

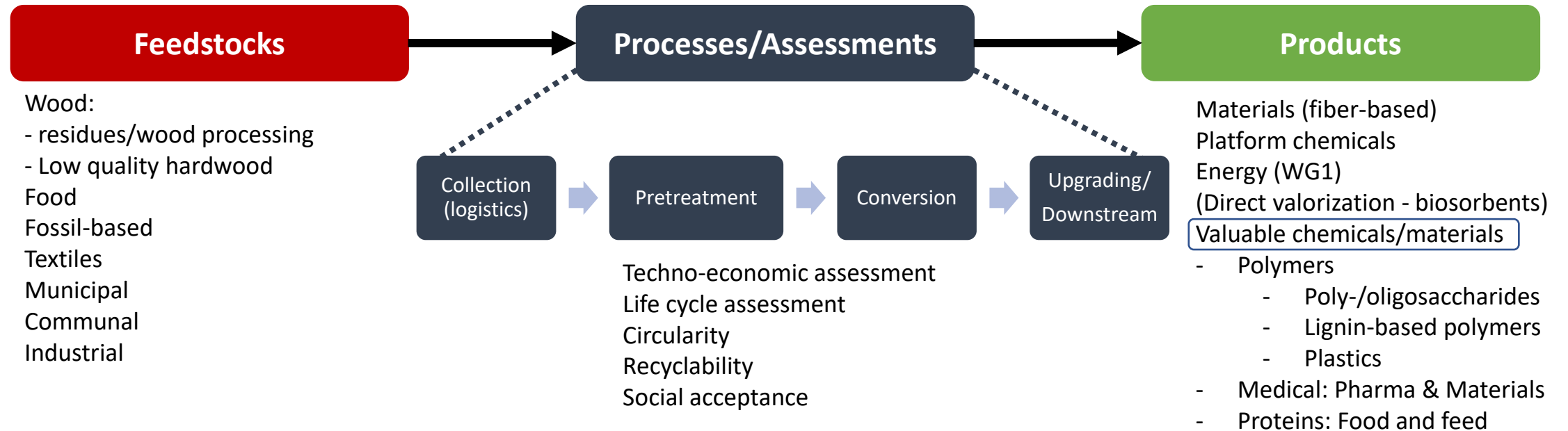


# WG2: Biochemical recovery from wastes

WG2 Meeting 23.05.2022 – 24.05.2022

# Brainstorming session – Schematic overview

Efficiently map existing expertise in review



# WG2 – Structure

- WG2 Leader: Dr. Belén Garcia
- WG2 Co-Leader: Philippe Nimmegeers
- WG2 Core group: Above + Taskforce leaders
- WG2 Taskforces



Feedstocks
Susanne
Elina (Gamze)
Gopal
Christine

Processes/Assessments	
Pieter	Jorge
Philippe N.	
Gopal	
Ersin	
Maria G.	
Koutinas	
Chris	

Platform chemicals
Isaac

Valuable chemicals/ materials	
Koutinas	Ersin
Gamze	Isaac
Pieter	Nikola
Philippe C.	Mustafa
Belén	Oguz
Jaunius	Jorge
Evi	

# WG2 – Description

- Biochemical recovery
- Value creation (high added value products)
- Feasibility
  - Economic
  - Environmental
  - Technical
  - Social acceptance



# WG2 – Potential deliverables

- Training school – Blended Intensive programmes (Erasmus+)
- Publications
- Project applications
- Database
  - Feedstocks
  - Conversion processes/Valorization routes
  - Geographical information/Location
- Decision support tool

# Schedule 24.05

- Meeting with WG1 after first coffee break (10:45)
- Discussion within taskforces – by end of the day:
  - Define initial research questions
  - Identify synergies
  - Link to deliverables
  - Representative of each taskforce for core group
- Budget

# TF1 – Feedstocks

- Initial research questions  
*“What is the amount of potential feedstocks, available for valorization?”*
- Identified synergies  
→ discussed more on how to get to the database, steps:  
Workflow 1: building structure  
Workflow 2: filling in database (focus on food and wood, could be extended to other sectors), characterization (amount, location/geospatial distribution, molecular, physical, technical, seasonality, existing uses)
- Link to deliverables  
→ Database, also use option of STSM, to be further refined
- Representative of each taskforce for core group: **Elina Dace**

# TF2 – Processes/Assessments

- Initial research questions
  - “*What is the smartest way to valorize feedstocks into products?*”
  - “*How can we facilitate these decisions (indicators, criteria, KPIs)?*”
- Identified synergies
  - to be further discussed in online TF follow-up meeting.
- Link to deliverables
  - How can we develop biomass value chains? (Erasmus +)
  - Connection to other deliverables is trivial
- Representative of each taskforce for core group: **Philippe N.**
- **STSM: How to structure information to make smart decisions?**





# TF3 – Products

- Initial research questions
  - “What type of bioproducts are already produced/What is the current knowledge?”*
  - “What are achievable qualities and how does it relate to compliance?”*
  - (“How can we produce bioproducts and what functionality can be replaced by bioproducts?”*
  - “What are feasible and sustainable choices to make?”)*
- Identified synergies
  - Wide range of products – including ion adsorbents, antioxidants, antimicrobials, alcohols, biopolymers, bioplastics, single cell oil, (V)FA, construction materials, caffeine derivatives (?), pigments, drug delivery systems...*
- Link to deliverables
  - review, collaboration for research paper, monthly meetings to explain products in more detail
- Representative of each taskforce for core group: **Gamze**

# WG2 Core group

- WG2 Leader: Belén Garcia
- WG2 Co-Leader: Philippe Nimmegeers
- TF1 – Feedstocks: Elina Dace
- TF2 – Processes/Assessments: Philippe Nimmegeers
- TF3 – Products: Gamze Mujdeci

# Budget

- Open access publications: no budget
  - Targeted strategy for free open access publications
  - E.g. RSC – New journals fully open access – waived the fee for first 2 years
- Centralized database/decision tool development: 2500 euros (centralized, each WG could/should allocate this amount)
- 3 STSM/Research stays: 7500 euros
  - Targeted STSM to be defined by taskforces
  - 1 STSM/taskforce



# Thank you very much!

