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.