

CONTENT

1	Summary	4
2	Introduction. Need for the verified technology	4
3	Technology for forest aboveground biomass assessment using an area-based approach	7
3.1	Definition of the area-based approach	8
3.2	Airborne laser scanning data for the area-based approach	8
3.3	Type of field data for the area-based approach	12
3.4	Biomass modeling with machine learning	20
4	Testing the technology	22
4.1	Silesian Beskids forest site	22
4.2	Ždírec nad Doubravou forest site	28
5	Economic aspects of the technology's use	37
6	Conclusion	39
	List of abbreviations	40
	References	41