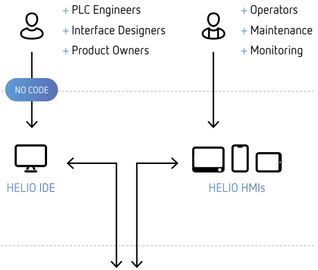
HOW HELIO IS STRUCTURED

Users

With the HELIO development environment (IDE), you can create impressive HMIs without any programming knowledge. Whether you're an engineer or designer, product owner or on-site service. HELIO HMIs are automatically fully responsive, ready for any device.



Clients

The HELIO development environment (IDE) and HMIs run device-independent, completely in the browser on 100% web technology. This also makes you more independent. Use the IDE without compiling directly on the machine on site - works!

The HELIO Runtime ...

runs on all common operating systems and processors. It delivers the HMIs and the IDE to all end devices and mediates between the controllers and all connected clients - securely and quickly.

PLC

Via interfaces such as OPC UA or MQTT, the HELIO Runtime monitors the data of your PLC. The business logic - the core of your application - remains in your hands and does not get mixed up with the display logic of different clients.

MULTILINGUALISM AND INTERNATIONALIZATION

- Native UTF-8 support
- Multilingual projects
- Language switching in the HMI
- Ex- and import of language tables

SUPPORTED INTERFACE STANDARDS

- OPC Unified Architecture (UA)
- MQTT

FEATURES

- Independent of platforms, hardware, manufacturers and end devices
- No Code
- Fully responsive
- User management with authorization concept
- Message and alarm list
- Intuitive data point management
- HMIs and development environments use 100% web technology: HTML5, CSS, JavaScript

FREQUENTLY ASKED QUESTIONS

WHY DOES HELIO RUN IN THE BROWSER?

To be able to work comfortably on HMIs without having to install heavy software on your development computers, the HELIO development environment is 100% web-based. You simply call it up via your browser. Your project data is securely stored on the development computer.

As soon as the development of an HMI is finished, a HELIO runtime is installed on the target device and the project configuration is transferred from the development environment to the device. After that, the machine runs completely independently and offline.

WHAT DO I NEED TO KNOW TO CREATE HMIS WITH HELIO?

You don't need any programming knowledge to create HMIs with HELIO. This makes HELIO a perfect tool for quickly responding and adapting to new requirements.

Project planning also becomes easier, since HELIO does not have to be operated by control developers.

WHAT ARE THE HARDWARE REQUIREMENTS?

Even if HELIO works wherever a modern browser is installed - we recommend using the following for a smooth display:

	RUNTIME	DEVELOPMENT ENVIRONMENT (Desktop)	HMI (Desktop & Mobile)
CPU	x86-64 (Intel, AMD) ARM (64 bit) min. 2 Kernels min. 800 MHz	x86-64 (Intel, AMD) ARM (64 bit) min. 4 Kernels min. 2 GHz	x86-64 (Intel, AMD) ARM (64 bit) min. 4 Kernels min. 2 GHz
RAM	min. 2GB	min. 4GB	min. 2GB

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WANT TO TRY OUT HELIO?

Register at helio-hmi.com/demo for a free and unbinding 30-day demo version.

You can find detailed tutorials and how-to videos at docs.helio-hmi.com

HELIO is a product of HMI Project GmbH & KEB Automation KG
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HELIO

HELIO lets you create intuitive HMIs more quickly and easily which are – thanks to the latest web technology – really responsive and independent.

+ NO CODE
HMI-Development without programming effort

+ USABILITY OUT OF THE BOX
HELIO does the UX-Design for you

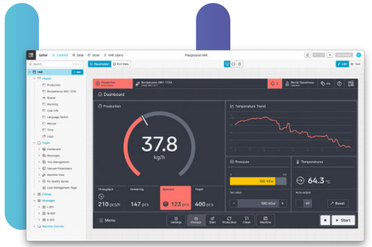
+ WORKS ANYWHERE
Future-proof and flexible, open and independent

THE HELIO DEVELOPMENT ENVIRONMENT (IDE)

NOTICEABLY EASIER. MEASURABLY FASTER.

Developed by certified UX experts, HELIO provides professionally designed templates that offer high-quality interface design straight out of the box.

The result is not only easy to use, HELIO itself can also be learned easily and quickly, thus lowering development costs significantly.



SIMPLER PROJECT PLANNING

LIVE & DIRECT: WORK WITH REAL-TIME DATA

When editing an HMI with HELIO the live PLC data can be displayed at any time in the editor.

Because there is no compilation step between editor and finished HMI, time-consuming intermediate steps are not required.

This is more than WYSIWYG – it is "What You See Is What It Is".

FLEXIBLE AND ADAPTIVE

TRUE RESPONSIVENESS. ANYTIME. FOR ALL DEVICES.

HELIO is inspired by the architecture of modern websites. This means that the elements of the HMI adapt intelligently to the respective end device.

Whether 27-inch monitor, tablet or smartphone: All HMIs built with HELIO automatically optimize their display for the respective screen size - without having to create a separate layout for it.

USE OF WEB TECHNOLOGIES

THE WEB: INDEPENDENT & FUTUREPROOF

HELIO is manufacturer-independent and runs on any hardware (minimum requirements provided). By the use of web technology you can work with the development environment cross-platform on any device running a modern browser, no matter if Windows, Linux or Mac.

This also makes HELIO particularly future-proof, because the exchange of hardware - whether displays, computers or machine components - has no influence on the usability.

DEVELOPED BY UX-EXPERTS

USABILITY OUT OF THE BOX

User interfaces that focus on users and usability work better, faster and easier, because they are more than just cosmetics on the surface. HELIO takes care of the interface design for you with intelligent UX components.

At HMI Project, we have been designing and developing internationally award-winning user interfaces for over ten years. This expertise goes into the development of HELIO.

NO CODE.

HMI DEVELOPMENT WITHOUT PROGRAMMING EFFORT.

Because editing HMIs in HELIO is so easy, better results can be achieved faster. This reduces learning and handover times and is easy on the budget. With HELIO, the creation of HMIs is no longer a software development project, as no programming skills are required.

This means that your control system developers can focus on their core competence.

FURTHERMORE, HELIO OFFERS

- → The preconditions to ensure a uniform design system throughout the company
- → Simple and flexible data point connection and modeling
- → A fair, transparent and individual price and license model
- → The possibility to integrate external web content via iFrame
- → Regular updates and a constantly growing element library