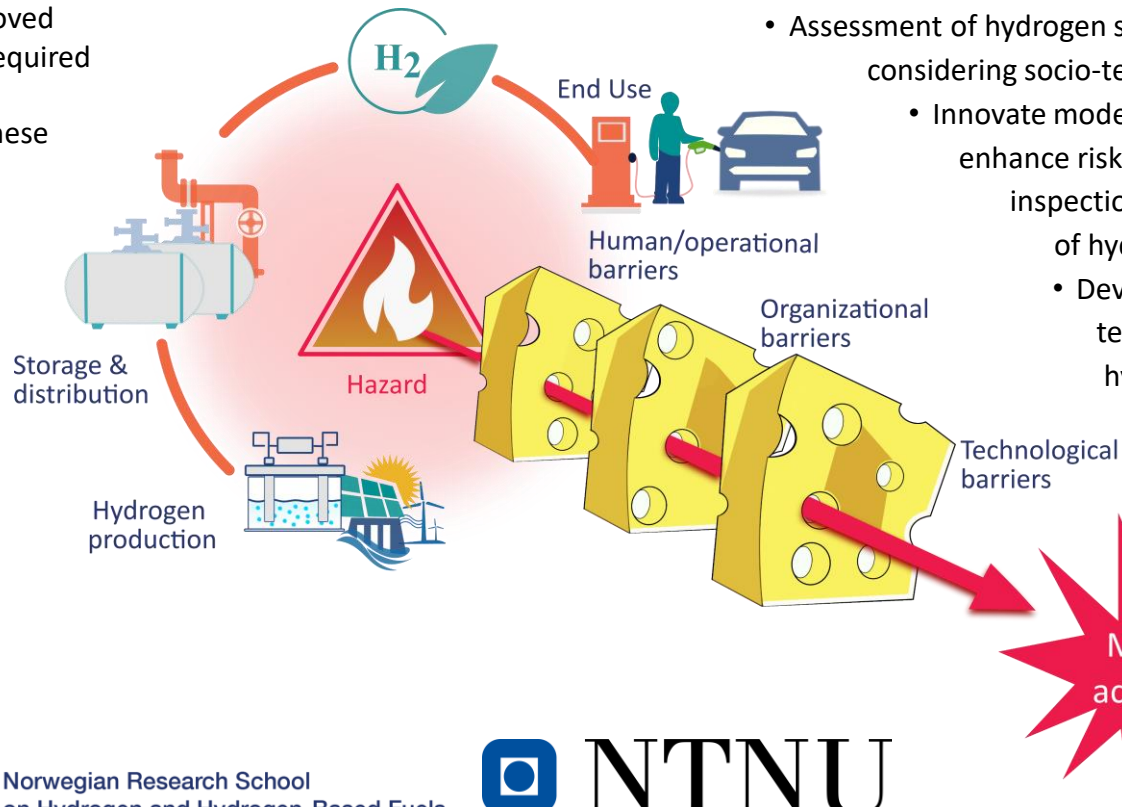


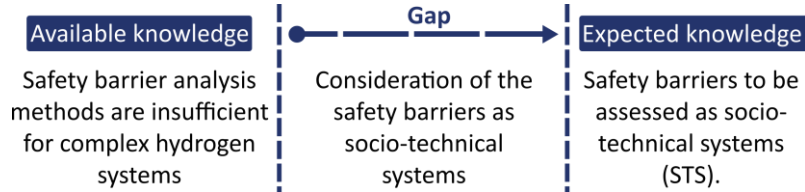
Improved modeling of socio-technical systems for hydrogen value chain

Introduction

Hydrogen technologies offers a sustainable solution to climate change problems, but its systems must be safe. Hydrogen systems are complex socio-technical systems. Human or operational, organizational along with technical aspects plays a crucial role in preventing catastrophic events as safety barriers. However, thorough study & improved modeling is required for properly quantifying these factors.



Research Gap and Objectives



Objectives:

- Assessment of hydrogen systems while considering socio-technical factors.
- Innovate modeling techniques to enhance risk detection, inspection, and maintenance of hydrogen systems.
- Develop optimum & safe test procedures for hydrogen experiments

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Estimated progress of the PhD project:



Status and Publications

