

## Workgroup 1 meeting minutes

### DAY 1

Introduction of workgroup members, their background and interests

Group exercise 1 – mapping of the value chain that WG1 topic deals with

Group exercise 2 – analysis of the value chain and the competencies available in the WG1

### DAY 2

Group exercise 3 – mapping of interests and expectations from the WG1.

Analysis of the interests – formulation of tasks

Task 1 – put together a database on all stages involved from raw material to products;

Task 2 – create a web-based application to make use of that database;

Task 3 – create two STSMs for the purpose of putting together aforementioned database;

Task 4 – write a review paper on the best practices of waste-to-energy carriers.

Election of co-leaders and task leaders – Core Group of WG1

Timo Kikas – leader

Ahmed Rassili – co-leader

Tosin Somorin – co-leader

Jorge Marchetti – task leader

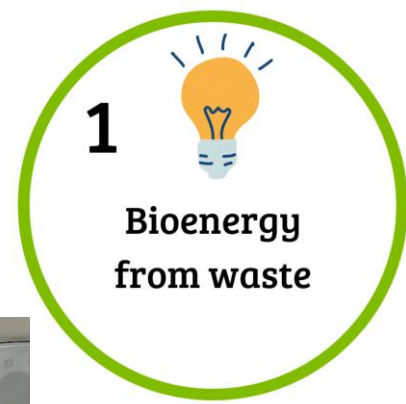
Feyza Kazanc – task leader

Mabel ??? – task leader

Predrag Kojic – task leader

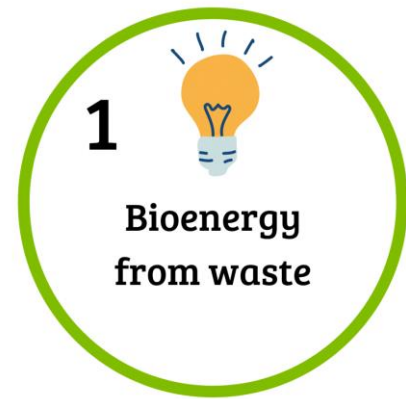
Joint session with WG2 – mapping of overlaps and common interests.

# WG1: Bioenergy recovery from (wastes)



**WG1 @ Classroom**

# WG1: Bioenergy recovery from (wastes)



ByProducts/WASTE

Facilities and equipment

Processes

Products

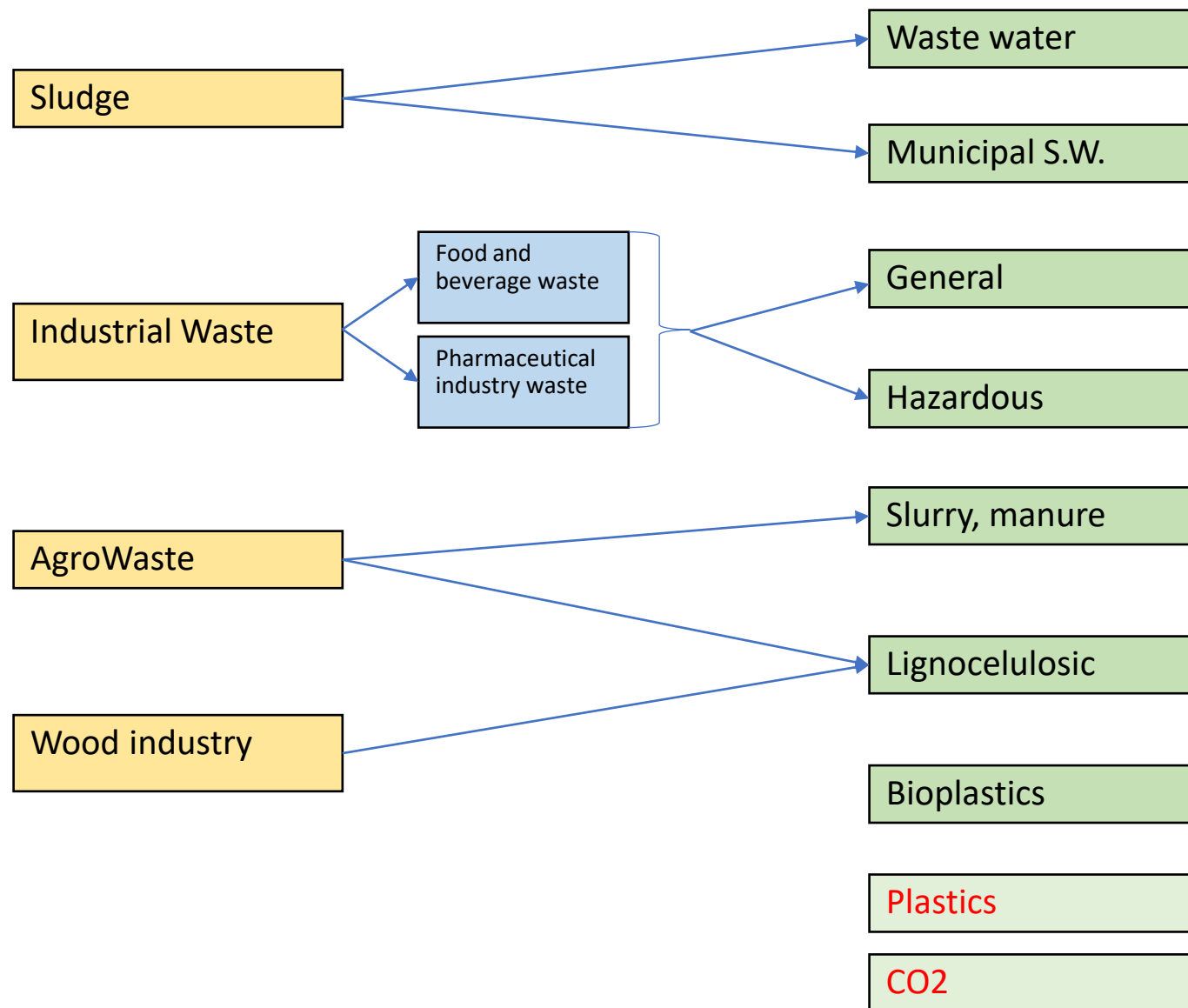
Impacts and Implications

## ***WG Activities Value Chain***

WG1 will focus on converting wastes to bioenergy carriers, e.g. bioethanol, biohydrogen, biodiesel, bioethanol and other alcohols.

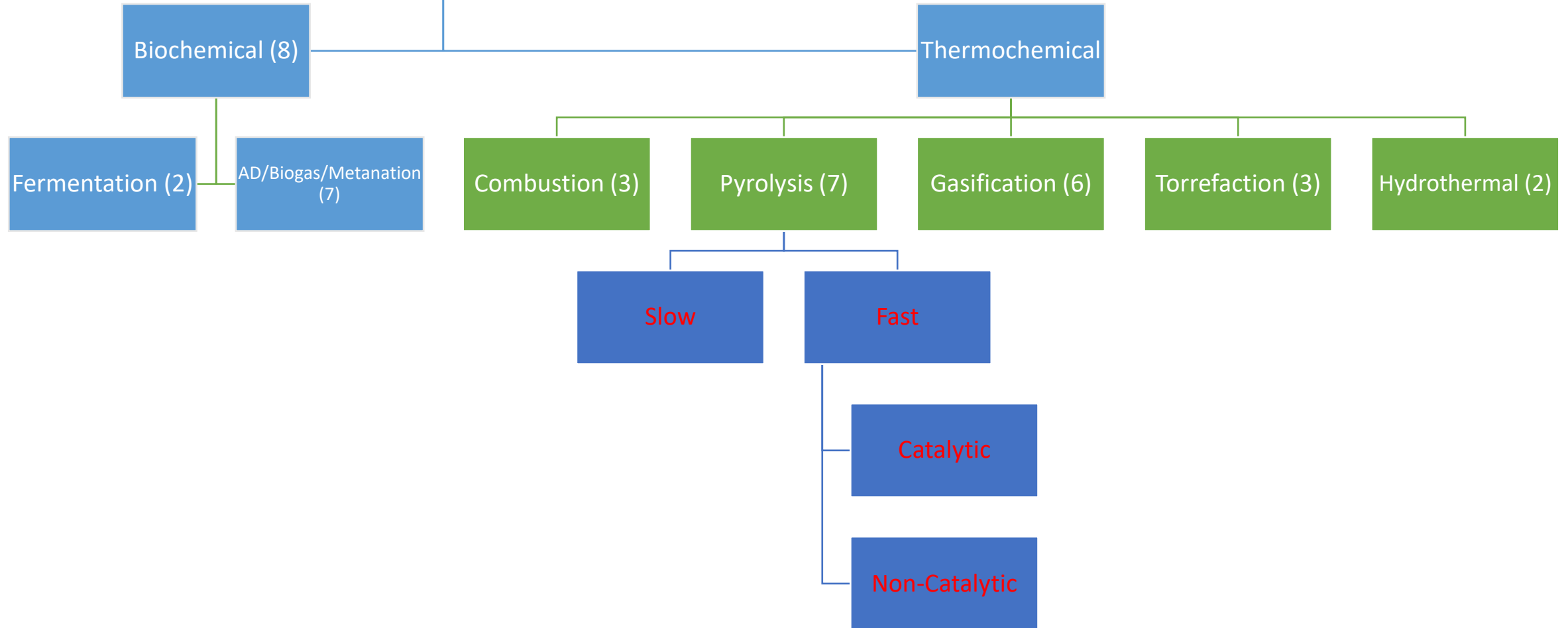
Depending on the characteristics of the waste, pretreatment could also be necessary, including thermochemical processes (e.g. gasification or pyrolysis).

# ByProducts/WASTE



# Processes

## Processes



Lab-scale reactors/units/rigs

Pilot-scale reactors /units/rigs

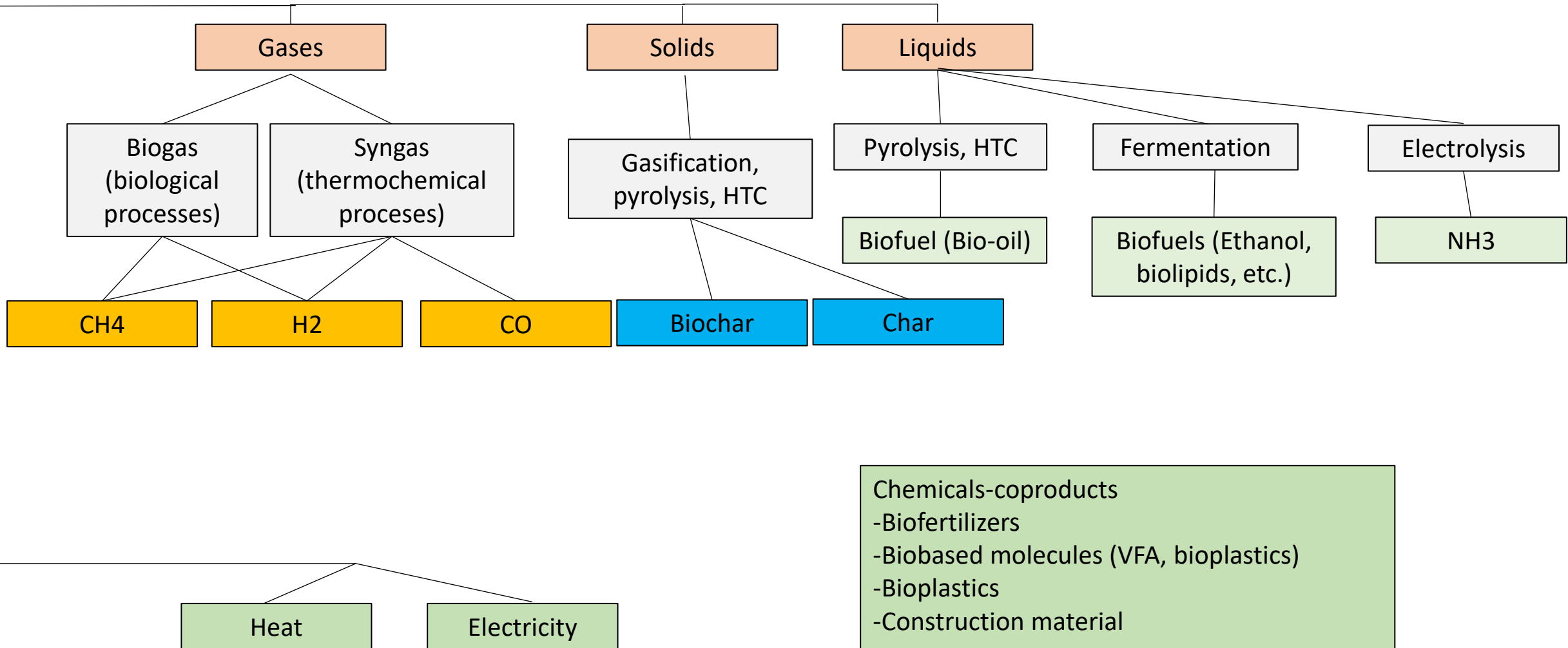
Industrial Pilot

Lab analytical equipment's

IT based tools (HPC, software's, ...)

Sustainability assessment tools (LCA, LCC...)

# Products



## Modelling & Applications

Full Recovery Business Modelling

Simulation of Processes

Reactor Modelling

## Assessment, Analysis and Optimization (Environmental, Social, Economical, Technical)

Sustainability Assessment & Analysis

Life Cycle Analysis

Life Quality assessment

Techno-Economic Assessment, Analysis and Optimization

## Stakeholder Awareness & Impact

Full Recovery Business Model

Implementation Success Factors

Quadruple Helix Collaboration Impact