# HYDAC eKit48 – the fast lane to zero emission


**Get in touch with us!**

**Your HYDAC representative:**
**Semjon Gerasymenko**
Product manager eKit48
HYDAC New Technologies GmbH

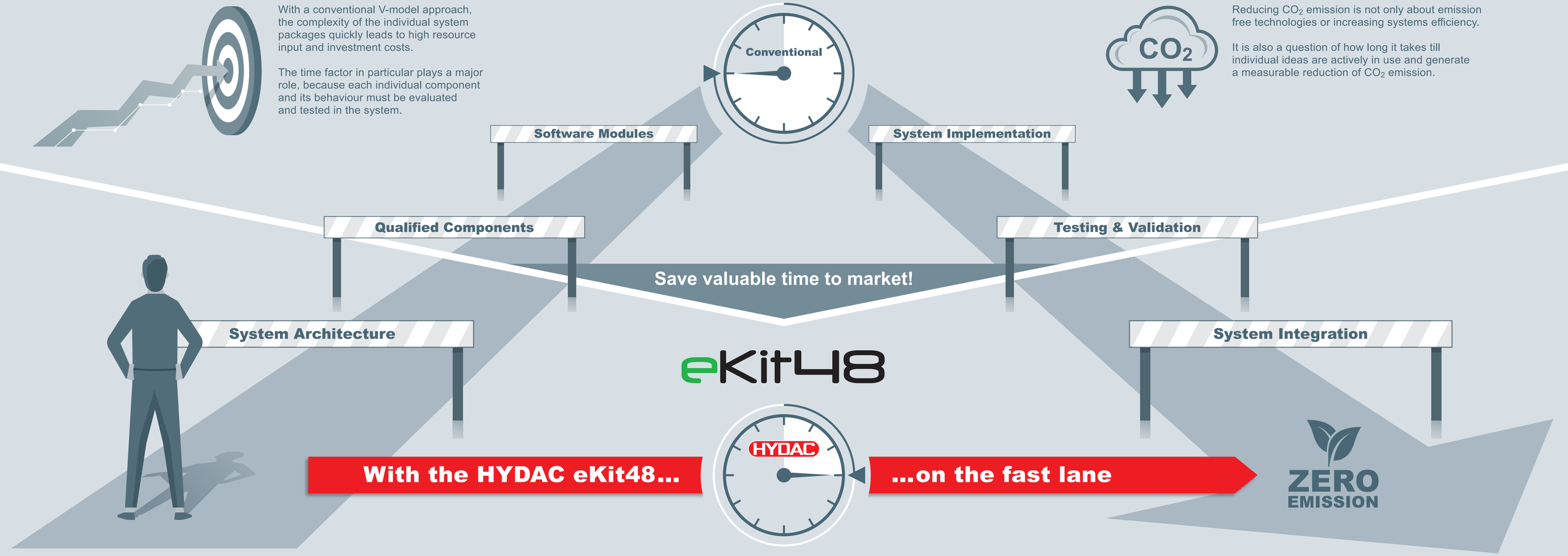

## Taking the conventional R&D approach



With a conventional V-model approach, the complexity of the individual system packages quickly leads to high resource input and investment costs.

The time factor in particular plays a major role, because each individual component and its behaviour must be evaluated and tested in the system.

## The V-model




## High effort till valuable results




Reducing $CO_2$ emission is not only about emission free technologies or increasing systems efficiency.

It is also a question of how long it takes till individual ideas are actively in use and generate a measurable reduction of $CO_2$ emission.

## HYDAC has found a solution that covers the entire V-model

**Be faster on the market compared to the conventional R&D approach:**

**Up to 53 %* less emission**

**Up to 7.5 * tons less $CO_2$/machine**

**Up to 561.8 * tons less $CO_2$/fleet**

* depending on application and usecase / fleet of 75 compact machines

## Get to know the eKit48

**Safe in handling,** due to extra low safety voltage technology (SELV)

**Flexible,** with up to four battery systems with integrated BMS (Invenox LIOS 48V), one or two electric drives and with up to two AC on board chargers and DC fast charging interface

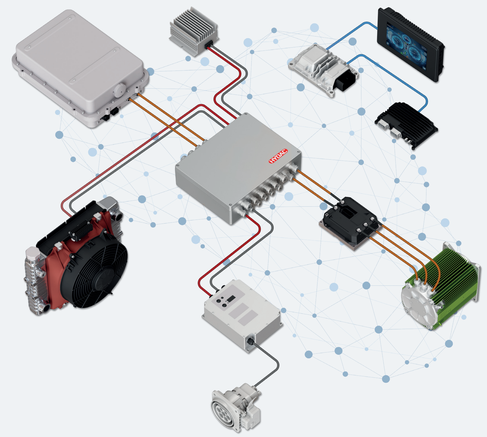
**Modular function package** for easy parametrisation vs. programming

**One stop shop package,** including Software with standardised customer interface, configurable Power Distribution Unit and integrated thermal management

**Validated cable harness** with two canbus channels

**Ready for prototypes,** with preevaluated modules and standardised pre-configured systems for individual setups

**Plug and work system,** scalable for various applications



## Main technical characteristics

- Up to 15 kW cont. power up to 35 kW peak power
- Up to 7,500 rpm, up to 65 Nm
- Li-Ion battery modules, up to 6.1 kWh each, 24.4 kWh total
- On board charger with up to 6.6 kW charging power and EVSE interface
- Up to three connections for electrical auxiliary equipment
- DC/DC converter from 48 V to 12 V or 24 V with 500 W, 250 W or 850 W
- Water-cooled system possible