

# North Adriatic Hydrogen Valley

2015-2023 & 2023-2029

Aleksander Gerbec, CEO at ECUBES Hydrogen & Flexibility

Ljubljana 18 april 2023





# NORTH ADRIATIC HYDROGEN VALLEY

Croatia, Slovenia and Italian autonomous region Friuli Venezia Giulia

North Adriatic Hydrogen Valley was born on November 24th , 2021

Industry driven initiative, 34 partners, 18 projects,

Cement, Steel, Glass, Power, Transport - heavy road, bus, rail, sea, air, energy storage,

h2 pipeline feasibility study, Cross Cutting,

€25M EU Funding will generate €214M Initial Investment and €739M Operational Investment

Aleksander Gerbec, ECUBES Hydrogen & Flexibility CEO,

*Ljubljana 18, April , 2023*

# ECUBES Hydrogen & Flexibility, entire hydrogen value chain

Est. 2014,

- objective too deliver clean energy infra project based on h2 tech - project ZEMC NA and Technology development
- Jan 31st 2023 - as the best european Hydrogen Valley of the year 2023
  - Current pipeline: >3 projects across Europe
- Participation in the European policy debate as a members of the European Clean Hydrogen Alliance (Energy Roundtable), and member of Hydrogen Europe
- Conference HYDROGEN ECOSYSTEM NORTH ADRIATIC with regional industry – solutions for affordable clean hydrogen, enabler for regional hydrogen ecosystem , hydrogen valley

## Experience:

- North Adriatic Hydrogen Valley Initiators 2019-2023
- Pan European Defence project RESHUB 2018 - 2019
- Asian Games 2018 - Hydrogen project and edu programme with DIT/UKF and Imperial College London
- Background Marine, Off-Shore & LNG by GASFIN and TGE (LNG), IMS Norway and ECUBES ARCOLA, Technology development

**European Clean  
Hydrogen Alliance**

Kick-starting the EU Hydrogen Industry to  
achieve the EU climate goals



**Hydrogen  
Europe™**



**Hydrogen Europe  
Research**



**Clean Hydrogen  
Partnership**

4/20/2023

# ECUBES Hydrogen & Flexibility, entire hydrogen value chain

INNOVATION, TECHNOLOGY AND PARTNERSHIP IN ACTION

**3rd HYDROGEN ECOSYSTEM NORTH ADRIATIC 2023**

and

**ITALIAN RESEARCH DAY IN SLOVENIA**

23 May 2023

Villa Vipolže, Goriška Brda, Slovenia



2023-2030 Solutions to supply affordable clean hydrogen, 5% of EU demand

SAVE THE DATE:

23.05.2023

## North Adriatic Cross border Hydrogen Valley

This is how we can accelerate the hydrogen economy

*„If we are to meet our climate goals, we need to accelerate in the European hydrogen economy. Hydrogen valleys, are a perfect example of the hydrogen economy we want to build. For example, the Groningen area – in the Northern Netherlands, from the island of Mallorca to the border region between Italy, Slovenia and Croatia. This is how we can accelerate the hydrogen economy on a local scale, on our way towards a European hydrogen economy as a whole.”*

*(Brussels, Hydrogen Week, November 29th, 2021)*

Ursula von der Leyen, president of the European Commission



## Open and free education for energy transition

**Educating young generation, that entire hydrogen value shall be developed simultaneously**  
**IMPACT ACHIEVED**

Slovenia and Croatia:

- 2019-2023: 4600 students;

Indonesia 2018:

- 6 Cities, 26 high schools and
- 1300 Young people



**Workshop H2STUDENT in high school in Tolmin**



**“Clean transport is a fundamental part of the shift towards a sustainable society. Linking renewables to clean transport is a key task for decision-makers.”**

*Dr. Paul Ekins at 25th meeting of the UN International Resource Panel, Nov. 8th 2019, BLED, Slovenia*

**DESIGN! BUILD! RACE!**