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## Željko Uhlir

### **Challenges in maintenance of infrastructure with an emphasis on bridges in the cities of the Republic of Croatia**

**Abstract:** For many years infrastructure constructions have been built and the need for new constructions of this type has not been exhausted. However, it is often forgotten that after the process of building, the maintenance process begins. Particularly, mentioned issues are expressed in cities, whose leaders are focused on mandate intervals.

The development of technology in the world is entering a new, 4th industrial period, that will capture all areas of human activity. It is about the IOT (Internet of Things) but we are also in WFOS (World Full of Stuff). New materials are available that have the capabilities of self-service. The next step is smart maintenance systems that use all the technological advances.

This paper presents the situation in the system of maintenance of city bridges in the Republic of Croatia and stresses that, for all the above mentioned, from the elementary maintenance of infrastructure constructions to smart maintenance systems, the basic prerequisite is educated staff.

