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A1

More possibilities for users,
less environmental pollution

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"We manufactured more and more goods. The fact that the service life of everything is shortening, and mountains of garbage are growing, is not our problem."

If we care about the future, then we need to overcome this approach.

The Octagram team with our customers have been using this relatively small A1 controller for over 10 years to create a wide range of solutions.

In the case of equipment from other vendors, it was expensive and available to a small number of users.

Today it is possible reduce pollution in a sector of market - security and building automation systems (volume is about $15 bln/year – see slide 8).
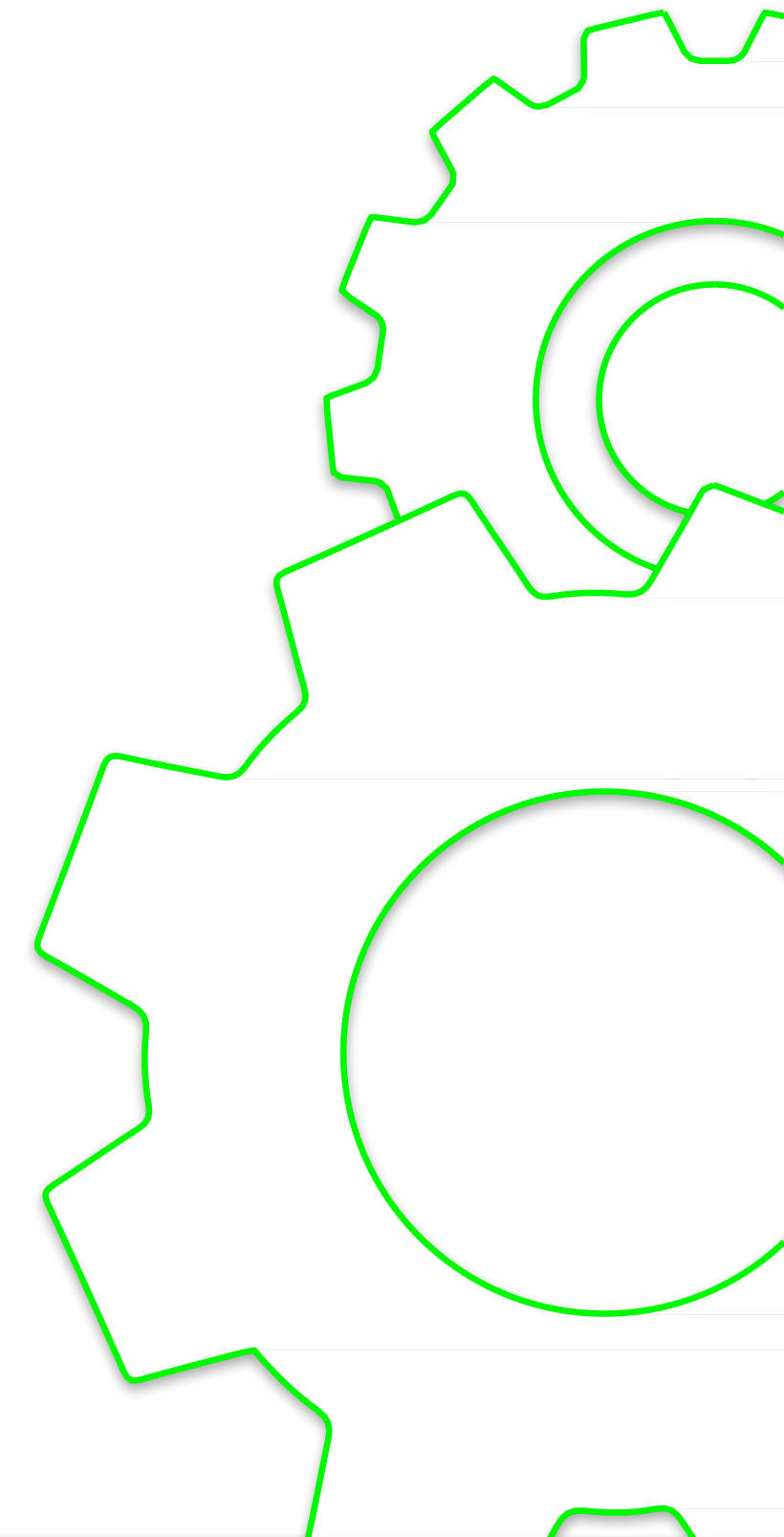
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Previously, there were 3 traditional categories of equipment for management security and building automation:
1. Specialized controllers and panels;
2. Programmable logic controllers (PLC);
3. Computers (PC).

The 4th category of control devices proposed by us
in 2009 - Modular Engineering Systems was recorded
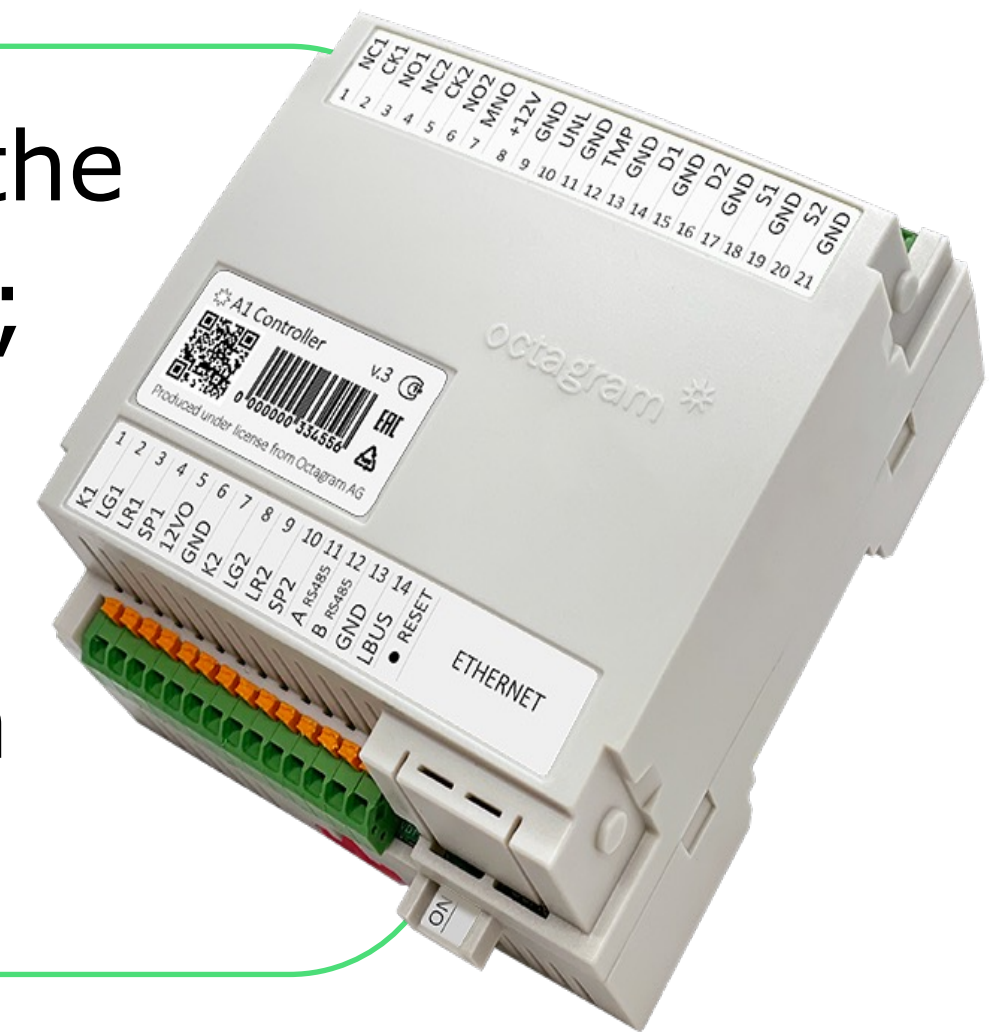by US Patent 9,146,552 B2 in 2015.

Modular Engineering Systems are implemented on the basis of
the A1 controller or Modular Engineering Platform (MEP).

The A1 combines all the best properties of the listed categories, among which:

1. Flexibility and ease changing of functions by changing the firmware as for PLC (2nd category) or PC (3rd category);
2. Ease of installation, configuration and using as in specialized controllers and panels (1st category);
3. Mass character due to low cost and high reliability as in specialized controllers and panels (1st category).

A1 (like the entire 4th category) also has a unique property - it combines low cost, high reliability, versatility and reusability. Last one allows us to save resources and the environment.

Key systems that can be based on and enabled by A1 Platform:

Integrated Security Systems (ISS)

Burglar Alarm (BA)

Fire Alarm Systems (FAS)
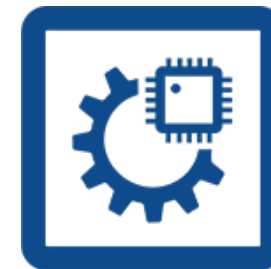
Automatic Fire-Extinguishing Systems (AFES)

Burglar-Fire Alarms System (BFAS)

Access Control Systems (ACS)

Working Time Reporting

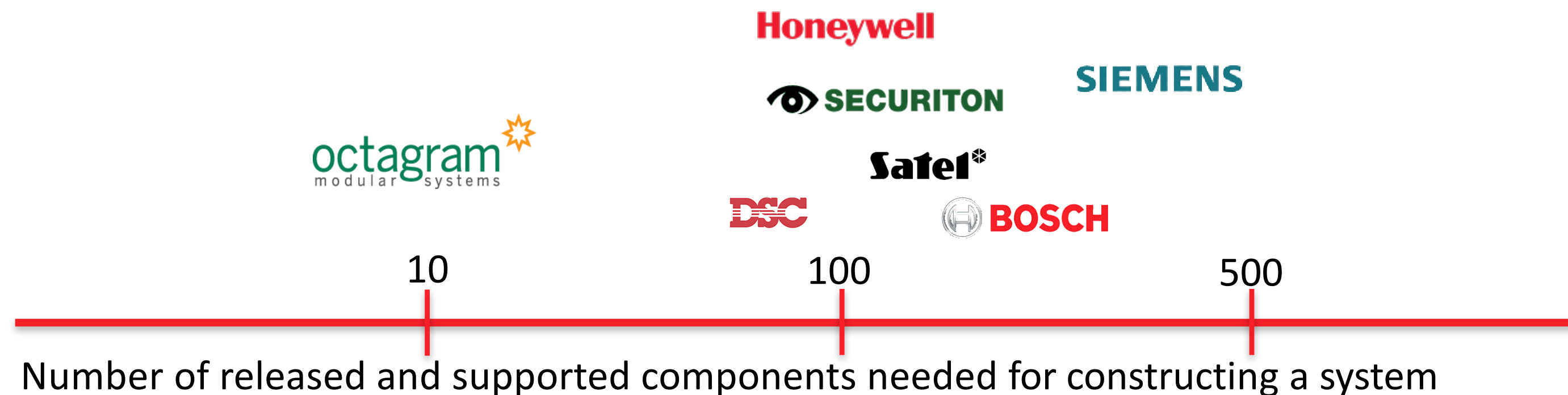Engineering Equipment Management
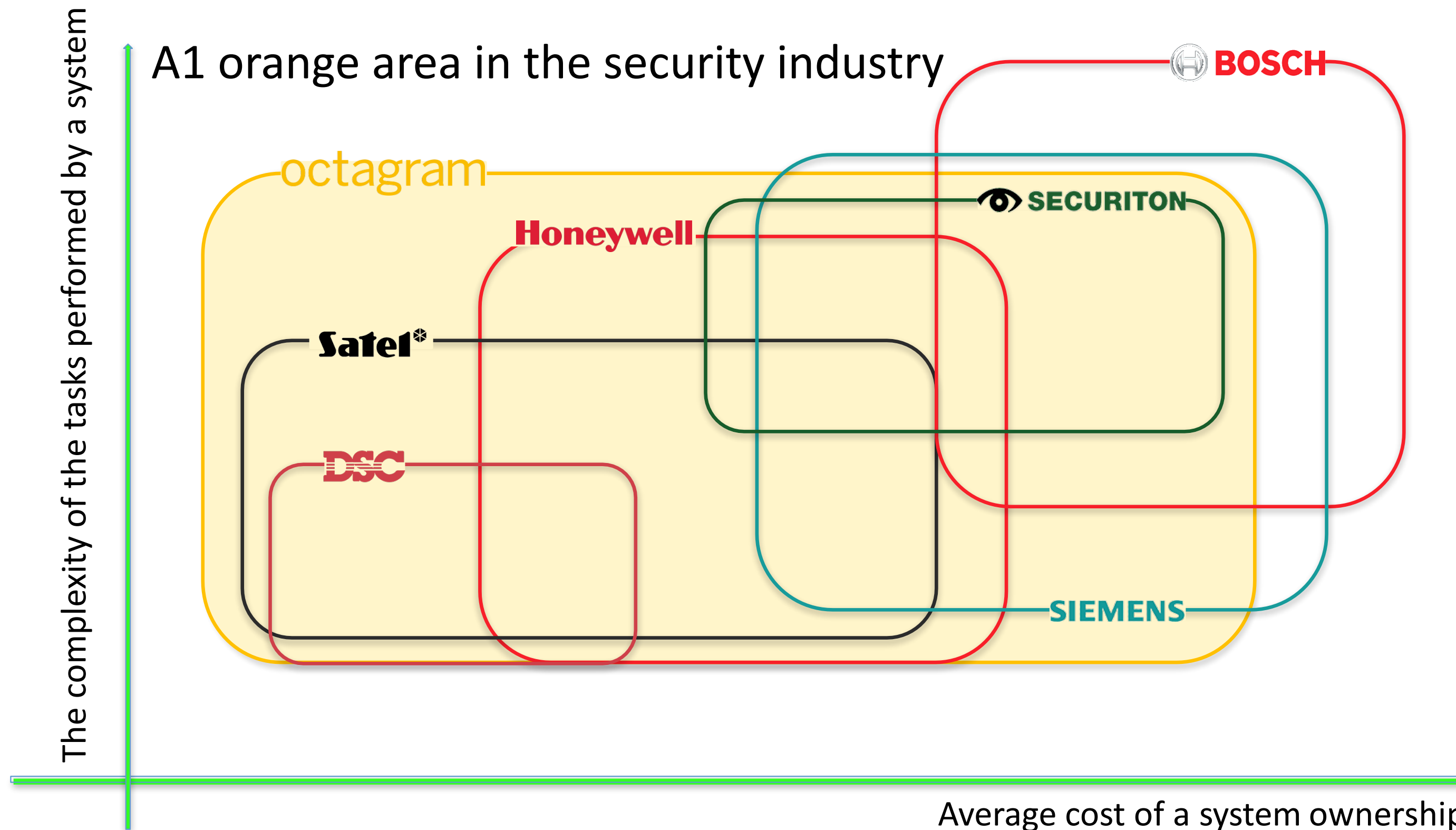
Home Automation (smart home)

Video Surveillance (accompaniment)

Octagram (A1 MEP) has no competitors capable use one type of controller and several modules to create any security and building automation solution. Usually, competitors must use dozens (or sometimes hundreds) types of components (as in the case of Siemens, Honeywell, Satel, Bosch, etc. - see chart bellow).

Number of released and supported components needed for constructing a system

The production and logistics of the very limited range of components is very efficient. The 4th category of equipment guarantees users minimum stocks and facilitates the planning (the A1 will always need).

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The market volume of the security management equipment is approximately:
Europe - €2–3 bln/year, USA - $8–9 bln/year, Middle East - $900 mln/year,
Latin America - $600 mln/year, South East Asia - $300 mln/year.

A1 orange area in the security industry

The complexity of the tasks performed by a system

Average cost of a system ownership

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BOSCH

SECURITON

Honeywell

Satel*

DSC

SIEMENS

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The creation of Modular Engineering Systems were preceded thorough researches of Great Britain security market by British company "Renard Systems" with the support of Manchester Business-school. Basic parameters determination of integrated security system was the main objective of these researches.

- Octagram AG was registered in Switzerland in September 2010.
- MEP's first installation was in Switzerland, where Octagram AG is currently headquartered. Some other projects have been implemented here.
- In 2012, an English-language version of the software appeared. Sales in English-speaking countries became possible .
- September 2014. The number of controllers released by the team since the beginning of the activity has exceeded 5000 (including about 4500 controllers of the 4th category).
- June 2022. The Octagram team started the creation of an enterprise for the manufacturing of the A1 Platform in Latvia, Hungary and other places in EU.

Thanks for attention.

Will be in touch.

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