

Background "We want to improve your operational efficiency by incorporating digital technology your industrial daily life" Asset **Smart Control** Management Operator efficiency Life Is On

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EcoStruxure[™] Augmented Operator Advisor

"The Schneider Electric's solution on tablet, based on Augmented Reality technology, which gives operators the ability to **superimpose real-time data** and **virtual objects** on to the **real plant environment**."

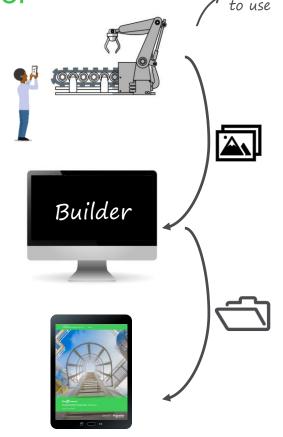
- Find information faster with immediate, relevant access in the field (user manuals, instructions, diagrams, etc.)
- Avoid unnecessary downtime with the ability to open the electrical cabinet doors virtually
- Reduce operator errors during operations and maintenance by locating the right equipment and guiding operators step-by-step to complete the procedures

Empowered workforce

Speed-up maintenance

Business enablers

"50% of time spent on maintenance involves finding information"



Life Is (¹)r

EcoStruxure[™] Augmented Operator Advisor Components

Builder



EcoStruxure™ Augmented Operator Advisor Builder

- Online tool to create custom projects improving operational efficiency with augmented reality
- Yearly license

http://s360pre-we-wa-frontend.s360pre-wease.p.azurewebsites.net/

Runtime



EcoStruxure[™] Augmented Operator Advisor Runtime

- Software component to execute projects
- Magelis G5U, Box PC, Edge HMI BOX or Standard PC
- Permanent license for the Runtime
- One per machine

App



EcoStruxure™ Augmented **Operator Advisor** App

- Free on Stores
- Android, iOS and Windows



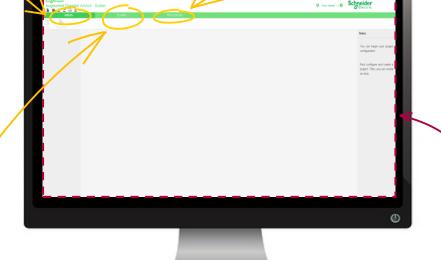
EcoStruxure[™] Augmented Operator Advisor Builder

Area: set of several scenes to cover a production line or a machine

Scene: set of images* to ensure the recognition in all environmental situation and operator position

*Image: picture of the scene to be recognized

Procedure: set of instruction to follow with or without POI displayed (Point Of Interest)



Project: set of several areas to cover a part of, or a complete factory



EcoStruxure[™] Augmented Operator Advisor Different levels of Runtime

Depending of the complexity of the projects

EcoStruxure™ Augmented Operator Advisor Builder Annual fees EcoStruxure™ Augmented
Operator Advisor Runtime
for 1 machine
Permanent License

EcoStruxure™ Augmented
Operator Advisor Runtime
multi-area
Permanent License

Essential offer: 3 different levels /machine

To build an **unlimited** number of projects

Essential Level 1:

1 area and 20 POIs

Essential Level 2:

1 area and 50 POIsEssential Level 3:

1 area and **unlimited** information

For a project managing several machines or production lines: **unlimited** number of information and procedures

Essential offer and AR Procedures /machine

To build an **unlimited** number of projects

The 3 different Levels of the Essential offer + 10, 20 or unlimited procedures

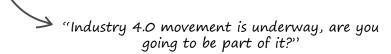
Why not try it for free during 42 days?

Life Is On



EcoStruxure[™] Augmented Operator Advisor 42 Day Free Trial

- Test AR with your equipment in your environment
- Same features as the full version.
- 42 Days Access to:
- Builder: Web tool, can be used during 42 days after the customer account creation without activation, projects created aren't lost
- Runtime (for one machine): Software PC, can be used 42 days without activation code
- App: available on Store for FREE, can be used permanently after download without limitation



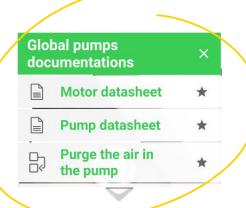




EcoStruxure[™] Augmented Operator Advisor App interface

Information banner

Point of interest (POI)*



Point of interest List (up to 5 information)



*POI opportunities: list (Label, Images, Process variable, Data from a SQL database, Documents: pdf files, Electrical diagrams, Web pages, Videos), image, variable or text to display directly on the screen

> Shortcut menu





EcoStruxure[™] Augmented Operator Advisor Different examples of use



In front of a machine or a production line

Immediate access, in real time, to relevant information in the field for operations and maintenance: machine history, variables of process, documents (products, installations, instructions, electrical diagrams, etc.)



In front of an electrical cabinet or an hidden part of a Machine

Fast diagnosis without lockout or electrical qualifications, through the virtual doors opening the cabinet: device status, variable values (current, power, speed, etc.), documents (products, installations, manuals, electric diagrams, etc.)



For an overall view

Simultaneous view of reality and data. Safe and quick detection of anomalies (alarm display, significant process variables) and access to KPIs (display parameters and key information, production progress, performance indicators, etc.)



EcoStruxure[™] Augmented Operator Advisor At a glance

Builder · Web-based application Business model • Project Mode or Do It Yourself Licensing • BT through IDMS account, RT different levels Notes · Multi-user, pushed to RT, available via RT **User Management** • Multi-user RT from User Database on RT, modifiable online through web interface (RT) Runtime Devices · Server based Windows software, permanent license, 3 levels Multi-language · Builder and application available in 8 languages





EcoStruxure[™] Augmented Operator Advisor At a glance

Multi-iOS

• IOS, Android and Windows

Triggers actions

• Change POI visibility (hide/show), POI background color or blinking POI, displayed text

Points of interest

• Real time data from PLC, documents, images, web pages, notes, labels

Access to document

• Technical documentation (PDF), diagrams, images, videos

Access to hidden parts

• Example: open virtually an electrical cabinet

Cybersecurity

• Different levels management, login and password access

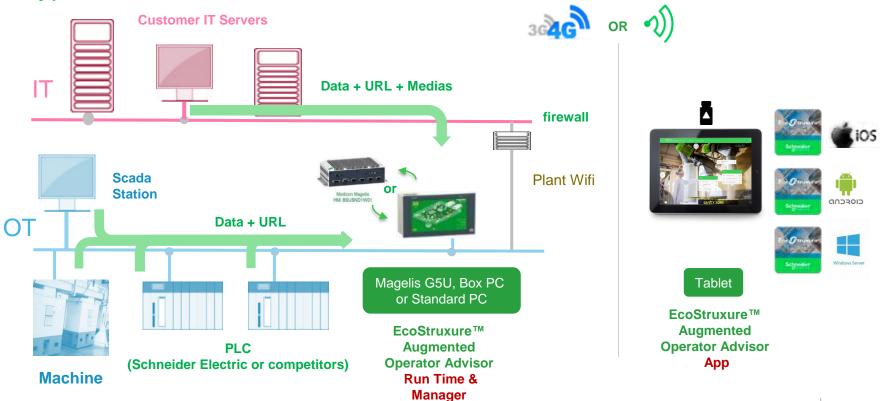
Other feature: zoom a scene, freeze the image, favorites, highlight of defaults, demonstration mode, detection mode (tag or 2D image), procedures

"With EcoStruxure™ Augmented Operator Advisor, get ahead of your competitors"





EcoStruxure[™] Augmented Operator Advisor Typical architecture





EcoStruxure[™] Augmented Operator Advisor Unique value proposition for end-user: customer benefits



This is my end-user, how can I improve the daily life of its plant?

- Improve the efficiency of day to day **operations** and **maintenance** by offering immediate access to relevant information in the field
- Reduce the time and cost of operations and maintenance by making process information available in real time on site outside the control room
 - Reduce operator errors









EcoStruxure[™] Augmented Operator Advisor

Business model (x2)
Project Mode

Schneider Electric develops the customized projects for the customers







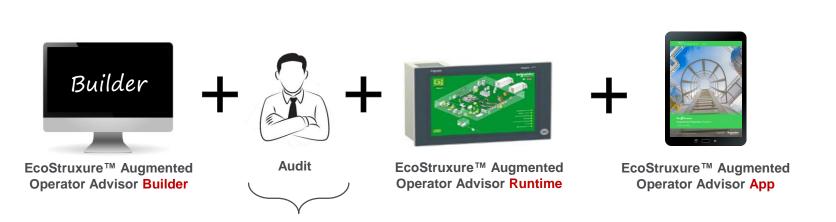


EcoStruxure[™] Augmented Operator Advisor

Training /
Support
for project development

Business model (x2)
Do It Yourself

Machine Builders subscribes to develop by themselves their projects







For more information please see:

https://www.schneider-electric.com/en/work/services/field-services/industrial-automation/performance-optimization-services/ecostruxure-augmented-operator-advisor.jsp

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