The SAP Next-Gen Chapter Real Estate

Purpose

At the moment 14.5 million employees provide services around buildings in Europe. Another 10 million are engaged in this sector in the U.S. These are only the employees that provide outsourced facility services. We would have to add the employees working for the tenant/user companies to this number.

Considering only the outsourced service providers, they employ around 10% of the total workforce in Europe and U.S. In Europe this is the 3rd largest sector in the EU (European Commission/Eurostat last modified 2017).

In the Frey and Osborne study of 2013, the following is stated: Mainly due to technological progress in machine learning, mobile robotics within the 702 occupations analysed computerization will substitute 47% of current jobs. Low-wage and low-skills jobs are more likely to be affected. Therefore, typical FS activities are at very high risk. Examples are

- Installation, maintenance, repair work: 50% probability to be automatized,
- janitors and cleaners: 66% probability
- first-line supervisors of housekeeping and janitorial workers: probability of 94%.

According to Bowles 2014 54% of jobs in the EU and 59% of jobs in Germany are at risk to be computerized.

Buildings can provide information on usage and condition over smart technologies. Sensoring and robotics are being used more and more. Important FS providers are very aware of those changes. E.g. ISS and IBM have a global partnership for digitalization of FS. Granderath explains that sensoring has been getting really cheap in the past years and so international FS-companies have to get ready to apply this technology, to be able to provide modern services for customers. This includes investment in sensors for buildings. Big-Data-Sensors are of a high potential and could change FM completely. Many intelligent systems are already in use and Granderath explains that in future many more employees who are able to handle those systems, are needed. (Granderath, Bilski-Neumann 2016)

However, which areas are affected? What are the changes? How can IoT, big data, artificial intelligence, machine learning and robots change/optimize the operational and management processes?

The goal of the chapter real estate is to provide answers to these questions.

At the moment, our industrial partners are:

- BIG
- BUWOG
- HSG Zander
- PwC Austria

- Siemens Building Automation
- SAP
- Sodexo
- Thermokon
- WAGO

Beside the theoretical research feasibility studies, new best practice uses cases are to be identified and to be implemented in case/feasibility studies. Also the demand for training is to be covered at the students level.

Scope of Work for the SAP Next-Gen Chapter Lead is to provide a hub for real estate and facility management research and generally coordinate group activities online and real world.

The actual SAP Next-Gen Chapter Lead for Real Estate and Facility Management is

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Scope of Work for a membership in the SAP Next-Gen Chapter may vary from "interested newby" to expert. Every new member has to be nominated and recommended by an existing member or needs to apply at the chapter lead. Engagement can reach from only interested participation up to build and organize community objectives. Members shall support the Chapter Lead in the Chapter work.

The Real Estate and Facility Management chapter officially started on September 10, 2018.

Deliverables & Activities of the Community

1. Developing and testing case studies based on emerging technologies incl. prototypes for prove of feasibility and teaching
2. Onboarding university representatives to its know-how and curricula

See also: Global list of all SAP Next-Gen Chapters