

Transforming the Automotive Industry

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Abstract.

The Automotive business environment has been disruptive in recent years motivating change on the systems and software engineering operations. The participants consistently identify the need to work globally, collaborate with outside businesses, and engineer with limited resources are necessary to remain competitive. Model Driven Engineering is a compelling answer to these challenges, however this is often interpreted too limiting to algorithmic development. More broadly the enactment of pervasive data models and the leveraging of model (more generally data) transformations are the solution of choice for many of these organizations. We see these techniques applied to both engineering technical data as well as the workflow and collaboration information. While no organization can change overnight, looking at several industrial examples, we can identify successes with the current transformation technologies and identify the challenges that are needed to support future industry success.

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