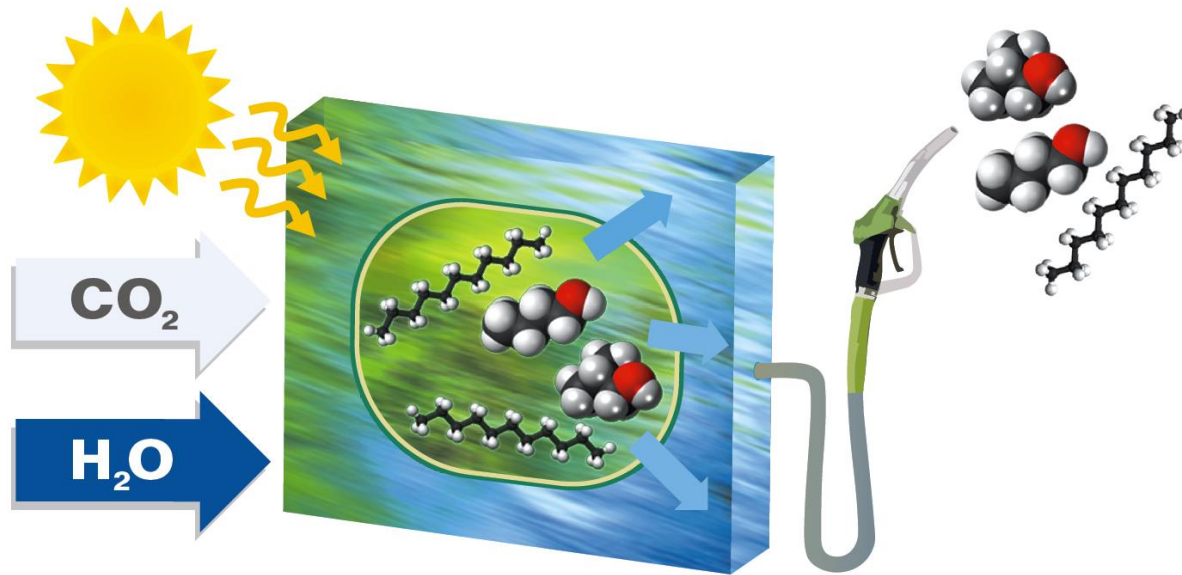




# Biocatalytic solar fuels for sustainable mobility in Europe

EU algae roadmap conference  
Simon Kühner (project manager)

**Overall objective:** Promote the development of high quality, low impact transportation fuels



**Challenges:** Photobiocatalyst development - Synthesis of fuel compounds - Excretion to medium – Direct, continuous separation – Fuel blending – Engine tests

# Approach



## WP 2 Biocatalyst development

- 2 cyanobacterial strains 1 microalgae
- Target fuels butanol, medium chain alcohols and alkanes, sesquiterpenes.
- Best strain(s) selected and jointly improved in the last 18 month of the project.

## WP 3 Production upscaling

- Final volume 5m<sup>3</sup>
- Outdoor production fuel compounds
- Continuous fuel separation

## WP 4 Fuel blending

- Analyse raw products
- Blend on-spec fuels

## WP 5 Engine tests

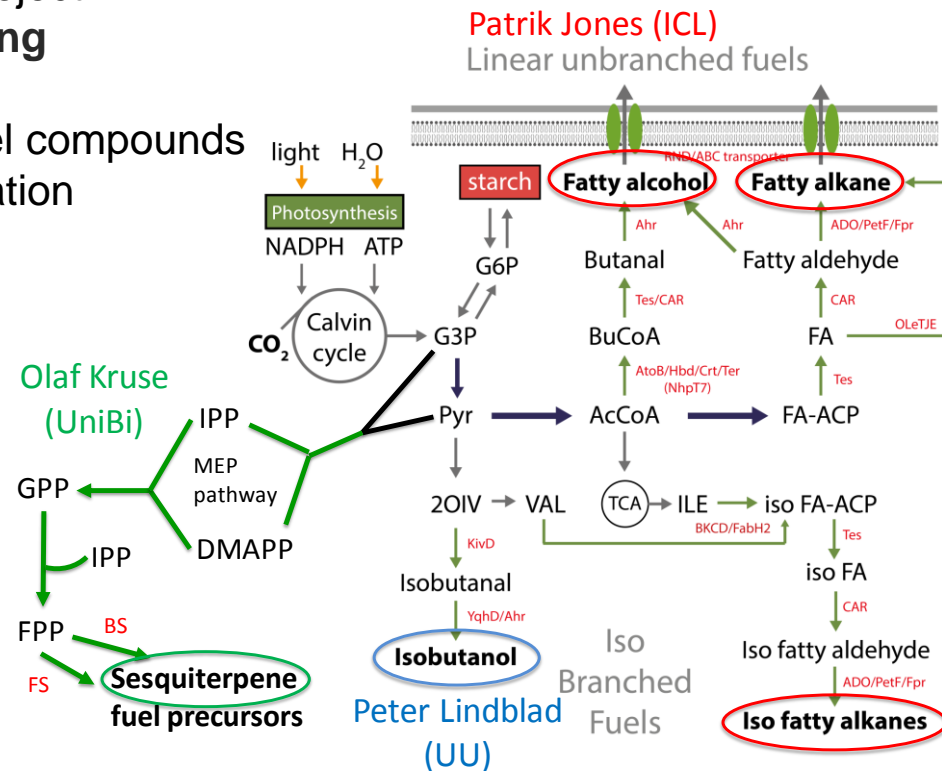
- Analyse raw products
- Blend on-spec fuels

## WP6 Assessment

- LCA
- Economic
- Risks

## WP7 Business case

- Business case development



# Project facts

<b>Budget</b>	6 million EUR	<b>Funding</b>	6 million EUR
<b>Duration</b>	48 Months	<b>Start</b>	May 2015
<b>EC-DG</b>	Research	<b>Priority Area</b>	Renewable energies
<b>Contract No.</b>	640720		
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