ARVIKA

**AUGMENTED REALITY FOR
DEVELOPMENT, PRODUCTION AND SERVICING**
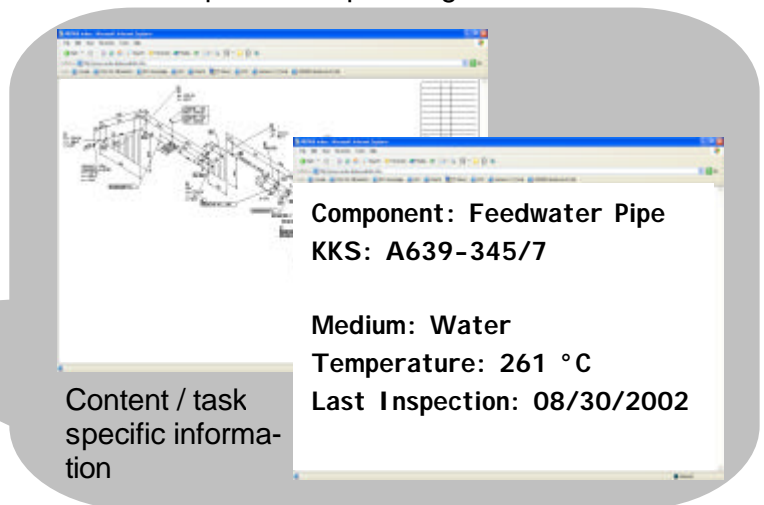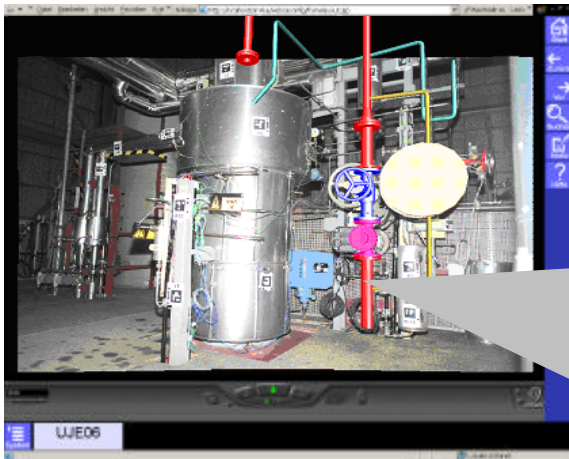
FRAMATOME ANP

SIEMENS

AR in Industrial Environment: Localization – Protocolling – Annotation

Localization

Aiming to support localization of components in industrial environment, a 3D model is superimposed on an image which is calibrated using optical markers. This way, context relevant information, linked to the superimposed model, can easily be accessed on site by simple interaction. Furthermore, comparison between real image and model can reveal discrepancies of planning and as-built.

Content / task specific information

**Component: Feedwater Pipe
KKS: A639-345/7**

**Medium: Water
Temperature: 261 °C
Last Inspection: 08/30/2002**

Protocolling

In order to assist recurrent inspections, a mobile device, linked wirelessly to a database in the back-office, is used to efficiently collect data. Depending on context, related information such as drawings, manuals, or data sheets can be displayed to ease inspection.

Annotation

Inspection often requires documenting the as is situation on site. It is demonstrated that image annotation on a mobile device not only allows as-built documentation, but furthermore enables an engineer to precisely describe problems or give advice to co-workers.

*Contact: Framatome ANP: Erwin Rusitschka, E-mail: Erwin.Rusitschka@framatome-anp.com
Siemens AG: Mirko Appel, Erich Niedermayr, E-mail: Erich.Niedermayr@siemens.com*