Birch wood chips WP2 Birch wood WP1 **BWCLC** chips (BWC) WP2. Preparation of LC for termo WP1. Catalyzed pretreatment of birch mechanical (TMP) and Alcaline **PULP** wood with a focus on pentose's conversion peroxide mechanical (APMP) to 2-furaldehyde and acetic acid. pulping process D2.1. Test report on the preparation WP1.1. Selection of initial D1.1. Test report on the 2-furaldehyde of the thermomechanical pulp and selection of the initial pretreatment process WP2.1. Selection of initial Acetic acid delignification process. pretreatment process parameters technological parameters for parameters. **BWCLC** D2.2. Test report on the selection of TMP and APMP pulping process the optimal process parameteres of WP1.2. Determination of the **BWC** D1.2. Test report on the the thermomechanical pulping and chemical composition changes chemical composition changes WP2.2. Selection of optimal delignification process. Lignocellulosic in the birch wood lignocellulosic WP3. Preparation of sulfate in lignocelulosic residue of technological parameters to residue residue (BWLC) at different M2.1. New product prototype pretreatment process puplping process obtain TMP and APMP pretreatment process "pretreated pulp" (BWCLC) parameters parameters. WP3.1. Selection of initial D1.3. Test report on the WP1.3. Selection of optimal selection of the optimal technological parameters for pretreatment process pretreatment process sulfate puplping process parameters to obtain furfural, D3.1. Test report on the initial and parameters to obtain 2acetic acid and lignocellulosic optimal process parameters of the furaldehyde, acetic acid and sulfate pulping process. BWLC. residue WP3.2. Selection of optimal Raw material technological parameters to M3.1. New product prototype obtain sulfate pulp **Feedstock** "pretreated pulp". WP4 and WP5. Dissemination of research results PULP Product WP5. Writing of publications WP4. Writing of publications submitted in Web of Science or with high citation index Work package WP3 SCOPUS databases 2 Original scientific articles that will 2 Original scientific articles that will be be submitted for publication in submitted for publication in magazines or magazines or volumes of conference volumes of conference articles, whose articles included in Web of Science citation index reaches at least 50 percent **Deriverables** WP7. Prototipe of Cellulose and or SCOPUS databases. of the average citation index in the sector. Two New Samples of Pulp Prototypes Fiber Mass D6.1. New technology prototype WP6. Development of new "Processing of birch wood into pulp, 2-

technology prototype

furaldehyde and acetic acid".