Le Sfide della Cybersecurity nel settore della Sanità

- Ensure patient record privacy, safety and security, while safeguarding medical data

- Protect mobile connectivity and telemedicine usage from an increasing attack surface
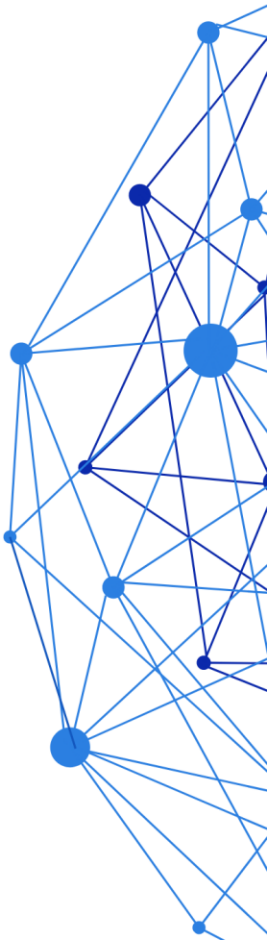
- Integrate IT Security with cyber defense of medical devices, diagnostic and hospital operational networks, OT assets and IoT sensors
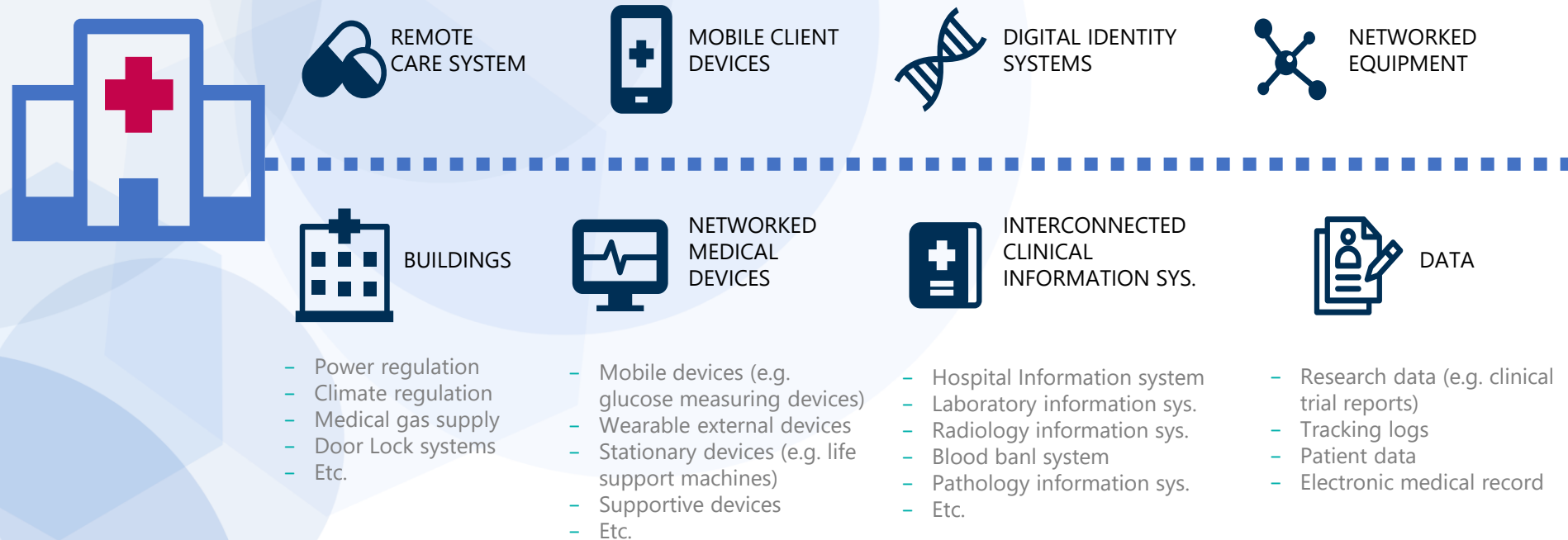
- Overcome the legacy system stratification and accelerate the cloud adoption, to meet the demand of on-line access to e-healthcare services
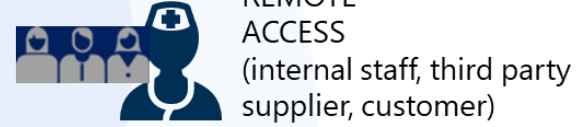
- Maintain regulatory compliance

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Una «Digital surface» sempre più estesa e sempre più esposta

REMOTE
CARE SYSTEM

MOBILE CLIENT
DEVICES

DIGITAL IDENTITY
SYSTEMS

NETWORKED
EQUIPMENT

BUILDINGS

NETWORKED
MEDICAL
DEVICES

INTERCONNECTED
CLINICAL
INFORMATION SYS.

DATA

- Power regulation
- Climate regulation
- Medical gas supply
- Door Lock systems
- Etc.

- Mobile devices (e.g. glucose measuring devices)
- Wearable external devices
- Stationary devices (e.g. life support machines)
- Supportive devices
- Etc.

- Hospital Information system
- Laboratory information sys.
- Radiology information sys.
- Blood banl system
- Pathology information sys.
- Etc.

- Research data (e.g. clinical trial reports)
- Tracking logs
- Patient data
- Electronic medical record

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Un ampio spettro di Asset da proteggere

REMOTE CARE SYSTEM

MOBILE CLIENT DEVICES

REMOTE ACCESS (internal staff, third party supplier, customer)

API

EXTERNAL ENV

CLOUD ENV

DATA

CLOUD SERVICES

IT ENV

DATA

IT CORE SYSTEM

INTERCONNECTED CLINICAL INFORMATION SYS.
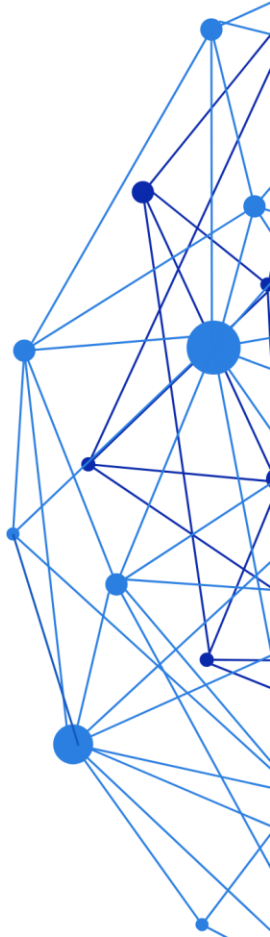
IDENTIFICATION SYSTEMS

NETWORKING EQUIPMENT

OT ENV

NETWORKED MEDICAL DEVICES
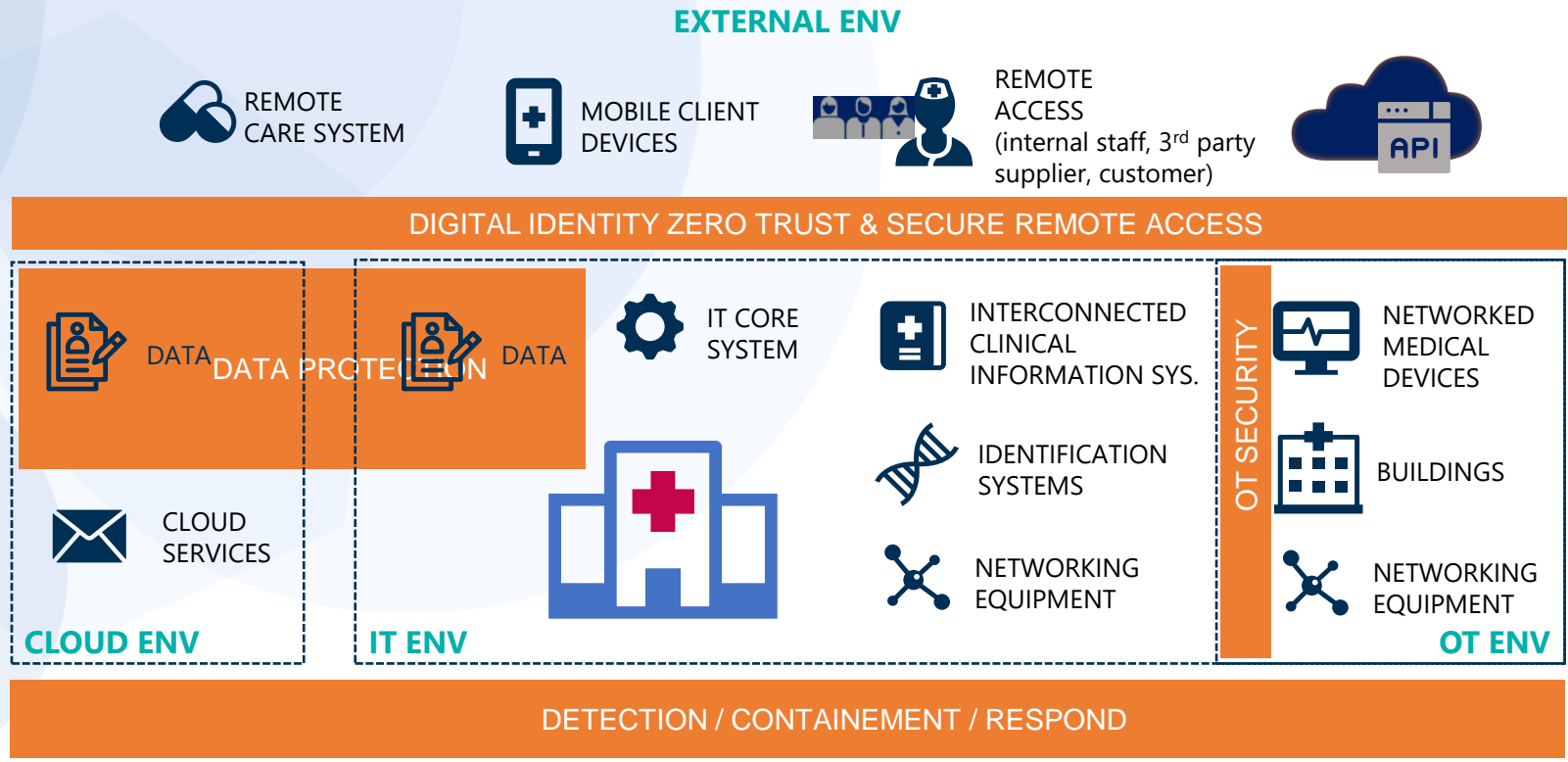
BUILDINGS

NETWORKING EQUIPMENT

Le «zone» di sicurezza per una difesa multi-strato e multi-livello

IDENTITÀ DIGITALI

DATI

TECNOLOGIA OPERATIVA (OT)

MONITORAGGIO, RILEVAMENTO, CONTENIMENTO

EXTERNAL ENV

REMOTE CARE SYSTEM

MOBILE CLIENT DEVICES

REMOTE ACCESS (internal staff, 3rd party supplier, customer)

API

DIGITAL IDENTITY ZERO TRUST & SECURE REMOTE ACCESS

DATA DATA PROTECTION DATA

IT CORE SYSTEM

INTERCONNECTED CLINICAL INFORMATION SYS.

IDENTIFICATION SYSTEMS

NETWORKING EQUIPMENT

OT SECURITY

NETWORKED MEDICAL DEVICES

BUILDINGS

NETWORKING EQUIPMENT

CLOUD SERVICES

CLOUD ENV

IT ENV

OT ENV

DETECTION / CONTAINEMENT / RESPOND

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Le iniziative per la cybersecurity in Sanità

DIGITAL IDENTITY ZERO TRUST & SECURE REMOTE ACCESS

- Zero Trust Access for on-line services
- Multi Factor Authentication
- Privileged Account Management

DATA PROTECTION

- Data Loss Prevention
- Encryption
- DB Activity Monitoring
- Governance & Processes Review
- Offline Immutable Backup

MEDICAL EQUIPMENT & OT SECURITY

- Host/Endpoint Protection and EDR
- Asset Visibility (Discovery, Inv.)
- Network Segmentation
- Network Protection IPDS/FW (OT Protocols)
- Anomaly Detection of OT communications

DETECTION / CONTAINEMENT

- Extended Analytics IT/OT
- SOC (real time monitoring)
- IRT (Incident Response Team)

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Grazie

Sanità Digitale in Sicurezza

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