

WHAT WE DO

Planetbridge Ltd & USG Proposal

INTEGRATED BUILDING MANAGEMENT SYSTEMS (IBMS)

USG engineers high performance Integrated Building Management Systems (IBMS) which are centralized, interlinked networks of hardware and software. Such systems monitor and control the environment in commercial, industrial, and institutional facilities.

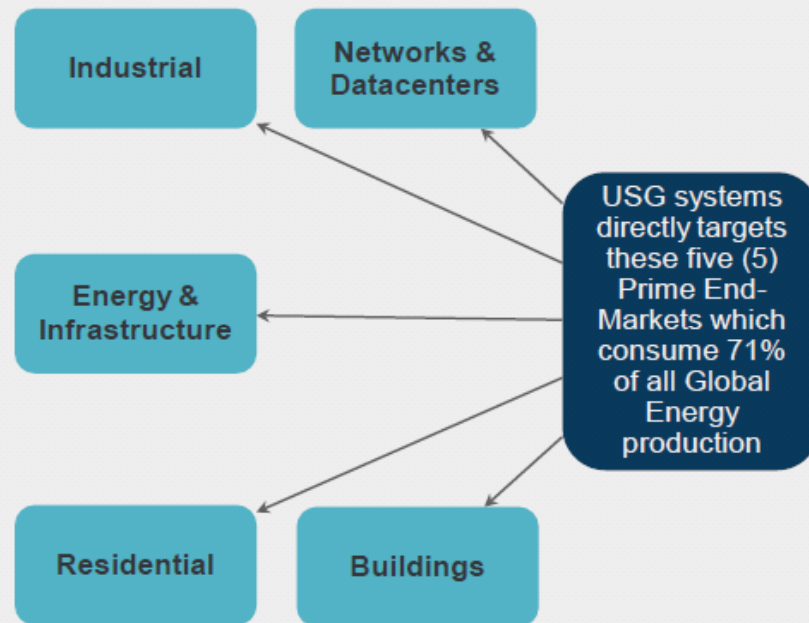
We provide critical knowledge to empower and responsibly manage various building systems through a comprehensive holistic view of a building, how the building functions and operates, and who will occupy the space.

While managing the building systems, our automation system ensures the operational performance of the facility as well as the comfort and safety of building occupants.

- Power monitoring
- Security
- Card and keypad access
- Fire alarm system
- Elevators/escalators
- Plumbing and water

- Chillers
- Boilers
- Air Handling Units (AHUs)
- Roof-top Units (RTUs)
- Fan Coil Units (FCUs)
- Heat Pump Units (HPUs)
- Variable Air Volume boxes

WE SERVE THE FOLLOWING FIVE PRIME END-MARKET SEGMENTS



USG applies key focus to the “common denominator” across multiple industries such as:

Utilities (Electricity/Water/Gas)
Smart Meters & AMI
Remote Telco Sites
Datacenters
Hospitals
Office Buildings & Complex
Transportation
Emergency Response
Shopping Malls
Factories
Hotels
Retail
Residential

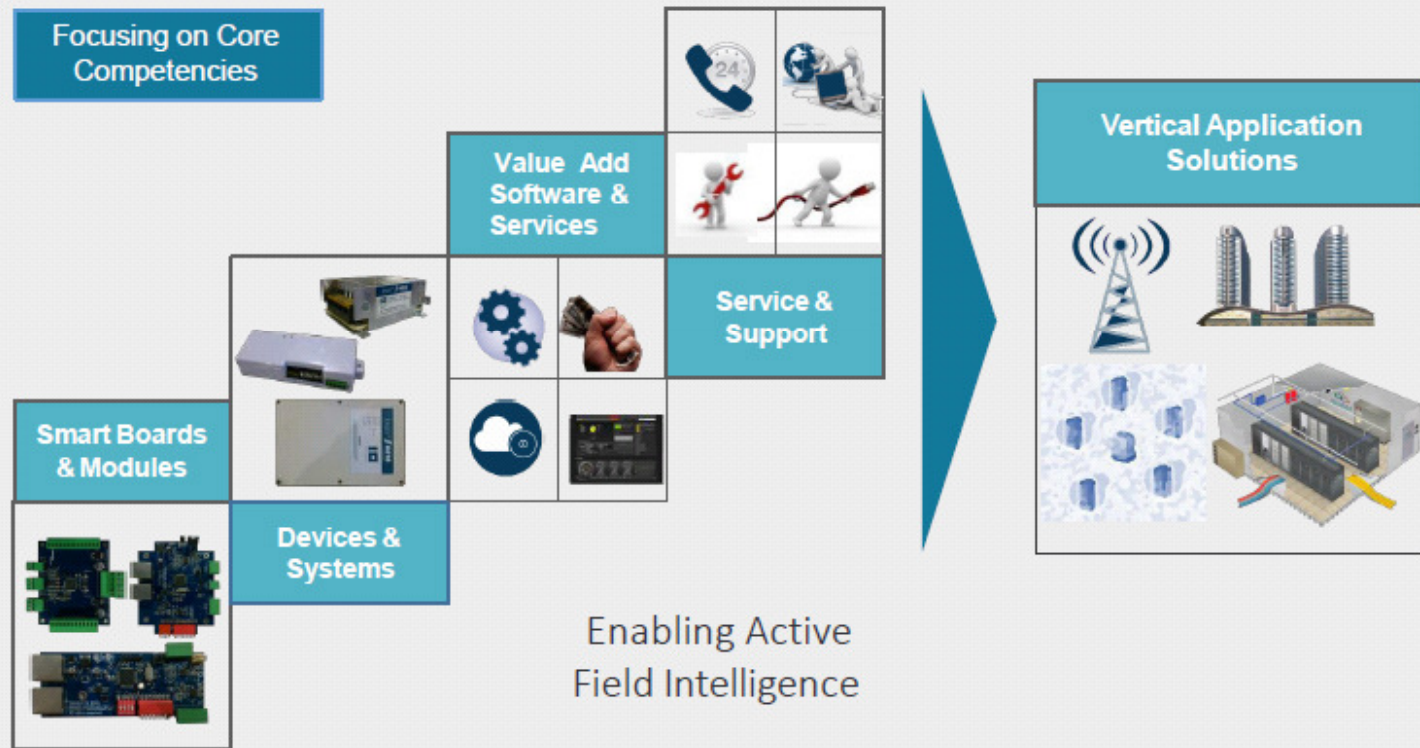


Planetbridge Ltd & USG Proposal

INTEGRATED BUILDING
MANAGEMENT SYSTEMS (IBMS)

USG VALUE PROPOSITION

Engineering smart modules, sensors and integrated solutions for a cross-industry Platform

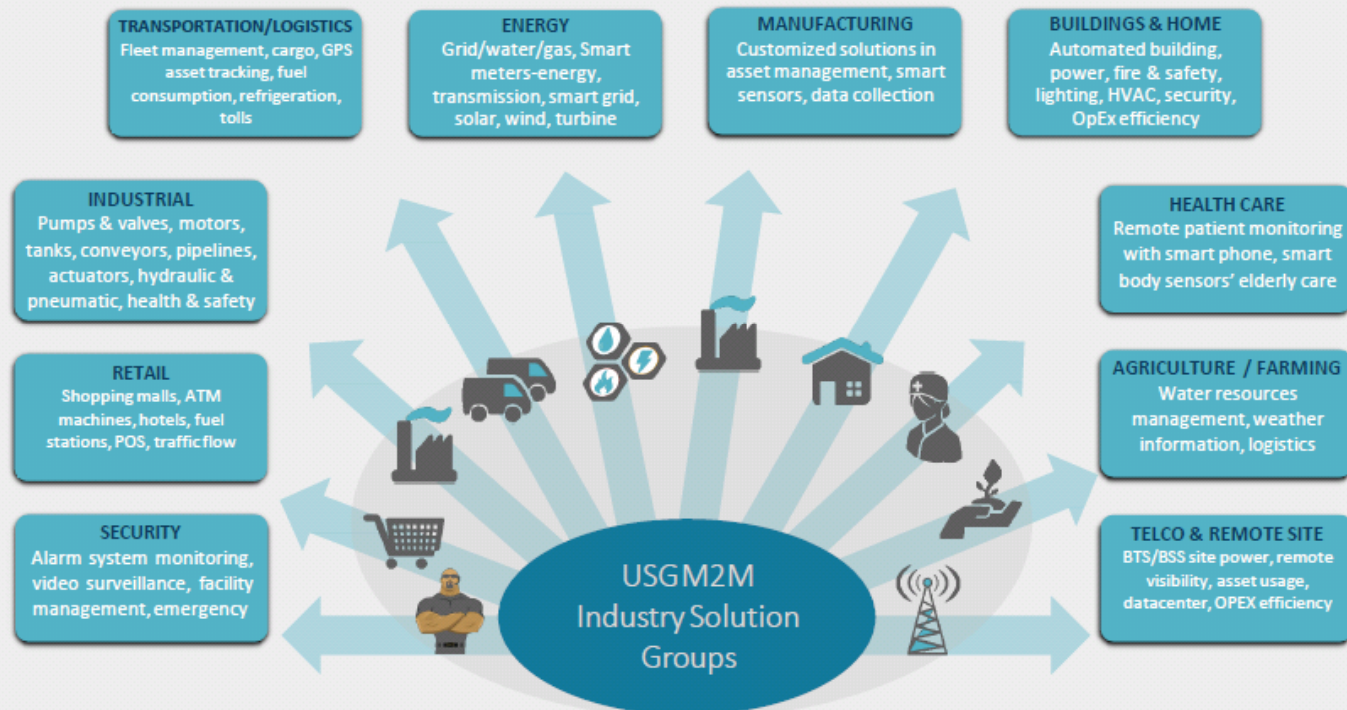


Planetbridge Ltd & USG Proposal

**INTEGRATED BUILDING
MANAGEMENT SYSTEMS (IBMS)**

USG PLATFORM EXTENDS CROSS-INDUSTRY FUNCTIONALITY

Energy input vs. Energy usage is one of the most important key OpEx concerns for any industry

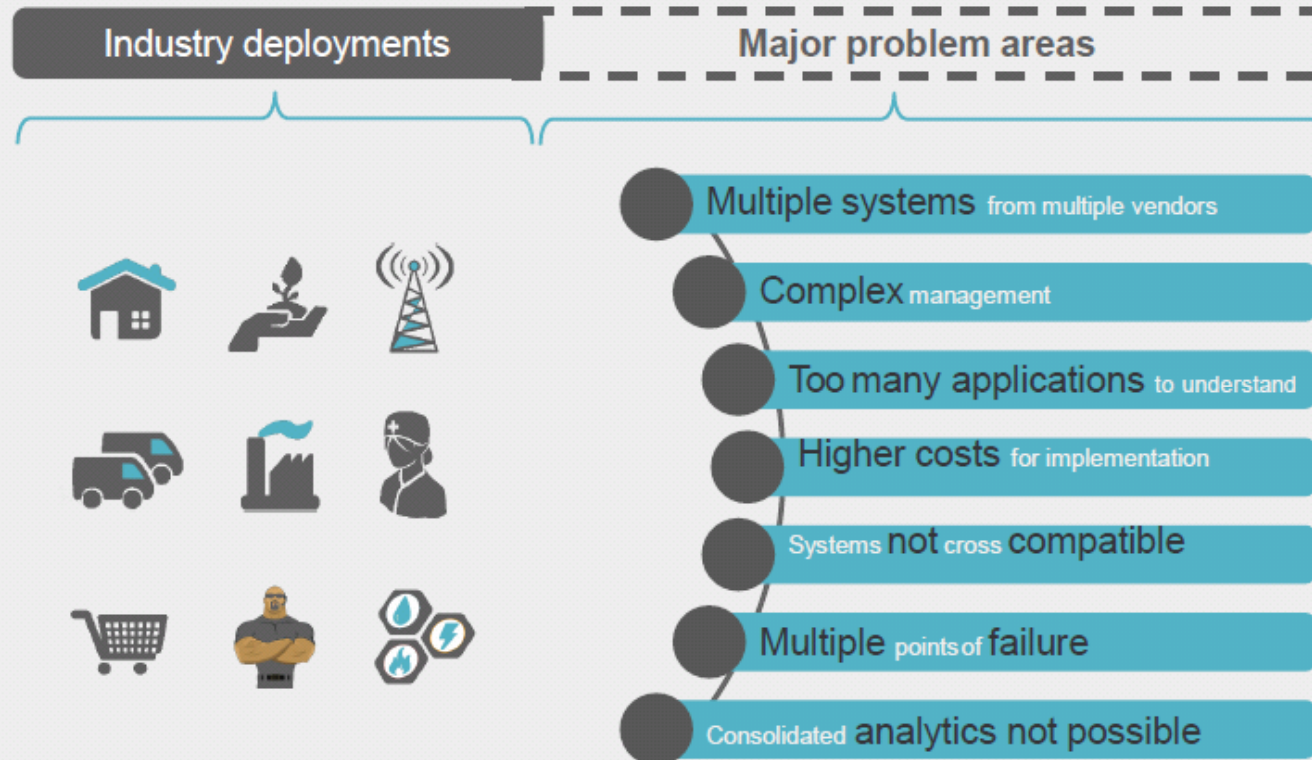


Planetbridge Ltd & USG Proposal

INTEGRATED BUILDING
MANAGEMENT SYSTEMS (IBMS)

PROBLEM WITH CURRENT SYSTEMS

Systems are isolated and non-crossfunctional

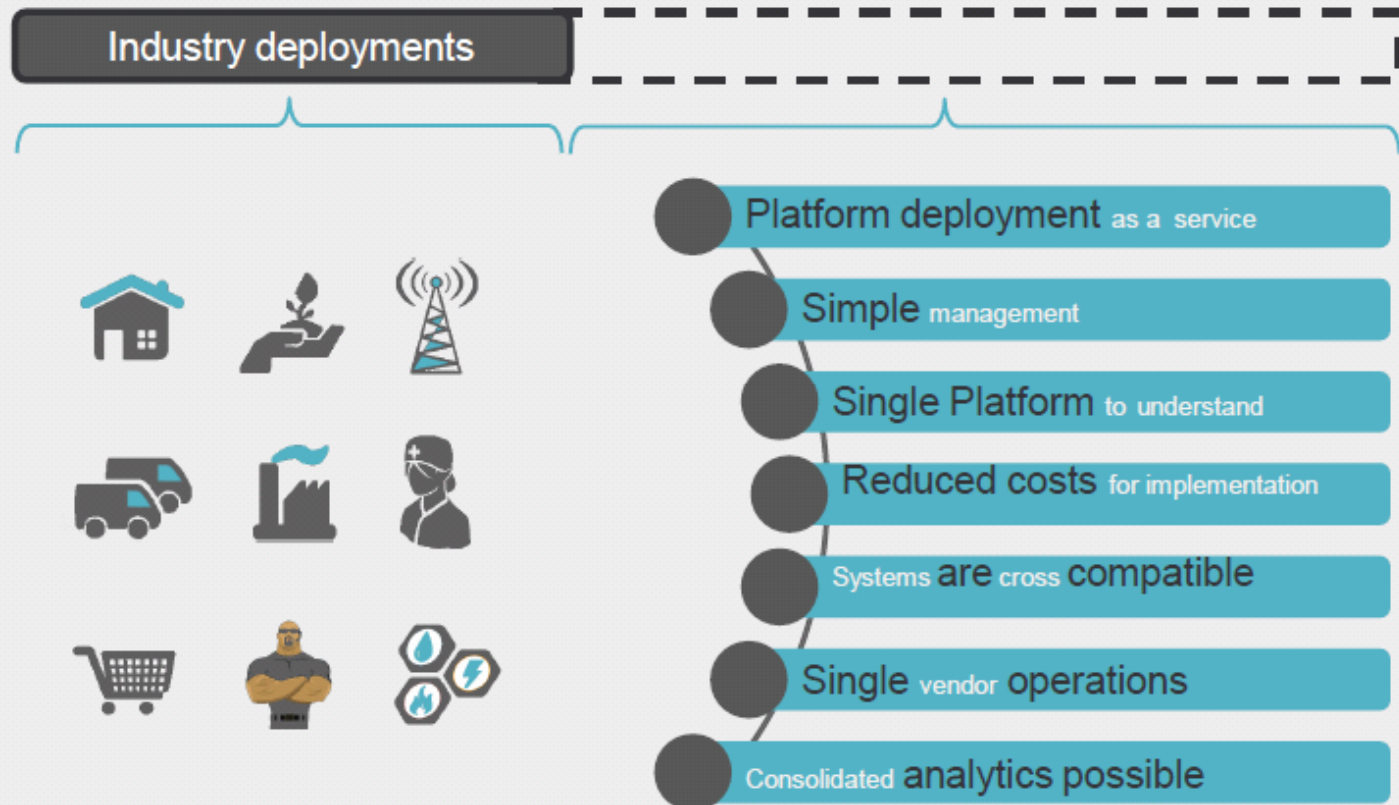


Planetbridge Ltd & USG Proposal

**INTEGRATED BUILDING
MANAGEMENT SYSTEMS (IBMS)**

USG'S RESPONSE TO CURRENT DEPLOYMENTS

Individual systems and applications along with sensory elements consolidated into a Platform



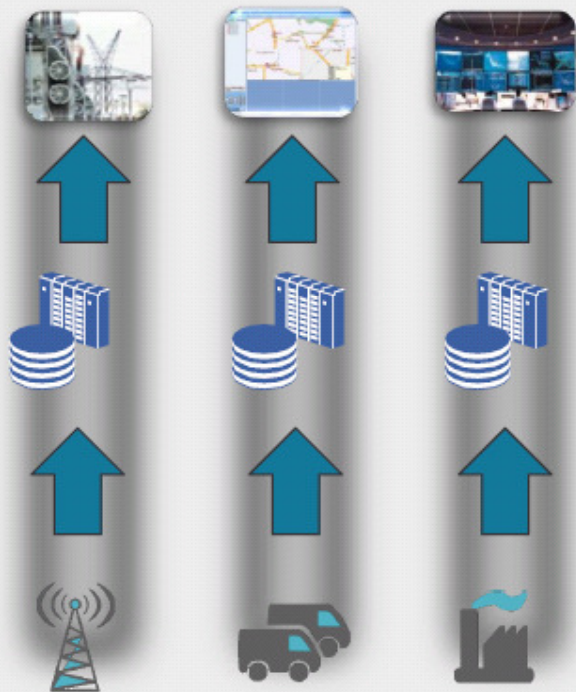
Planetbridge Ltd & USG Proposal

INTEGRATED BUILDING
MANAGEMENT SYSTEMS (IBMS)

SERVICE CONSOLIDATION

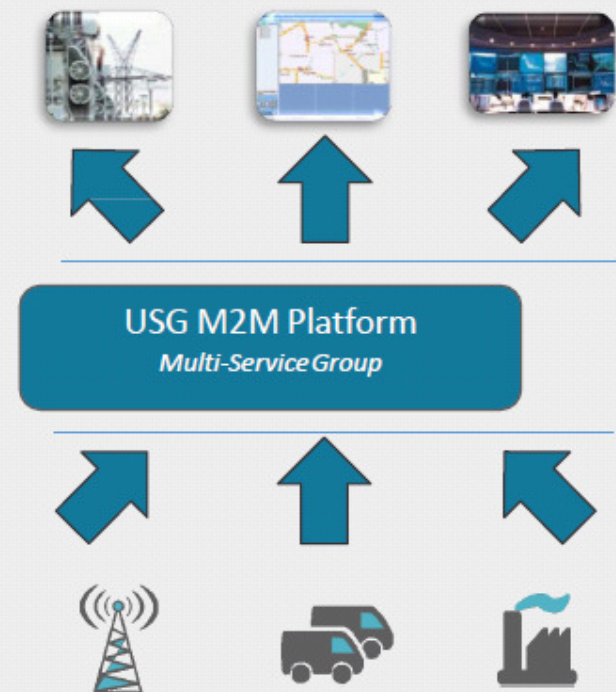
Horizontal Enablement: allowing a single platform to manage multiple services

VERTICAL MODEL - M2M Platform configured per service



Planetbridge Ltd & USG Proposal

HORIZONTAL MODEL - single platform managing all



INTEGRATED BUILDING
MANAGEMENT SYSTEMS (IBMS)

USG M2M Platform

Security

Doors, PIR, Integration, Buildings, Occupancy, Feed Forward.

Lifts

Monitor Lift Weight, Monitor Rush Hours, Smart Decision making Algorithms, Lift failure alarms, Communication with Outside world if the lift gets stuck due to Power Failure

ENERGY

AMI, Monitor voltage, current, Kwh in real-time across each independent phase, view historical usage, phase load imbalances and overall availability.

Fuel Management

Monitor various parameters of fuel loads for generators and apply pilferage monitoring.

Environmental

View temperature, humidity, rain, day/night and other environmental parameters

HVAC

Air-Heating Unit, Boilers, Pumps, Fans, Energy Control, Variable Air Volume, Air Quality

Parking Control

RFID, Parking Guide Indicators, Car Tracking in the Parking,

Lighting Control

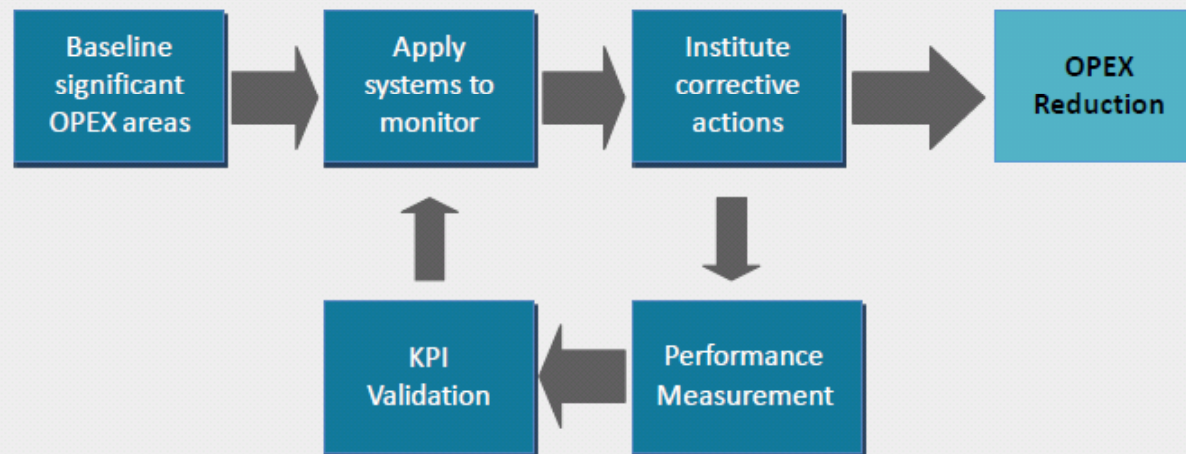
Occupancy Sensing, Auto lighting, Voice based Lighting, Scheduling, Reports, Alarms, Inter Alarms Communication

Planetbridge Ltd & USG Proposal

INTEGRATED BUILDING
MANAGEMENT SYSTEMS (IBMS)

BASELINE TO OPEX EFFICIENCY

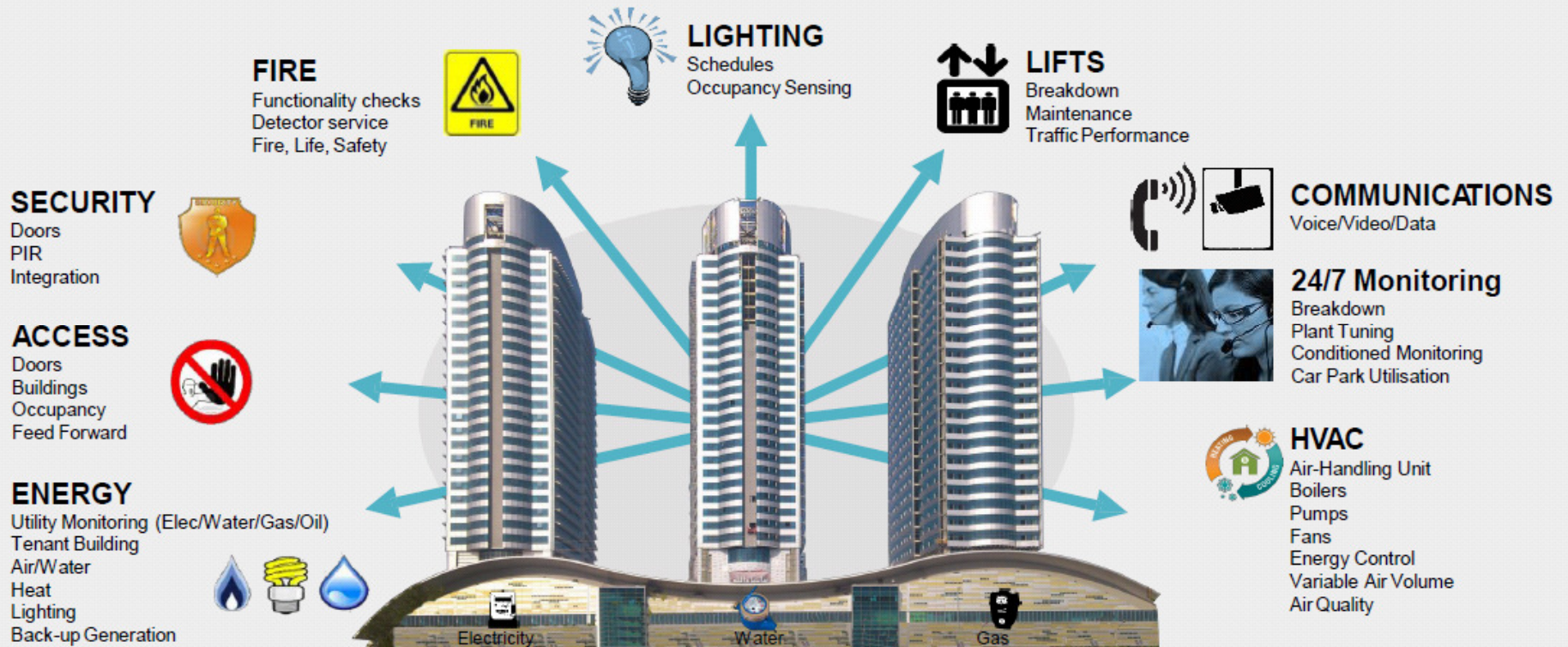
Operations, performance monitoring and fault isolation can only be achieved through clear visibility by applying appropriately placed corrective actions.



Planetbridge Ltd & USG Proposal

INTEGRATED BUILDING
MANAGEMENT SYSTEMS (IBMS)

CONSOLIDATED BUILDING INTEGRATED TARGETS



Planetbridge Ltd & USG Proposal

INTEGRATED BUILDING
MANAGEMENT SYSTEMS (IBMS)

FOR FULL PRESENTATION, KINDLY CALL: +234 809 808 2421