

# KEYOU goes Heavy Duty

The new KEYOU semi-trailer tractor based on Actros with hydrogen engine. Reliable, cost-efficient – zero emission.



Co-funded by the Horizon 2020 program  
of the European Union

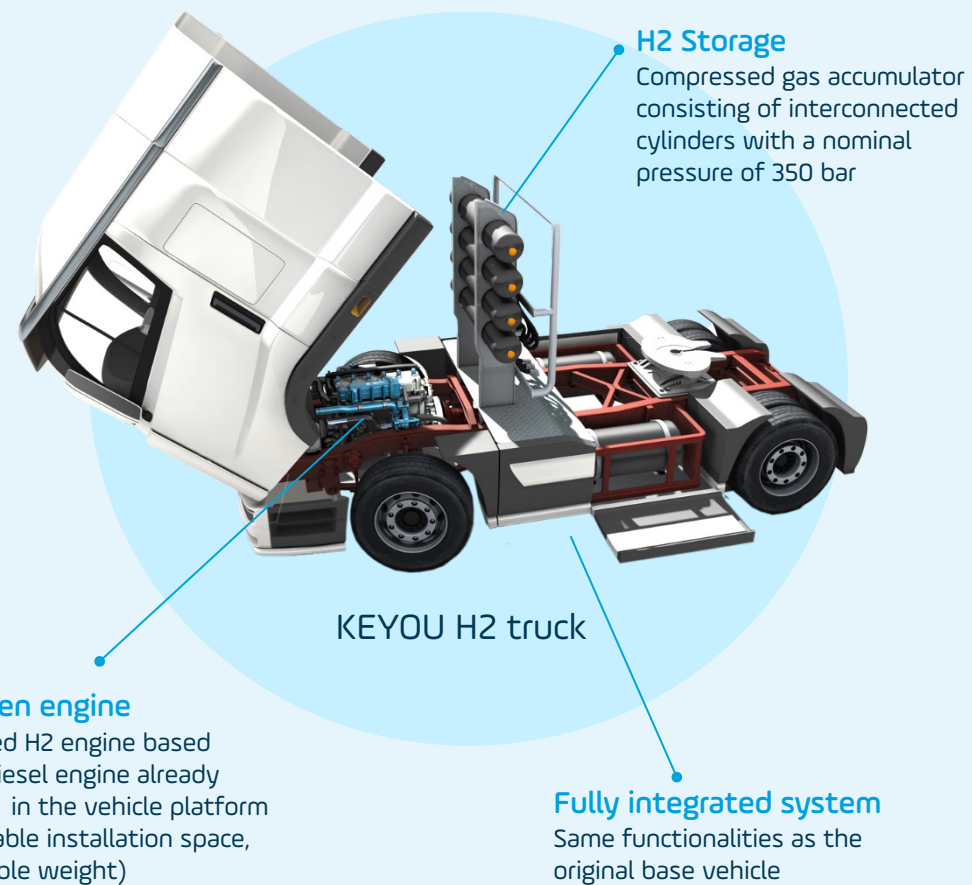
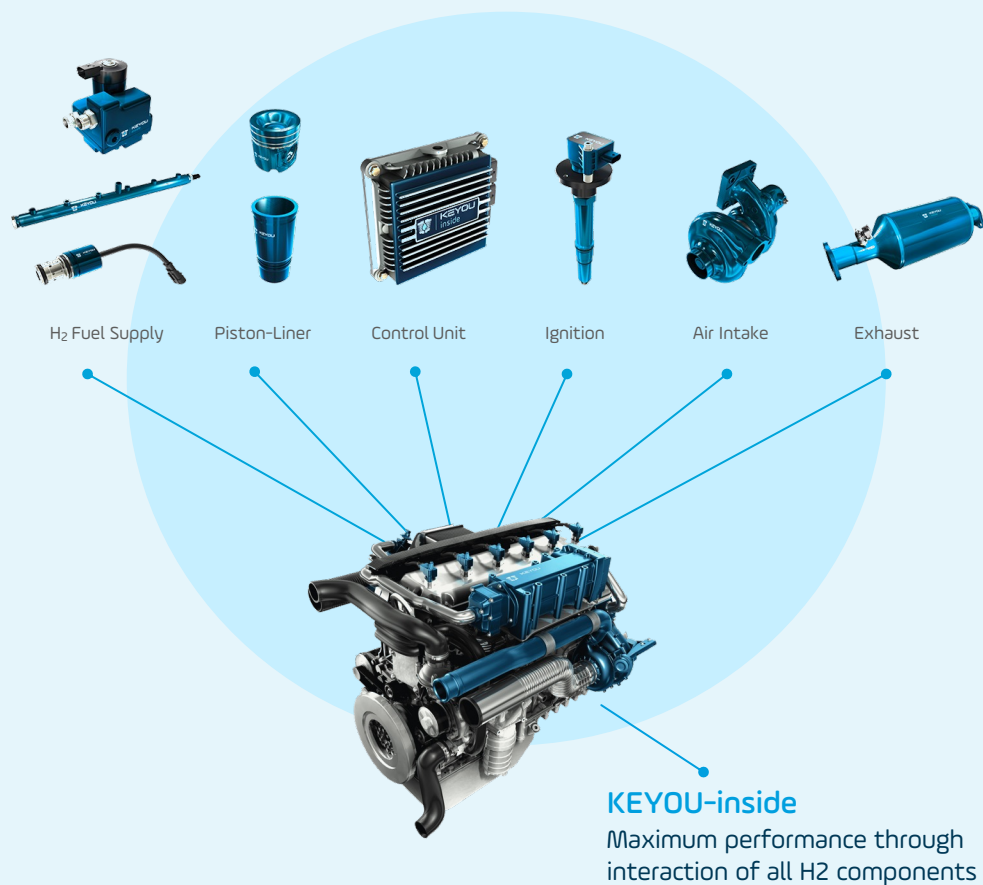


Sponsored by  
Bavarian Ministry of Economic Affairs,  
Regional Development and Energy

# KEYOU – with the right product at the right time



We have developed a modular H2 engine conversion system based on our know-how on H2 combustion, adapting the setup for each specific engine, with the lowest effort and without compromising performance and efficiency. The result is a clean, powerful and cost-efficient H2 combustion engine. According to EU standards, commercial vehicles with such an engine are classified as zero-emission and are therefore exempt from tolls.



# Our attractive offer: H2 Mobility as a Service from a single source



## H2 Mobility as a Service

KEYOU rents out CO2-neutral H2 vehicles in a pay-per-use model – and thus a complete solution without risk

### H2-VEHICLE

We convert engine and vehicle to operate on hydrogen.

**Lowest possible investment** for customers who want to use zero emission hydrogen trucks and maintain their current business model.

### Service & Maintenance

**Don't worry!**  
We will take care of the service for your H2 vehicle!

Together with our partner network, we offer professional H2 **service, repair and maintenance.**

### Insurance

With us, **you get everything from a single source**, including the best liability and comprehensive insurance.

We work with reputable insurance companies that provide **customized terms and conditions** for our products.

### Hydrogen (optional)

**Vehicle and fuel** go together.

That's why you can also get your hydrogen from our local partners. This allows you to benefit from **attractive hydrogen prices.**

# Clear competitive advantages for vehicles with KEYOU-inside



## Clear advantages for your KEYOU 40t truck:

- + **Zero emission** according to EU standard
- + Range of up to **650 km**
- + Refilling within **20 min**
- + No loss of payload
- + Powerful and reliable
- + Proven suitability for everyday operation
- + Impressive **cost efficiency**
- + Usual service intervals, high availability
- + Approved for **ADR transports** type FL (AT)





# Ideally suited for daily operation: the KEYOU semi-trailer tractor



On long-distance routes, every kilo of hydrogen counts: The **Actros L with ProCabin** impresses with its aerodynamic cab design and saves on consumption — but not on safety and comfort. Modern assistance systems provide a sense of security, and the comfortable interior ensures relaxing breaks and rest.

BASE VEHICLE	Chassis	ACTROS 1848 LS 4x2 semi-trailer tractor
	Engine	KEYOU-inside H2-engine, M471, 12,8l, 6-cylinder
	Max. Power	346 kW @ 1.600 rpm
DRIVETRAIN	Max. Torque	2.100 Nm @ 1.000 - 1.400 rpm
H2 STORAGE	Pressure level	350 bar
	Driving range	Up to 650 km
	Filling time	< 20 min
	Position hydrogen storage	Behind the driver's cab and on the left and right side of the frame
VEHICLE	Cabin	L-cab ProCabin-Big, 2.5 m, level floor
	Gross weight of the vehicle / gross weight of the combination	20 to / 44 to
	Wheelbase	4.200 mm
	Refrigerated trailer operation	yes

# Our claim: Maximum availability & no downtime



## KEYOU Service Partner Network




- First expansion stage: approx. **70+ workshops**
- Contracts with various companies & chain stores
- Professional, established service partners

## Our service offer:

- + Customer support, repair and maintenance
- + Hotline 24/7
- + Towing service & tire service
- + Spare parts & fast spare parts delivery
- + Driver training

## Our service intervals:

Service-Level		Maintenance	Interval
Service L1	ca. 8 h	Vehicle maintenance @ workshop e.g., change of engine/transmission oil and filters, cylinder maintenance, brake test, calibration of H2 sensors, TÜV safety test	½ yearly, or every 60,000 km

# Secure protection: fully comprehensive insurance for your vehicle



## Carefree on the road with the fully comprehensive package

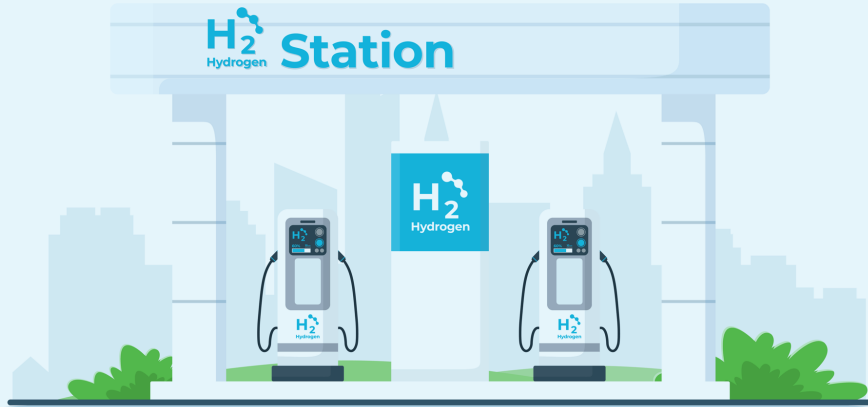
- ✓ Liability and fully comprehensive insurance **included** in the rental price
- ✓ Claims settlement
- ✓ **Personal** contact person
- ✓ Liability cover **100 million EUR lump sum**
- ✓ Deductible for comprehensive cover € 2,500, deductible for third-party liability € 2,500



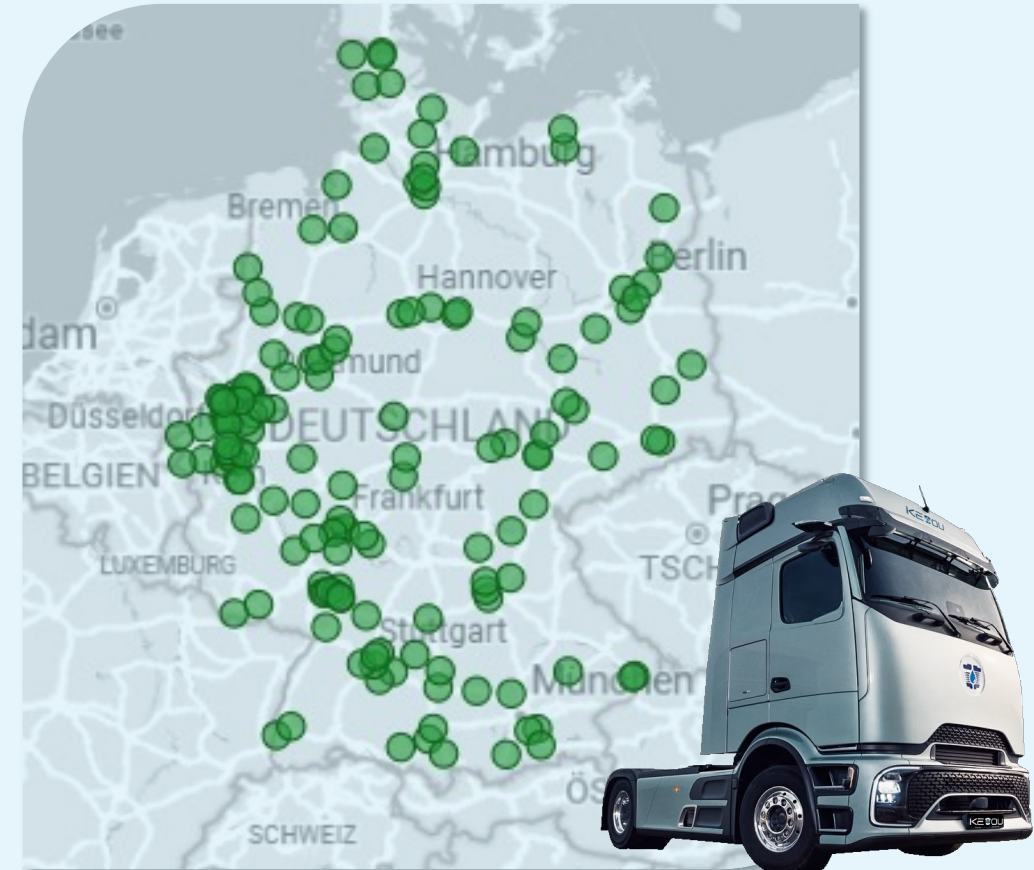
# Safe and reliable refueling with the KEYOU fuel card



- ✓ H2 partners (producers, filling station operators) ensure a **reliable fuel supply 24/7** (350 bar)
- ✓ **KEYOU fuel card** for cashless refueling
- ✓ **Monthly** & consumption-based simple billing
- ✓ In future, a **H2 filling station every 200 km on highways across Europe**



## H2 filling station network in Germany (current & planned)



Source: ©2025 KEYOU's database with PowerBI Map ©TomTom, © Microsoft Cooperation



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