



Workshop on  
**What to learn from different standards and measurement approaches?**  
**Is a pragmatic integrative approach possible?**

## **Program**

**Chair:** Fabio Bella

Fabio Bella is a process consultant at Kugler Maag CIE. His main areas of interest are process assessment and improvement with a particular focus on ISO/IEC 15504 and Automotive SPICE.

Mr. Bella has already participated in several industrial and research projects performed both in German and international contexts. In particular, he managed process assessments and collaborated in software process improvement programs conducted in software and system engineering companies.

In the past as a scientist at the Fraunhofer Institute for Experimental Software Engineering (IESE), his research interests included software engineering methodologies, modeling and measurement of software engineering processes and resulting products, software quality assurance and control, and process assessments.

**Duration of workshop:** half day

**Description of background and goals.** Several measurement approaches such as Balanced Score Cards (BSC), Six Sigma, or Goal Question Metrics (GQM), can be applied to set up and embed measurement programs within the scope of software projects. Different approaches may highlight different aspects of the measurement process or address different organizational levels. They may also show complementary aspects and provide a maximum of benefit when jointly applied. Often different approaches are applied by different groups within one same organization and effort has to be spent to integrate different measurement initiatives. To maximize the information gain and minimize the effort to be spent in measurement-related activities, informed decisions have to be made and the right approaches must be chosen when setting up a measurement program. The aim of this workshop is to present single measurement approaches currently available, share

experience gathered from their application, and sketch a map to assist preliminary decision making when defining measurement programs.

**Target audience:** SW and system engineers as well as project and program managers with experience in the field of measurement and analysis.

### **Organization**

1. Presentation of available measurement approaches
2. Brainstorming to collect and cluster experience with measurement approaches
3. Brainstorming to sketch a map of the different measurement approaches, their field of application, and their respective strengths and weaknesses.

### **Expected results**

Participants should get insights about how to choose among different measurement approaches and how to combine them to maximize the benefit in terms of information gain and minimize the effort for collecting, consolidating, and interpreting data.