



**Hydrogen** is making the impossible **possible!**



# Company Vision (July 2021)

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The Bazan Group will be a positive bridge to the future of the energy economy for transportation in Israel and will lead a directed change in sustainability and innovation in the activities of fuels and polymers





# A Four-Prong Strategy



## Alternative Energy (with an emphasis on hydrogen)

We will lead the market in hydrogen and alternative transportation fuel



## Advanced and Green Polymers

We will lead the market of recycled polymers, perishables, and bio-polymers



## Fossil Fuels and Industries

We will adjust ourselves to the needs of the market and we will use green and advanced technologies. We will own logistics infrastructures and have advanced commercial capabilities to supply market needs



## ESG

For the sake of the coming generations, we are committed to the principles of advanced ESG



# Bazan has Marked the Hydrogen Market as a Strategic Target



Bazan has invested in the H2PRO company (which was born at the Technion) in order to produce green hydrogen.

Today, Bazan is the biggest producer of hydrogen in Israel

Together with Sonol, Bazan will establish a hydrogen gas station

By 2050, the global hydrogen market is **expected to grow eight times**

# Creating Innovation



## In 2022, Bazan Group joined the Quantum Innovation Group

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Quantum is an innovation center founded in 2020 by the Livnat family and Taavura Holdings Ltd, together with Telcar (the importers of Kia cars), the car giant Hyundai (the owners of the Hyundai and Kia brands), the VDL group (which is one of the largest manufacturers of electric buses in Europe) and the Israeli Tadiran Group. Joining Quantum will allow the center to increase its activities in the areas of energy, hydrogen, and industry.



## An Array of Innovation Builds the Future

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The BNNOVATION array was established in order to support the group's innovation activities.

In the framework of the array's activities, Bazan is working with leading companies in the fields of alternative fuels and alternative energy, hydrogen energy and plastic recycling.



## ESIL Innovation Lab

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The laboratory was established at the initiative of the Israel Innovation Authority by three partners: Bazan Group, EDF Renewables - the French international energy company, and the British chemical corporation Johnson Matthey (JM), which specializes in the production of catalysts and a variety of products for treating pollutants.

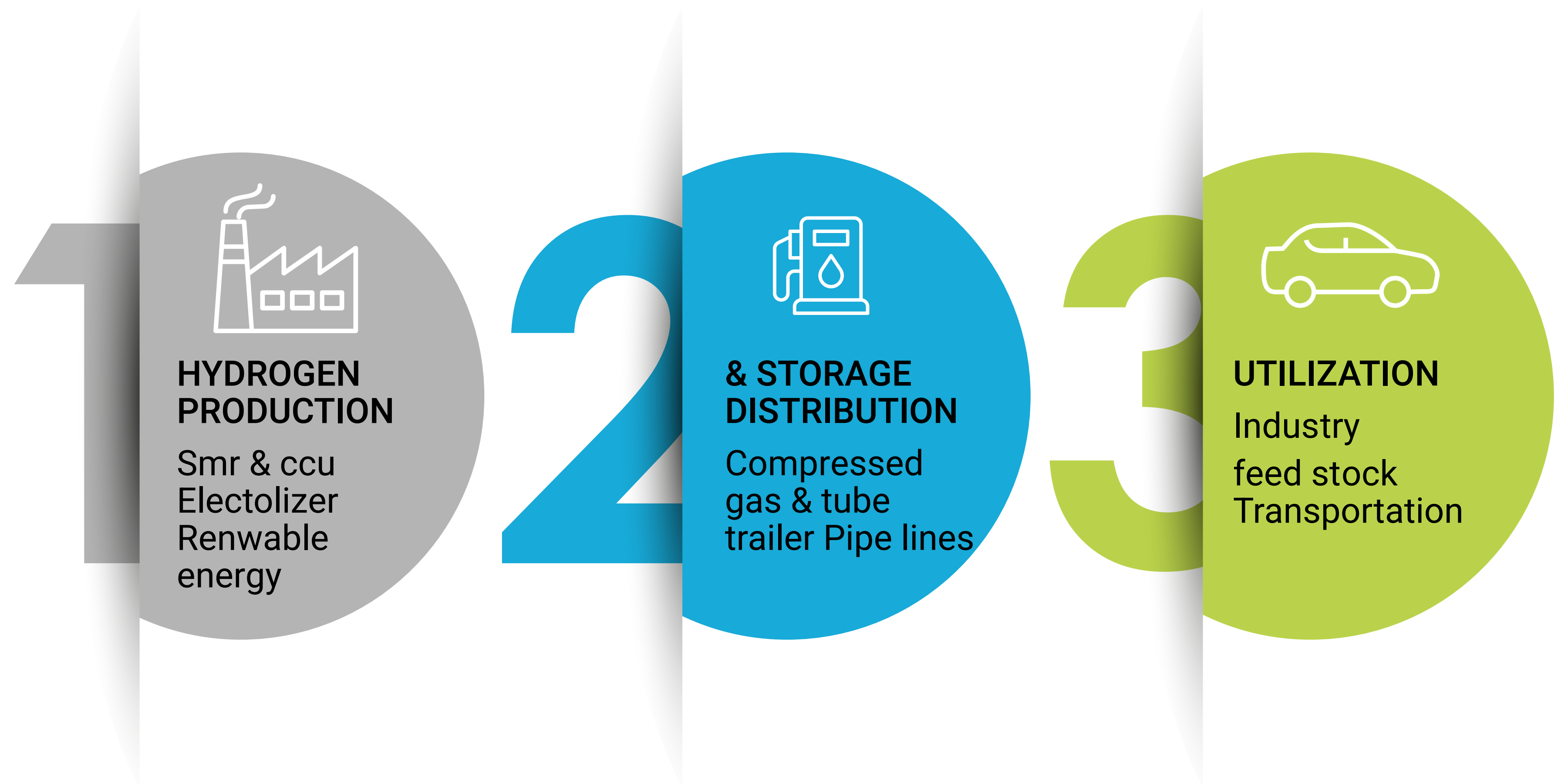
The laboratory deals with the production and accumulation of clean energy, streamlining energy, the optimization of production processes, and the development of more environmentally friendly products.

The laboratory is expected to already add 4-6 startups to its ranks in the next two years.





# Hydrogen Value Chain



# Growing the hydrogen market

## Transportation sector:

Private cars  
Trucks  
Ships  
Airplanes  
Train

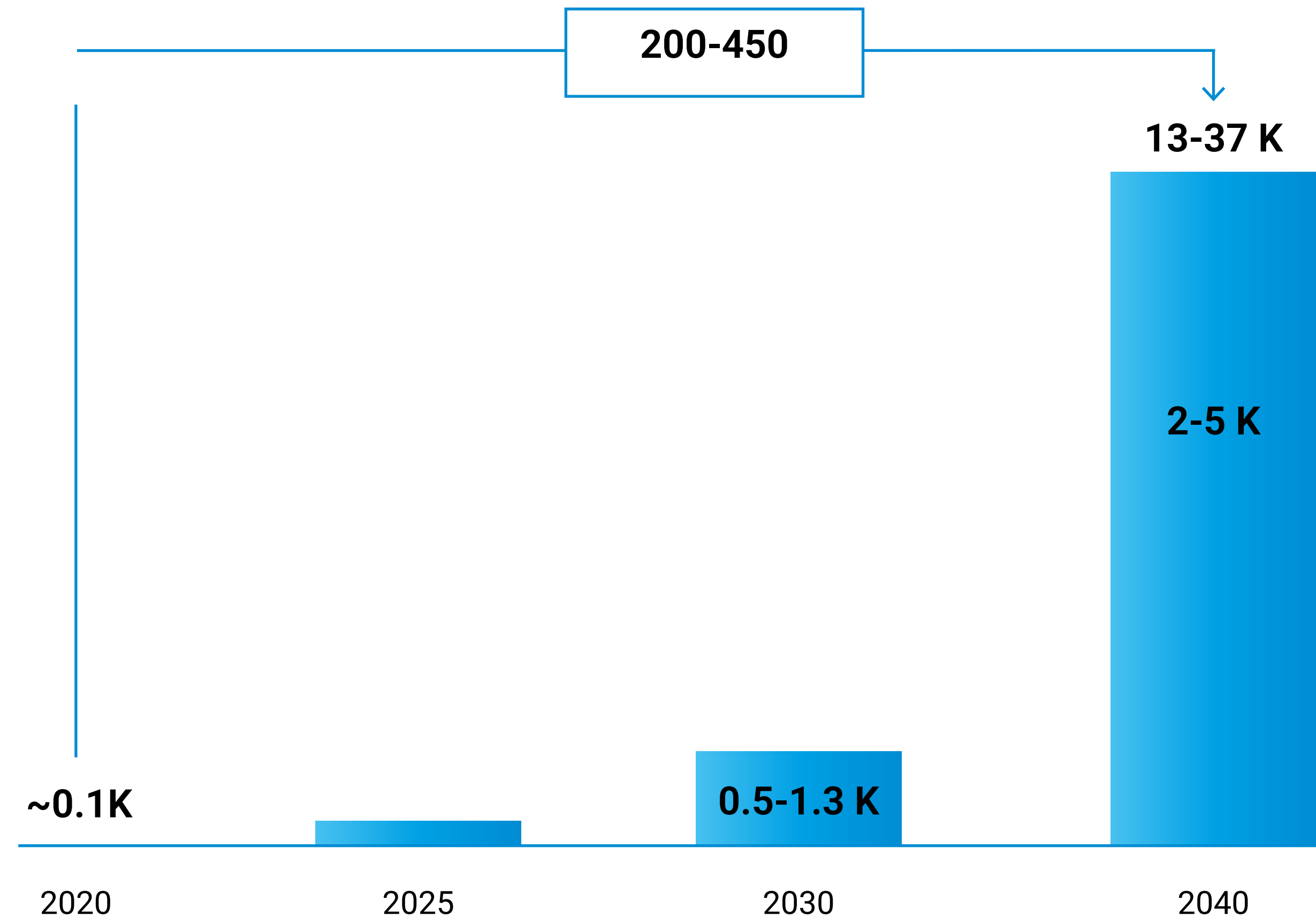
## Industry sector:

Generators  
Electricity generation  
Forklifts



**The hydrogen market is expected to grow significantly**

## Forecast for the development of the hydrogen market in Israeli transportation, (2020-2040, tons)



### Hydrogen market characteristics

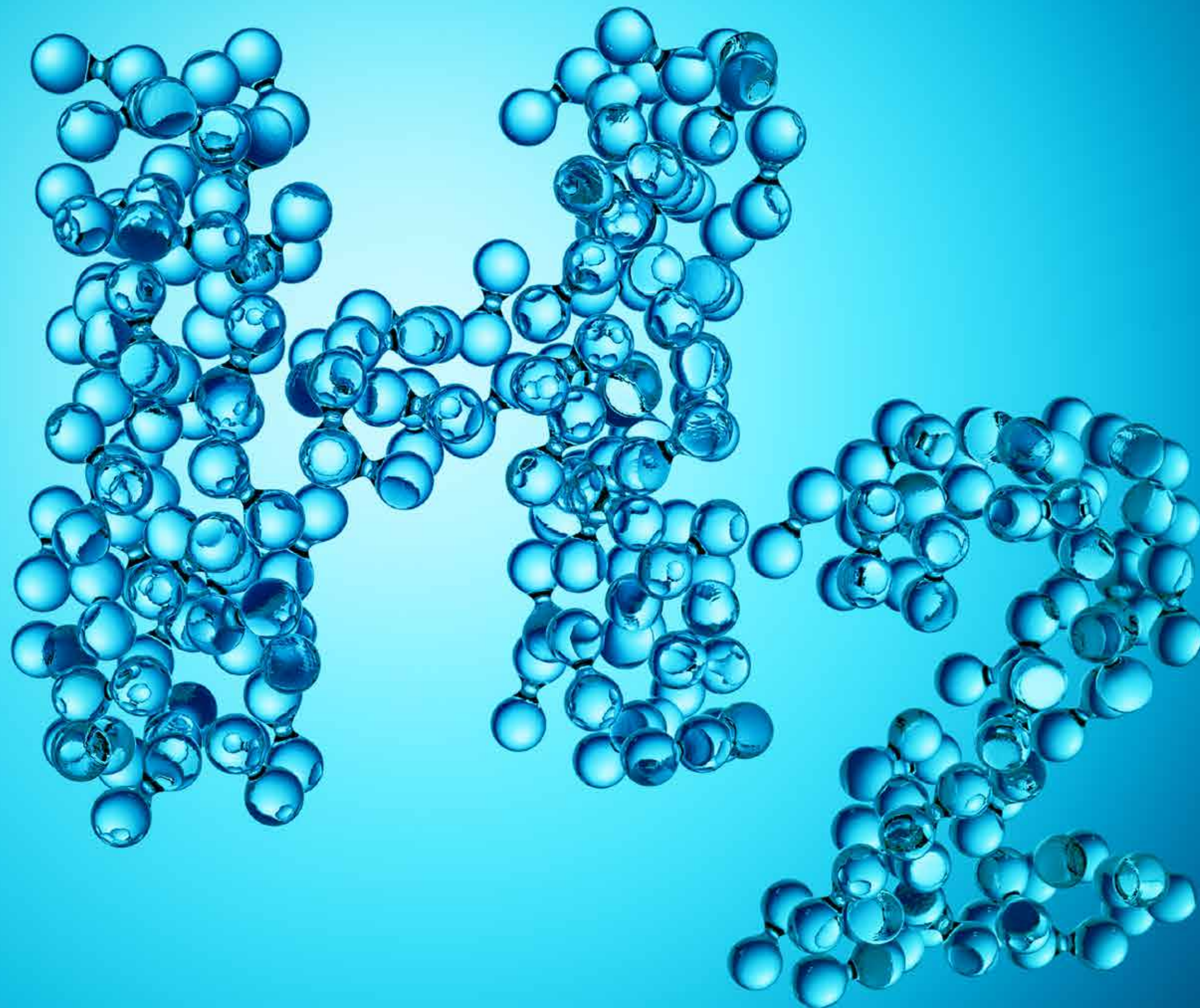
- The hydrogen market in transportation in Israel is expected to grow significantly - 200-450 times by 2040
- The absolute majority of hydrogen produced today (in Israel and worldwide) is used for industry

**Huge investments are being made around the world in the development of hydrogen technologies**



# Hydrogen

is making  
the impossible  
**possible!**



קבוצת בזן  
בתי זקוק לופט בע"מ