TITLE

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CONTEXT: Software (re-)certification requires the creation and maintenance of many different software artifacts. Manually creating and maintaining them is tedious and costly.

OBJECTIVE: Improve software (re-)certification efforts by automating as much of the artifact creation process as possible while maintaining full traceability within – and between – artifacts. Facilitate this through creation of our tool – Drasil.

METHOD: Use grounded theory in the creation of a tool for software artifact generation. Generate all the things! Capture the underlying knowledge and apply transformations to create each of the requisite artifacts. Captured knowledge can be re-used across projects as it represents the "science". Maintenance will then involve updating the captured knowledge or transformations as necessary.

RESULTS: Case studies – GlassBR to show capture and transformation. SWHS and NoPCM for reuse. Something about Kolmogorov complexity / MDL here?

CONCLUSIONS:

Additional Key Words and Phrases: ??

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1 INTRODUCTION

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