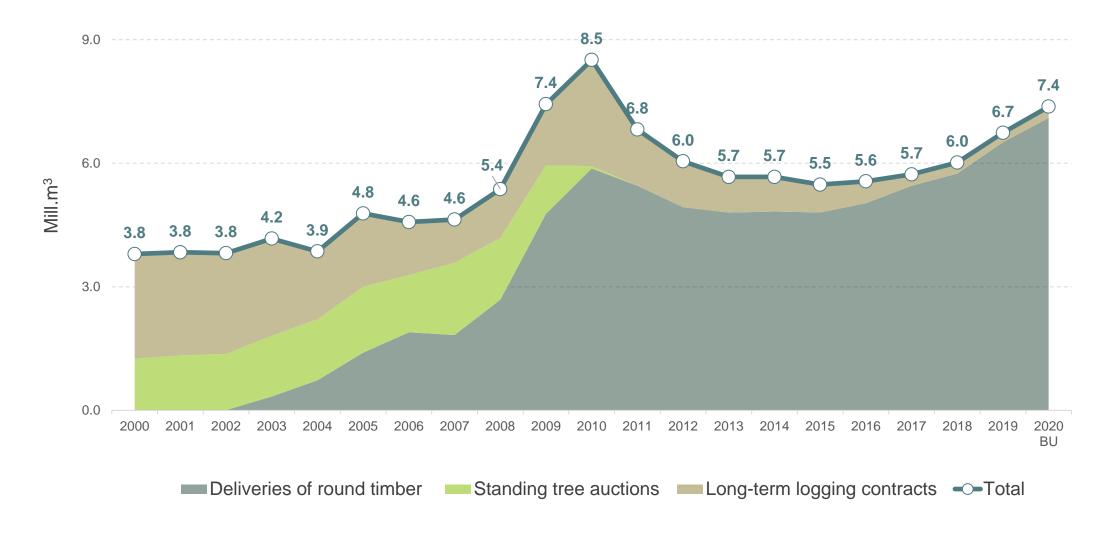


LVM Supply of Wood Assortment

With sales volume of 6.51 million m³ in 2019, LVM is one of the major suppliers of roundwood in Latvia. By timely deliveries of customized assortment, LVM helps creating a predictable business environment and strengthening the competitiveness of its business partners.



LVM Timber Sales











Subsurface unit

Mineral resources from subsurface layers – production of products



Accredited laboratory of LVM Subsurface unit

Acquires mineral material samples, does physical, mechanical and chemical testing





GEOSPATIAL INFORMATION TECHNOLOGIES





GEOSPATIAL INFORMATION TECHNOLOGIES



GEOGRAPHIC INFORMATION SYSTEMS REMOTE SENSING

SPATIAL OPTIMIZATION PLANNING

SPATIAL DATA
ANALYSIS
AND
PROCESSING

LVM GEO PLATFORM

FOR FOREST MANAGEMENT





LVM GEO Database











LVM GEO Mobile Sync

MS WINDOWS APP
MOBILE OFFLINE TOOL
FOR ADVANCED TASKS

LVM GEO Web

WEB APP OFFICE TOOL

LVM GEO Desktop

DESKOP SOFTWARE ADVANCED USER TOOL

LVM GEO Mobile

IOS AND ANDROID APP
MOBILE TOOL

LVM GEO PLATFORM

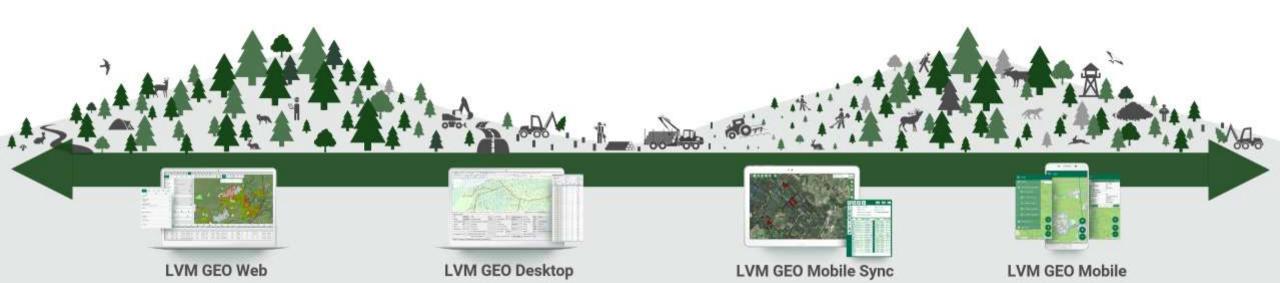
FORESTRY PROCESSES SUPPORTED

SILVICULTURE MANAGEMENT

FELL PLANNING AND EVALUATION

PRODUCTION TASK MANAGEMENT

CONTRACTOR AND FOREMAN MANAGEMENT NATURE CONSERVATION MANAGEMENT



LVM GEO PLATFORM

ADVANTAGES AND SPECIAL FEATURES





LVM Recreation and Hunting fields of activity



Hunting services

(in hunting sections)



Licensed fishing services

(Kanieris, Lielauce, Zebrus, Gulbju lakes un Tervetes reservoir)



Park management

(Nature park of Tervete un Pokaini)



Lodging services, conferences, seminars

(TRC Ezernieki un Spāre)



Wood - carving workshop services



It means Mother Nature.

And it's true.



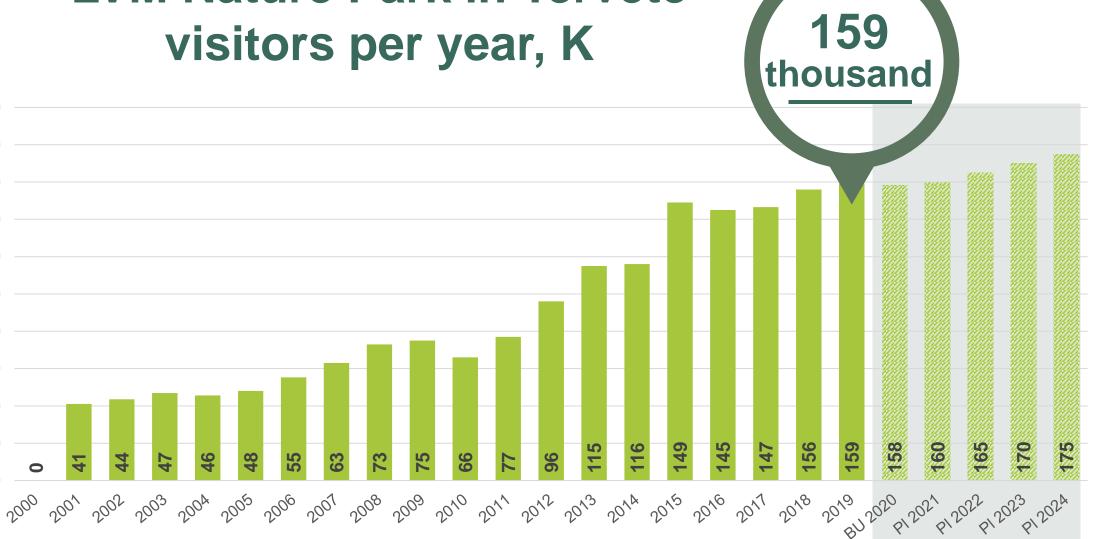








LVM Nature Park in Tervete visitors per year, K

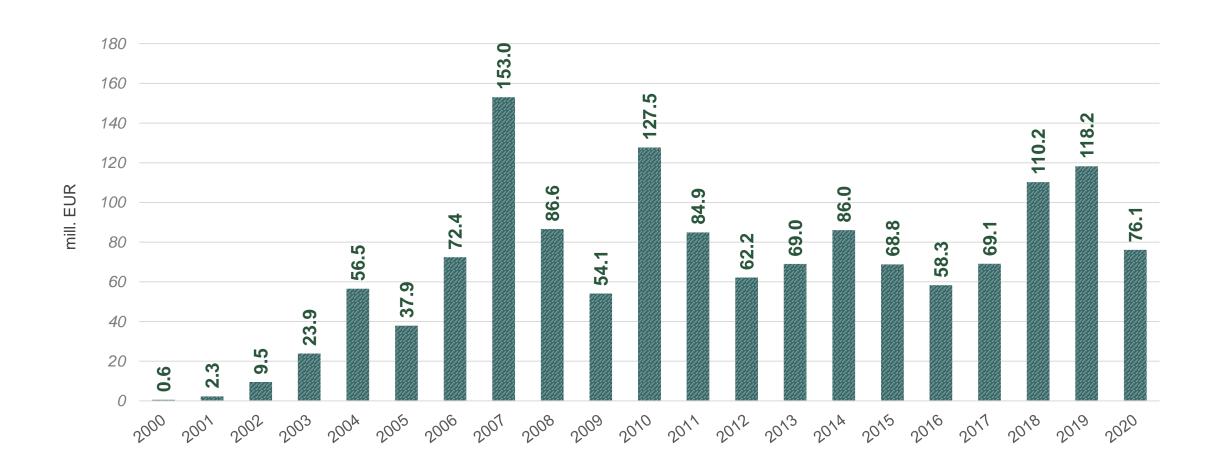




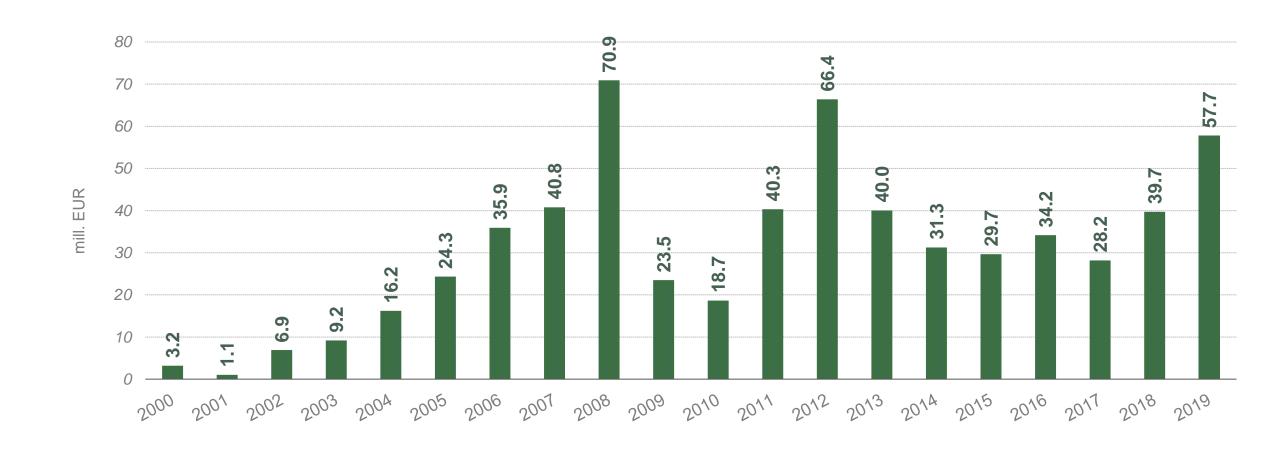
LVM Turnover



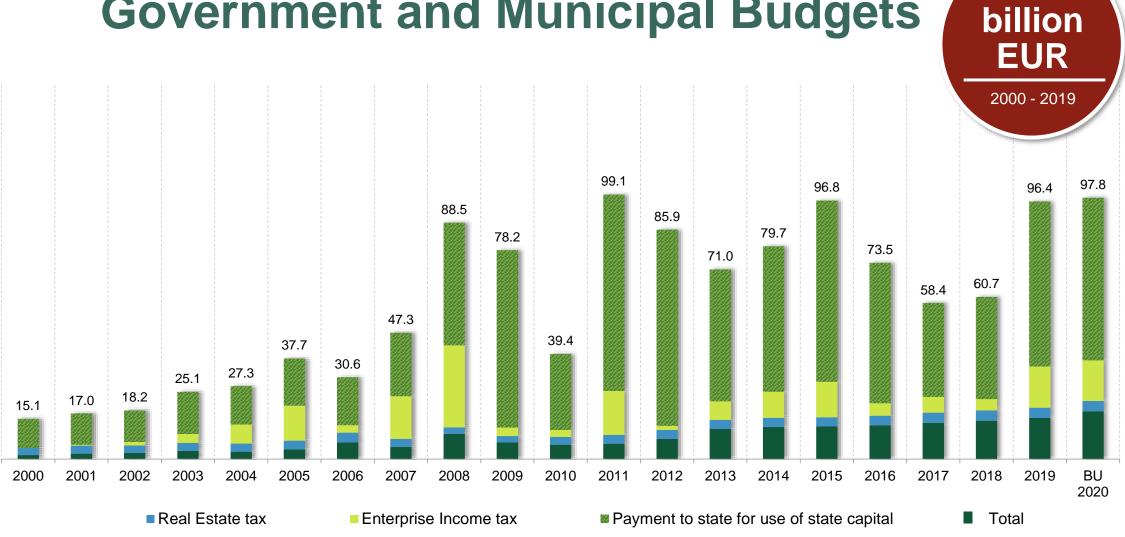
LVM Profit before Taxes



Investment



LVM Contribution to **Government and Municipal Budgets**



>1.1



Forests in Latvia 1930

Today

