What is HEAVENN?

A project to create an integrated green hydrogen infrastructure: production, storage, transportation, end use, research and replication.

30 partners – 6 EU countries


2020 – 2027 (requested extension)
Successes!
Future successes!
Future successes!

Main reasons that successes are not yet achieved:

- Business case under pressure;
- Lack of steady offtake;
- Lack of enough cofinancing – delay FID;
- Waiting for other partner;
- Waiting for certainty on regulations (Red3, state aid);
- Small delays due to permitting;
- Lack of OEMs, materials have long delivery times.
- Fuel cell vs hICE
Partners who tried, but did not succeed as planned
Partners who tried, but did not succeed as planned

Main reasons for changes

• Business strategy moves away from hydrogen as batteries become more efficient and hydrogen price rises;
• Technology advances quickly, partner is signed up in project for outdated technology;
• Technology not performing as expected;
• Hydrogen offtakers much less then expected (HRS – mobility).
Some lessons learned from HEAVENN for other projects:

- A long project in a pioneer market will run into many changes. Build flexibility into your project plan by focusing on end goal or process, more then on technology;
- Build a strong consortium: partners can help each other out;
- Partners need to be aware what is expected of them – subsidy comes with obligations;
- We hope the EC will consider market fluctuations when evaluating the project.