











LIGNUM **LIGNUM Robinia** Common Robinia forest plantation valuable wood assortment no valuable wood assortment 15 % fuel wood or pulp wood 70 % fuel wood or pulp wood 10 % for gardening, agriculture, 30 % for gardening, agriculture, horticulture and hydraulic engineering horticulture and hydraulic engineering 65 % A- and B-quality, 10% veneer < 1 % premium quality (A- and B-quality) quality value production potential fully utilized value production potential poorly utilized wood properties wood properties + (high heating value) (good fibre in high density) high heating value good fibre in high density durability durability very high hardiness and strength (very high hardiness and strength) (beautiful texture) beautiful texture (homogeneous structure, homogeneous structure. smooth surface) smooth surface a lot of wood defects almost free of any wood defects + predominant A- and veneer quality seldom A- or veneer quality stem diameter > 40 cm after 20 years small stem diameter slow growth fast growth often branching of stems no branding of stems predominant twisted stems + straight stems rate of return rate of return 9 to 12 % maximal 4,5 %

LIGNUM **Common Robinia forest LIGNUM Robinia plantation** poor production factors best production factors generally: poor soils general: best soils general: favorable climate / microclimate often: unfavorable climate / microclimate general: selected genetic material generally: unselected genetic material in Bulgaria: low labor cost in Western Europe: high labor cost extensive management strategy intensive management strategy minimizing capital investment optimizing capital investment small plants from seeds 3 to 5 m high plants from vegetative propagation (clones) intensive soil preparation minimal soil reworking Almost no suppression of consequent suppression of competing competing weed weed Regularly artificial pruning no artificial pruning narrow planting spacing 5 m x 5 m little intermediate cut intermediate cut after 8 to 14 years final cut after 20 years final cut after 20 to 40 years no valuable wood assortment valuable wood assortment 70 % fuel wood and pulp wood 15 % fuel wood and pulp wood 30 % for gardening, agriculture, 10 % for gardening, agriculture, horticulture, vine growing and hydraulic horticulture, vine growing and hydraulic engineering engineering 65 % A- and B-quality, 10 % veneer < 1 % premium quality (A- and B-quality) • quality











