AL.WOOD
Új nyár fajták rétegeltlemezhez, és más falemezekhez, valamint energia célra
Balatonszemes 26/3/2019
FAGOSZ

Where we are

Milano
Torino
Genova
Parma
Brescia
Venezia
Trieste
Bologna
Ferrara
Firenze
La Spezia
Livorno
Ancona
Pescara
Roma
Napoli
Salerno
Foggia
Bari
Palermo
Catania
Reggio Calabria
Cagliari
Sassari
Barcellona
Marsiglia
Tolone
Montpellier
Perpignano
Algeri
Annaba
Tunisi
Palma di Maiorca
Mar Tirreno
Mar Mediterraneo
Mare Adriatico
Mar Ionio
Belgrado
Sarajevo
Sofia
Skopje
Tirana
Podgorica
Zagabria
Osijek
Novi Sad
Banja Luka
Kragujevac
Nis
Craiova
Bucarest
Pécs
Seghedino
Arad
Mariborr
Trento
Udine
Rijeka
Pesaro
Spalato
Bastia
Ajaccio
Lérida
Reus
Figueres
Gerona
Tolosa
Narbonne
Monaco
Ginevra
Lione
Clermont-Ferrand
Losanna
Cremona
Ferrara
Pescara
Cosenza
Catanzaro
Sant'Eufemia Lamezia
Argirocastro
Corfù
Valona
Lushnje
Elbasan
Vérola
Kozáni
Agrénion
Pirgos
Ioánnina
Giannina
Erseké
Rreshen
Scutari
Nis
Plovdiv
Bucarest
Craiova
Reşiţa
Arad
Deva
Sibiu
Ploieşti
Pleven
Montana
Sarajevo
Banja Luka
Osijek
Zagabria
Pécs
Seghedino
Mariborr
Klagenfurt
Trento
Udine
Trieste
Rijeka
Venezia
Bologna
Ferrara
Pesaro
Ancona
Perugia
Viterbo
Bastia
Ajaccio
Sassari
Cagliari
Palermo
Catania
Reggio Calabria
Sicilia
Sardegna
Corsica
Italia
Lazio
Campania
Basilicata
Puglia
Calabria
Abruzzo
Marche
Umbria
Toscana
Emilia-Romagna
Lombardia
Veneto
Piemonte
Valle d'Aosta
Liguria
Lombardia
Milano
Torino
Genova
Golfo di Genova
Mar Ligure

Valle d'Aosta
Vallée d'Aoste
Piemonte
Lombardia
Milano
Torino
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Mar Ligure

Nursery - plant material

Our Company has the longest experience with the two fast growing tree species and mainly with **POPULUS** spp. with **100 hectares** of nursery

Poplar hybrids

Genetic improvement

Our genetic improvement program from 1983:

- Collection of germplasm from 3 continents
- Thousands clones under observation
- Selection of the best hybrids
- 14 Registered clones

Collection of germplasm from natural stands

Populus trichocarpa

P. deltoides

P. angustifolia

P. nigra

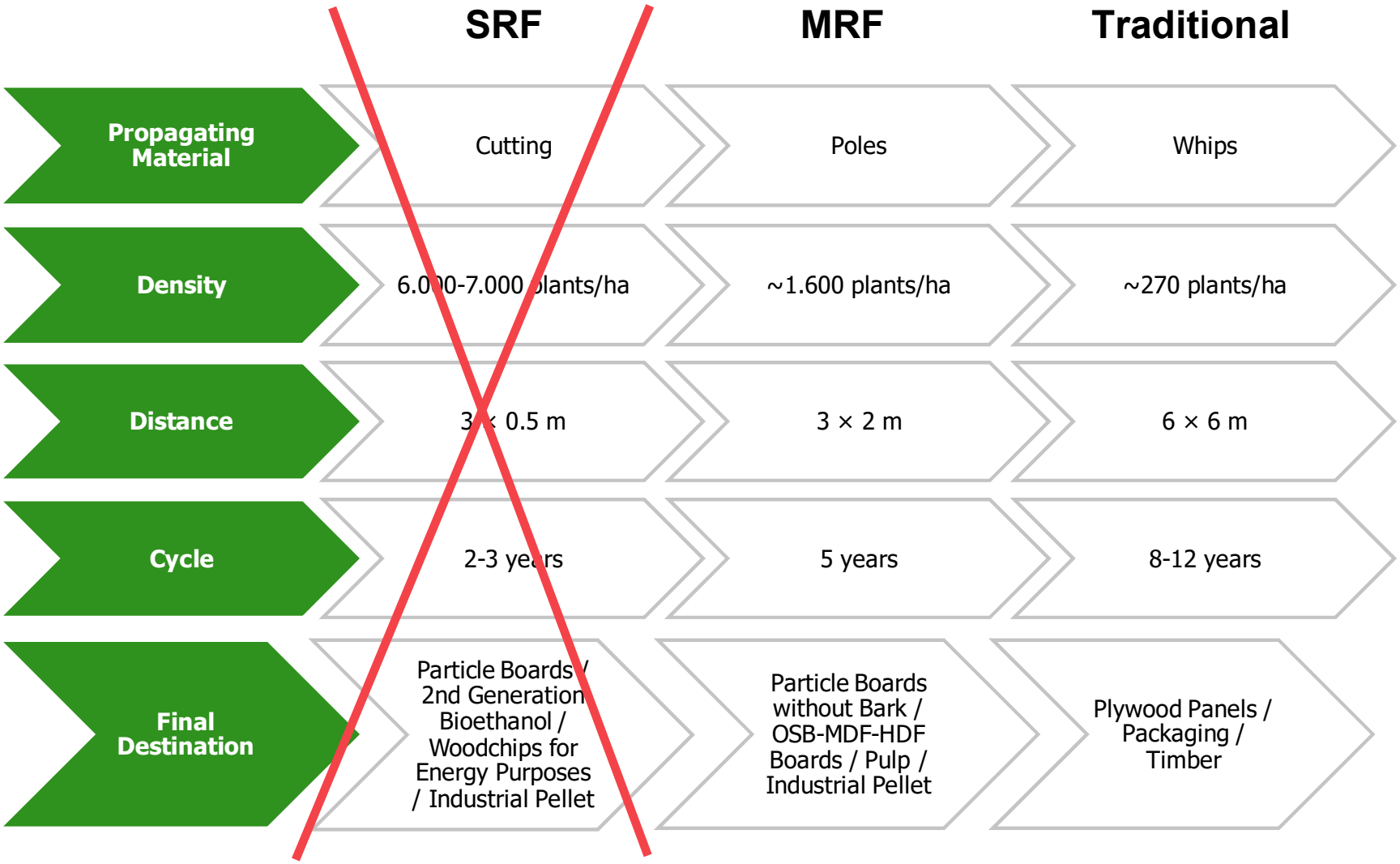
P. ciliata

P. maximowiczii

Registered Alasia Poplar hybrids

Marte	*P. alba*	natural pollination
Saturno	*P. alba* x *P. alba*	artificial pollination
Pegaso	(*P.* x *generosa* I.84.16) x *P. nigra* 4 (Italy)	artificial pollination
Sirio	*P. deltoides* 266 (Tennessee USA) x (*P.* x *canadensis*)	artificial pollination
Monviso	(*P. x generosa* 103-86) x *P. nigra* 715-86	artificial pollination
AF2	*P. deltoides* 145-86 (Illinois USA) x *P. nigra* 40 (Italy)	artificial pollination
AF6	(*Populus* x *generosa* 103-86) x *P. nigra* 12 (Italy)	artificial pollination
AF7	(*P.* x *generosa* 103-86) x (*P.* x *canadensis* 411)	artificial pollination
AF8	(*P.* x *generosa* 103-86) x *P. trichocarpa* 196 (Oregon USA)	artificial pollination
AF13	*P. deltoides 62-98* (Iowa USA) x *P. nigra* 365-94 (Italy)	artificial pollination
AF15	*P. deltoides 79-98* (Iowa USA) x *P. nigra* 248-94 (Italy)	artificial pollination
AF16	*P. deltoides 186-98* (Illinois USA) x *P. nigra* 621-93 (Italy)	artificial pollination
AF17	*P. deltoides 79-98* (Iowa USA) x *P. nigra* 248-94 (Italy)	artificial pollination
AF18	*P. deltoides* 62-98 (Iowa USA) x *P. nigra* 365-94 (Italy)	artificial pollination
AF19	*P. deltoides* 79-98 (Iowa USA) x *P. deltoides* 3-96 (Kansas USA)	artificial pollination
AF20	*P. deltoides* 1-093 (Missouri USA) x *P.* x *canadensis* 428-92	artificial pollination
AF24	*P. deltoides* 79-98 (Iowa USA) x *P. nigra* 248-94 (Italy)	artificial pollination

Different Cropping Systems - Scheme



Slovakia & Hungary

IKEA PROJECT
MRF

SWISS KRONO
PROJECT
MRF

PLYWOOD
PRODUCERS
TRADITIONAL

PROFITÁLJON RÖVID VÁGÁSFORDULÓJÚ NYÁRÜLTETVÉNYEK TELEPÍTÉSÉBŐL

Legyen az IKEA Industry partnere

A rövid vágásfordulójú nyárültetvények jövedelmező lehetőséget kínálnak alacsony és közepes minőségű vagy vizesedő területeken.

Amit kínálunk:

- A kitelepítési költség teljes körű megtérítése
- Kiegyensúlyozott, megbízható éves bevétel
- Részesedés a kitermelt faanyag hozamból

Amennyiben javaslatunk felkeltette érdeklődését, keressen minket bizalommal.

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e-mail: barnabas.kovac@ikea.com
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IKEA Industry
Malacky

5/6-Years Rotation - MRF

Land preparation

Standard ploughing 40 cm deep

Planting

Crop cares – Weeds control

Disc harrow:

-2,3 m

-1.200 kg

-3 passages/1st year

Crop cares - Pruning

Before

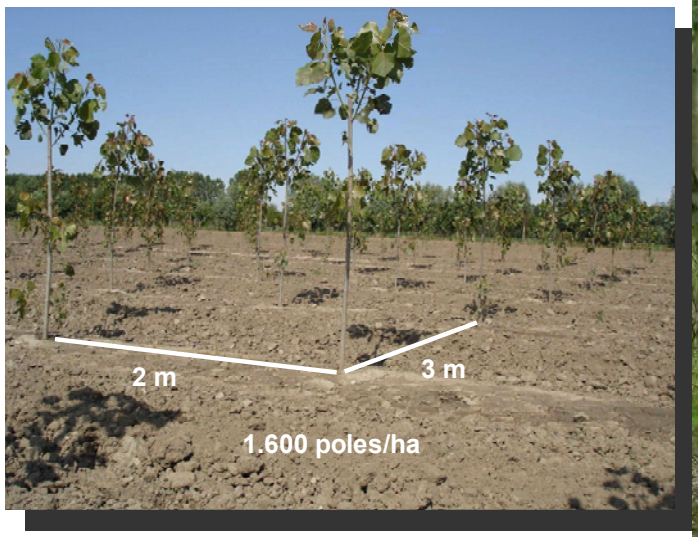
After

Productive Cycle

Suggested spacing for a 5/6-years rotation system is 3 x 2 m

Plantation is established from 1 year-old poles 175 cm long

Distances



3-year old plantation

5-year old plantation
Ready to be harvested

Commercial plantations – HU/SK

Productivity: 20-22 ton/ha/year = 30m^3/ha/year
Cycle: 5/6 years and 1.600 trees/ha
Clone: AF18

HUNGARY

Average circumference after 3 growing seasons

HARVESTING

5 YEARS OLD

9/11-Years Rotation
Traditional Poplar Plantations

From our nurseries we produce 1 year old plants of 3-6 m

Clone AF8 registered

Origins and diseases tolerance

•Breeder: Alasia Franco

•Parent : mother *P. x generosa* 103 – 86 *P.deltoides* 583 (Iowa-USA) x *P.trichocarpa* 196 (Oregon-USA)
father *P.trichocarpa* PEE (Washington-USA)

•Year: 1993

•Gender: female

	Very low	Low	Sufficient	High	Very high
Rust Melampsora larici-populina					
Rust Melampsora allii-populina					
Roots cancer					
D. populea					
Mosaic Virus					
Phloeomyzus passerinii					
Wind					

Clone AF13 registered

Origins and diseases tolerance

•Breeder: Alasia Franco

•Parent : mother *P. deltoides* 62-98 (Iowa USA)
father *P. nigra* 365-94 (Italia)

•Year: 2004

•Gender: male

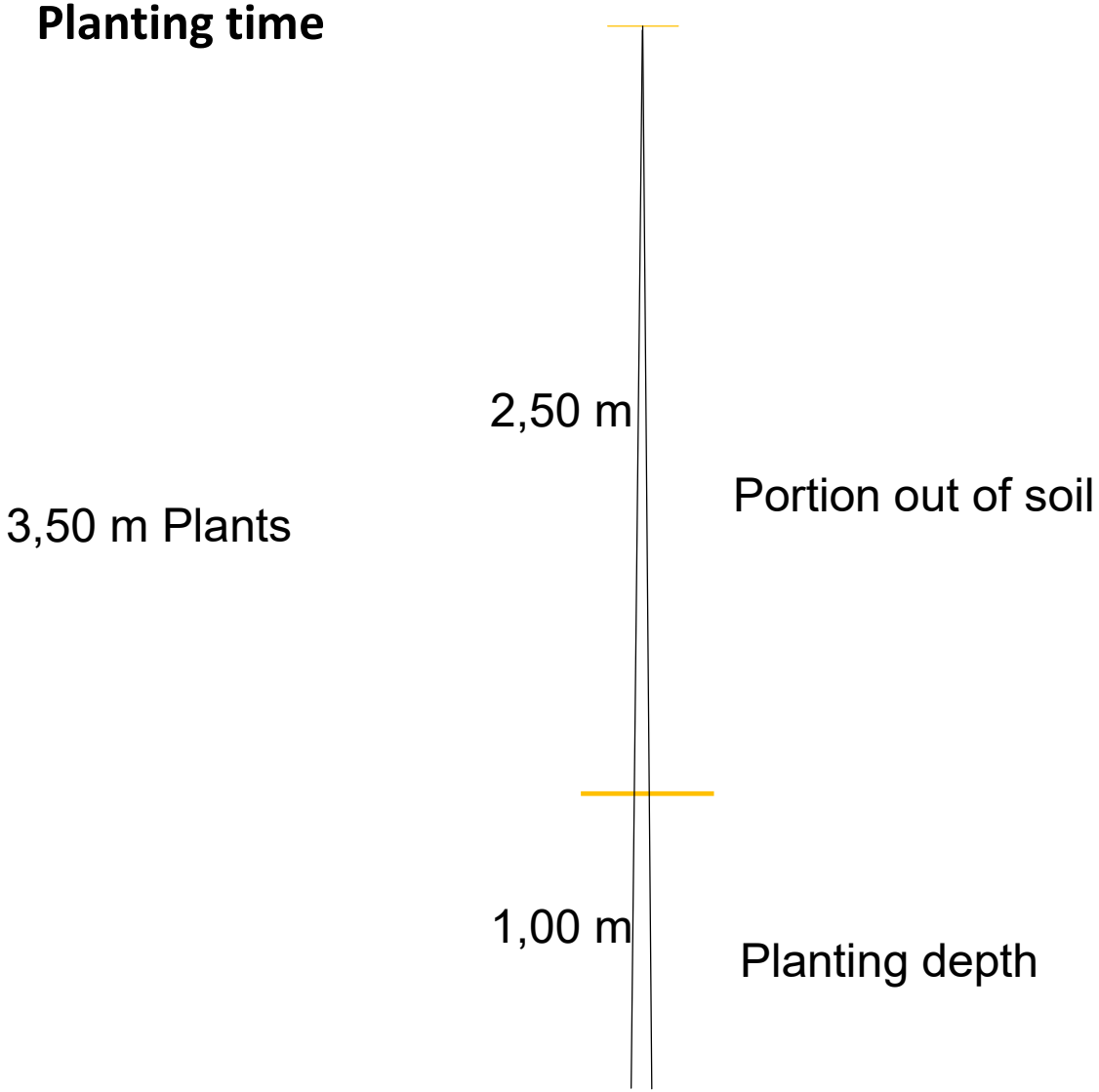
• Very straight trunk

• Wood very white

• 654 kg/m^3

	Very low	low	Sufficient	high	Very high
rust Melampsora larici-populina					
Rust Melampsora allii-populina					
Roots cancer					
D. populea					
Mosaic Virus					
Phloeomyzus passerinii					

Planting time



1° YEAR

Plants during the first growing season end of April.

Pruning up to 1.3 m from the soil by hand.

A

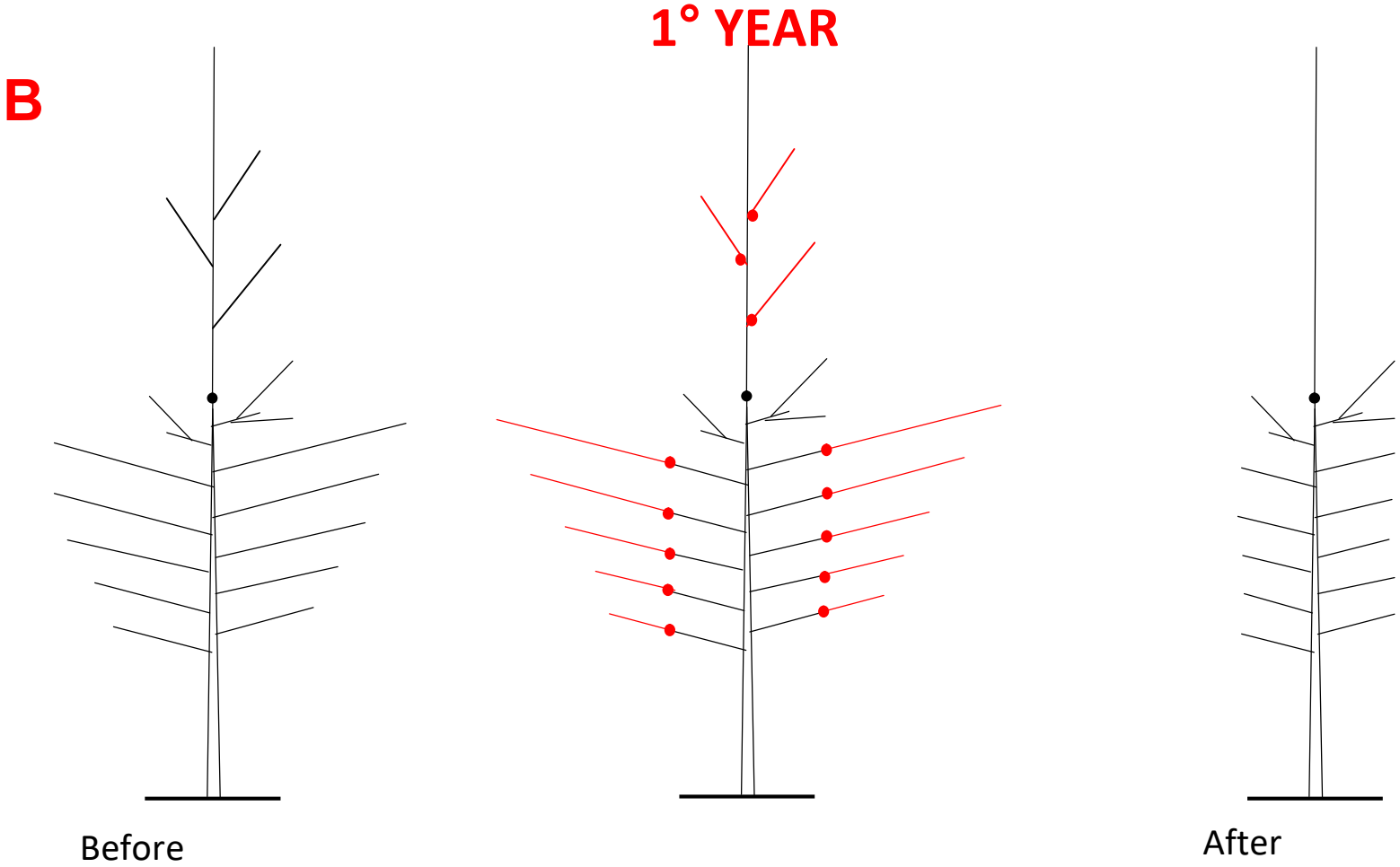
1° YEAR

1° **Pruning**: during the first year, if the new branches are 70 cm long, usually at the end of June, it is required the first correction pruning.
We suggest to cut of 10 cm the 4-5 branches in competition with the main top.

Before

Cutting point

after



Pruning during the autumn/winter at the end of the first growing season: clean the top from lateral branches cutting close to the main trunck upper of the black dot.
Cut at 50-60 cm from the trunck the lower branches.

1° YEAR

Trees pruned as described in the picture B

2° YEAR

Beginning of the second growing season during the month of April

2° YEAR

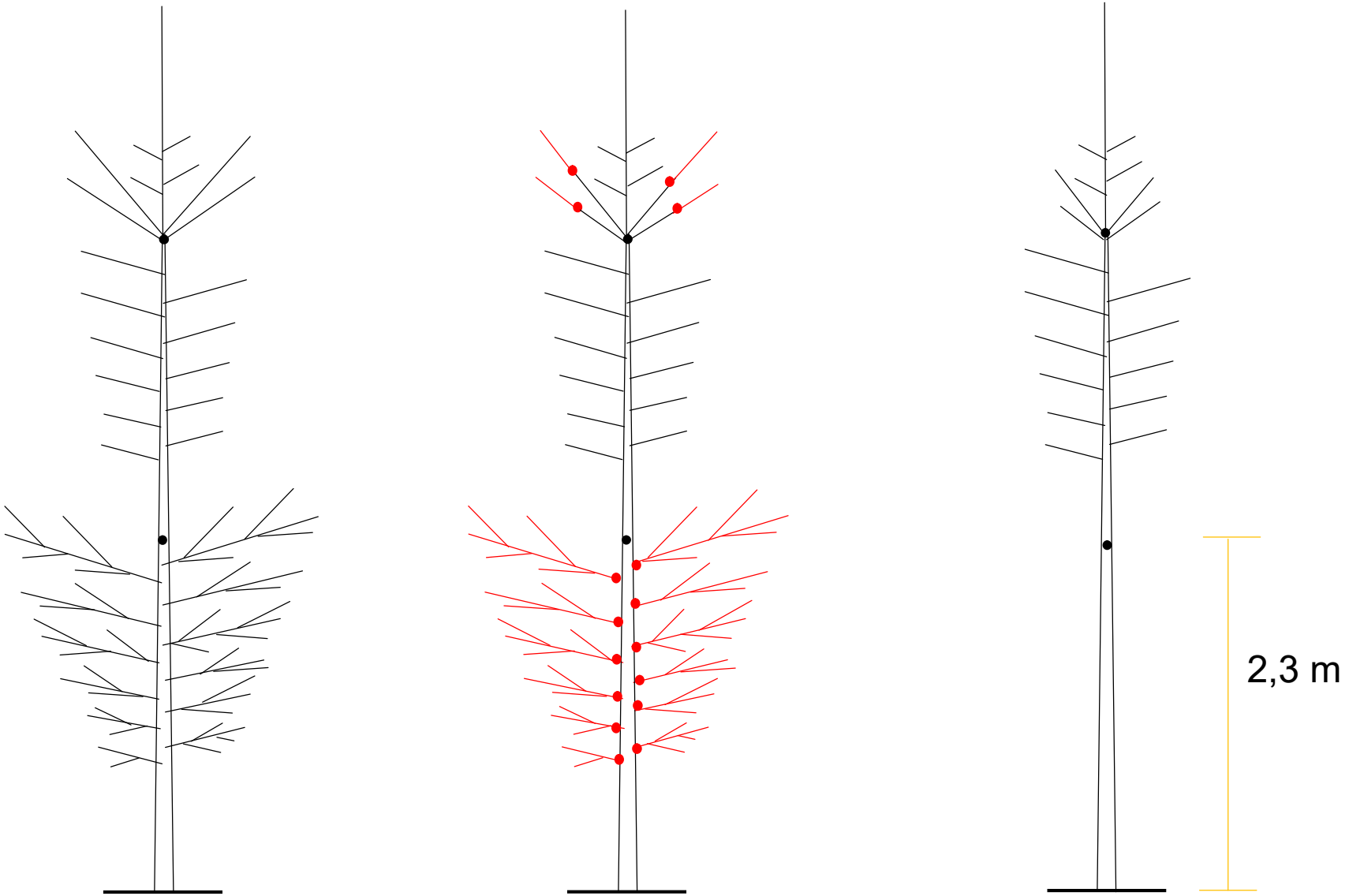
Truck aspect at the end of june (2° growing season) after the prunign as described in the picture B

Plantation looks

The branches are quite small with very high ratio of leaves

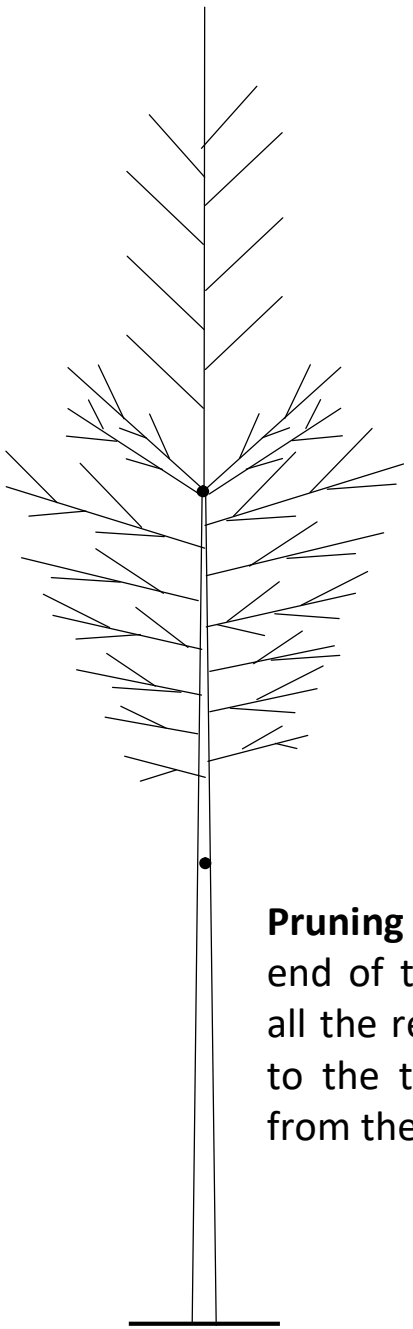
2° YEAR

C **Pruning at the end of the 2° year:** it is necessary to cut all the red branches as showed below from the month of september and not later that March. Furthermore reduce the 3-4 branches starting from the second black dot as showed.

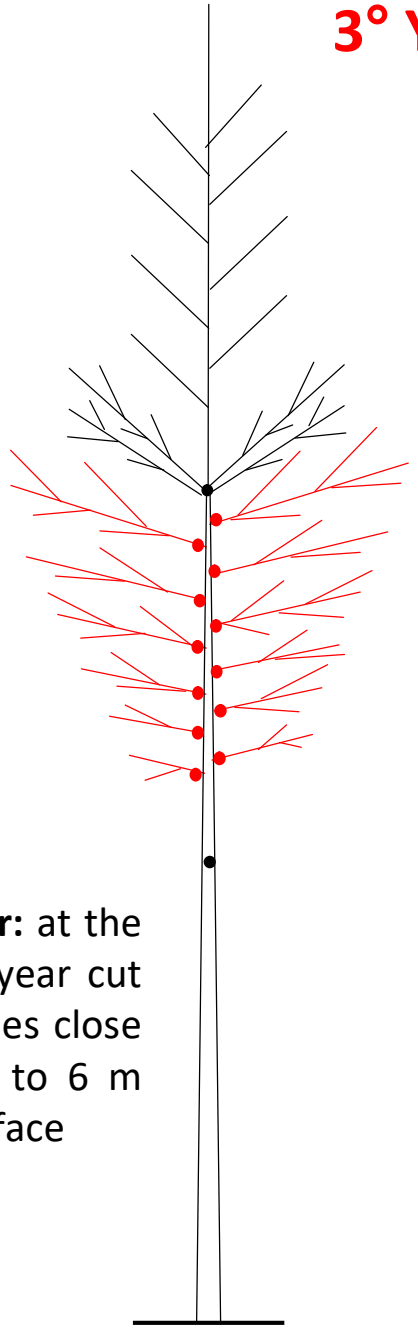


D

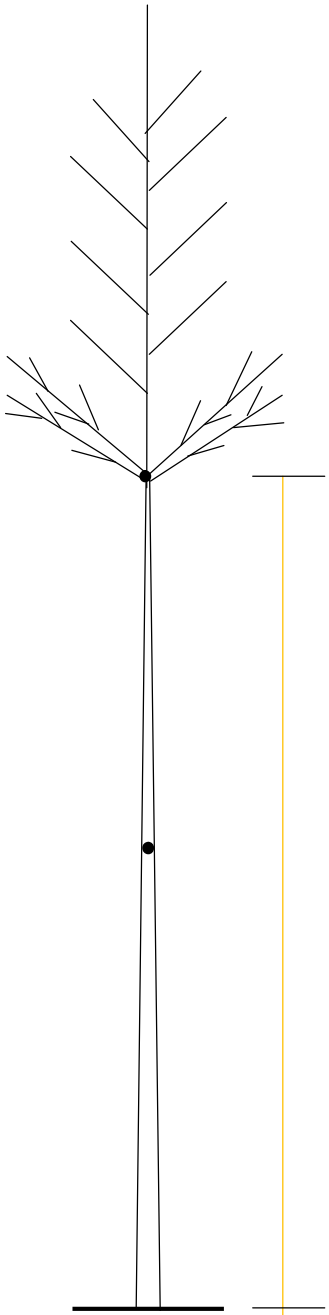
3° YEAR



Before



Pruning 3° year: at the end of the 3° year cut all the red braches close to the truck up to 6 m from the soil surface



After

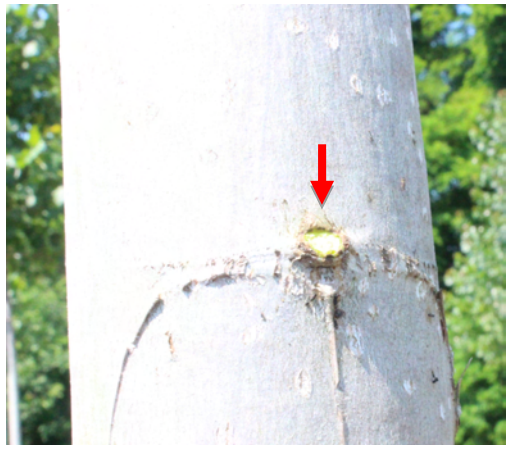
4-5 m

Epicormic shoots removing from the trunk

During the first 3 – 4 years it is suggested to remove epicormic shoots each time they will grow (up to 6 m from the soil surface) this operation must be performed by hand and witout scissors by the ned of May every year. This will allow to obtain high quality plywwod without knots

Epicormic shoot with 2 epicormic buds

Epicormic shoot removed



Bad example of Epicormic shoot cutted and not removed

HUNGARY

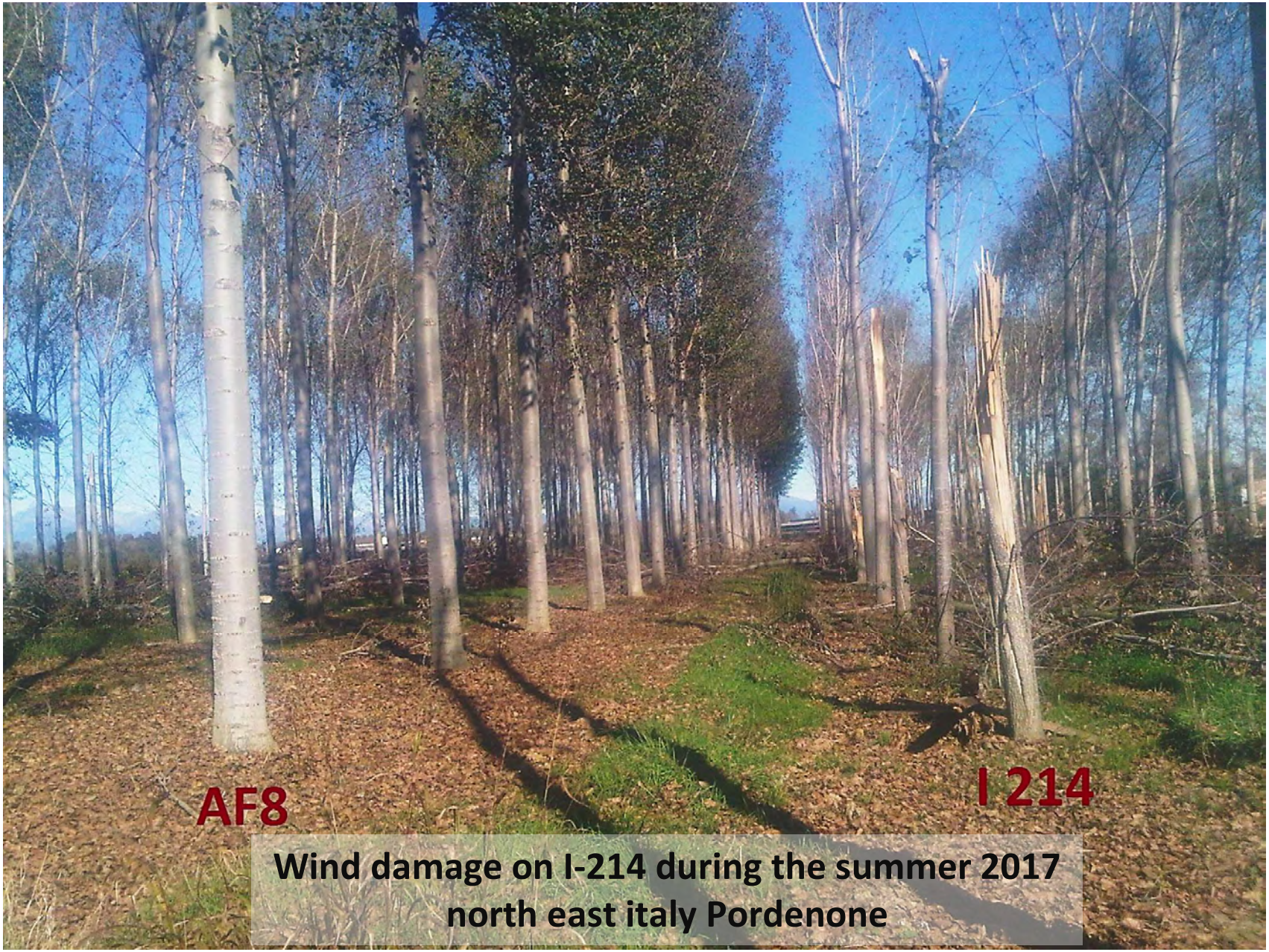
Productivity: 0,8-0,9 m3/tree
Cycle : 9-11 years and 270 trees/ha

Wood specific gravity

Clone I214: 740 kg/m^3

Clone AF8: 800 kg/m^3

Clone AF13: 654 kg/m^3



Wind damage on I-214 during the summer 2017 north east italy Pordenone

Lab test on Phloeomyzus passerinii resistence

Where we are

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Köszönöm
a figyelmet!