



APPLICATION SHORT

Integrated Simulation Environment

Power Electronics | Control Software | Hardware-in-the-Loop

Never redraw your schematic again.

From design to testing.
From offline to real-time HIL.
One platform.
Your entire journey.



DESIGN

TyphoonSim
MIL / SIL
Simulink Blockset



PROTOTYPE

RCP
Control code testing
Open / closed loop



VALIDATE

C-HIL
Real firmware
Fault injection



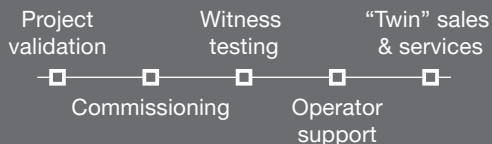
AUTOMATE

TyphoonTest
CI / CD integration
>1000 tests / builds



DEPLOY

HIL Compatible
Customer support
Lifecycle services

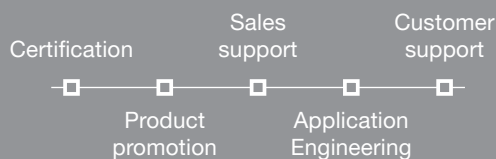


MODEL AS A
Product
BUSINESS FLOW

Test preparation reduced
saving weeks & months.
Thousands of scenarios
completed digitally.



equinor



MODEL AS A
Service
DEPLOYMENT FLOW

Our customer
response time goes
from one or two
weeks down to a few
hours.



MODEL AS A
Tool
DEVELOPMENT FLOW

Closed loop
results on the day
HIL is delivered!





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OPERATIONAL ON DAY OF DELIVERY.



HIL in a day.

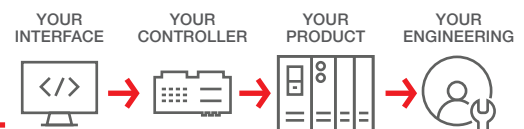
Engineering teams begin closed-loop testing on the day the system is delivered.

IMPACT

Move from an offline concept to closed-loop HIL within a single ecosystem, with minimal effort. **Typhoon Sim** for early simulation and transient analysis. **Simulink blockset** for teams with existing Matlab workflows. Pre-built component library covers **converters, machines, batteries, and more.**

Real-time HIL with **no third-party dependencies.** Automatic solver setup. No VHDL.

FROM R&D BENCH TO CUSTOMER SITE.



One model. Entire lifecycle.

Most engineering teams build a HIL model and stop at R&D. Typhoon HIL is designed to make the same model practical and profitable to end of product life.

UNIQUE TO TYPHOON HIL

IMPACT

The same schematic you draw on day one travels the entire journey. Development team **validates firmware** and **automates regression.** In customer interactions it acts as a **scalable application engineering tool** and a rapid **customer support asset.** Once deployed, it becomes a **revenue-generating service.**

As the model evolves, **value compounds at every step.**

DELIVER UNPRECEDENTED EXPERIENCE TO YOUR CUSTOMERS.



Your product twin. Productized.

Most OEMs treat HIL as a cost center. **HIL Compatible** turns it into a customer-facing differentiator, and a recurring revenue stream.

UNIQUE TO TYPHOON HIL

IMPACT

HIL Compatible packages your product's **real firmware, real interfaces, and real dynamic behavior** into a portable digital twin, for your engineers and your customers alike. Your application and support engineers reproduce any field case at their desk.

Your customers interact with **your product** and **your engineering.** Live.

Learn more:

