



HOME AUTOMATION - GSBP's Smart Campus



- **Envelope:** EarthBags
- **Home Automation Features/Equipment:**
 - Management system that allows to manage all the parameters of the house from a touch screen and from a smartphone
 - Motion detection
 - Temperature regulation via Switches
 - Air conditioning / Heating management from Touch Panel, smart phone or tablet
 - Switch to control ON / OFF lighting, roller shutters or siren
 - Lighting dimming module
- **Communication Protocol:** KNX
- **Associated Home Automation Theme:** Local Control (Disconnected)



- **Envelope:** EarthBags
- **Home Automation Features/Equipment:**
 - Does not require a home automation system: the management is done on a web server
 - ON / OFF lighting management with motion detection
 - HVAC Management
 - Management of blinds
 - Wall control screen
 - Measurement of consumption and PV production
 - Google Home voice controller
 - Wireless contacts for detection of closing / opening of doors and windows
- **Communication Protocol:** Wi-Fi – Shelly Cloud
- **Associated Home Automation Theme:** Lighting Control



- **Envelope:** Parpaing bricks
- **Home Automation Features/Equipment:**
 - Home automation system for scenario and alert management
 - ON / OFF lighting with motion detection
 - Blind management
 - Wall touch control
 - HVAC management
 - Contacts for closing / opening doors and windows
 - Flood Detection
 - Gas, smoke detector
 - Multiprotocol gateway allowing the interfacing of elements including mobile application and remote access
- **Communication Protocol:** Radio Frequency – Fibaro Technology
- **Associated Home Automation Theme:** Air Quality



- **Envelope:** Rammed earth
- **Home Automation Features/Equipment:**
 - ON / OFF and variation of lighting
 - Blind Management
 - Wall control screen
 - HVAC Management
 - Motion detection that integrates a temperature, luminosity and accelerometer sensor
 - Contacts for closing / opening doors and windows
 - Flood detection with integrated temperature sensor
 - Google Home voice controller
 - Built-in ceiling speaker
 - IP videophone
- **Communication Protocol:** API proprietary wireline protocol
- **Associated Home Automation Theme:** Thermal Comfort



- **Envelope:** Wood + insulation
- **Home Automation Features/Equipment:**
 - Mini-server
 - HVAC Management
 - Loxone Music Server
 - Sound system
 - Loxone Speakers
 - Text to Speech: Voice function allowing precise and rapid warnings / alarms (multilingual).
- **Communication Protocol:** Loxone (preoperatory protocol)
- **Associated Home Automation Theme:** Multimedia



- **Envelope:** Hemp bricks
- **Home Automation Features/Equipment:**
 - Mini-server for Tasks Management (blinds, lighting, intelligent settings, etc.)
 - HVAC management
 - Loxone Interface Air
 - Loxone Surface Touch: Control integrated directly into furniture and home surfaces. Tactile concept on a variety of surfaces: stone, wood, ceramic, glass. It allows lighting control, shading music
 - Loxone Pure Touch: Switch incorporating humidity and temperature sensors as well as a backlight for style and orientation
 - IP camera for video surveillance
- **Communication Protocol:** KNX + Loxone
- **Associated Home Automation Theme:** Remote Control



- **Envelope:** Rammed earth
- **Home Automation Features/Equipment:**
 - Mini-server
 - HVAC Management
 - NFC Code Touch: Access management for people, doors, alarms. Single use code for each family member. Code with limited duration and specific periods (visitors). Control by app. Timestamp showing code history.
- **Communication Protocol:** Loxone Solution
- **Associated Home Automation Theme:** Security



▪ **Envelope:** Concrete blocks

▪ **Home Automation Features/Equipment:**

- IoT-based PLC for instrumentation management
- Control of all parameters via an interface
- Lighting management
- Roller shutter management
- Split air conditioning management
- Sound management
- Lighting variation
- RGB module for projectors: multicolored light variation
- Audio modules for sound reinforcement
- Smart detector 10 functions
- Intercom station
- Energy meter
- Consumption and PV production measurement

▪ **Communication Protocol:** TIS (RF)

▪ **Associated Home Automation Theme:** Energy Management



- **Envelope:** Fired earth bricks
- **Home Automation Features/Equipment:**
 - Home automation box
 - Remote Controlled Sockets: On / Off Modules
 - On / Off Lighting control
 - HVAC Management
 - Micro Receiver for rolling shutters management
 - Light Intensity sensor for lighting variation
 - Detectors: Door opening detector, Smoke detector, Motion detector
- **Communication Protocol:** RTS (RF)
- **Associated Home Automation Theme:** Smart HVAC Management

