SMARTBUILDING PORTFOLIO

Silver Link Trading LLC

VELOSYS

IN PARTNERSHIP

YOUR PARTNER IN TECH

WHO WE ARE

YOUR STRATEGIC TECHNOLOGY, IT, & SECURITY PROJECTS PARTNER

Silver Link Trading LLC

VELOSYS

- Global Technology and ICT solutions provider with presence in Middle East, Europe & Latam

- Qualified staff of expert and certified engineers

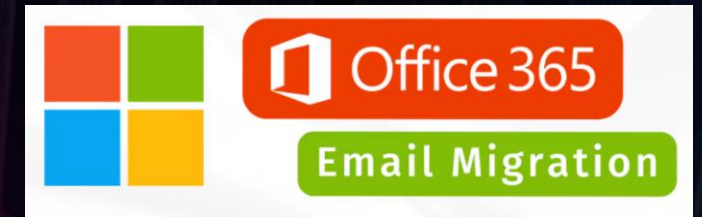- Value Proposition: We integrate solutions from conception to delivery with expertise

OUR TECHNOLOGY & PARTNERS
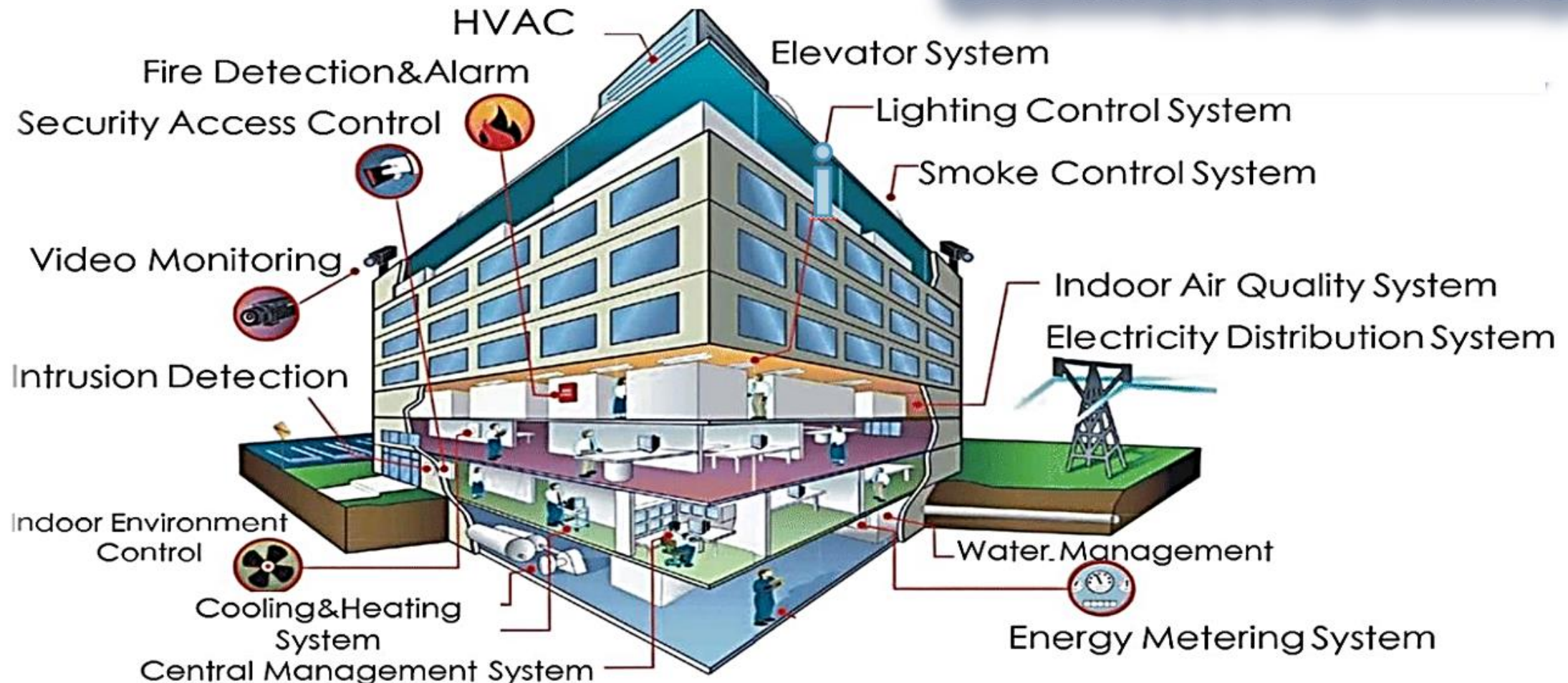
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BUILDING MANAGEMENT SYSTEM (BMS)

BMS INTEGRATES WITH DCIM

HVAC

Elevator System

Fire Detection&Alarm

Security Access Control

Lighting Control System

Smoke Control System

Video Monitoring

Indoor Air Quality System

Electricity Distribution System

Intrusion Detection

Indoor Environment Control

Water Management

Cooling&Heating System

Central Management System

Energy Metering System

Switch Objectives

Digitize building operational data so that users can remotely access data and deploy digital workflows.

Objectives of Digital Buildings

1. Reduced Operation Costs
- ✓ Operations improvements
- ✓ Systems optimization
- ✓ Lower energy, materials, maintenance, footprint costs
- ✓ Easier reporting
- ✓ Table stakes: advanced programs move beyond this

2. Improved Experience
- ✓ Occupant comfort improvements
- ✓ Leads to other positive outcomes
- ✓ Productivity, quality control, employee satisfaction, etc.
- ✓ Measurable outcomes but causal links harder to see

3. Cultural / Brand Value
- ✓ Messaging to stakeholders: investors, customers, etc.
- ✓ Internal firm cultural
- ✓ Employees want to work in sustainable enterprises
- ✓ Leading by example
- ✓ ROI difficult to quantify

4. Increased Capital Efficiency
- ✓ Optimize the portfolio of capital projects
- ✓ Targeted ROI projects
- ✓ Data driven decisions
- ✓ Life cycle cost analysis
- ✓ Large long-term impacts
- ✓ Not apparent in short term

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Building Digization Profiles

Comparative progression through a digital transformation journey

INTEGRATE BUILDING DIGITIZATION/TECHNOLOGY WITH YOUR IDEAL END PROFILE IN MIND

NO CONNECTIVITY BUILDING

- Building systems/networks are incapable of connecting to the internet.
- Systems deployed using outdated proprietary protocols no longer supported by manufacturers
- On-site, manual control

SEMI-CONNECTED BUILDING

- One or more major building system is capable of connecting to an IP network
- All systems operate in silos
- Data from isolated systems is challenging to analyze without costly data resources
- Systems use open, documented, communication protocols

CONNECTED BUILDING

- Several building systems are connected to an IP network and have a secured path to the internet
- Multiple stakeholders can view data remotely
- Data is analyzed as point-in-time (export)
- Data analysis for programming, energy optimization, and monitor equipment performance is done manually or within each individual system

INTELLIGENT BUILDING

- Building systems are integrated and create system-generated maintenance alerts
- Data analysis done in real-time contributes to daily operations and strategic decisions
- Opportunities for optimization are digitally discovered, automation is manually assisted
- Performance or impact of optimization is measurable and reportable

SEMI-AUTONOMOUS BUILDING

- Automation is planned in the building's original design
- Building systems reliably predict maintenance needs based on data trends
- All devices are programmable and controllable via a centralized platform,
- System accessed remotely by many stakeholders
- Bi-directional data sharing is enabled by an Independent Data Layer

FULLY AUTONOMOUS BUILDING

- Building devices are capable of performing automated tasks based on machine learning.
- System control is fully automated
- Building reacts to internal and external factors to self-regulate, optimize, and schedule maintenance accordingly
- Can be grid-independent through alternate energy generation
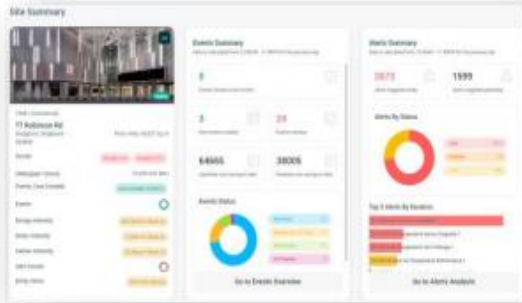
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Independent Data Layer + Application Suite

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SWITCH AUTOMATION

Connecting to disparate systems and forming the independent data layer enables a holistic approach to managing your assets

Summary Dashboards

Portfolio Benchmarking & ESG Reporting

Automated Fault Detection

Efficient Operations Across Systems

INDEPENDENT DATA LAYER

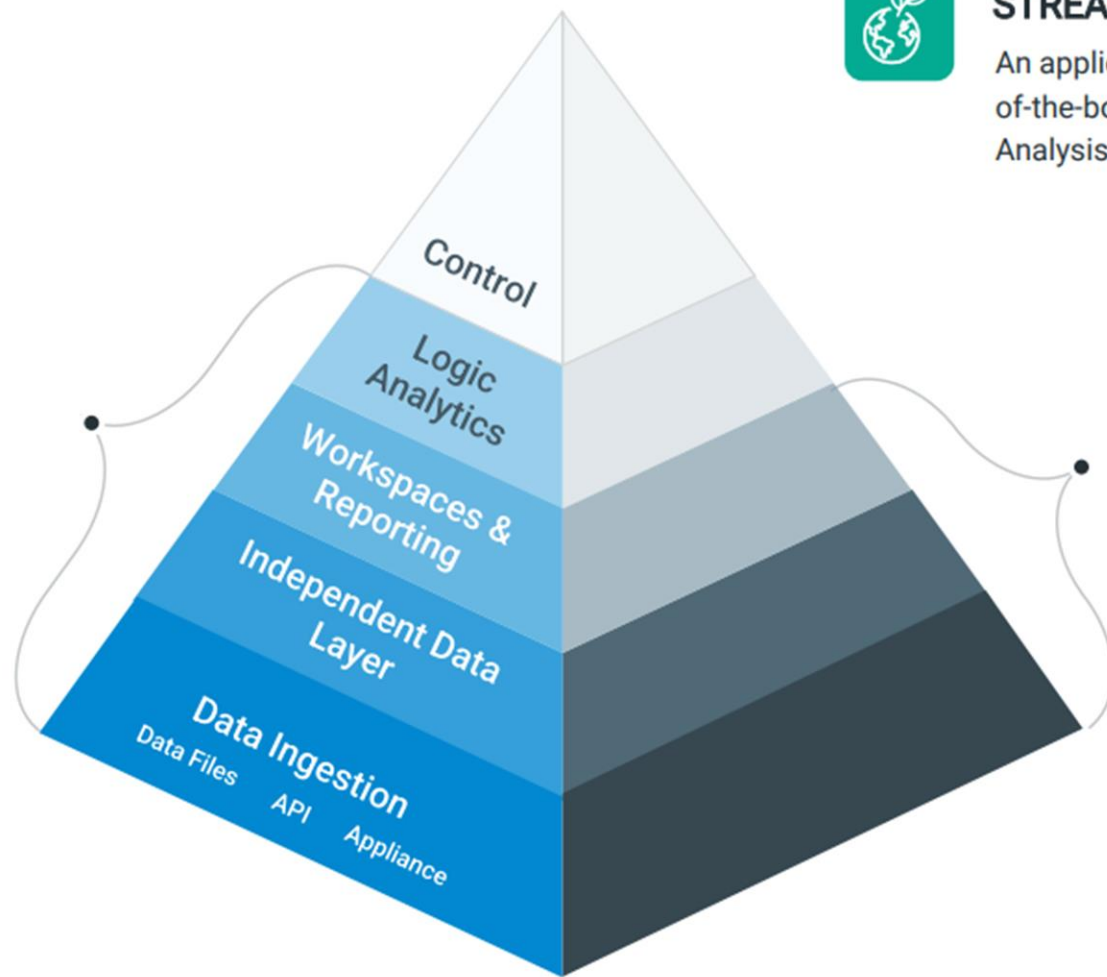HVAC   Lighting   Lifts   Metering   Access   Occupancy   Security   Fire

Data-Driven Outcomes

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ENABLE DATA ACROSS THE ENTERPRISE

Horizontal engagement and analysis of your data are enabled through normalized data sets while retaining source system's data and security.

STREAMLINE REPORTING & GOVERNANCE

An application layer that provides analysis and reporting out-of-the-box enables more powerful tools (e.g., Root Cause Analysis, WX/Climate Zone Analysis and more).

Energy Management | ESG

- ✓ Energy, water, and waste data and analysis
- ✓ Simplified reporting / data aggregation
- ✓ Supports certification and recertification
- ✓ Greenhouse gas emissions tracking (scopes 1, 2)
- ✓ Compliance and regulatory reporting supported
- ✓ Portfolio-wide benchmarking

Digitization

- ✓ Maintain a digital building logbook
- ✓ Increased productivity for facility teams, management of vendors
- ✓ Fault detection + analysis
- ✓ Track general building performance in real-time
- ✓ Control systems remotely
- ✓ Provide digital products and services

Tenant | Occupancy Retention

- ✓ Increase tenant satisfaction and comfort
- ✓ Improve brand reputation
- ✓ Simplify enterprise/portfolio-level reporting
- ✓ Deliver better quality service
- ✓ Reduce complaints with proactive maintenance

Pyramid levels (top to bottom):
- Control
- Logic Analytics
- Workspaces & Reporting
- Independent Data Layer
- Data Ingestion (Data Files, API, Appliance)

SWITCH AUTOMATION

What do we do?   **Access the same data layer at each level of management, operations, and ownership for increased trust and repeatable processes.**

Sustainability and ESG Reporting

Summary of carbon market types and geographic relevance

Market Type	Geography	Activity	Frameworks
Regulated	Mainly local, country-specific markets except for the EU	Mandatory Emissions Reporting	Emissions Trading Systems
	The Paris Agreement envisages the creation of an internationally regulated carbon market	Carbon quota trading	
Voluntary	Global	Voluntary or Market driven Emissions Reporting (carbon footprint)	
	Supports global trade, in accordance with company or country-specific pledges or customer requirements	Carbon offsetting	

Advanced A.I. enterprise platform, configurable workspaces to track and analyze ESG criteria