



## PROJECT FINAL REPORT

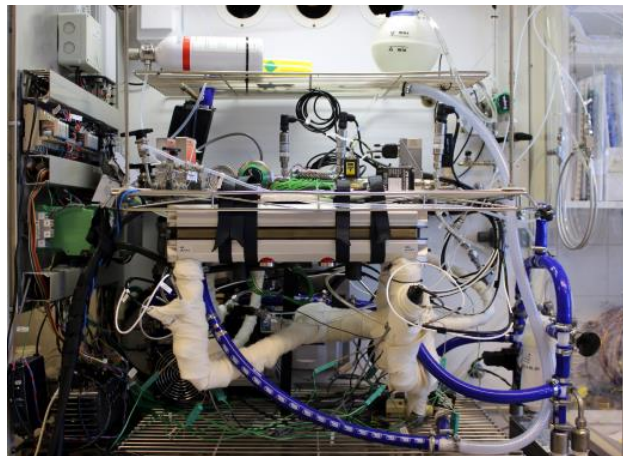
### A. Publishable - FIGURES

Grant Agreement number: **621223**  
Project acronym: **HyCoRA**  
Project title: **Hydrogen Contaminant Risk Assessment**  
Funding Scheme: **THEME [SP1-JTI-FCH.2013.1.5] [Fuel Quality Assurance for Hydrogen Refuelling Stations]**  
Period covered: **from M1 to M39**  
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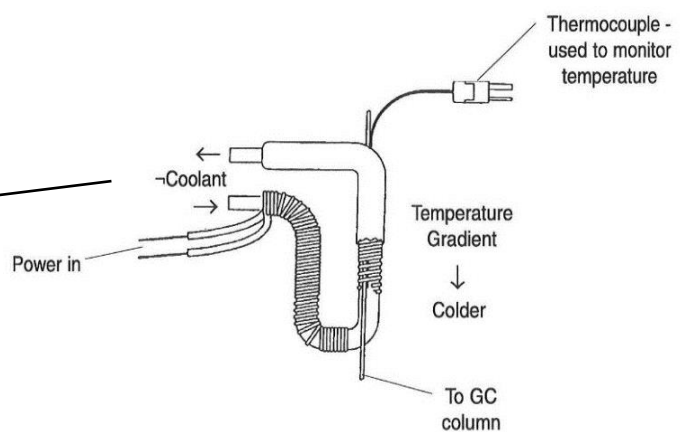
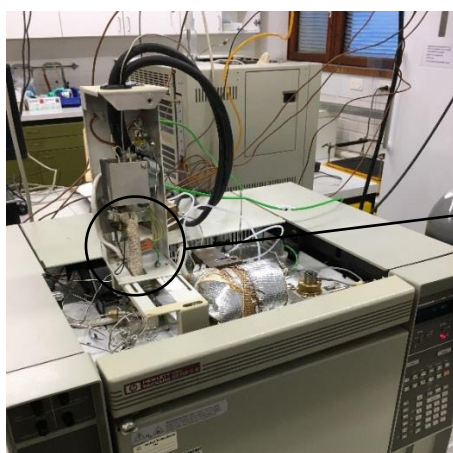




**Figure 1. Sampling of H<sub>2</sub> fuel with a FCHEV as a sink.**



**Figure 2. VTT's miniature automotive fuel cell stack test bench.**



**Figure 3. GC with Tekmar-3000 cryofocusing module and a cutaway view of the cryofocus trap.**



Figure 4. Left: HyCoRA FTIR assembly showing Liquid Nitrogen cooled detector assembly that can be inter-changed with DTGS for fieldwork. Right: Mass Spectrometer analyser built for HyCoRA project



Figure 5. Sampling of H<sub>2</sub> fuel from HRS with Linde Qualitizer.

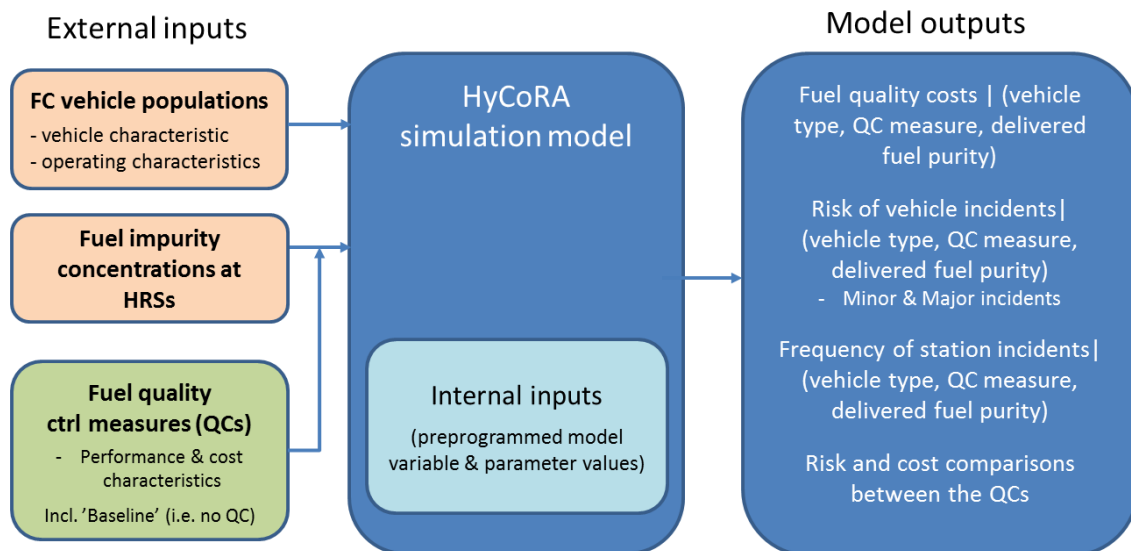
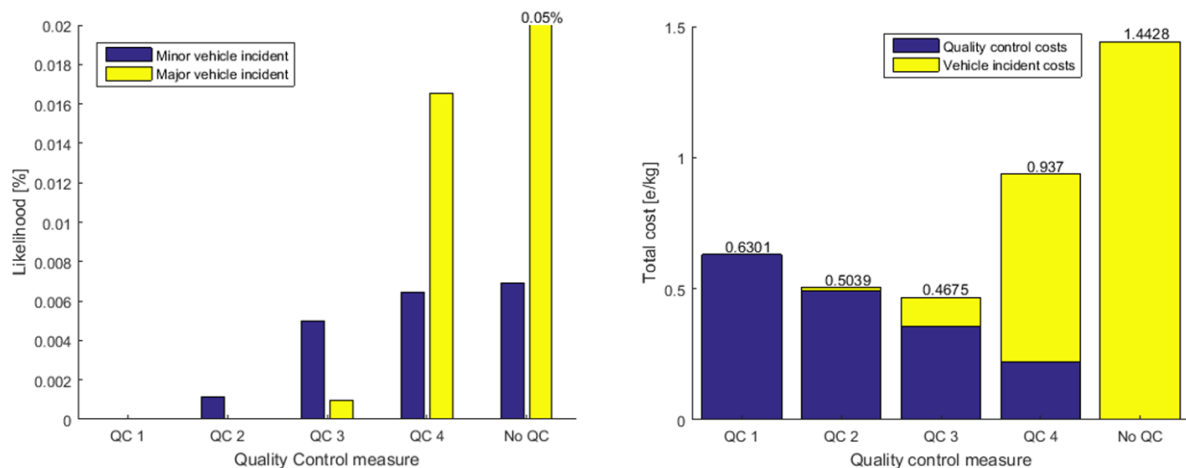


Figure 6. HyCoRA simulation model's concept for assessing the effect of hydrogen fuel quality control measure options on the risk of degraded vehicle performance and fuel costs.



**Figure 7. Results from example calculation for FCEV. Left: the likelihoods of experiencing minor or major incidents, right: total cost of different QC measures.**

## Website, contacts

Project website: <http://hycora.eu/>

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