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Authors: Johanna Sefyrin, Katarina L. Gidlund

Inscriptions of norms, values and hegemonies in technologies take place on various technological levels, from a societal level over organizational levels, presentation, functionalities, data structures and data architectural levels. These inscription processes can be understood as sociomaterial practices which are deeply related to and dependent on each other. For instance the decision to in a school administrative system inscribe a specific category with specific properties will depend on how the involved actors frame, understand, conceptualize and negotiate the activities in question, and how this is done will have consequences for those who are affected by the system, such as teachers, administrators, system architects, and system administrators. This exemplifies how technological inscription processes move between different technological levels, and presents a problem to make these different analytical levels visible in research analyses. The aim of the paper is to present an analytical framework for how to analyze technological inscription processes on various levels. Our point of departure in this discussion is a graphical model of technological levels related to information technologies based on Jensen (2010) and Bijker (2009). The model makes visible the involved levels and enables us to discuss how technological development processes take place on these different levels and how they relate to each other. In order to make the model clearer we will relate it to a specific empirical case which through which we will be able to discuss and make visible how inscription processes moves between the various levels.

Johanna Sefyrin  
Mid Sweden University  
851 70 Sundsvall  
Sweden  
+46 60 148692  
+46 70 8522652  
[johanna.sefyrin@miun.se](mailto:johanna.sefyrin@miun.se)

Katarina L. Gidlund  
Mid Sweden University  
851 70 Sundsvall  
Sweden  
+46 60 148921  
+46 70 5947065  
[katarina.lindblad-gidlund@miun.se](mailto:katarina.lindblad-gidlund@miun.se)