STOR·H
DIGITAL ENERGY


BECOME THE NEXT

GLOBAL ENERGY STANDARD

**FOR ZERO-CARBON MOBILITY**

Powered by
STOR·H
DIGITAL ENERGY

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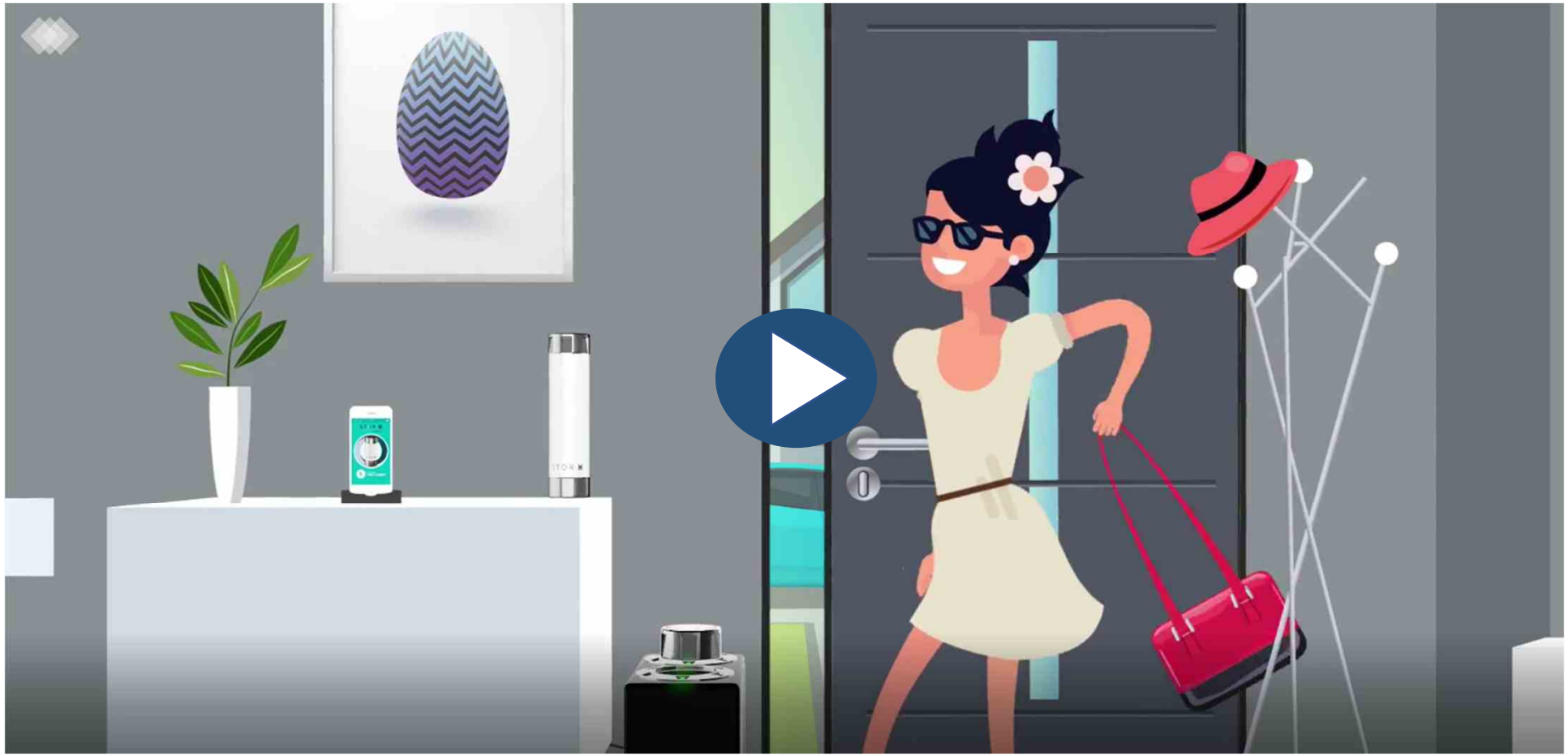
# A hands-on approach to enable a new way of consuming and using zero-emission energy on a global scale



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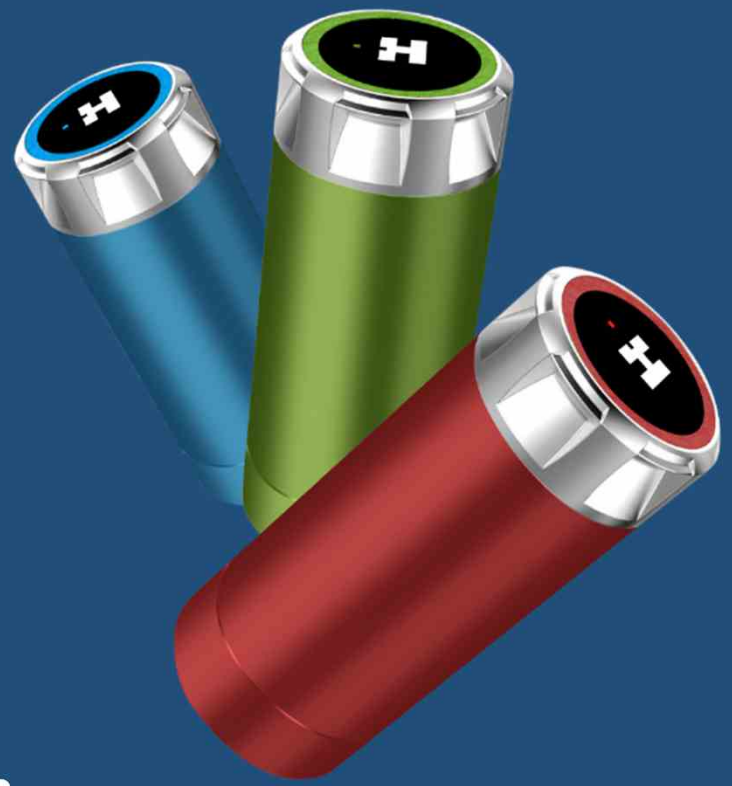

# STOR-H in 4 key points

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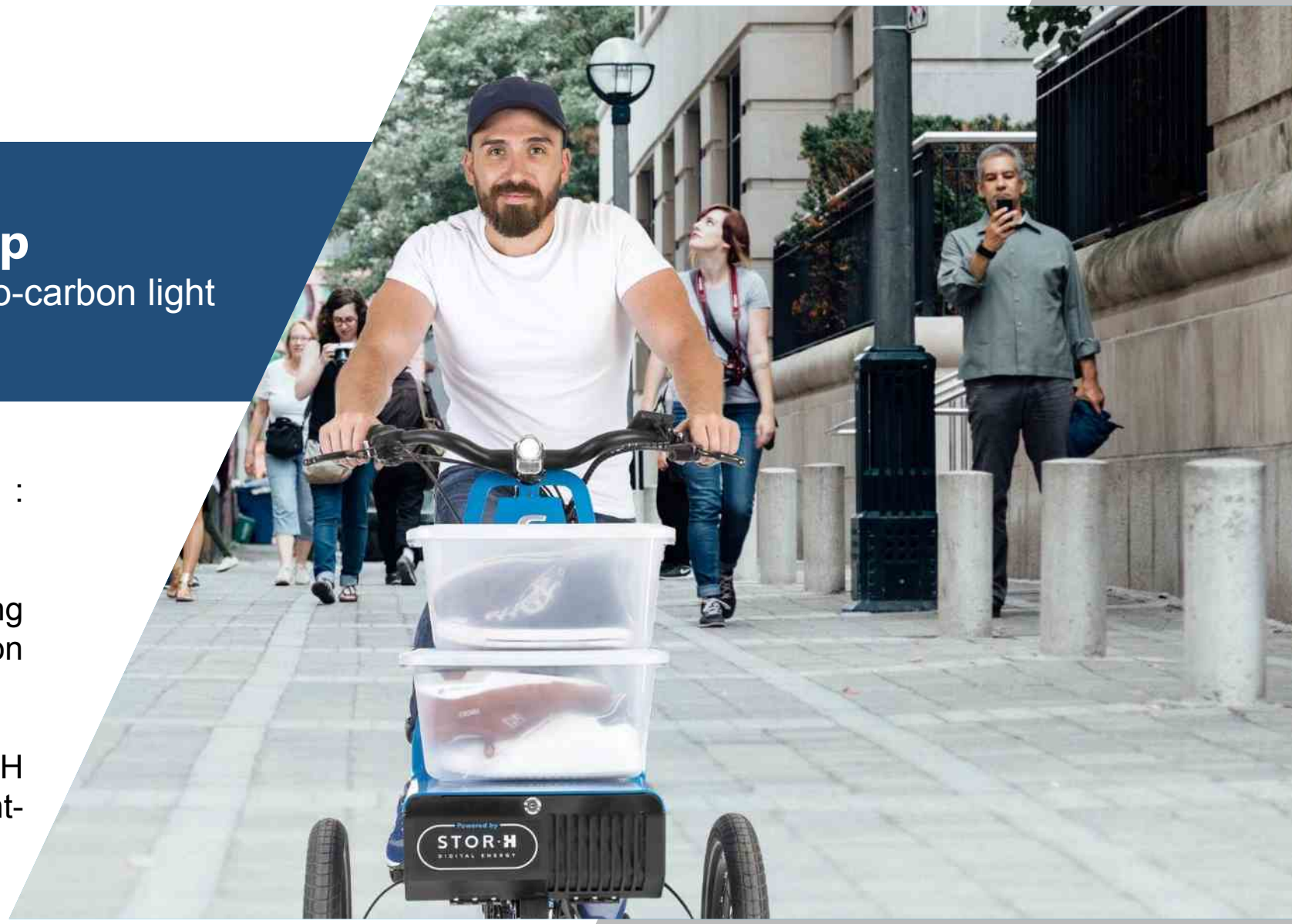
# 1 An innovative startup

## Bringing hydrogen to the zero-carbon light mobility market

STOR-H solves a world-wide challenge : zero-carbon cities.

It offers a turnkey solution to a growing market : a sustainable and zero-carbon mobility.

Through this disruptive solution, STOR-H enables the usage of hydrogen for light-weight mobility applications.



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# 2 An easy-to-implement STOR-H powertrain to create a « Powered by STOR-H » catalog

STOR-H is designed as an energy standard to allow OEMs to easily convert existing 2, 3 & 4 wheel electric vehicle platforms to hydrogen.

Produced as hydrogen cartridges, this energy standard removes the main barriers for implementation similar to those that battery technologies are facing, as they lack a common standard.







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3

# Hydrogen cartridges

to succesfully launch a seamless and plug & drive zero-carbon mobility

Meeting the end-consumer's needs, STOR-H has developed a very low-pressure hydrogen technology for storage in plug & drive cartridges.

With this technology, the end-user has no need to refill his tank nor to worry about security or range.

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# 4 A central position

driving the emergence of a new ecosystem within the hydrogen industry

STOR-H is the focal point of a whole ecosystem of partners ranging from hydrogen production, cartridge manufacturing and distribution, to the manufacture of “Powered by STOR-H" vehicles.

This hydrogen ecosystem, which is being deployed, will be structured around the energy standard provided by STOR-H.




02

# Roadmap

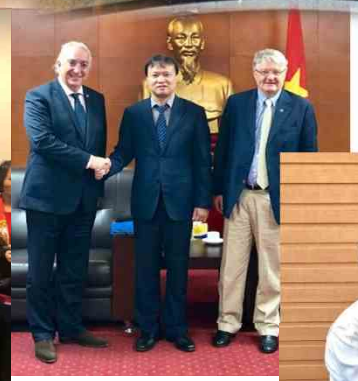
we are positioning our business for growth as of 2020

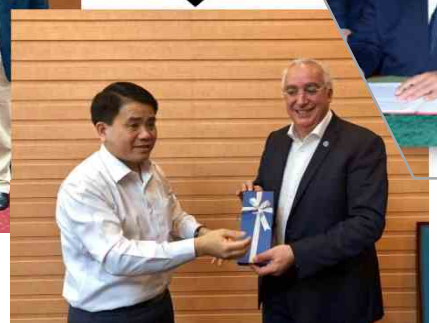
# International strategic agreements already signed at the highest levels

2017

2018







# STOR-H global reach in 2025

## Selection criteria for internationalization

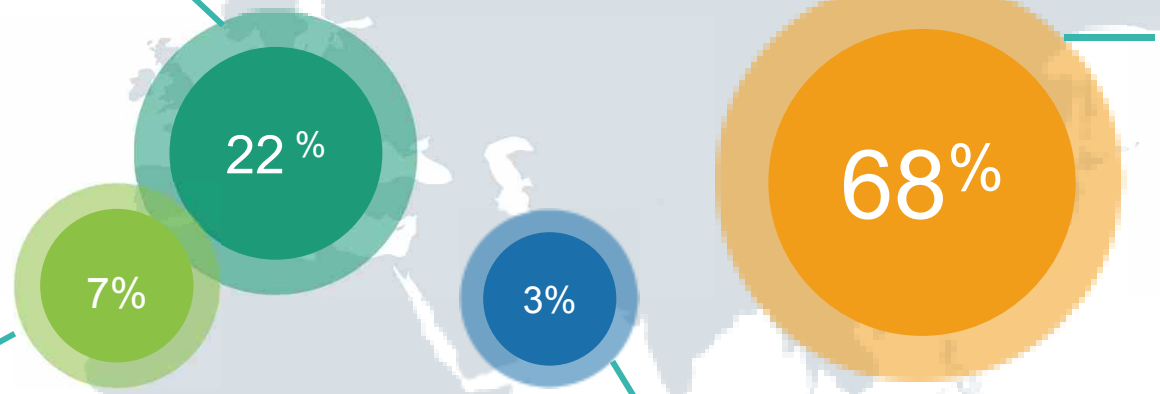
- Easy market access in home countries : Europe
- Countries with strong green energy production plans : Morocco – Dubai – China
- Mass markets – Speed-to-market : China - Vietnam

## EUROPE
## > 2025

**150 000 vehicles**

Deployment area examples :
- Région Auvergne-Rhône-Alpes
- Lake Geneva border region
- Hydrogen strategic territories

INTERREG EU Financing




## MOROCCO
## > 2025

**40 000 vehicles**

Deployment area examples :
Marrakesh, Tangier, South Morocco

- Important light mobility market : Vietnam
- Countries with incentives to buy electric vehicles : Morocco – Dubai – China
- Countries with hydrogen national plans : France - China

## MIDDLE EAST
## > 2025

**15 000 vehicles**

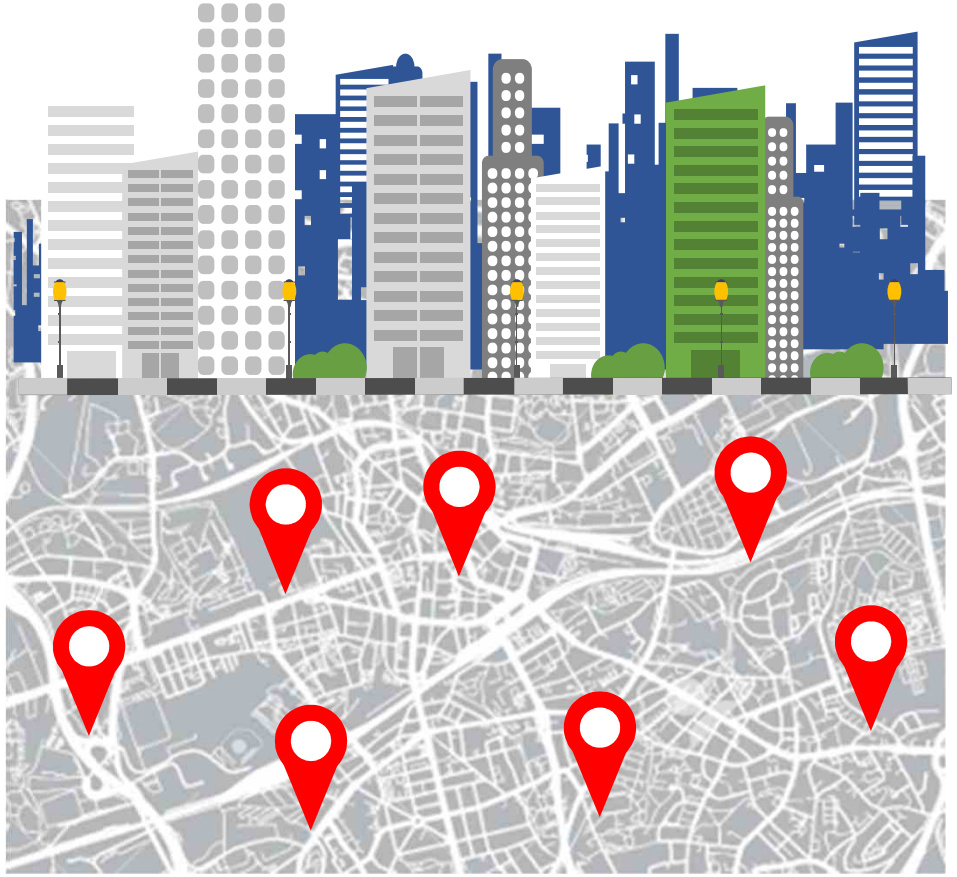
Deployment area examples :
Dubai South Airport, UAE

## ASIA
## > 2025

**400 000 vehicles**

Deployment area examples :
- 20 Hydrogen cities China
- Vietnam

# STOR-H implementation strategy



## Main criteria for city selection to implement STOR-H

- Population density > 4.500/km²
- Population size > 200.000 inhabitants
- National GDP/inhabitant > 10.000 USD
- Average minimal temperature > 1°C
- Green hydrogen production done locally
- Public transport affordability
- Air quality issues
- Smartphone and credit card equipment ratio
- Environmental sustainability initiatives
- Traffic congestion
- Integrated and sharing mobility
- Regulation context

03

# Conclusion

Becoming the next zero-carbon energy standard

# STOR-H branding & communication


Advert campaign soon to be published in print media and social networks


Agir pour la planète c'est une vraie nécessité mais cela doit être aussi une vraie partie de plaisir.


Pour construire un monde plus durable : amusez vous !

# STOR-H communication draws on major players' brand awareness, for example Cycleurope

September, 2019

## CYCLEUROPE and STOR-H introduce "Sneaker" : the first hydrogen powered cargo bike

**CYCLEUROPE Industries, a French manufacturer of electric bicycles (known for the Gitane and Bianchi brands) and STOR-H Technologies SA, experts in low carbon solutions and inventors of the STOR-H hydrogen storage cartridges, have combined their expertise to create a brand new concept of hydrogen-powered cargo bikes : the Sneaker. This multi-purpose cargo bike, designed for both professionals and private individuals, provides a unique solution for zero-carbon urban mobility.**

Sharing a common commitment to finding innovative solutions for mobility, CYCLEUROPE Industries and STOR H Technologies SA jointly developed the first hydrogen assisted Sneaker «Gitane powered by STOR-H.

For the first time, the Sneaker has been equipped with the STOR-H technology. This exclusive technology is the result of 4 years of intensive R&D, covered by 155 patents and enables the storage of solid green hydrogen in cartridges at very low pressures. The cartridges are designed for plug & drive, and are used to drive different types of vehicles, 2, 3 and 4 wheels, "powered by STOR-H". Replaced in seconds, each cartridge provides a range of about 50 km. Moreover, the cartridges are reusable and recyclable with lifetimes of more than 15 years.

This innovative technology is currently considered to be the most promising solution for sustainable mobility, urban transport and zero carbon cities. Without greenhouse gas emissions, practical for the user and not requiring a complex infrastructure, this technology allows us to embrace a clean and easy-to-implement energy system.

With its compact steering system developed by CYCLEUROPE Industries, the Sneaker can sneak through the streets for more convenient, faster, safer and more environmentally-friendly routes. Equipped with Schwalbe balloon tires for greater comfort, front/rear hydraulic disc brakes and a front parking brake for added safety, it also offers outstanding road handling and stability.

Designed to respond to the needs of the user in terms of sustainable mobility, it allows multiple uses for both professionals and the general public: transporting materials, delivering parcels, shopping, going to work, etc ...

With its platform able to support up to 25 kg of goods or materials, the Sneaker, customizable according to its use, will appeal to all those who need to move quickly, without effort, while carrying equipment.

Through this collaborative project, the joint goal of CYCLEUROPE Industries and STOR H Technologies SA is to innovate for the planet while providing a practical, versatile and modern user experience.

**Sneaker's main features :**

- e-Going Motorization: a technology developed by CYCLEUROPE Industries
- Central engine power: 250W
- Pendulum steering system
- Range according to H2 capacity
- E Going console, LCD display with USB port
- Hydraulic disc brakes front/rear and parking brake front
- Hub with internal speeds

**About CYCLEUROPE**

The CYCLEUROPE Group is the creator, manufacturer and distributor of bicycles and electric bicycles for all uses. The Group, an exclusive worldwide licensee for the Peugeot brand, owns the following brands : Bianchi, Gitane, DBS, Monark, Crescent, Kildemoes, Fwinton.

The Group has three production units in Europe, Sweden and Italy, including one in France, CYCLEUROPE Industries, in Romilly-sur-Seine (10). This site is recognized as an excellence center. Leader in his market, CYCLEUROPE Industries is constantly innovating.

www.cycleurope.fr
cycleurope@cycleurope.fr

**About STOR-H Technologies SA**

STOR H Technologie SA is part of the company AAQIUS, which is an innovative company specialized in the development of low-carbon, disruptive technology standards for transport and energy. AAQIUS relies on significant intellectual property (155 patents) and extensive know-how in solid hydrogen storage. In particular, AAQIUS has successfully created "low CO2 emission" technology solutions in the field of engine emission control, which have now become world standards in the automotive industry with more than 10 million vehicles in circulation. A pioneer in the field of hydrogen, AAQIUS has created a specialized entity called STOR-H Technologies SA bringing together all its assets and expertise related to hydrogen. STOR-H Technologies SA has developed a new energy standard based on a very innovative use of green hydrogen stored at very low pressures in plug & play cartridges to facilitate and accelerate the transition to low-carbon urban mobility. Reusable and recyclable, these hydrogen cartridges are used to drive different types of vehicles, 2, 3 and 4 wheels, for an urban mobility without any pollution.

www.aaqius.com
contact@aaqius.com

14 | Economie

## Le triporteur à hydrogène arrive

## Georges Kern: «Mon rêve serait maintenant de réaliser un film»

# STOR-H is part of key “hubs-of-excellence”

International exhibition of inventions

**04/2019 - Geneva**


ISEFI

**07/2019 – Paris**

Hub of excellence BPI France

Journées hydrogène dans les territoires

**07/2019 – Marseille**

Hub of excellence Afhypac

# STOR-H 2019 awards

Obtains the official support of the National industrial council led by Isabelle Kocher (CEO Engie) which awards only 2 projects/years
09/2019

Obtains the Solar Impulse Label for efficient green & profitable solutions
09/2019

Obtains Interreg V European funding
07/2019

Finalist in the Engie Morocco call for projects
06/2019

Finalist in the World Impact Forum contest
05/2019

Gold Medal at 47th International Exhibition of Inventions Geneva
04/2019

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## Social

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