

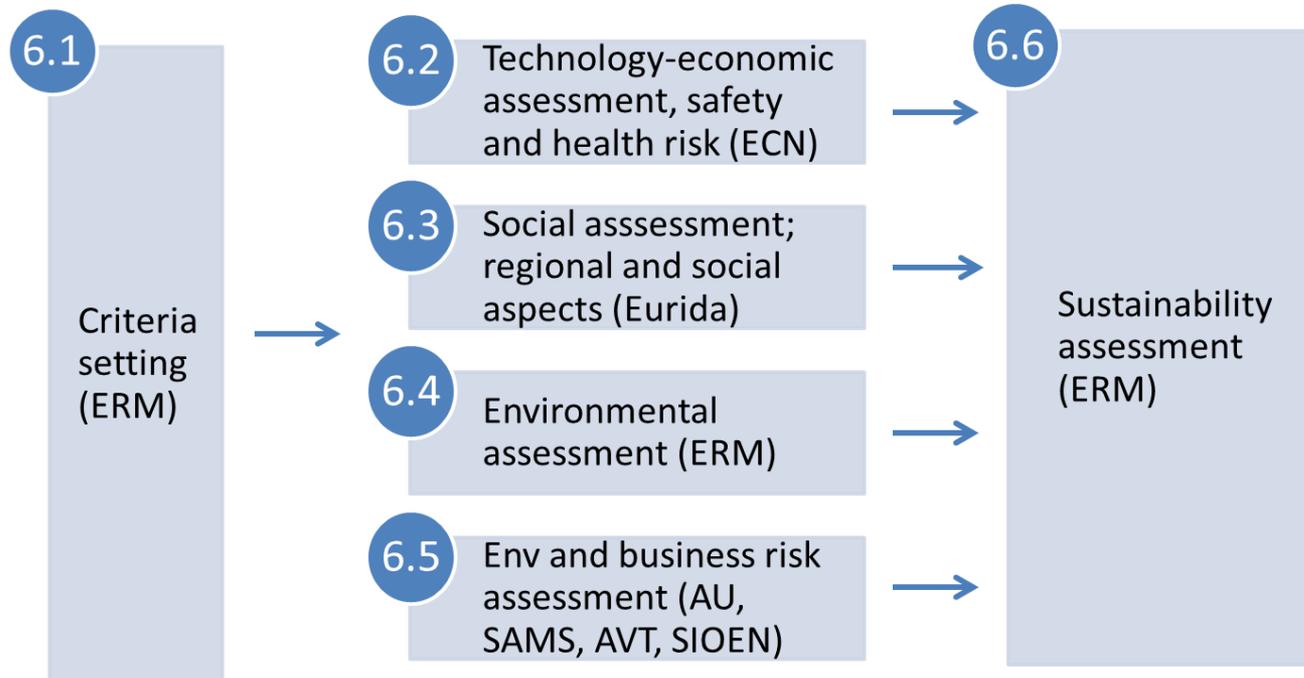
WP6: Sustainability Assessment

Progress Meeting 27th June 2016

AU, AVT, ECN, Eurida, SAMS, SIOEN, ERM



Reminder of WP6 Scope



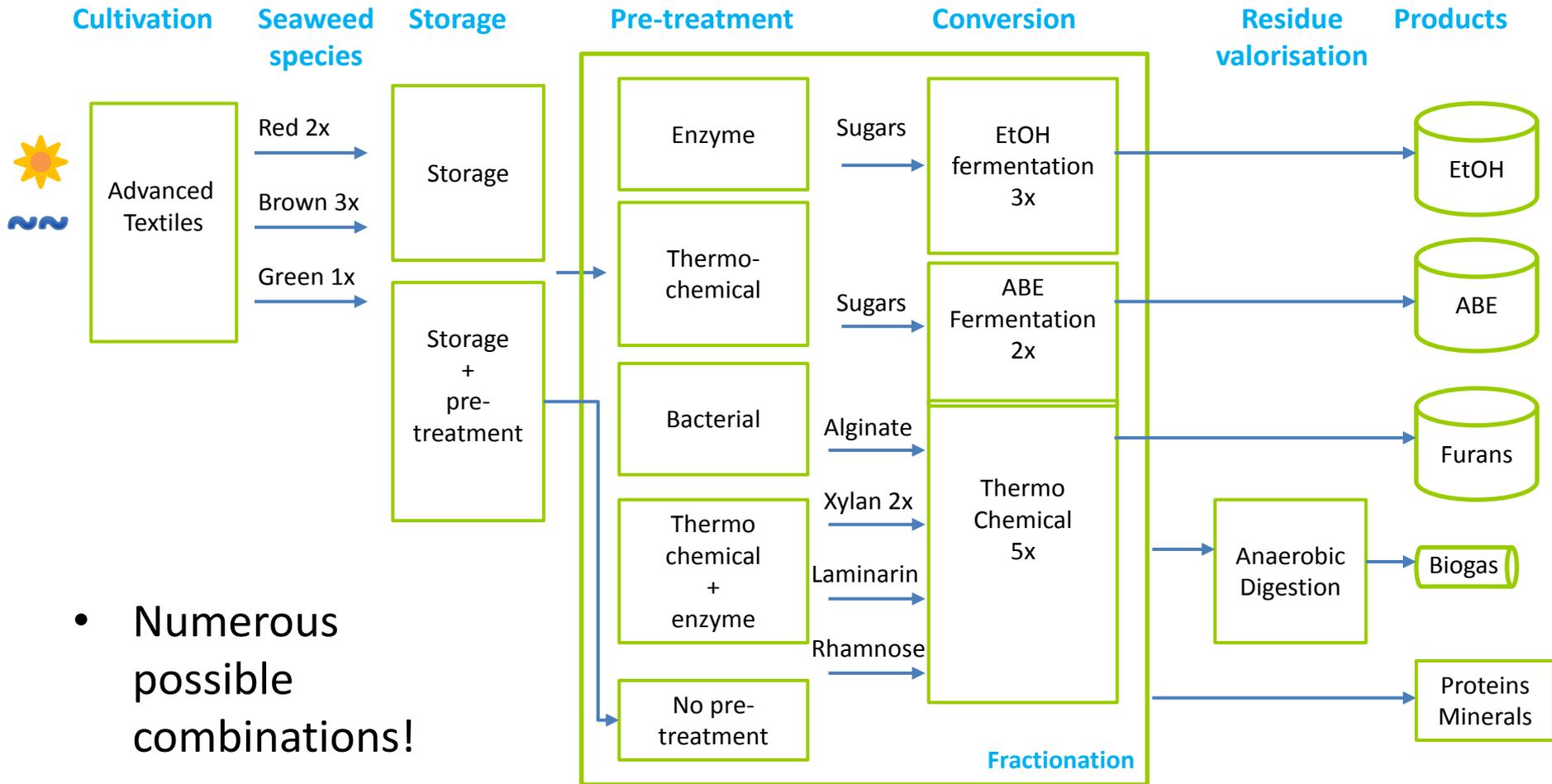
- Task 6.1 (ERM) M6-M12
- Task 6.2 (ECN) M12-M28
- Task 6.3 (Eurida) M12-M42
- Task 6.4 (ERM) M24-M36
- Task 6.5 (AU, SAMS, AVT, SIOEN) M12-M40
- Task 6.6 (ERM) M36-M48

Scope of WP6

What questions is H2020 likely to expect answered?

- Which MacroFuels biofuel is best from a sustainability point of view?
- How does the biochemical approach perform compared to the thermochemical?
- What is the influence of different product/co-product uses?
- Which unit processes influences the results significantly and what are the optimisation potentials?
- *Are there differences depending on plant capacity?*
- *Do the results differ depending on geographies?*
- How does MacroFuels perform compared to the conventional transport fuels?
Currently available biofuels?
- *How does the MacroFuels concept perform compared to alternative uses of the feedstock or cultivation area?*

Scenarios



- Numerous possible combinations!

Proposed MacroFuels Scenarios



- **3-4 baseline scenarios**
 - Possibly for the three products?
 - Comprising the most likely production route
- A number of **scenarios evaluating variations**, eg
 - Sensitivity analysis on process variations
 - Sensitivity analysis on alternative pre-treatment
 - Sensitivity analysis on alternative co-product uses
 - Sensitivity analysis on energy provisions
 - ...



Data Collection

- Initial modelling likely to be based on **current technologies** using other feedstocks
- Crucial for credibility of study to not settle with that, but to get **input from WPs**

Next Steps

By M12, following feedback from today, **finalise the scenarios**, as well as define the indicators (D6.1)

Next Work Tasks

- Tasks 6.2, 6.3 and 6.5 commencing M12

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