

# EXTREME WEATHER EVENTS AND SiDG d.o.o.

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# STATE FORESTS IN NUMBERS

➤ Forest area: 234.986 ha or 20 % of all forests in Slovenia

➤ Protective forests: 21.637 ha

➤ Forest reserves: 5.996 ha

➤ NATURA 2000: 97.000 ha

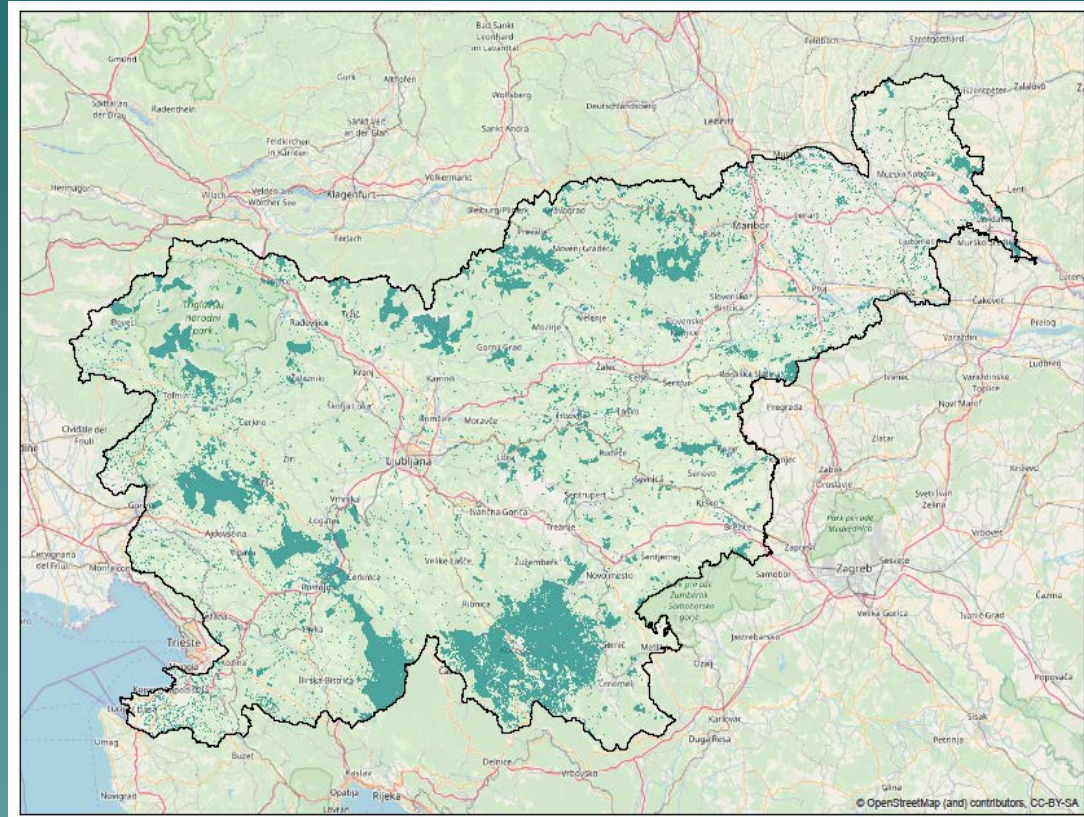
➤ FM FSC and PEFC: 234.986 ha

➤ Average growing stock: 321 m<sup>3</sup>

➤ Average increment: 7,4 m<sup>3</sup>/ha

➤ Tree species:

- Spruce 31,9 %
- Fir 11,3 %
- Pine 3,2
- Beech 35,9 %
- Oak 3,9 %



➤ Ratio of tree species: 52 % deciduous, 48 % conifers

➤ Annual cut above: 68 % of increment



## STATE FORESTS IN NUMBERS

- Cut in the year 2015: 1.107.000 m<sup>3</sup> conifers; 558.000 m<sup>3</sup> deciduous
- 2016: 903.896 m<sup>3</sup> conifers; 455.026 m<sup>3</sup> deciduous
- 2017: 692.955 m<sup>3</sup> conifers; 406.177 m<sup>3</sup> deciduous





# STATE FORESTS IN NUMBERS

- Long term contracts: 152 for 3 years
- Short-term contracts: 60 up to 1 year



# AN OVERVIEW OF DAMAGED FORESTS IN THE PAST 50 YEARS

( storm  $\geq 350.000 \text{ m}^3$ )

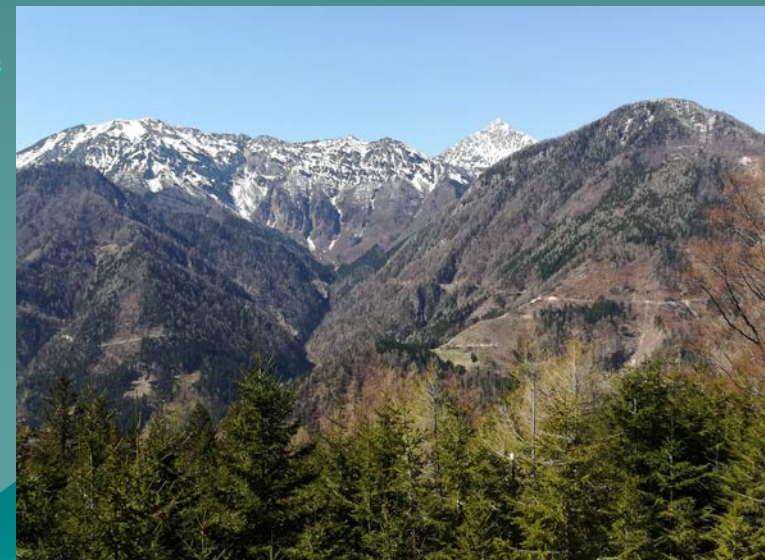
TYPE OF DAMAGE	YEAR	DAMAGED WOOD IN M <sup>3</sup>
Wind storm	1965	350.000
Ice storm	1975	380.000
Ice storm	1980	670.000
Ice storm	1985	500.000
Snow/Ice storm	1995/1996	680.000
Snow/Ice storm	1996/1997	870.000
Wind storm	2008	500.000
Snow storm	2012	355.000
Ice storm	2014	9.000.000
Wind storm	2017	2.200.000





# PROPOSALS TO MITIGATE WIND DAMAGE

- Increase the stability (increase the increment, not the standing volume) and decrease the size of the stock at risk.
- Shorter rotations (stands are harvested before they are exposed to wind risk).
- Carefully designed thinning regimes (fewer thinnings in old forests)
- Carefully planned fellings in order to minimize the length of exposed edges.
- Tree species choice: When suitable more broadleaves as main species
- Insect damage: Quick removal of timber to save value and to minimise insect damage



# PROPOSALS TO MITIGATE WIND DAMAGE

- The construction of new forest infrastructure will be designed and built stronger, with better materials and larger safety factors.
- The renovation of the existing infrastructure will follow the criteria for new construction and priorities set by SiDG managing board.



Built quality



Built safety



## EXTREME WEATHER EVENTS AND SiDG d.o.o.

- Impact on all of the company – very stressful situation
- Increased costs for storm harvest
- Market prices down
- Possibility for optimization of the company







THANK YOU