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Dear Subscriber,

we are proud to present to you the second HOLISTEEC project newsletter. It will bring you information about the events, outcomes and planned activities.

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With best regards,

Eduard Mrazek
Dissemination Manager



Holistic and Optimized Life-cycle INTEGRATED SUPPORT FOR
ENERGY-EFFICIENT building design AND CONSTRUCTION

HOLISTEEC Newsletter #4

FROM THEORY TO PRACTICES OF BUILDING DESIGN WORKSHOP

CIB World Building Congress 2016 - Small auditorium, Tampere hall

Wednesday, 1st June from 13.30 to 15.30

Invitation to a workshop organized by HOLISTEEC project

HOLISTEEC Consortium is pleased to announce the Workshop “**From Theory to Practices of building design: a proposal by HOLISTEEC project**” dedicated to presenting a **full life-cycle aware novel design methodology for buildings**. The workshop will take place within the context of the CIB World Building Congress 2016 in Tampere in the Small Auditorium of Tampere Hall, Finland on the 1st of June 2016 from 1:30 pm to 3:30 pm.

Take part in the event by registering at:

[HOLISTEEC WORKSHOP REGISTRATION LINK](#)

The Workshop is organized by HOLISTEEC Consortium and more details and the [preliminary agenda](#) of the event are available in the project website at <http://www.holisteecproject.eu/> and in the next pages.

HOLISTEEC in brief

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The **HOLISTEEC** project aims at providing the European AEC/FM industry with a comprehensive design approach taking into account the whole building life-cycle and the influence of the neighborhoods, with the objective to make a decisive contribution to built environment energy efficiency improvement.

By means of **HOLISTEEC**, all the actors involved in the building value chain including architects, designers, contractors, owners, component suppliers, users and related public authorities will be able to effectively interact in the different design, construction, operation, and maintenance phases of the building, ensuring that the best construction techniques are applied, possible problems and drawbacks early detected and correction strategies promptly applied, contributing to boost high quality new energy efficient buildings design and construction.

The main objective of the project is to **design, develop, and demonstrate a BIM-based, on-the-cloud, collaborative building design software platform**, featuring advanced design support for multi-criteria building optimization, taking into account external neighborhood-level influences.

The Methodology

In the framework of the project, the first step towards the optimization of the overall building design process has corresponded to the definition of a "**full life-cycle aware**" **novel design methodology**. The developed methodology is based on:

- *Collaborative and integrated approach* in order to involve in the decision-making process all the strategic stakeholders, increasing the harmonization among the design of the different building design components
- *BIM (Building Information Model) use since the early design stages* as a common basis on which rely on in order not to miss or duplicate information over the whole project implementation
- *A performance-based approach* so that to emphasize the setting of project targets as functional targets of end product (building) and evaluate the fulfillment of these targets during design, construction and operation (CIB, 1982). This approach enable to take into consideration and integrate *acoustic comfort, visual comfort, indoor air quality, thermal comfort and energy efficiency*
- *The use of multi-criteria design tools* (in the framework of a BIM-based collaborative software platform) able to process information at different level of detail and to implement simulations on the basis of a building information model whose level of development is varying over the project development (i.e. benchmark tool at early design stages, simulation tools/calculation engines from concept design phase)
- The definition of a *performance evaluation framework in terms of Key Performance Indicators (KPIs)* both at building and neighborhood scale.

Why taking part in the workshop?

The workshop targets stakeholders involved in the activities related with building design processes: Building owners, Construction managers, Architects, Engineers and Contractors, Facility managers and building permitting authorities.

Participants will be able to get information on:

- The latest developments of best practices in building design methodology.
- The latest advancements in software and tools development for building design processes.
- Few examples from demonstration activities of tools developed within HOLISTEEC project to support stakeholders in NIM model definition, in communication management for the BIM processes and in KPI management for a performance based evaluation of building design models.

FROM THEORY TO PRACTICES OF BUILDING DESIGN - AGENDA

CIB World Building Congress 2016 - Small auditorium, Tampere hall

Wednesday, 1st June from 13.30 to 15.30

In order to present the HOLISTEEC Building Design Methodology (BDM) to a wider public and get feedback on it, the Consortium is organizing a workshop, during which main characteristics of the methodology will be presented and comments from the audience will be collected. The different presentations will be organized by different partners according to the following agenda.

Title: From Theory to Practices of building design: a proposal by HOLISTEEC project

Session 1: "The theory"

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-
- o BIM-based
 - o multi-domain performance assessment
 - o win process for all involved stakeholders
 - o flexible to delivery methods
 - **SENAATTI – Mirkka Rekkola:** Main benefits of using HOLISTEEC BDM: Indicators to quantify benefits with respect to other BIM methods. (15 minutes)
 - Mini Survey and Question and Answer (15 minutes). We would like to circulate a short survey (4-5 questions about the previous presentation to verify the comprehension of the public) and have some questions from audience.

Session 2: “The practice”

- **GEM - Gamal Kira:** Short demo about the dashboard and the HOLISTEEC Platform overall (15 minutes)
- **VTT - Mikko Tuomisto:** Presentation of the KPI tool: objectives, inputs/outputs – short demo (15 minutes)
- **TECNALIA – Asier Mediavilla:** NIM Approach within HOLISTEEC Platform. Short demo about first results on some buildings test. (15 minutes)
- Mini Survey and Question and Answer (15 minutes). We would like to circulate a short survey (4-5 questions about the previous presentation to verify the comprehension of the public) and have some questions from the audience.

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