



PULP & FUEL

Pulp and Paper Industry Wastes to Fuel

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Project identity

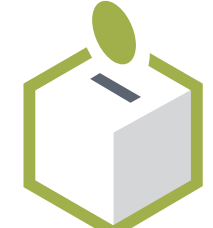
Funded by the EU H2020 under the call LC-SC3-RES-21-2018 - Development of next generation biofuels and alternative renewable fuel technologies for road transport (02/2018)



10 Partners
from 4 countries



Project duration
Oct 2018 - Sept 2022



Budget
4.9 M€

Challenges

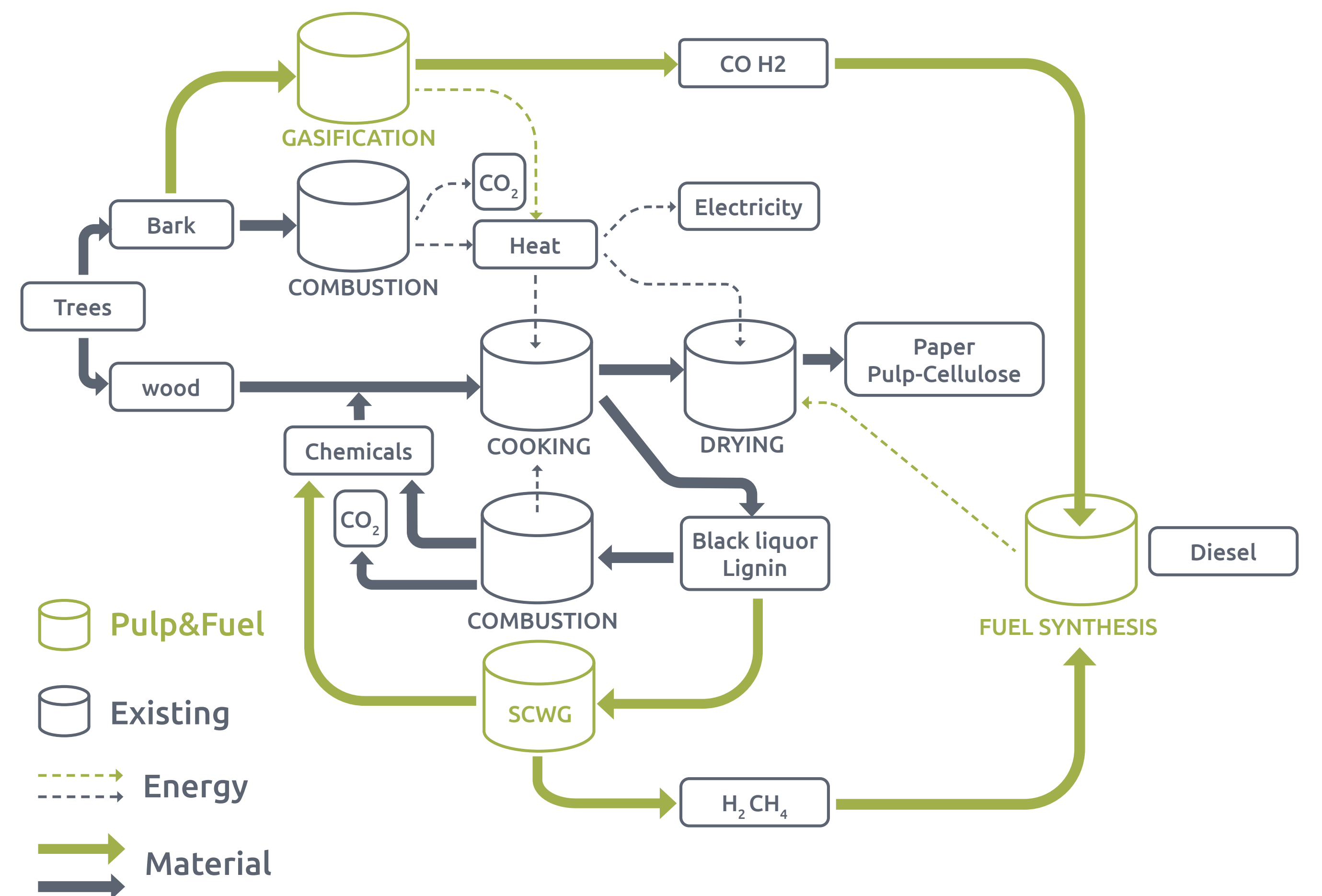
Biofuels promising but :

- **Limitations in biomass availability**
Quality issues
Wastes complex and diffuse
Residues
- **Technological pathways to biofuels**
Direct conversion (Pyrolysis and HTL) and upgrading
Gasification and synthesis
Biotechnology
Always complex
- **Potential operators**
Waste operators
Refiners
Pulp and Paper industry

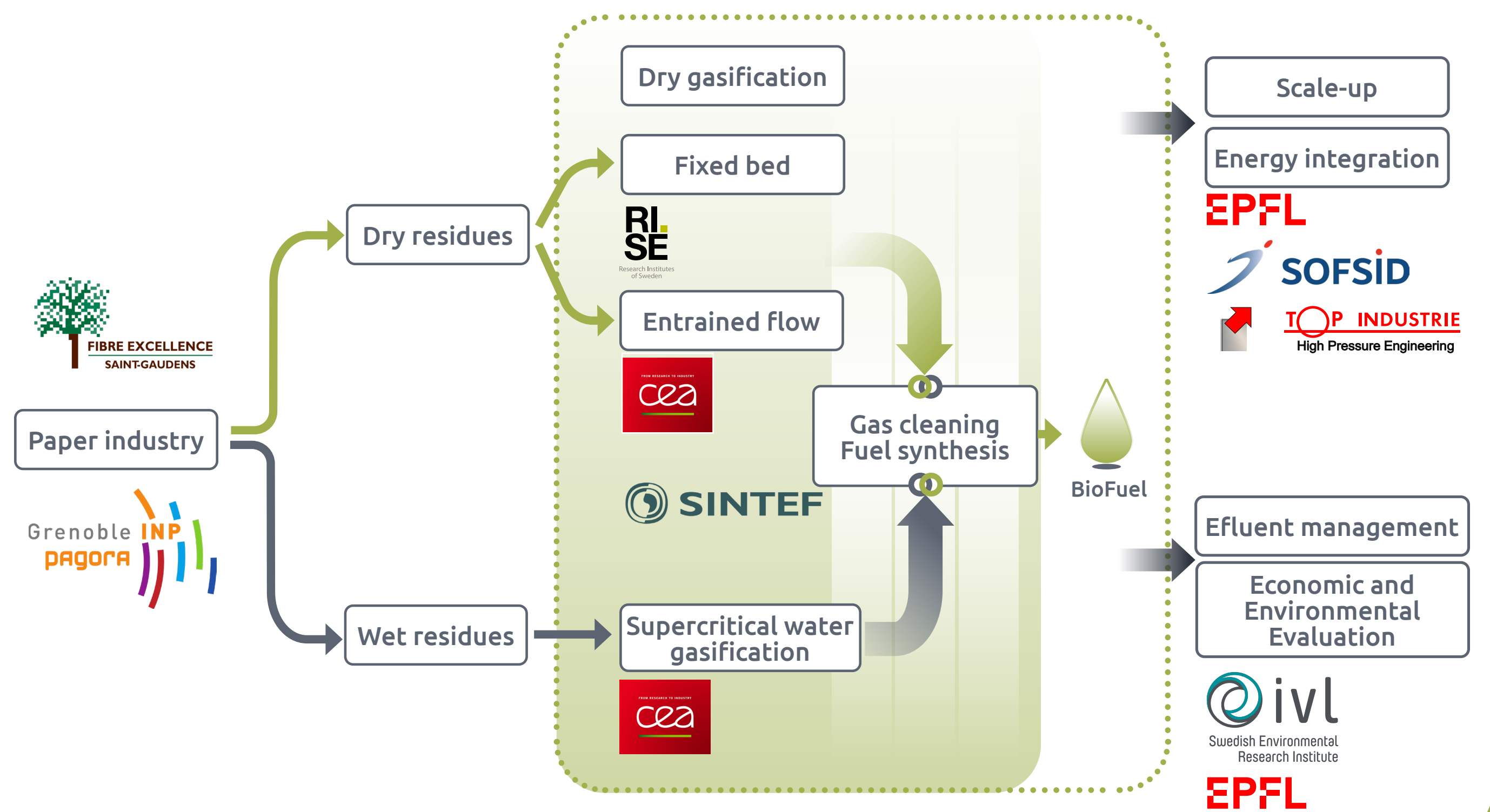
5 ambitious specific objectives

- 1 Improve the **efficiency** of the **dry gasification** process from 70 to 80 %
- 2 Improve the **carbon conversion** of the **wet gasification** process to above 90 %
- 3 Improve fuel synthesis to obtain **carbon efficiencies** above 50 % (state of the art 45%)
 - Reduce CO₂ emissions fuel to 0.37 kg/L
 - Production 5L biodiesel
- 4 **Integration of the full process and synergy** between dry and wet gasification
- 5 Show that **biofuels** can be produced **under 1 €/L**

The Pulp&Fuel concept



Work distribution



Technological approach and expected impacts

- Integration of gasification and fuel synthesis technologies into the pulp industry
- Show how biofuels can be a **side product** of the paper industry => **synergy** with the existing process
- Show how with modern technologies the paper industry can deliver 2nd generation biofuels at a competitive cost
- Prepare the ground for a **demonstration plant**



<http://pulpandfuel.com/>



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PulpAndFuel Project

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