

## Smart City Project in Freiburg, Germany



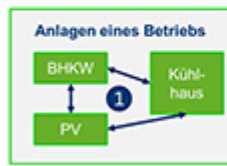
The project is targeting the industrial parks of three cities - Freiburg i.B., Offenburg and Lahr in Germany. The first installations of smart devices / solutions will be done in Freiburg, which is located in the southern part of Germany, near Basel (CH) and Strasbourg (F).

The project will make commercial buildings (companies, parks, restaurants or other professional institutions) smarter, by improving their energy efficiency and / or security of the buildings and its property.

Approximately 100 building (approx. 300 in total) are going to be part of the project in the first round. These industrial buildings are part of the Freiburg industrial area in the northern part of Freiburg.

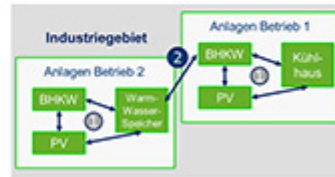
The goal of the project is to install smart device / sensor in the industrial building to address the target applications and owners main topics - energy and security / safety. All the smart devices and solutions shall be connected by a wired or wireless network. There are three levels of network topologies in the industrial area.

## Business Opportunity for IP500 OEMs and Partners



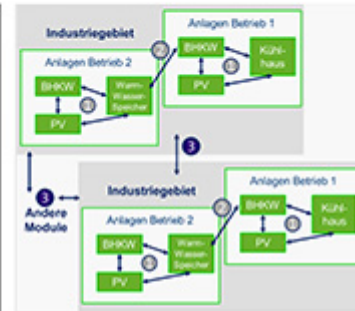
**Networking in the Building:**

- Climate control
- High temperature heat pumps
- Thermo electric Elementes
- Building monitoring
- Security and Safety in Buildings



**Networking between Buildings**

- WAN Networking (GPRS, SCADA)
- Secure wireless network to combine smart devices
- Distribution of Energy
- Cooperation of Energy usage
- Security and Safety between Industry buildings
- Enable cloud based solution
- Mobile electric and thermal storages (heat-taxi)



**Networking between Areas**

- Monitoring and combined info of various senses (CO2, temperature)
- Combination with other projects in the Region
- Cooperation in development between partners

5/1/2016

RegioWIN „Smart-Industry“ - IP500

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The Smart City Project "RegioWIN" invites all IP500 OEMs and partners to offer, provide and install their smart devices, solutions and systems, as well as to provide their services. Over 10.000 OEM solutions connected in the IP500 network are planned to be installed in over 100 commercial buildings. The goal is to install the smart devices in all 300 buildings.

In a next step, this project becomes a reference for all other utility organizations in Germany. After first installations in Freiburg other industrial parks / areas will be approached in the same way, so volume of the IP500 OEM solutions will increase significant.

Because all buildings and industrial areas are already in existence, wireless connectivity is an important factor in these projects. The installation of the wireless connected IP500 OEM products is therefore much easier and cost effective.

The system planning and installation of the IP500 devices and systems will be done by the IP500 partners and system integrator, as well as local installers.

The Holding Company has received financial support (fund) from the German government to support this project and drive innovation in target applications.

Uses cases and specific product information about the IP500 Wireless OEM products will be promoted and demonstrated to all the building owners & facility management. The building owner have then the opportunity to improve their individual topics - like energy efficiency or security of their buildings.

The target applications for the IP500 OEM solutions are:

Major Topics	Target Applications	IP500 OEMs & Partners
3.1 Building Automation Safety & Security	3.1.2 Access & Exit Control 3.1.3 Emergency alarm devices 3.1.4 Smoke detection 3.1.5 Window and door sensors 3.1.6 Heat Release Solution 3.1.7 Evacuation 3.1.8 Elevator control in fire	
3.2 Comfort and logistics	3.2.2 Energy efficiency sensors 3.2.3 Office light solutions 3.2.4 Area Light Systems 3.2.5 Access control solutions (doors) 3.2.6 Wearables and Asset Tracking 3.2.7 Mobile Device & Tablets	
3.3 Infrastructure & visualization	3.3.1 IP500 Office Switch Infrastructure 3.3.2 IP500 / GPRS Infrastructure 3.3.3 Data base & Dashboards	

All these topics and applications are dependent on the individual situation and requirement of each individual building or area. Therefore the project owners will analyse the need of each building / industrial area, and will then promote and offer the IP500 OEM solution which fits best to the identified situation.

## Responsible Persons and Time Schedules

The overall milestones to make the Project Logano a success require a well-organized and well-defined process schedule. The responsible persons for the entire project are:

Company	Name of Person	Contact for
badenova	Peter Meyer	Leadership of the project
badenova	Michael Artmann	Local contact in Freiburg
IP500	Helmut Adamski	General topics
IP500	Markus Link	Technical topics

## Time Schedule

The time schedule of the project "RegioWIN" is set by the confirmation of the following activities:

- Establishment of the project team
- Receiving the fund / financial support from government
- Availability of OEM solution and IP500 infrastructure
- Implementation of the OEM solution in product catalog
- Demonstration of OEM solutions to building owners
- Purchase of the IP500 OEM products by the Holding Company
- Installation of the IP500 solutions
- Providing services (incl. Data Base and Dash Board solutions)

Badenova and the IP500 will organize regular meetings to coordinate all the activities and milestones. All IP500 OEMs and partners will be invited to participate in the regular project calls, meetings and workshops.

The project activities and its progress will also be presented on a regular basis at the IP500 Main Meetings. All technical issues will be discussed and addressed in the IP500 Tech Workshops.

## Contacts & Information

Please contact us (IP500 Board or office) for more information:

Phone & E-mail of the IP500 Board:

Helmut Adamski  
+41 79 564 89 59  
[Helmut.adamski@ip500alliance.org](mailto:Helmut.adamski@ip500alliance.org)

Markus Link  
+49 173 308 4536  
[m.link@link-gmbh.com](mailto:m.link@link-gmbh.com)

or

Susanne Woelk  
Office Management  
IP500 Alliance e.V.  
Wittestrasse 30 K  
D-13509 Berlin  
Germany  
Office : +49 (0)30 - 43 572 584  
Fax: +49 (0)30 - 43 572 400  
email: [office@ip500alliance.org](mailto:office@ip500alliance.org)  
Web: [www.ip500alliance.org](http://www.ip500alliance.org)  
Berlin Charlottenburg, Registration Number: VR 29994

**IP500 Alliance e.V.**  
Wittestrasse 30K  
D- 13509 Berlin  
Tel.: +49 - 30 - 43 572 584  
Fax: +49 - 30 - 43 572 400  
[info@ip500alliance.org](mailto:info@ip500alliance.org)