

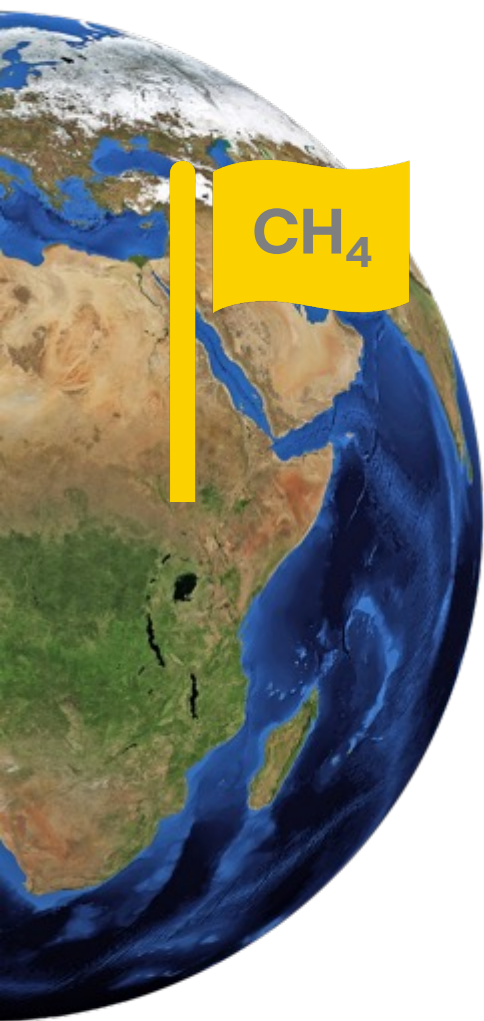
The background image shows a hydrogen production facility. In the foreground, there is a large, white, cylindrical hydrogen storage tank with a large circular hatch on the right side. The tank is labeled "Hydrogen H<sub>2</sub>". To the left of the tank, there is a smaller, white, cylindrical storage tank also labeled "H<sub>2</sub>". In the background, there are several wind turbines. The entire image has a blue tint and a subtle grid pattern.

***BTC***

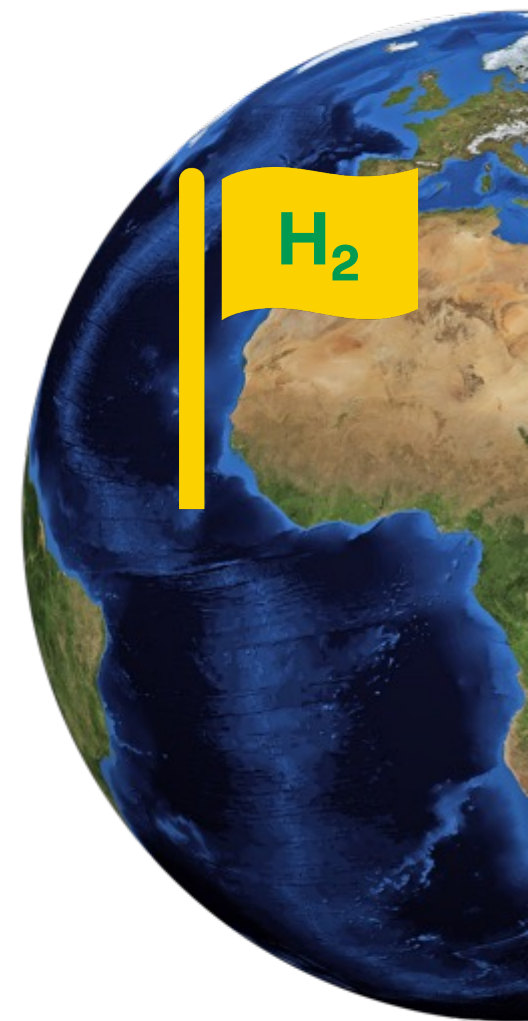
# Digitalization as Enabler for Operating Hydrogen

Hydrogen Cross-Border Conference 2024

## Natural gases and hydrogen: Different worlds?



*Transmission and storage of molecules (natural gases) are well-known for operators.*



# Empowering & Amending our „natural gas solutions“

## Communication Infrastructure

Network  
Point &  
Storages

Capacity  
Management

Customer  
Management

Contracting

Nominations

...

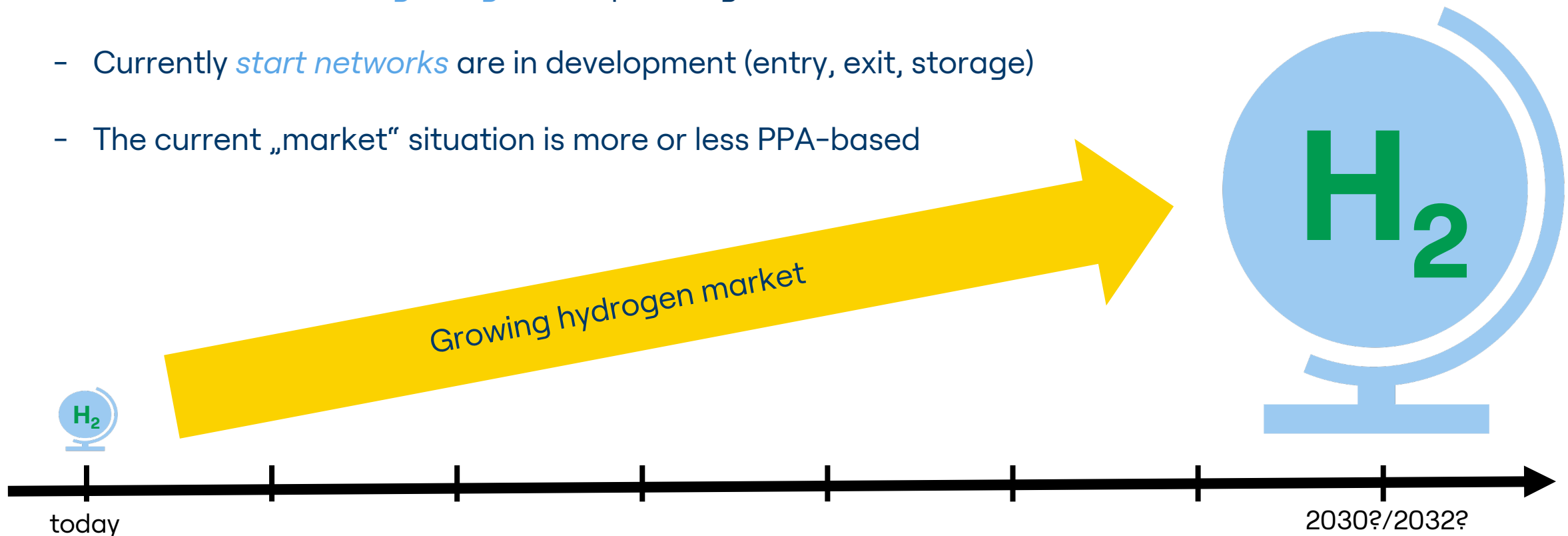
## Identity Management & Supportive solutions

Natural gas & hydrogen?

# A growing market

Is there a need for *big solutions* at the moment?

- We are still *at the beginning* of an upcoming market
- Currently *start networks* are in development (entry, exit, storage)
- The current „market“ situation is more or less PPA-based



# Think big – start small

## Amending existing (natural gas) solutions

- + Stable and reliable solutions
- + Holistic landscape for gases
- + Reuse existing processes and system interfaces
- + No further or reduced operational costs
- Dependencies between natural gas & hydrogen
- Many unnecessary amendments at the beginning



- + Lightweight and extensible solutions for an upcoming market
- + Suitable for small starting networks (e.g. IPCEI)
- + Easy to *extend and scalable by design* (applications as well as infrastructure)
- + Implementing appropriate (non-regulatory?) processes

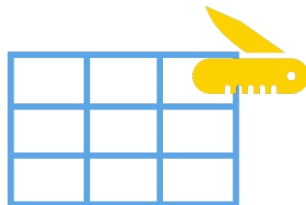


# Start small ... *but not too small*

and there is ... Excel

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- ⊕ Easy to use
- ⊕ The tool for “almost everything”
- ⊕ Low (IT) invest
- ⊖ Some processes are hard to handle
- ⊖ Manual activities
- ⊖ Approach does not scale appropriately



*Digitalization is about preventing (error-prone) manual activities and making processes suitable for masses.*

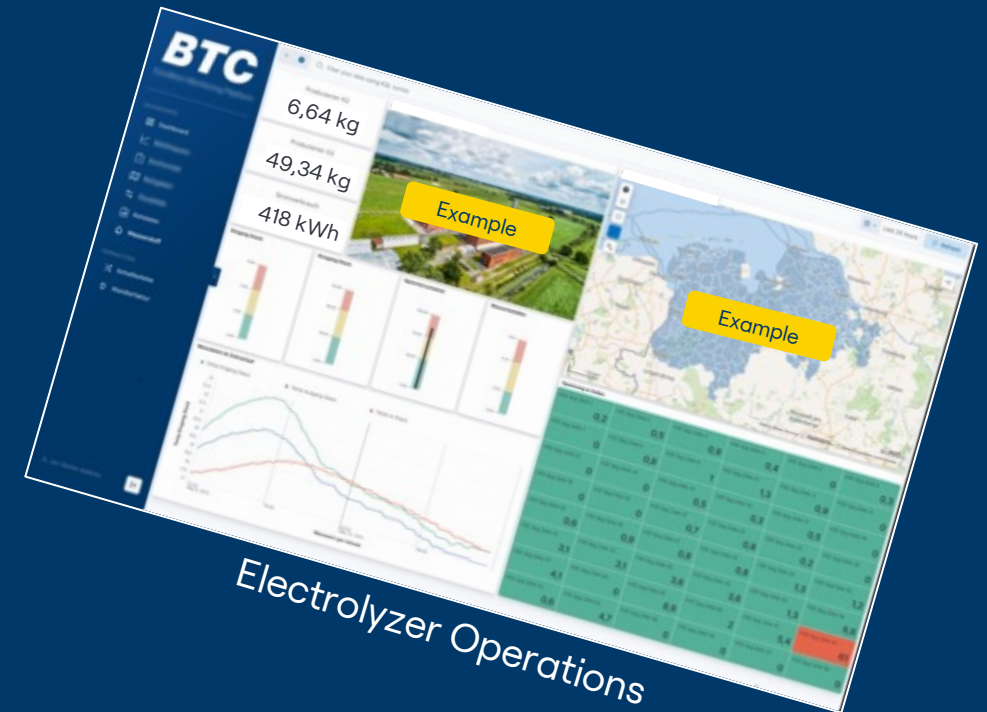
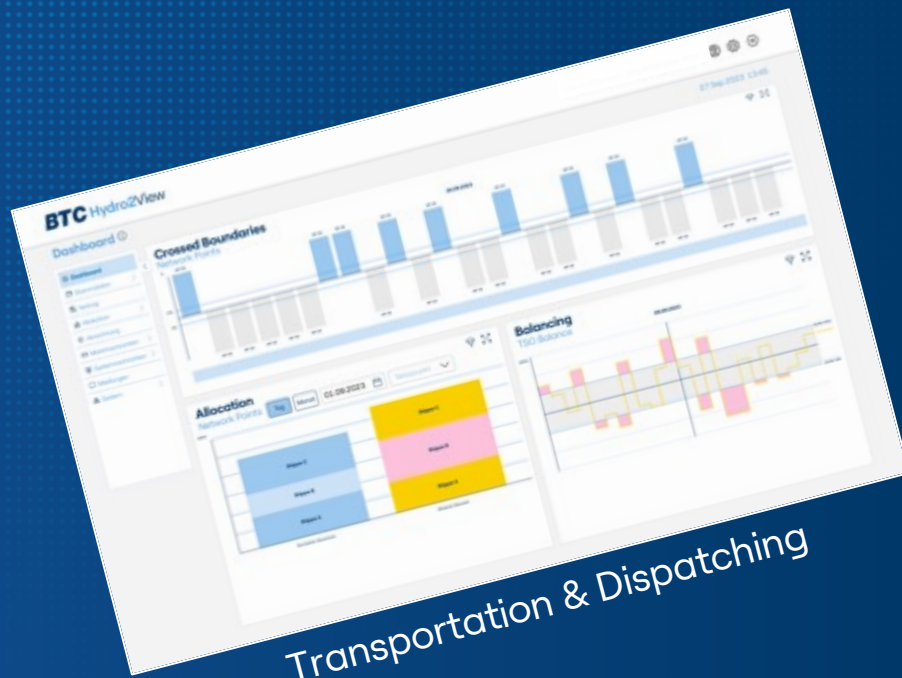




Think big !  
Start small !  
Not *too* small !

Business Technology Consulting

# We develop the digital structures for your success.





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