

# Green Hydrogen Production



# ZIRFON: Agfa-VITO Innovation

## Enabling Large-Scale Green Hydrogen Production



**A breakthrough technology for green hydrogen production:** ZIRFON membranes, developed by Agfa and VITO, enhance the efficiency of **alkaline water electrolysis**, a key process in **green hydrogen production**. This innovation enables large-scale hydrogen generation while significantly reducing CO<sub>2</sub> emissions.



**RTO knowledge transfer into the market:** Agfa and VITO have strategically collaborated to scale up ZIRFON membrane production. With support from the **EU Innovation Fund**, Agfa is establishing an **industrial-scale facility** to meet the growing demand for hydrogen electrolysis membranes.



**An advanced manufacturing technology:** This new facility will produce membranes for up to **20 GW of water electrolysis annually**, contributing to a projected reduction of **15 million tonnes of CO<sub>2</sub> emissions**. This advancement strengthens European competitiveness, accelerates the green hydrogen economy, and supports the EU's carbon-neutral mission.



Lowest energy consumption,  
highest yield



Ideal for coupling with  
renewable energy



Guaranteed safe  
operations



Proven technology, available  
at scale

**While a membrane is just a small component of an alkaline electrolyser, ZIRFON has a transformative impact on the overall system performance. Through its engineered characteristics, ZIRFON guarantees peak performance at the lowest hydrogen production cost.**

**AGFA** 

 **vito**

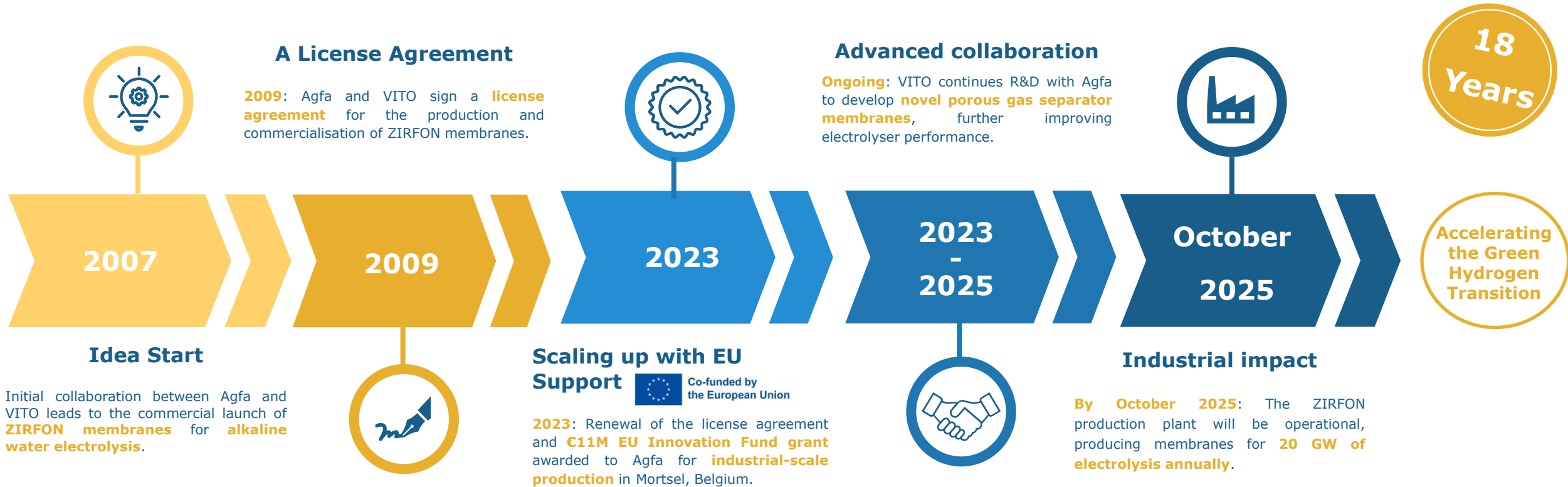
**A VITO Technology  
Advanced through  
Strategic Collaboration**

**Scaling Up with Support  
from the EU Innovation  
Fund**

**Driving the Green  
Hydrogen Economy  
with Industrial Impact**

 **ZIRFON**

# ZIRFON: Agfa-VITO Innovation



"Hydrogen plays an important role in the transition towards cleaner and more sustainable energy sources. We are developing materials that enable safe and cost-effective production of hydrogen. Agfa is a partner with a proven track record to bring these new materials successfully to the market. We are looking forward to the continued collaboration."

**Inge Neven, CEO at VITO**

