

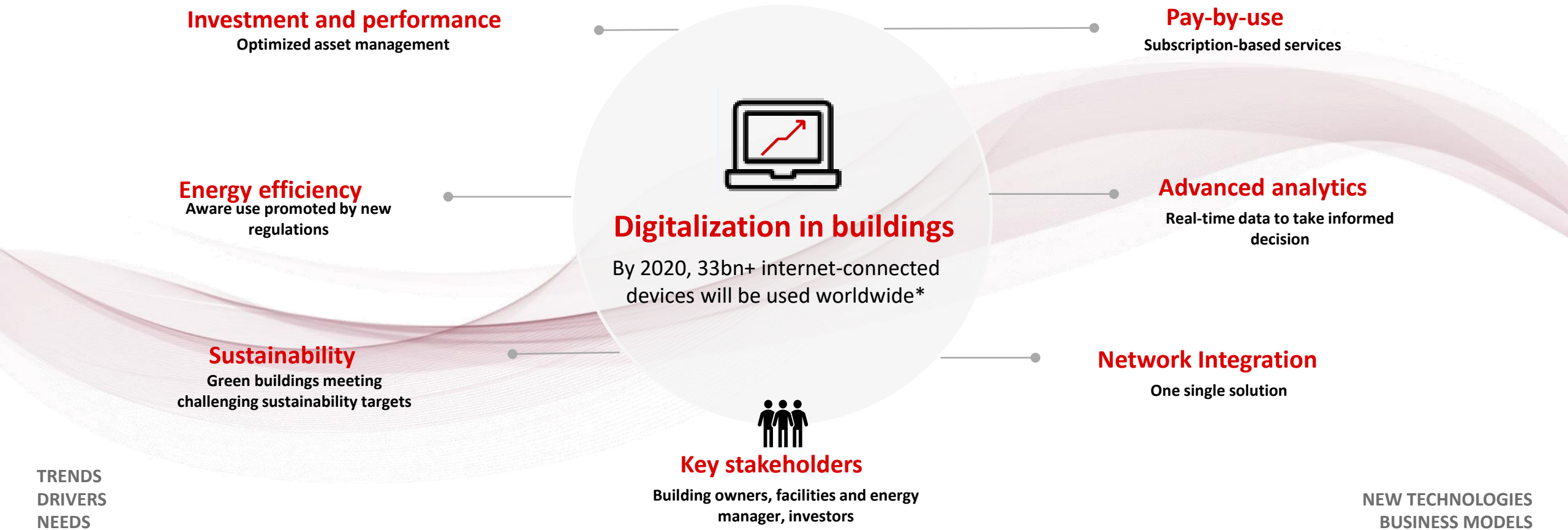
19.04.2023

# Eluhoonete energiatõhususe nutikas mõõtmine



# Digital revolution

Changing building perception

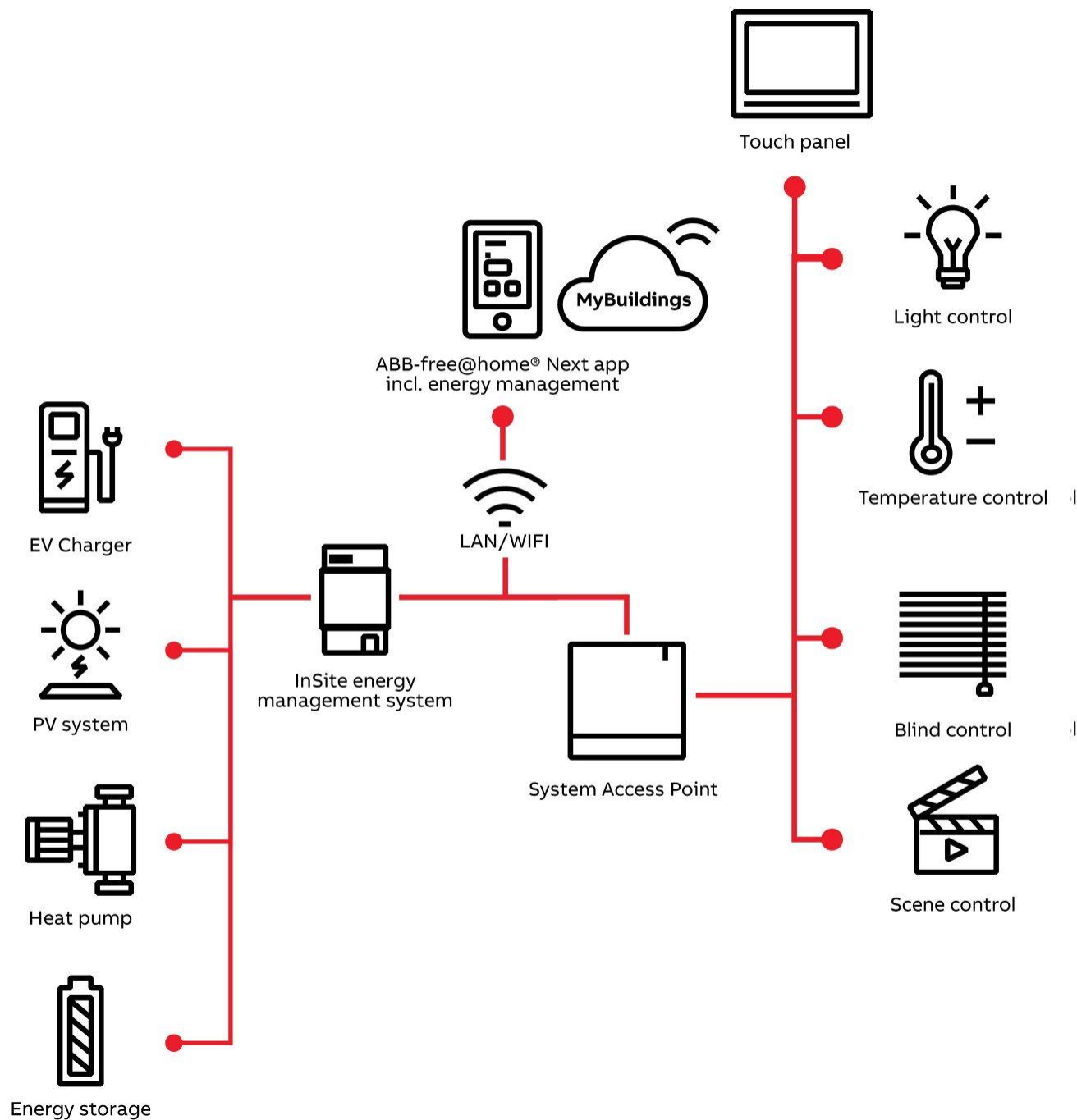


TRENDS  
DRIVERS  
NEEDS

NEW TECHNOLOGIES  
BUSINESS MODELS

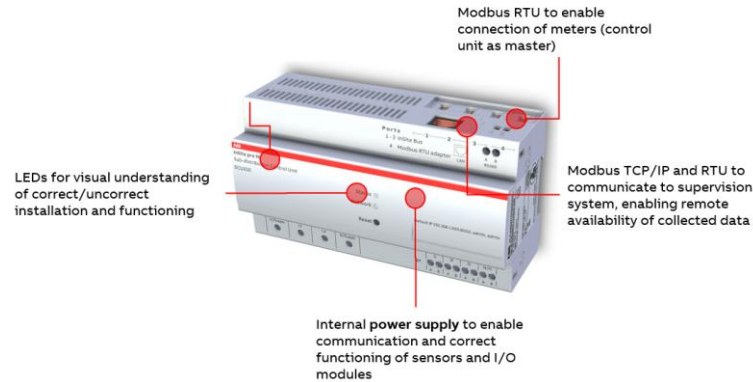
\*) according to Strategy Analytics study  
April 24, 2023      Slide 2      © 2023 . All rights reserved.





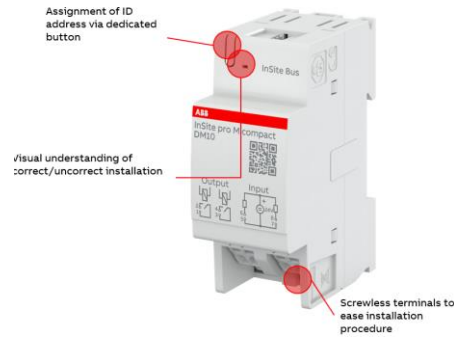
# System pro M compact® InSite

## System overview



### SCU100 control unit

- Control unit as **single access point** in the sub-distribution panelboard
  - Data aggregator from field devices
  - Data storage
  - Send information to ABB Ability™ EDCS
- Operations:**
  - In addition to branch monitoring sensors, control unit receives data from I/O modules (to support all main application functionalities), and metering via Modbus RTU



### Digital Modules (DM)

- Digital input module with 4 channels → DM11
- Digital output module with 4 channels → DM00
- Digital input/output module with 4 channels (2 inputs and 2 outputs) → DM10
- No external **power supply**
- Operations:**
  - Input to receive data from hard-wired connected devices (accessories, meters)
  - Output to act on connected accessories

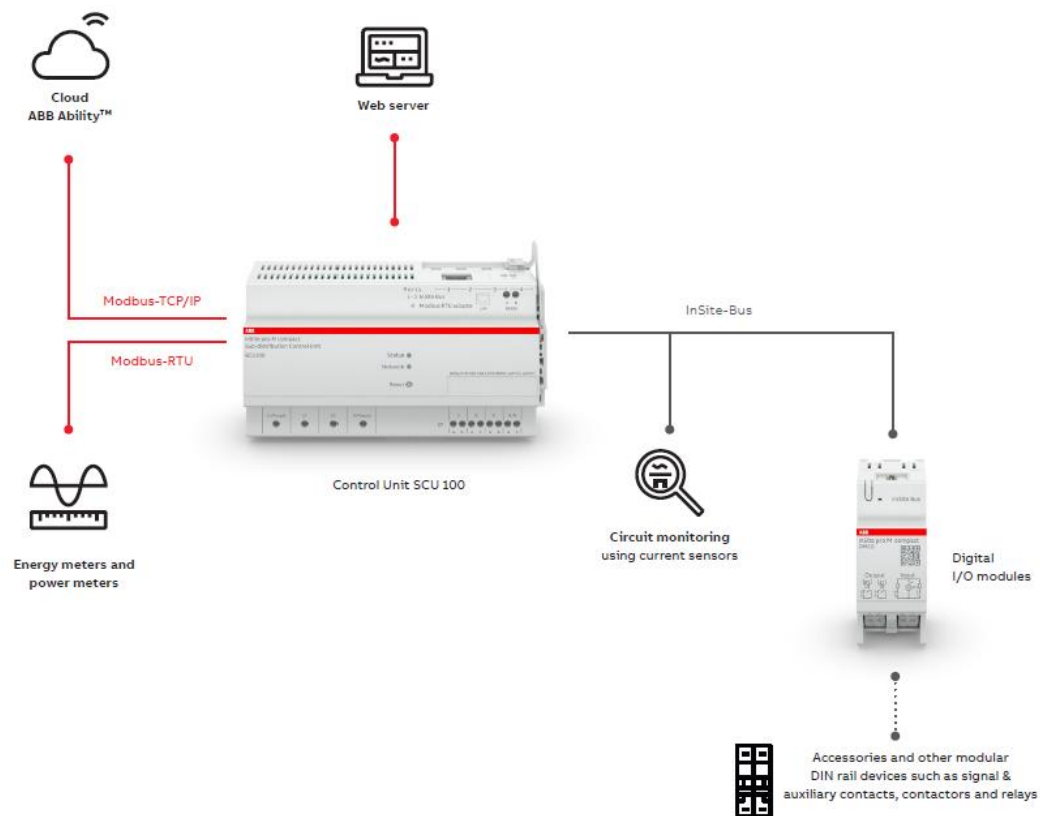
	L1	L2	L3	N	Total
Current [A]	0.00	0.00	0.00	0.00	-
Voltage [V]	239.82	239.75	239.79	-	-
Thd-U [%]	0.00	0.00	0.00	0.00	-
Thd-I [%]	2.68	2.68	3.02	-	-
Power Factor [-]	1.00	1.00	1.00	-	-
Active Power [W]	0.00	0.00	0.00	-	0.00
Reactive Power [var]	0.00	0.00	0.00	-	0.00
Apparent Power [VA]	0.00	0.00	0.00	-	0.00

### InSite webserver

- Monitoring of the complete system
- Configuration
- Remote action both manual and through implementation of automated logics
- Real time alarms/alerts
- Historical data, comparison between different devices

# System pro M compact® InSite

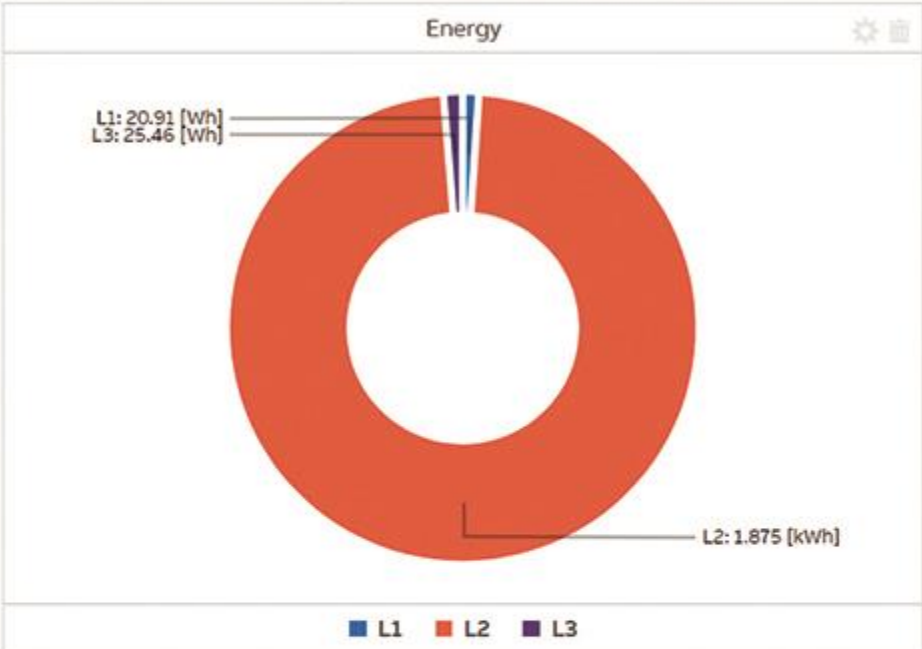
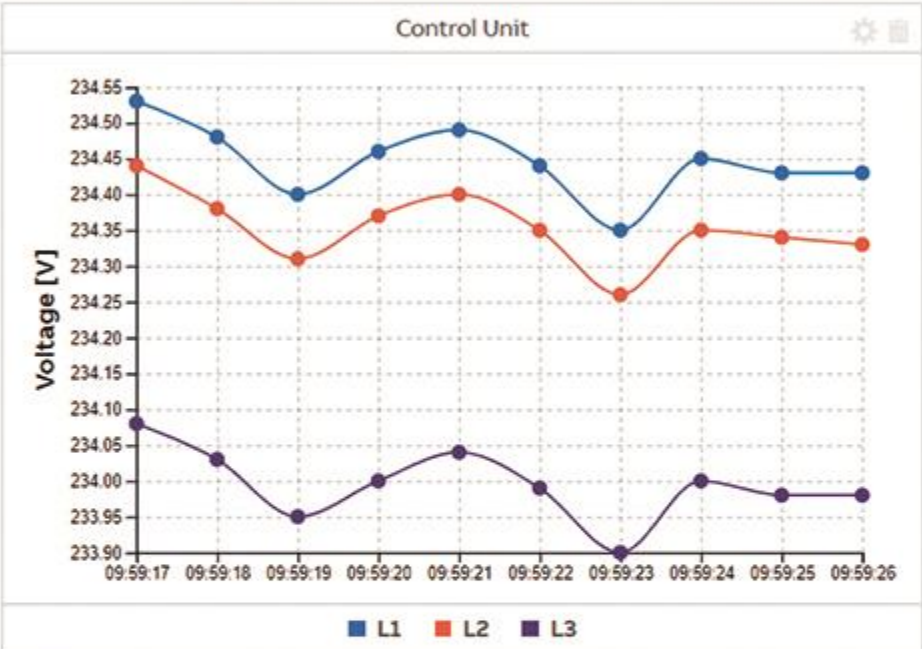
## System overview



### What to include in the panel:

- 1 Control Unit
- 2 Digital I/O modules
- 3 Current sensors
- 4 Flat cable





Device time

1.06.2021, 09:59:26

Devices status



Current sensors: 32 0

Meters: 13 1

I/O Modules: 2 0

Firmware version

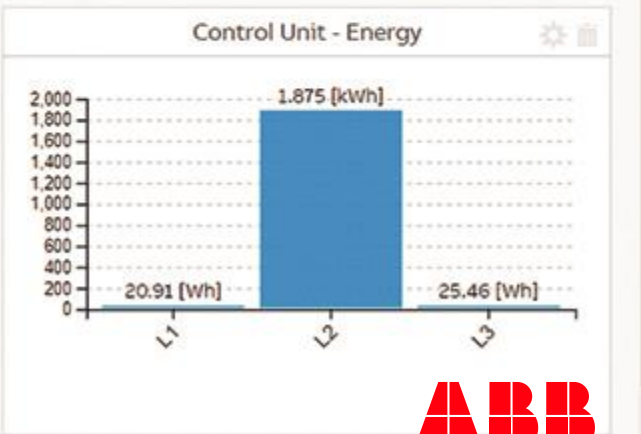
1.3.0-C3

Alarms log  

ID	Name	Device	Measure	Value	Date and Time
414	PV production		P	0 [W]	31.05.2021, 02:43:37
413	PV production		P	0 [W]	31.05.2021, 00:40:36
412	PV production		P	0 [W]	31.05.2021, 00:18:30
411	PV production		P	0 [W]	31.05.2021, 00:16:25
410	PV production		P	0 [W]	30.05.2021, 23:30:11

I/O Modules

ID	Channel tag name	Channel type	Device type	Status	Count
97.1	Module 1 Port 1	-	-	Close	37
97.2	Module 1 Port 2	-	-	Close	21
97.3	Module 1 Port 3	-	-	Open	2
97.4	Module 1 Port 4	-	-	Open	2
98.1	Gas 1	Pulse	Gas	-	5
98.2	Water 1	Pulse	Water	-	4
98.3	Heat	Pulse	Heat	-	4
98.4	Gas 2	Pulse	Gas	-	4



**ABB**