The ASSA ABLOY Group is the global leader in access solutions. Every day we help people feel safe, secure and experience a more open world.

# Digital Change in the industry

Robert Siegmund, SVP Commercial Development EMEIA ARGE 2022, Stockholm, September 09th 2022

## Digitisation is everywhere in our industry

After sales service

Products Systems

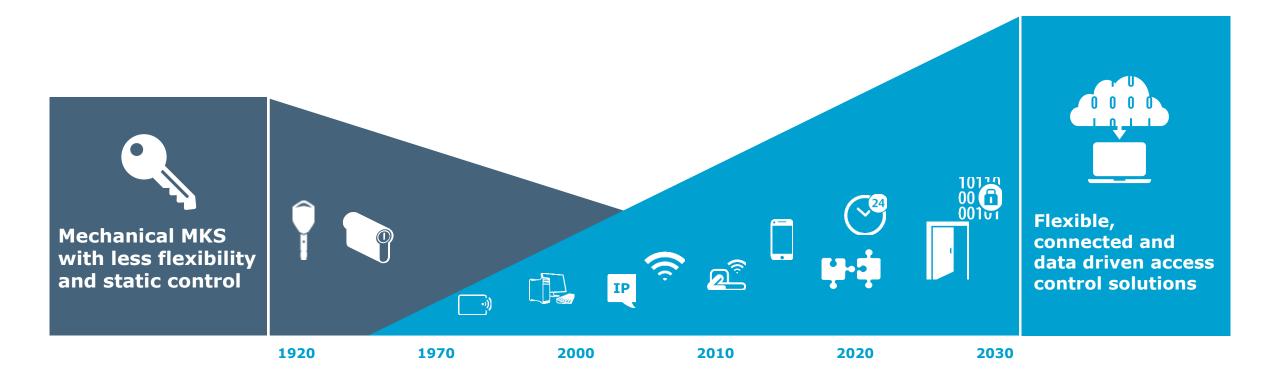
Smart E-commerce

Services Customer journey

Building Management SW

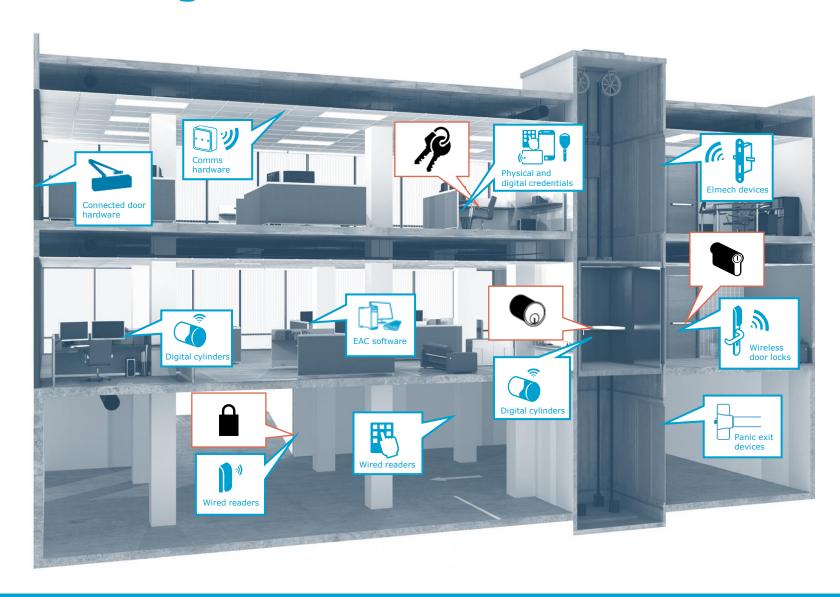
BIG Data AI

## The evolution of access management



Internal

## **Building environment evolution**





#### **Mechanical solutions**

- Cylinders throughout the building
- High security access points with wired access control

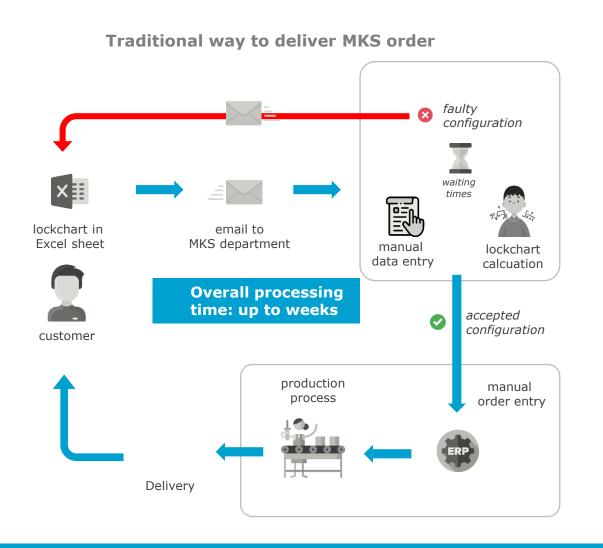


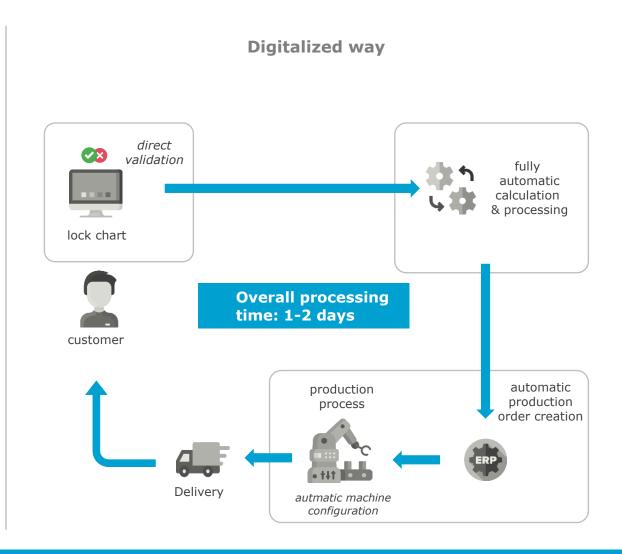
#### **Digitized solutions:**

- Connected wireless access solutions
- Flexible credentials & system admin
- Increased penetration of access points throughout the building

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# Digitalization in the Master Key System Industry MKS Lockcharts





## Why Go Digital?

- Work is changing: People expect an always-on flexible solution and state of the art technology
- Information never gets lost: Suite stores all your lockchart data and customer information securely
- Basy, powerful collaboration: Suite encourages smarter working across the full supply chain
- Everyone in the loop, always: Automated updates and notifications make sure everyone sees the latest changes
- Access remotely: You can view, share and amend lockcharts when you're out of the office and even access offline





## CREATE...

new lockcharts easily, select products conveniently from the database, and validate your planning.







## ORDER...

or reorder directly in the software, track the status of your orders anytime and from anywhere, and reduce delivery times.











## **MAINTAIN...**

your Master Key System with ease: you'll always have instant access to all your lockcharts or other important project data and can quickly modify.







Create lockcharts visually and modify them easily

Order replacement keys instantly and save time

Always access up-to-date information and order status

Manage your resources more efficiently

Identify vulnerable locks easily when someone loses their key

# **Streamline every stage of the MKS lifecycle**



- Create, order and maintain your Master Key System
- Extend and update with ease



## Requirements of a modern (e.g. eCLIQ) MKS



## Security after key loss

Re-validation for keys or blocking lost keys in cylinders can be done with a few clicks

## Digital security

128bit communication encryption for elements and MFA for software components ensure high security levels

## Analog security

Proprietary chip prevents copying, modern engineering / design creates secure interaction of components

## Keeping up with organizational changes

Fully electronic key alike system components enable 100% flexibility in locking system structures

#### Form factor

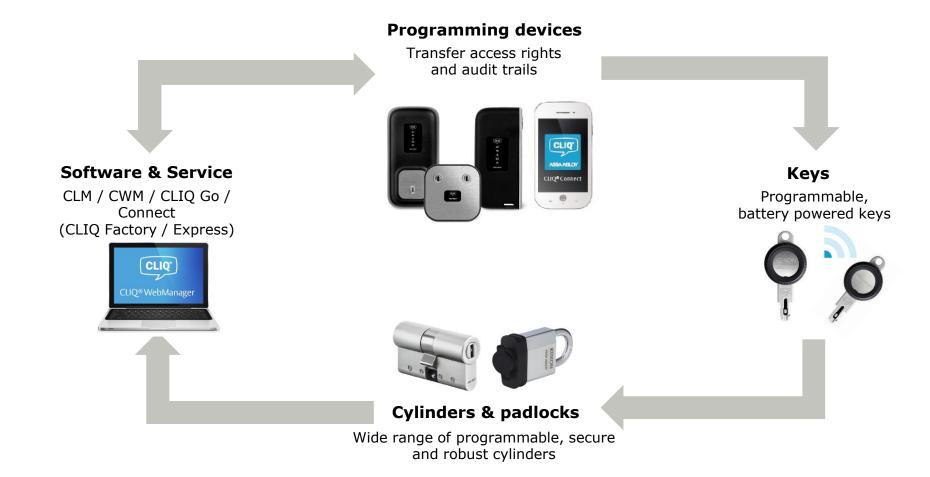
Compact plug design enables cylinder designs for all markets and installation situations

#### Big Picture

3 SW solutions and form factor creates a suitable solution for all verticals and segments

## Components of an eCLIQ locking system





## What's trending in access control?



\$8.3Bn

EMEA market revenue of access control by 2027

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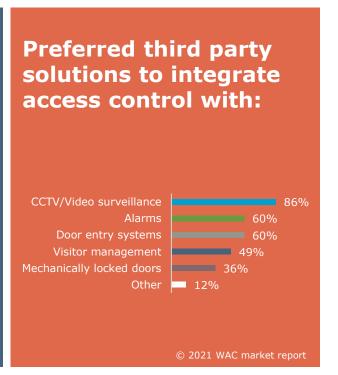


CAGR
(2020-2027)
ACaaS software

\$2.6Bn EMEA SW market by 2027

Fig. 6

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## **Market Trends Evaluation**

## **Technology**



Security: EU commission Cybersecurity Act / end-to-end security requirements



Connectivity:

Ex Zigbee Alliance, working on IoT connectivity standards and credential technology



Seamless access: UWB, dynamic, AI powered biometrics & image analysis



**Biometrics**: Facial Recognition, behavior

tracking



**Contactless** access control technologies, convergence physical-logical



**Distributed ledgers** for trust / credentials (IOTA, Blockchain,...)



**Deep learning** for platforms / value / data analysis / behavior stats



VR - AR - MR for easier installation, maintenance, education, interaction



Harnessing the **data and information** from our products



Semiconductor tech for cost-down, connectivity, increased functionality within less physical volume

#### **Services**



ACaaS Remote security Management via Cloud services



Mobile Keys Subscriptions



API's - Integrations



24/7 Support

#### Market



Impacting Commercial market requirements

Remote Security Management

Hybrid working

Touchless door unlock

Management of office occupancy



Cloud acceptance & adoption is accelerating, expected to grow five time faster than on Prem solutions in Mid Market application

EAC Standards EN60839 & UL294 market adoption of standards driving end user specifications



IOT adoption driving market to demand integration between EAC and 3rd party solutions

## **Build a flexible single IoT platform... INCEDO**

By introducing a platform-based eco-system...

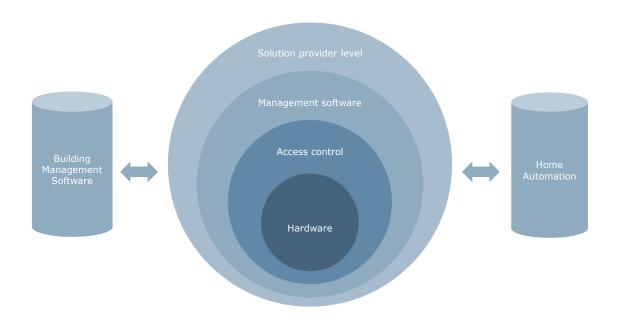


## ...our customers have more options

- Connectivity with 3rd party applications
- New business models & pricing options
- Data driven services
- Flexible hardware combination
- Technology alignment
- Mobile Access
- Digitized components

## **Solution Layer Model**

as per 2021



#### Hardware at the core

- The door/ building element still needs to be locked/ secured by a mechanical locking element
- This element still needs to comply with all local standards for hardware and security

#### Access control systems

- Create and manage access credentials and mediums.

#### Management Software

 Manages access management, access delegation, limited third party services, onsite/ offsite locking points.

#### Solution Provider Level

 Seamless integration, online central access, integrated 3<sup>rd</sup> party management enabling seamless UX.

## Building Management/ Home Automation SW

Agnostic to locking solution and access management

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# **Example: Multi-Residential Buildings**



Today
Mostly physical

Tomorrow
Digital first



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## What's ahead?









- Wallet/Credential and Identity will be fully digital in the near future
- Networks will not be made by physical cable connections anymore- the drivers today - NFC, Bluetooth, IOT, 5G, Meta
- Access Management will be possible from anywhere to anywhere in real time.

