TIA Portal

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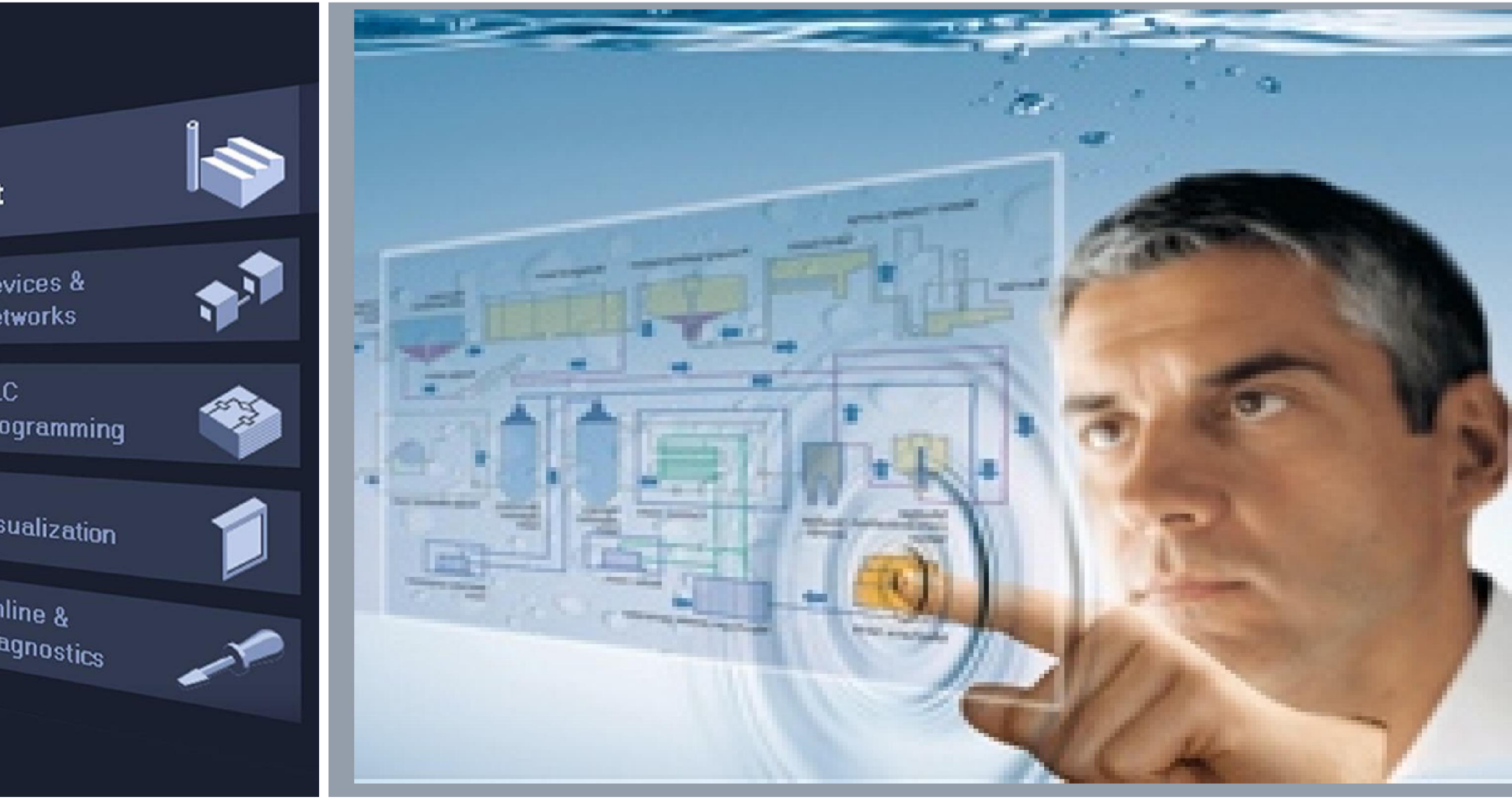

TIA = Totally Integrated Automation

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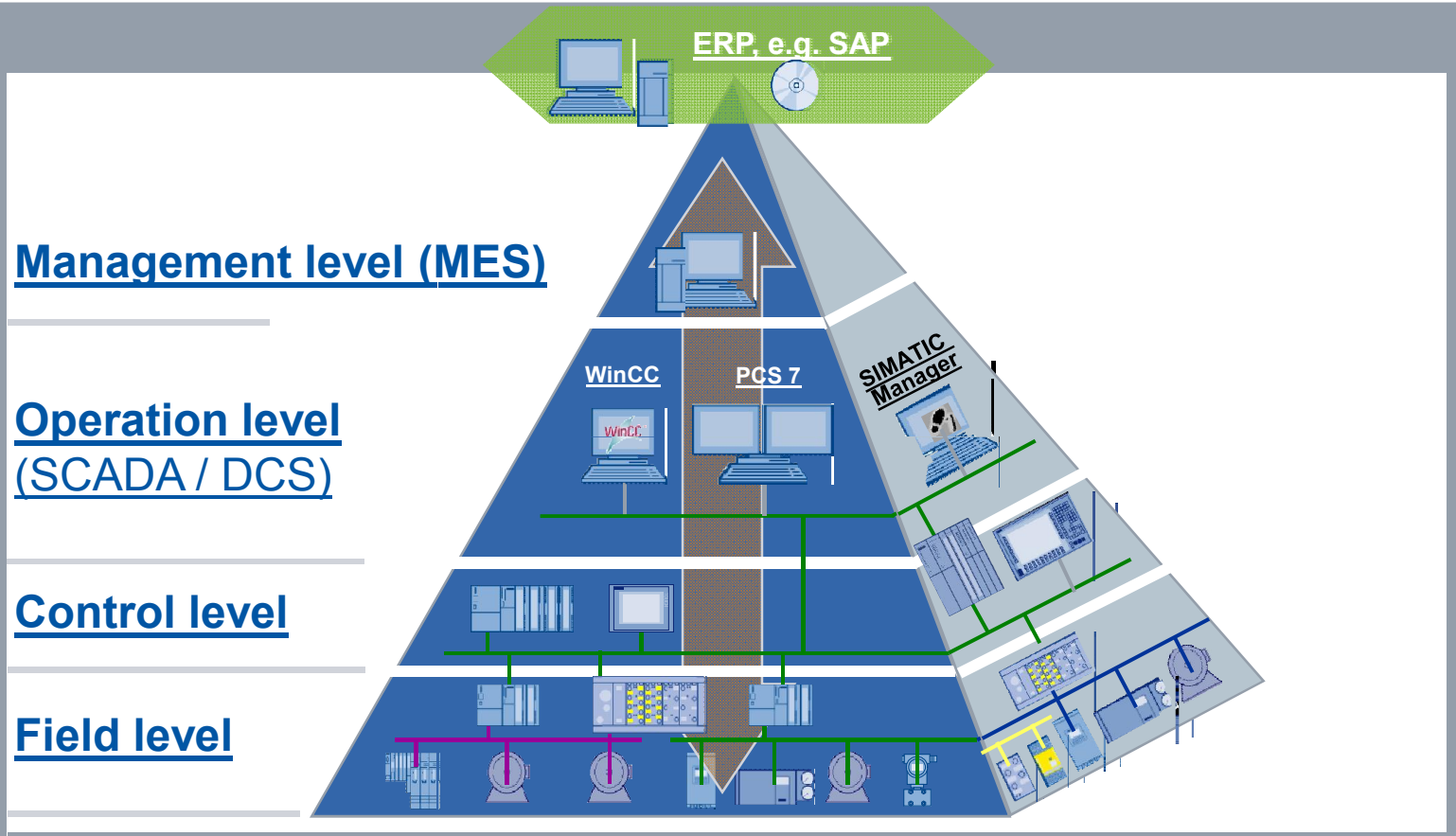

- Reduce interfaces & costs of engineering
- Increase the intelligence of the automation
- Optimize and speed up the production transparency

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Prevail in global competition?

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vices &
tworks

C
ogramming

ualization

line &
agnostics

Individualization

Production

- Customized mass production
- An increasing number of variants demands greater flexibility in product fabrication.

Globalization

Production Logistics

- Global alliance of production and suppliers
- New business models

Time to Market

New Technology

- Shorter product lifecycles require even shorter times to market, leaving you with less and less time to plan your automation solution.

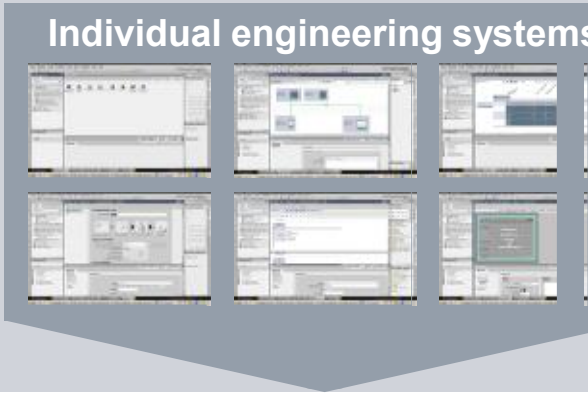
Sustainabili

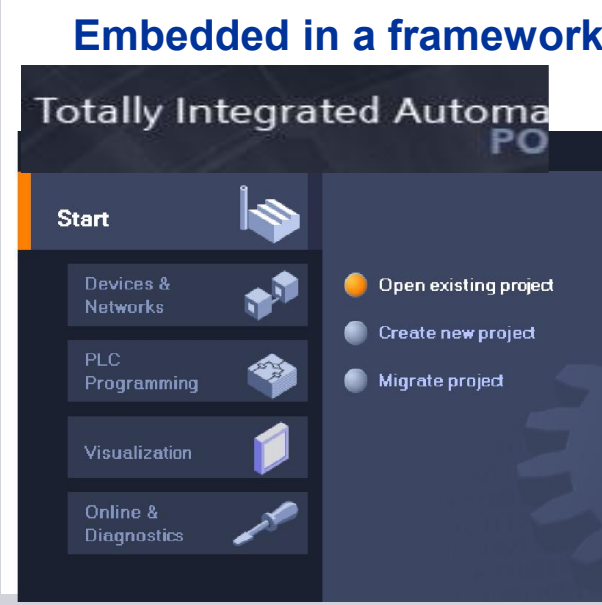
Energy Consum

- The efficient us energy and environmentall materials

A PORTAL – vision of automation solutions in all industries

Separate software packages are limited because they lack consistency and integration. It takes a common work environment – i.e. an **Engineering Framework** – to achieve full integration and consistency of individual products.





Centralized engineering framework

- A common user interface concept for all automation tasks with common services
  (e.g. configuration, communication, diagnostics)
- Automatic data and project consistency
- Powerful libraries across all automation objects

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ommon engineering framework – automation solutions in all industries

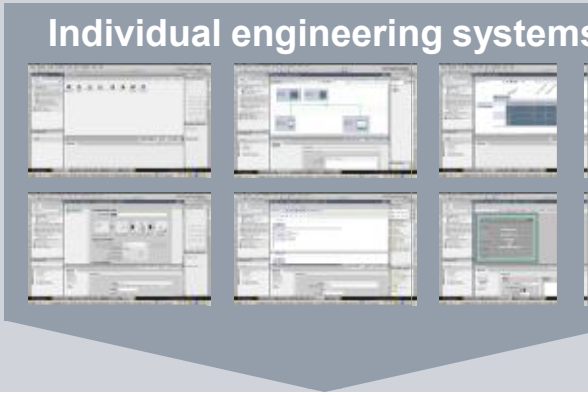
Engineering + Commissioning + Maintenance

Savings of up to 30% in engineering time

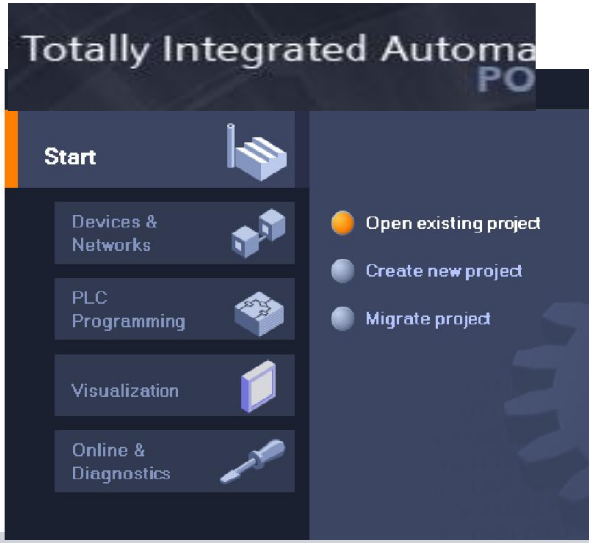
Usability!

1st step: PLC + HMI

2nd step: Performance and efficiency – integration of drives and new automation components (S7 1200 and S71500 – most important innovation from Siemens since 15 years)



Embedded in a framework



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centralized engineering framework for ll integration and consistency

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The **Totally Integrated Automation Portal** provides the work environment for end-to end engineering with SIMATIC STEP 7 and SIMATIC WinCC.

Siemens Totally Integrated Automation Portal

Totally Integrated Automation Porta

STEP 7 V11

SIMATIC Controllers

WinCC V11

SIMATIC HMI

StartDrive V11

SINAMICS

You purchase STEP 7, WinCC - and experience the TIA Portal

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otally Integrated Automation Portal
tuitive – efficient – future-proof

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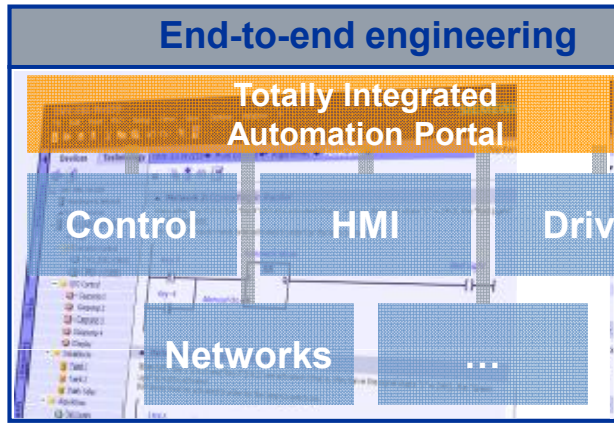
-proof

Intuitive: Easy to learn – **Easy** to use with task-oriented, intelligent and intuitive editors, quick start

Efficient: Efficient engineering with an end-to-end engineering framework for all automation tasks, short time to market, reduced TCO

Future-proof: Reuse existing automation solutions and integrate future software products in the TIA Portal engineering framework



Totally Integrated Automat Portal

- Usability
- Interoperability & openn
- Solid foundation for futu innovations

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CE - Siemens Automation Cooperates with Education

PLC programming education package: "Siemens Automation Cooperates with Education" offers automation and drive technology classes, a training curriculum and special terms for equipping laboratories.

"Siemens Automation Cooperates wit Education" helps educational and research development institutions to use ou knowledge as an innovation driver.

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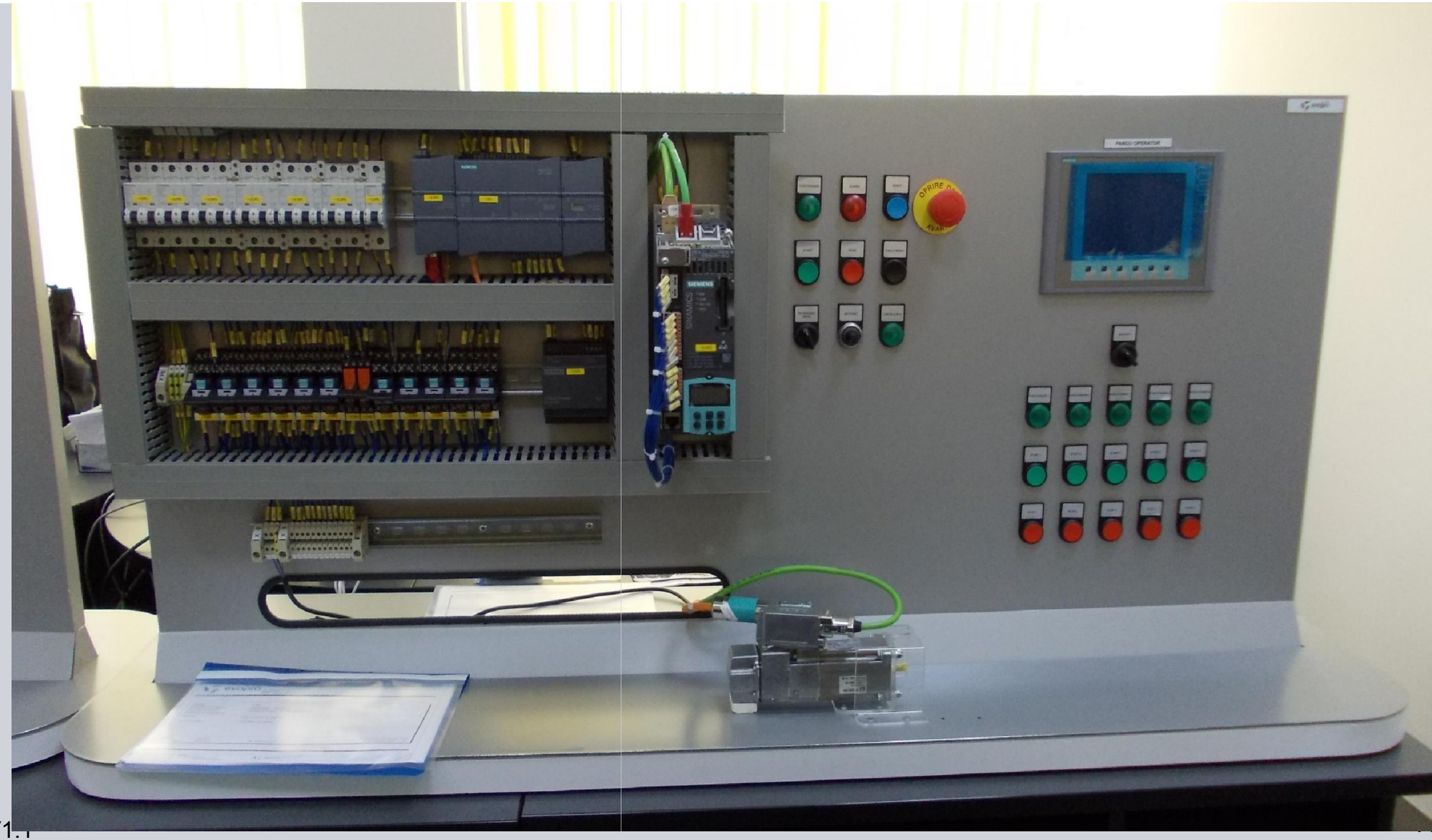

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hank you for your attention!

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