



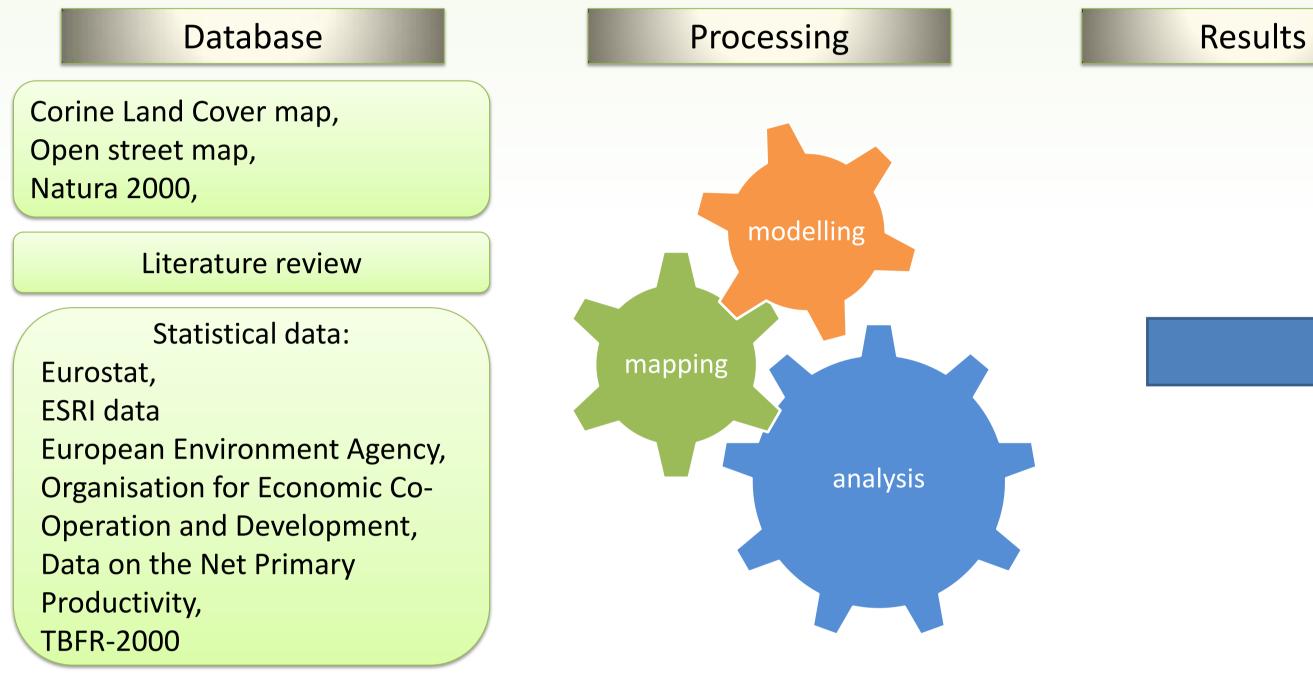
# THE FEEDSTOCK POTENTIAL ASSESSMENT FOR EU-27 + CH **IN NUTS-3**

Rafał Pudełko, Magdalena Borzęcka-Walker, Antoni Faber

#### Introduction

The work was done within the BioBoost project (Biomass based energy intermediates boosting biofuel production). The overall objective of BioBoost is to pave the way for decentral conversion of residual biomass to optimised, high energy density carriers, which can be utilised in large scale applications for the synthesis of transportation fuel and chemicals or directly in small-scale combined heat and power (CHP) plants. IUNG-PIB is responsible for work package 1, which aims to determine the economic feedstock potential of agricultural residues, organic wastes and forestry residues in EU27 +

#### Switzerland on the level of NUTS 3.

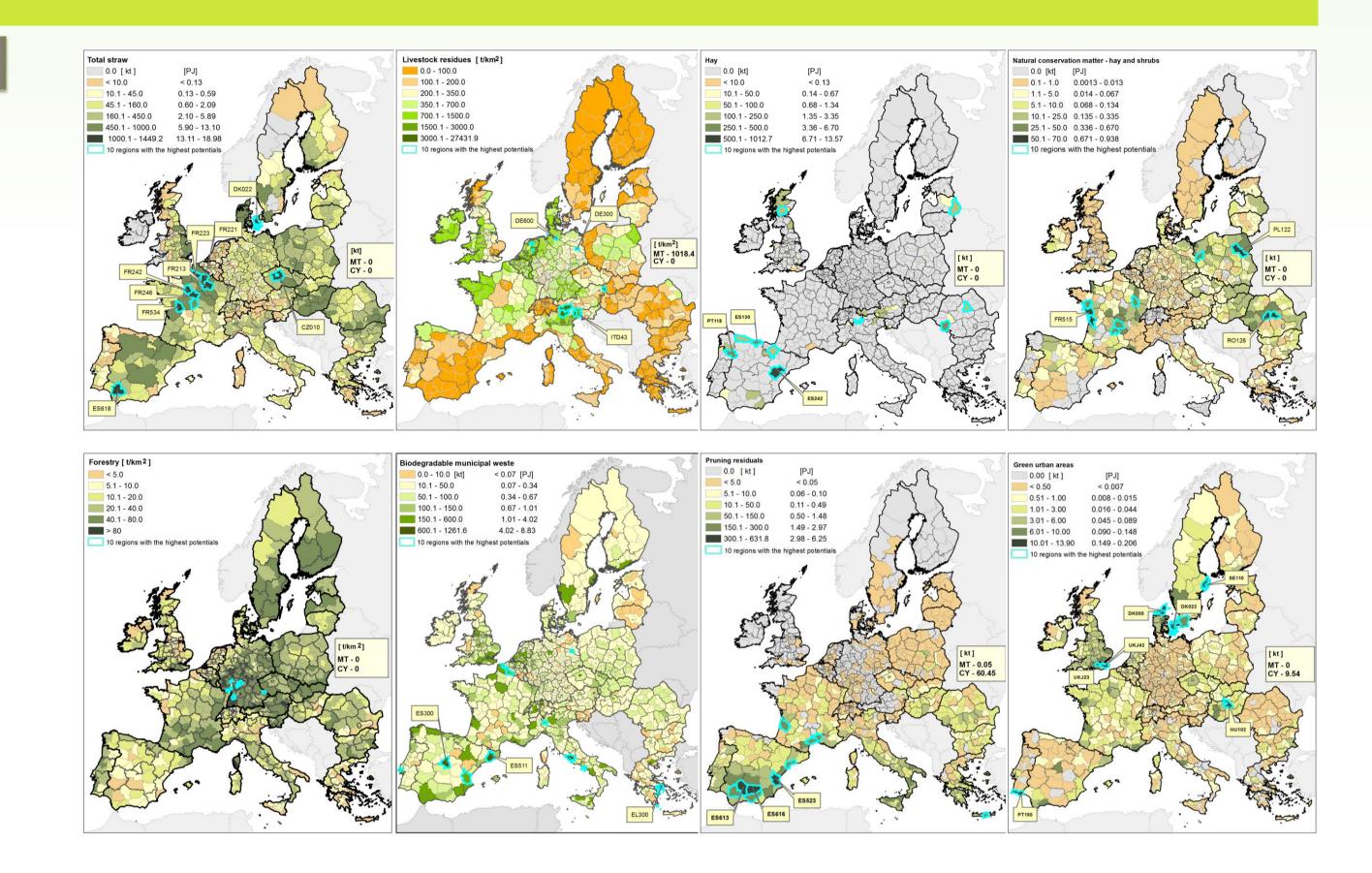


The analysis of the biomass potential in the EU-27 and Switzerland along with their possible use for energy purposes were calculated for the following types of biomass were done:

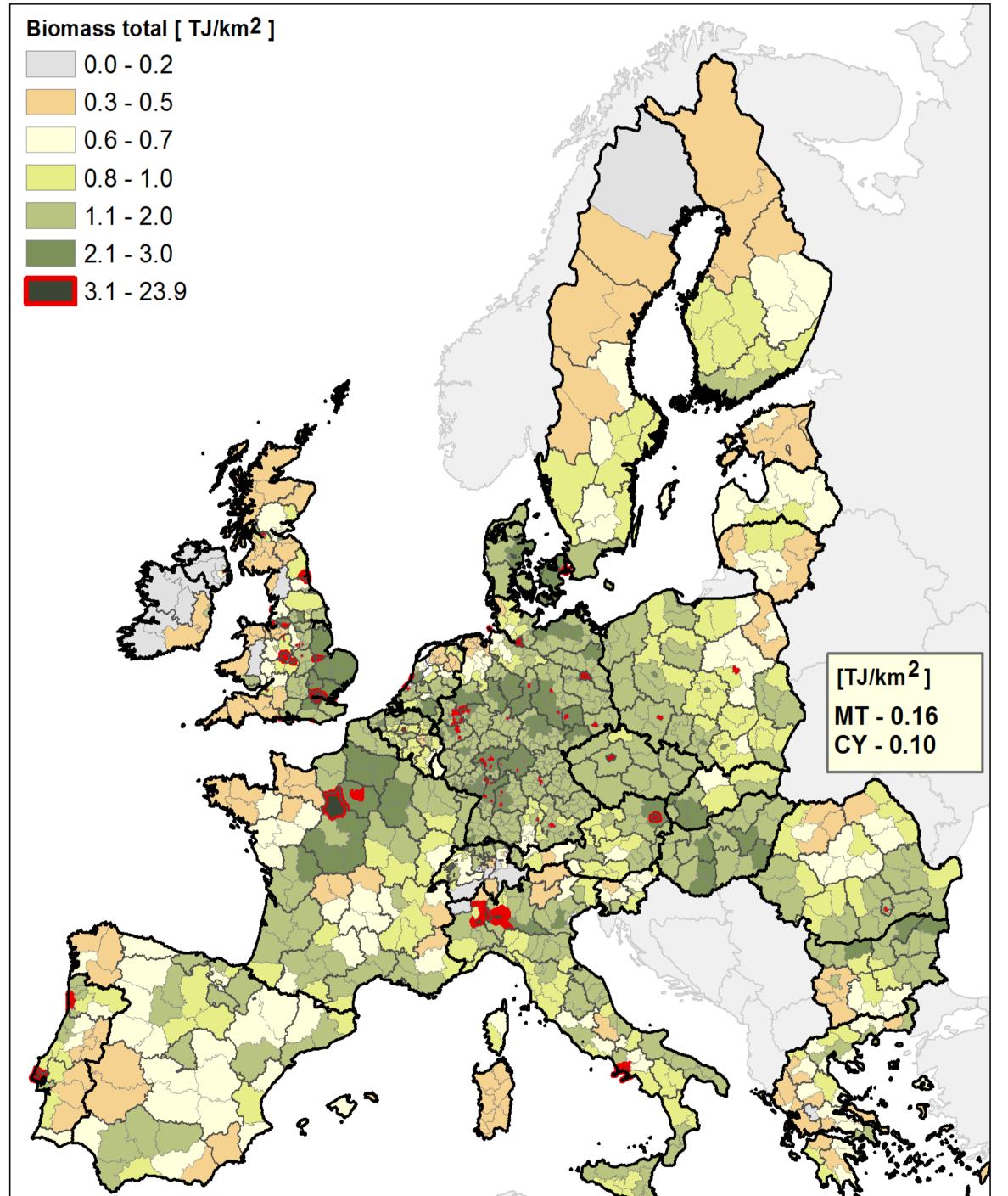
•agricultural (straw, orchard's pruning, hay) and animal residues (manure surplus), •forestry residues,

•natural conservation matter (urban maintenance of green areas, hay and shrubs), roadside vegetation,

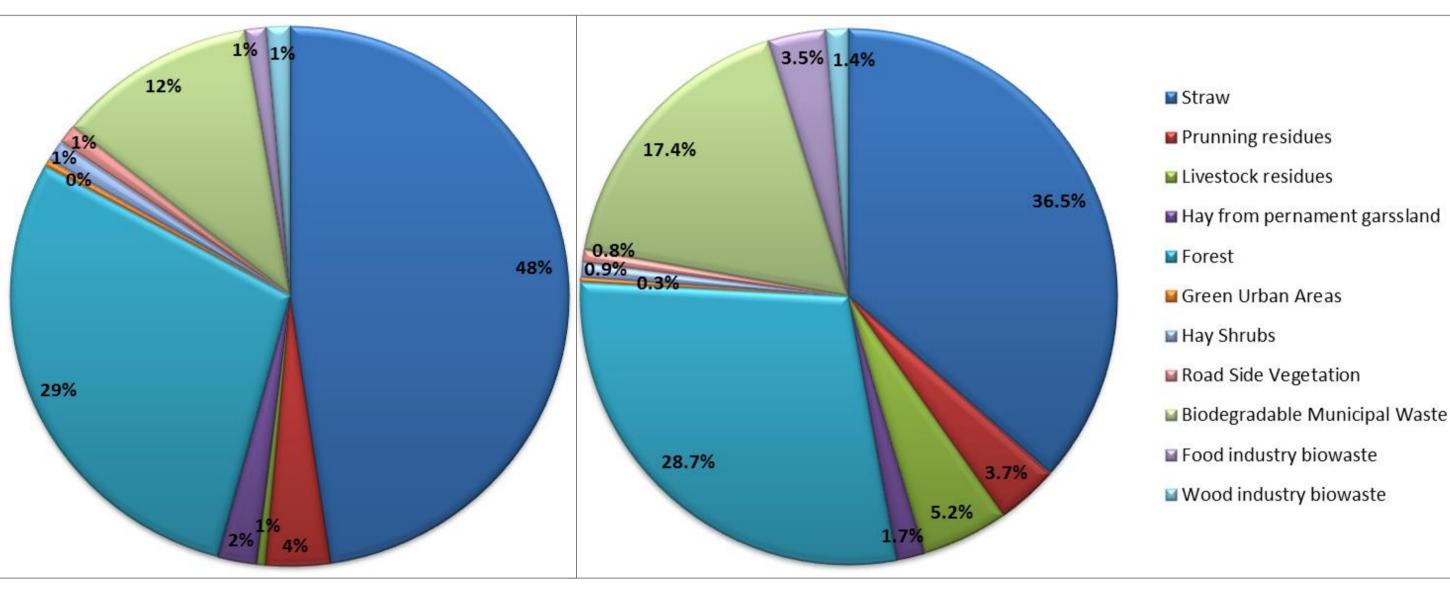
•urban and industrial waste (biodegradable municipal waste, selected waste from the food and wood industry).







### Fig. 1. Partition of biomass resources



## **Project Facts**

THEME, ENERGY.2011.3.7-1: Development of new or improved sustainable bio-energy carriers. Project acronim: Bioboost Project reference : 282873 CP in FP7 Coordinator: Karlsruhe Institut für Technologie (KIT) Start: 01/2012 Duration: 42 month Budget 7.3 Mio € Funding: 5.1 Mio € Beneficiaries: CERTH, AVA-CO2, CHIMAR, TNO, GRACE, IUNG, FHOÖ,



Rafał Pudełko Zakład Agrometeorologii i Zastosowań Informatyki rpudelko@iung.pulawy.pl

## Institute of Soil Science and Plant Cultivation Czartoryskich 8, 24-100 Puławy, tel.: +48 81 886 34 21, fax: +48 81 886 45 47 <u>iung@iung.pulawy.pl</u>, <u>www.iung.pulawy.pl</u>