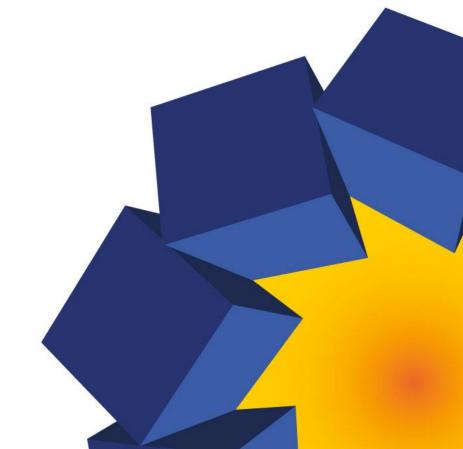


EMIRI TechTalk

R&I needs on Advanced Materials to unlock the hydrogen revolution

Key take-aways



Key take-aways



- Expectations from R&I (DG-RTD)
 - improving technology
 - increasing efficiency decreasing cost
 - enhancing sustainability circularity by design
 - preparing for deployment through demonstration in industrial environment
- Innovation in materials is fully part of the success of the Clean Hydrogen JU
- Impressive skills and expertise on solutions for a broad range of technologies available in Europe!
- And on-going R&I efforts...

Key take-aways



Further challenges and gaps

- Durability / Stability / Corrosion resistance
- PGM catalysts / Critical materials
- Costs / Costs / Costs...
- Fast and affordable manufacturing techniques / Easily-processible materials
- Sustainability / Circularity / By-design approach (SSbD)
- ...

Next steps

• By November 12

Fill in additional challenges/solutions in the miro boards

- Clean hydrogen production
- fuel cells
- Storage, transport and distribution
- ~By end of November

Consolidated input to be shared with the TechTalk participants and EMIRI Focus Group for feedback

~By mid-December

R&I Policy recommendations issued