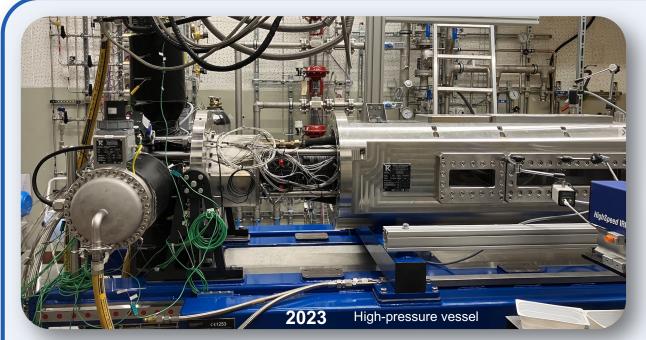
ETH zürich



From the 1930's Engine Laboratory to today's High-Pressure Combustion Research Platform *Pele*





Pele was initially developed for the ERC Consolidator project TORCH (2019-2024, ID: 820091). This unique infrastructure for applied and fundamental research on hydrogen combustion is key to develop future sustainable technologies for long-distance aviation and power generation.

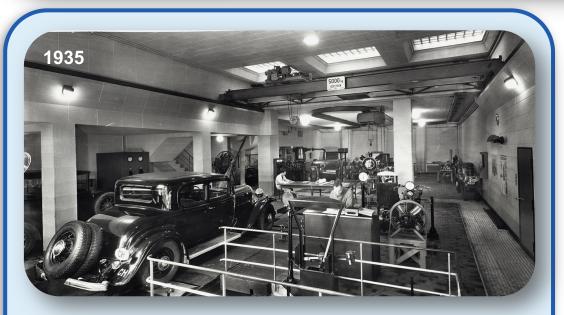


Key features:

max. operating pressure: 8 bar max. thermal power: 500 kW max. inlet temperature: 400°C Tunable acoustic boundaries



Pure Hydrogen operation at max power: > 30 min



The Engine Laboratory was an annex of the Machine Laboratory which was established in 1900 by Prof. Aurel Stodola



Upgrade of the fuel storage and distribution system



Large single cylinder test platform. This research enabled the



development of new technologies for synthetic fuels in internal combustion engines for transport and power generation.

