

## **Viewbrics: mirroring and mastering complex generic skills with video enhanced rubrics through a technology-enhanced formative assessment methodology**

To master complex generic skills (or '21<sup>st</sup> century skills'), it is important to form a concrete and consistent mental model of all constituent sub- skills and mastery levels. An analytic assessment rubric describes skills' mastery levels in text, by means of a set of performance indicators for constituent sub-skills. However, text-based rubrics have a limited capacity to convey contextualized, procedural, time-related and observable behavioral aspects of a complex skill, thus restricting the construction of a rich mental model.

Therefore, within the Viewbrics-project, we study the possibilities of using video modelling examples combined with rubrics, called video-enhanced rubrics, for the formative assessment of complex skills. We expect that using video-enhanced rubrics instead of text-based rubrics will lead to a 'richer' mental model and improves feedback quality (in terms of consistence as well as concreteness) while practicing a complex skill, for both pupils and teachers in secondary schools. Subsequently, we expect increased skill's mastery levels.

Within the Viewbrics-project, we developed and tested this technology-enhanced formative assessment methodology with video-enhanced rubrics, through a design research approach with teachers, pupils, researchers and various domain experts, for three generic complex skills, namely presenting, collaborating and information literacy. This webinar reports on the followed design research process, the resulting formative assessment methodology and functionality of the Viewbrics online tool and on future research. We will also discuss the applicability of 'Viewbrics' in other educational contexts.

### **Speaker:**



**Ellen Rusman**

Ellen Rusman is associate professor with a focus on [seamless and mobile learning](#) within the Technology-Enhanced Learning and Innovation Programme at the [Welten-institute](#) – the research centre for learning, teaching and technology of the Open University of the Netherlands. Currently Educational Manager of the Viewbrics-project, funded by the practice-oriented research programme of the Netherlands Initiative for Education Research (NRO), part of The Netherlands Organisation for Scientific Research (NWO).