

STAY One

Data sheet, resume

STAY One services, resume.

a. STAY One, platform service

Expert Systems in Condos

- Platform set up
- Quality control for services
- Supplies (consumptions control)
- Cleaning (Service needs and control)
- Security / Access Control (Remote control access and security)
- Maintenance (motors and installations control)
- WIFI in common areas (ubiquitous Internet)
- IoT LPWAN net
- KPI's (Integration of: Tenants, Pattern Behavior, Condo, Common Areas, Services...)

b. STAY Green, Photovoltaic plant for self consumption

End to end service

- Study of generation
- Pre-construction documentation & negotiations
- Mounting of the supporting structures
- Solar panels and inverters installation & connection
- Connection to the grid
- Monitoring system setup
- Generation service guarantee (30 years)
- CO2 emission saving
- IBI & ICIO (bonuses)

No CAPEX required, Payback in 5 years (self consumption) Generation approx. per year 10-15K € (for 30 years)

STAY One

services, resume.

c. STAY Supply

Electricity and Water Flat Rate

- **Electricity (5.000kWh per year)**
- **Water (140m³)**

STAY Supply services and devices included

Deployment Monitoring. Signal collection and control.

- Real-time visualization of variables monitored by measurement point
- Unlimited storage of readings
- Grouping of measuring points into consumption groups / logical groups

Management module.

- Visualization of consumption, daily, weekly, monthly
- Historical hourly, daily, weekly, monthly or yearly charts
- Comparison of historical hourly, daily, weekly, monthly or annual
- Calculated parameters (averages, maximums, minimums, ...) Identification of deviations
- Reports analysis of consumption, costs and pre-invoice
- Configuration and analysis of energy costs for products and / or services (KPI'S)
- Application of the official rate system

Alarm Module

- Unlimited alarm settings
- Alarm history

d. STAY Secure

Intrusion / Occupation service

- HW need to control Home Access
- Connected to a Central Receiver Alarm

STAY One

services, resume.

e. STAY Net

Internet Access (Flat Rate)

- Infrastructure (HW, Routers, Access Points, Switches...)
- Managed Internet Access
- High speed Internet
- Ubiquitous WIFI (Internet everywhere in the building)
- Full network control
- Wireless backup & redundancy
- 24/7 support
- GDPR Compliance
- Symmetric upload and download speeds
- Internet Secure (license)
- Content filtering (if required)
- Secure Web Gateway
- Bandwidth contracted with at least 2 different ISP
- Bandwidth upgrade available, if need
- Without Contracts
- Without Commitments
- Without Permanence

f. STAY mobile connectivity (optional if there's not mobile coverage)

Mobile connectivity bubble

- Ensured mobile connectivity, regardless of outdoor coverage antennas
- DAS (distributed antenna system)

STAY One services, resume.

f. STAY Home

Home automation (Integration of: WIFI + IoT LPWAN)

- HVAC control (in/out of home)
- Home Appliances control (in/out of home)
- Home incident manager
- CO2 level alarm for Indoor Air Quality

Home Appliances (Development: from CAPECX to OPEX by a monthly quote)

- Refrigerator
- Washing Machine
- Oven
- Microwave Oven
- Dishwasher
- Cookers
- Television.
- Air Conditioning.
- CO2 Sensor
- Others

Services for Home Appliances

- Maintenance
- Replacement
- Always Connected (we'll connect not connected appliances)
- SLA 24 x 7

STAY One

KPI's

KPI's

Home entry & exit behavior patterns (unitary & aggregate).

Tenant entry / exit (household occupancy)

Hour (hourly fraction) and day of the week

Week

Month

Seasonality (variations with respect to established patterns)

Time spent at home

Total No. of Hours

Hour (hourly fraction) and day of the week

Week

Month

Seasonality (variations with respect to established patterns)

Time away from home

Total No. of Hours

Hour (hourly fraction) and day of the week

Week

Month

Seasonality (variations with respect to established patterns)

Departures less than a week (days, days of the week, month)

Departures longer than a week (days, days of the week, month)

Added tenant information

Aggregate information, tenant behavior (aggregation levels)

Added Tenants Entry / Exit (household occupancy)

Total No. of Hours

Hour (hourly fraction) and day of the week

Week

Month

Seasonality (variations with respect to established patterns)

Departures less than a week (days, days of the week, month)

Departures longer than a week (days, days of the week, month)

Similar Behavior Patterns Among Tenants.

KPI's

Tenants: inside urbanization behavior and Traceability within the Condo.

Tenant in urbanization area and habits of use common areas (unitary)
Total No. of Hours
Hour (hourly fraction) and day of the week
Week
Month
Seasonality (variations with respect to established patterns)
Tour within the urbanization per tenant
Added information on tenant use common areas
Total No. of Hours
Hour (hourly fraction) and day of the week
Week
Month
Seasonality (variations with respect to established patterns)
Agglomerations segmented by each area or common spaces
Use of common spaces (unit and aggregate)
Total No. of Hours
Hour (hourly fraction) and day of the week
Week
Month
Seasonality (variations with respect to established patterns)
Dwell time for common spaces, segmented
Agglomerations segmented by each area or common spaces
Dwell time in transit areas
Dwell time for common spaces, segmented

KPI's

Tenant Behavior within the Home. Habits and patterns of behavior.

Consumption Supplies (electricity / water)
Total No. of Hours
Hour (hourly fraction) and day of the week
Week
Month
Seasonality (variations with respect to established patterns)
Use of internet (aggregated and disaggregated information)
Bandwidth consumption
Total No. of Hours
Hour (hourly fraction) and day of the week
Week
Month
Seasonality (variations with respect to established patterns)
Navigation on established categories
Type of device
Navigator
Video streaming platforms
Telecommuting
Use of e-mail
Instant messaging
Use of social networks (category)
Check news (category)
Videos (category)
Navigation in general (categorized or not)
Setting alerts on navigation (categorized)
Online shopping (categorized)
Holidays (destination & category)
Offline consumption

KPI's

Tenant Behavior within the Home. Habits and patterns of behavior.

Use of HVAC

Inference in electricity consumption by HVAC

Total No. of Hours

Hour (hourly fraction) and day of the week

Week

Month

Seasonality (variations with respect to established patterns)

Use of heating

Inference in electricity consumption by heating

Total No. of Hours

Hour (hourly fraction) and day of the week

Week

Month

Appliance use (for each appliance)

Inference in electricity consumption by appliance

Total No. of Hours

Hour (hourly fraction) and day of the week

Week

Month

Do they cook or not?

Type of cooking by use of oven, plate, microwave

Total No. of Hours

Hour (hourly fraction) and day of the week

TV

Total No. of Hours

Hour (hourly fraction) and day of the week

Week

Month

Washer / dryer (uses)

Other devices (Alexa, Google Home, Apple Home...)

KPI's

Tenant

segmentation

by use of SNs

Age
Gender (male/female)
Place of birth
Languages
Education
Professional development
Academic background
Socio-economic level
Civil status
Type of family
Birthday
Aniversary
Away from family
Friends
New relation
Business & industries
Entertainment /hobbies
Gaming
Live events
Movies
Music
Reading
Family & relationship
Fitness & wellness
Food & beverage
Beverage
Kitchen
Type of food
Restaurants
Hobbies & activities
Art & music
Vehicles
Shopping & fashion
Beauty
Sports & outdoors activities
Outdoor recreation
Video games
Digital activities

KPI's

Clusters, roles and nodes. Structure of the network, defined in terms of activity and interaction.

Clusters (groups within the community) of Tenants by level of interaction

Composition and behavior of the Clusters within urbanization

Relationship between Clusters, Network structure (within the urbanization)

Identification of Roles within each Cluster

Roles. Degree distribution (number of connections per node)

Degree correlation

Node centrality

We identify the most influential points

Leading tenants in each Cluster

Hierarchical structure of nodes and Tenants

Clusters defined by interest groups

Cluster Activities (in & out)

Potential new Tenants by expanding audiences

KPI's

Services (facility services) + Preventive maintenance + Supplies

Areas susceptible to cleaning
Hour (hourly fraction) and day of the week
Week
Month
Seasonality (variations with respect to established patterns)
Control over required service compliance
Prediction of auxiliary support based on behavior patterns
Personal tracking within the urbanization
Rates of m^2 / h on personnel
Uptime (availability of services / machinery / facilities)
Downtime (unscheduled downtime due to unforeseen events)
Improved "downtime" ratio through prediction
Backlog (pending activities) per employee with respect to Work Plan
Total hours
Days
Weeks
MTBF – Mean Time Between Failures
Machinery / Facilities
Service personnel
MTTR – Mean Time To Repair
Machinery / Facilities
Service personnel

KPI's

Services (facility services) + Preventive maintenance + Supplies

Day & night access control (pedestrian entrance and parking)
Hour (hourly fraction) and day of the week
Seasonality (variations with respect to behavior patterns)
Tracking and residence times
Visits
Delivey
External maintenance personnel
Facilities / machinery operation
Humidity control in common areas
Temperature control common areas
CO ₂ level common areas
Savings in CO ₂ emissions in common areas
Day
Accumulated
CO ₂ emissions savings per home and ranking
PMP - Planned Maintenance Percentage (inferences in maintenance)
Improvements on preventive maintenance on each engine / installation
Reduction in visits for preventive maintenance
Predictive warnings about possible engine / installation failures
Electricity consumption (hour, day, day of the week and seasonality)
KWh per House (hour, day, day of the week and seasonality)
KWh per common area space (hour, day, day of the week and seasonality)
KWh per m ² (hour, day, day of the week and seasonality)