1. **Partner**

|  |  |  |
| --- | --- | --- |
| Participant No | Participant organisation name | Country |
|  | Hochschule für Technik und Wirtschaft Berlin | Germany |
|  | Green with IT / Cluster Berlin | Germany |
|  | InWIS Forschung & Beratung GmbH | Germany |
|  | Kieback & Peter | Germany |
|  | Cluster Hungary (Budapest)* 5.0 Archenergy Szeged cluster energy efficiency
* 5.1 EMI Szentendre tec energy efficie
 | Hungary |
|  | Cluster Spain (Catalonia)* Ecoserveis housing energ efficie 4000 households 25 EU-projects
 | Spain |
|  | Cluster Ireland (Dublin)* MEGA assc. Integr. Model city
 | Ireland |
|  | Cluster Italy (Turin)* 8.0 Enviropark cluster PPP
* 8.1 AMET tec automotive
* 8.2 CASE social housing Piemonte
 | Italy |
|  | Cluster Spain (Andalousia, Murcia, Canares, Extremadura, Asturias)* 9.0 HABITEC Andalousia managing pilots housing energy efficiency
* 9.1 CLANER Andalousia energy efficiency FAMP
* 9.2 idener Andalousia app ict energy
* 9.3 CitiZem demonstrators dissemination Murcia incl. REGENERA
* 9.4 Cluster Energia Extremadura energy consumption 10 EU projects
* 9.5 CTIC Gijon dissemination therm dynamic behaviour
* 9.6 innovalia Canares pilot housing
 | Spain |
|  | Cluster Finland (Tampere)* TAMK future proj. energy efficie
 | Finland |

1. **Estimated amount of flat units (vouchers 150 each) to the clusters**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Participant No | Participant organisation name | Amount of vouchers | Amount of entities | Amount of Flats | climate zone |
| 1.      | Green with IT / Cluster Berlin | 1 | 1 | 150 | mid |
| 2.      | Cluster Hungary (Budapest) | 1 | 2 | 150 | mid |
| 3.      | Cluster Spain (Catalonia) | 1 | 1 | 150 | south |
| 4.      | Cluster Ireland (Dublin) | 2 | 1 | 300 | atlantic |
| 5.      | Cluster Italy (Torino) | 1 | 1 | 150 | south |
| 6.      | Clusters Spain (6) (Andalousia ff.) | 2 | 6 | 300 | south/mid |
| 7.      | Cluster Finland (Tampere) | 2 | 1 | 300 | north |
|  |   | **10** | **6 coutrs** | **1500** | **4 climt zones** |

1. **Allocation work packages**

|  |  |  |
| --- | --- | --- |
| Participant No | Participant organisation name | Work packages/Tasks |
|  | **HTW Berlin** | **Project coordinator and management, API, Technology transfer, Open ResKit** |
|  | Green with IT / Cluster Berlin | Cluster management Germany, API, sdk, building simulation template, preparation of the templates in regions, technology transfer |
|  | InWIS Forschung & Beratung GmbH | Social Sciences lead, transfer to the regions, user behaviour change documentation |
|  | Kieback & Peter | Hardware supply and implementation, basic engineering and evaluation methods |
|  | Cluster Hungary (Szeged, Szentendre) | Cluster management Hungary, cooling matters (sc.) by EMI |
|  | Cluster Spain (Catalonia) | Cluster management Catalonia,  |
|  | Cluster Ireland (Dublin) | Cluster management Ireland |
|  | Cluster Italy (Turin) | Cluster management Italy |
|  | Clusters Spain (Andalousia, Murcia, Extremadura, Asturia, Canares) | Cluster management Andalousia, Murcia, Extremadura, Asturia, Canares, cooling matters(sc.) by univ. Sevilla |
|  | Cluster Finland (Tampere) | Cluster management Finland |

|  |  |
| --- | --- |
| Work packages | Description |
| Project management | * Contract management
* Financial management and project administration
* Coordination steering committee
* Implementing tenders and subcontracting
* Coordinating dissamination
* Data base OpenResKit for all regions
 |
| Cluster management | * Member steering commitee
* Leading and linking contact to the housing companies, front end all regional contacts/impacts to project management
* Organisation of social/tenant/engineering/it- meetings
* Implementation of tenders, Review of applications, Report to the coordinator,
 |
| API | * Adaption of the surface of the intended myflat-Software
* Intel safe chip with EnOcean platine following common criteria
* Vizualisation of power/heating/boiler/water consumption
* Adaption to OpenReskit (<http://openreskit.htw-berlin.de/>)
* Adaption of the specifications
* Creation of the target specification sheet
* Integration of regional services third parties (weather information, public transport, medicine, shopping, calendar services, restaurants, cinema, Taxi)
* Integration of heating cost files
 |
| Cooling | * Implementing cooling matters into the single room management system, needed customizing from TRL 8 to TRL 9
 |
| Social sciences | * Coordinating tenant queries/meetings following InWis templates
* Recording of data using templates
* Central conference at InWIS/foolowing meeting in region
* Preparation and evaluation of customer-satisfaction tables
* Documentation
* Front end to housing company in social matters
 |
| Hardware supply and implementation | * Supply of the working pair ( presence driven single room management)
* Supply of the Smart Meter/Smart Meter Gateway and the compound regulator
* Administration/Installation together with housing company representative
* Scaling up interoperable single room matters to interoperable quarter management software
* Integration kit central management controlling
 |
| Building simulation | * As-is-analysis (Mass and infrastructure)
* Modelling of the current state
* Inclusion of the [innovativ single room technology](http://green-with-it.com/wp-content/uploads/2016/09/02-2016_09_14_presentation_-green_-with__IT_EnviroInfo_II_snp.pdf) and „ladedr of success“ in the model
* Analysis, evaluation of the CO2-masses, Illustration for national carbon footprint
* Adaption of the illustration of carbon footprint to national standards and guidelines (translation, description of the national heat cost allocation, description of the data transfer)
* Direct comparison and report
* Meetings with national engineers/scientists
 |
| Engineering in the regions | * Supply of hardware for housing companies/assistance fitting
* Controlling and steering of plant engineering: Installation of the hvac-modules in the flats
* Risk management (guarantee of functionality)
* Identification/contact of the craftsmen
 |
| IT in the region | * Application system development kit (sdk) by Android and IoS
* Programming myflat from provided template and specification sheet for local as housing company brand/system specification
* Assisting quarter management software application
* Integrating local third partiy providers in ref-processes
 |

1. **Role of the partner in the Work packages**

|  |  |
| --- | --- |
| Work packages | Partner |
| Project coordinator | HTW |
| Cluster management | * Green with IT (Cluster Germany)
* Cluster Hungary (Szeged, Szentendre)
* Cluster Spain (Catalonia)
* Cluster Ireland (Dublin)
* Cluster Italy (Turin)
* Clusters Spain (Andalousia ff.)
* Cluster Finland (Tampere)
 |
| API-implementation | * HTW
* Green with IT/BSC
* Cluster Spain (Uni Sevilla), Cluster Finland (Uni Tampere)
 |
| Cooling | * Cluster Hungary (EMI)
* Cluster Spain (Univ. Sevilla)
* Green with IT
 |
| Hardware supply and implementation | * Kieback & Peter (lead)
* Green with IT (Cluster Germany) , mediator
* Cluster Hungary (Budapest) , mediator
* Cluster Spain (Catalonia ff) , mediator
* Cluster Ireland (Dublin) , mediator
* Cluster Italy (Turin) , mediator
* Clusters Spain (Andalousia ff.) , mediator
* Cluster Finland (Tampere) , mediator
 |
| Social sciences | * InWIS (lead)
* Green with IT (Cluster Germany), mediator
* Cluster Hungary (Budapest), mediator
* Cluster Spain (Catalonia), mediator
* Cluster Ireland (Dublin), mediator
* Cluster Italy (Turin), mediator
* Cluster Spain (Andalousia ff.), mediator
* Cluster Finland (Tampere), mediator
 |
| Building simulation  | * Kieback & Peter (Cluster Germany) (lead tec.)
* Green with IT (lead appl.)
* HTW (assist. tec)
* Cluster Hungary (Budapest) , mediator
* Cluster Spain (Catalonia) , mediator
* Cluster Ireland (Dublin) , mediator
* Cluster Italy (Turin) , mediator
* Cluster Spain (Andalousia ff.) , mediator
* Cluster Finland (Tampere) , mediator
 |
| Engineering in regions | * Kieback & Peter (Cluster Germany) (template)
* Green with IT, mediator
* Cluster Hungary (Budapest) , mediator
* Cluster Spain (Catalonia) , mediator
* Cluster Ireland (Dublin) , mediator
* Cluster Italy (Turin) , mediator
* Cluster Spain (Andalousia ff.) , mediator
* Cluster Finland (Tampere) , mediator
 |
| IT in regions | * Kieback & Peter (Cluster Germany) (template)
* Green with IT, mediator
* Cluster Hungary (Budapest) , mediator
* Cluster Spain (Catalonia) , mediator
* Cluster Ireland (Dublin) , mediator
* Cluster Italy (Turin) , mediator
* Cluster Spain (Andalousia ff.) , mediator
* HTW (templates, OpenResKit)
 |

1. **Work packages/deliverables clusters region**
* Obtaining social housing companies 30% co- financing acceptance (LOI)
* Pass-through all details of experiences in projects/references to coordinator
* Mediating contacts to science, engineering, social science, ict, energy efficiency tec.