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**Building Integration of Solar Thermal Systems – TU1205 – BISTS**



# Working Groups Presentation


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# Benefits of integration

- Generally, the benefits of building integration are:
  - **Building envelope** – metal, glass or ceramic used in current BISTS roofing designs can last for more than 50 years.
  - **Thermal and optical performances** – different systems can deliver different levels of thermal energy to match the varying needs of building occupants.
  - **Costs** – Significant savings occur by replacing two separate systems (e.g. wall and collector) with one system that performs both functions.
  - **Aesthetics** –mimic the existing appearance of traditional roofing systems and apply **colour collectors** on façades.

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- Therefore BISTS must provide a combination of the following:
  1. Mechanical rigidity and structural integrity.
  2. Weather impact protection from rain, snow, wind and hail.
  3. Energy economy, such as useful thermal energy, but also shading and thermal insulation.
  4. Life expectancy from the various materials involved (at least equal to the life of the building)
  5. Fire protection.
  6. Noise protection.
- Generally a multidisciplinary area involving engineers (mechanical, materials), physicists, architects, etc.

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## WG4 – Dissemination

- Responsibilities of this WG is to organize and manage the Action website, Short Term Scientific Missions (STSM), Training Schools and Symposium (each Early Stage Researcher will present his/her work published as papers in a booklet) and co-ordinate the international conference, publication of journal papers and publication of the handbook on building integration of STS and solutions.
- These responsibilities of WG4 will be achieved through the following tasks:
  - **Task 4.1 – Organisation and coordination of Action events**
  - **Task 4.2 – Coordination of Short Term Scientific Missions (STSMs)**
  - **Task 4.3 – Creation and management of Action website**



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## TASKS – WG4:


- Organisation of all meetings and related minutes reports: **SG**
- Completion of 4 STSMs: **STSM Manager**
- Organisation of Action Symposium (end of the 2nd year): **SG**
- Organisation of Action Conference (end of the 4th year) and production proceedings CD: **SG + Conference Organising committee**
- Creation and maintenance of the Action specific website with both secure and public access: **CUT**
- Scientific journal and conference and trade publications: **Editorial Board (part of WG4)**


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## Taxonomy of BISTS. Case Studies Standards for Testing and Performance


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## Deliverables by end of April 2014


- Essential: Associated Projects
- Design
- Planning for future Agenda
- Networking (eg posters, presentations, comms)
- Symposium, Conference, Parallel session year 2



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## Deadlines & Tasks

- Deliverables versus MOU on Target
- Mid to end of April 2014
- WG1 developments and goals
- WG2 developments and goals
- WG3 developments and goals
- W G4: reports on activities and progress to date
- Case Studies



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