

Long-Term Productivity: Science, not Preference

Spencer Smith and Jacques Carette

- ▶ Spencer Smith
 - ▶ Computing and Software, McMaster, Canada
 - ▶ Computational Mechanics and Software Engineering
- ▶ Evidence based decision making to improve quality
- ▶ Long-term perspective (manage technical debt)
- ▶ Not just code (process, tools, environment, artifacts)
- ▶ What artifacts?
 - ▶ Improve productivity measure
 - ▶ $P = O/I$
 - ▶ $I = \int_0^T H(t) dt$
 - ▶ $O = \int_0^T \sum_{c \in C} F(S_c(t), K_c(t)) dt$
 - ▶ Support assurance case
- ▶ Sync problem with artifacts? - Generate all things