# Software Productisation

#### **IPAndemic**

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### Introduction

- Vadim Zaytsev aka @grammarware (\*\*\*)
  - research ( , , , , cwi )
  - teaching (♥)
  - industry (RAINCODE, raincode LABS)
- Productisation experience:
  - HLASM, TIALAA, etc
  - AEC of ICSE, MoDELS, SLE
  - Best Artefact, Top Performer







## Project vs Product

- Development cycle
- Make it work
- Zero to one customers
- Fixed features
- Single or no deadline
- Short-term team
- Contract-based income
- Akin to writing a paper

- Life cycle
- Make it right
- One to many customers
- Ongoing support
- Continuous delivery
- Long-term team
- Can be passive income
- Akin to getting a PhD



### The Main Difference

- Projects are done when they are done
- You need to stand by your product
  - reliably
  - for years to come
  - offering support
- Not always desirable



### Should

**Programs** 

Be Reviewed

by the Program Committee?



### Artefact Evaluation

- Any part of the "paper" beyond the PDF
- Goals
  - packaging
  - archival
  - evaluation
  - replication

- Metagoals
  - reality check
  - archival
  - persistence
  - career





### Types of Research Artefacts

- Motivation
- Hypothesis
- Executable model
- Checklist
- Bibliography
- Script
- Commentary
- Visualisation

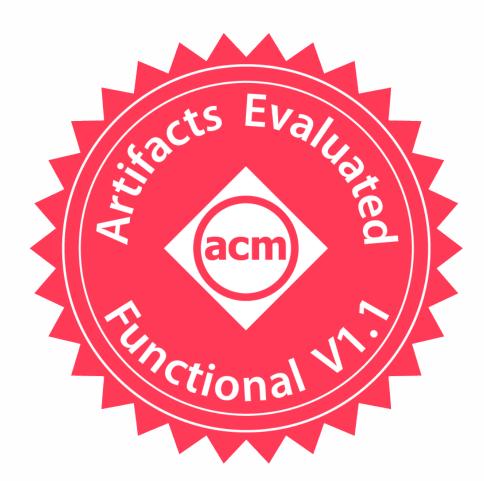
- Data (raw or derived)
- Sampling
- Tutorial material
- Guidelines for the future
- Actual paper text
- Algorithm
- Program
- Proof



### Artefact Evaluation Process

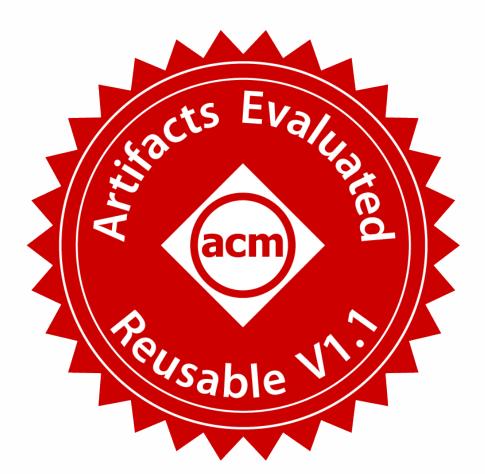
- Read & follow submission guidelines
- Submit on time
- Kicking the tires
- Evaluation
  - Insightful (timely, smart)
  - Useful (purpose, effect)
  - Usable (understandable, available, installable)
- Notification & adding a badge





- Documented
- Consistent
- Complete
- Exercisable





- Functional
- Exceeding expectations
- Facilitating





- Functional
- Reusable
- Stored with a DOI





- Functional
- Reusable
- Available
- Same results obtainable



#### Conclusion

- Project ≠ Product
- The future of artefact evaluation:
  - publishing without artefacts is outlawed
  - AEC influences PC
  - artefacts can be submitted independenty
- https://artifact-eval.org
  - https://github.com/csartifacts/resources
- Questions?

