

# (Designing a) Research Software Engineering Strategy

ISC 23 BoF: Scientific Software And The People Who Make It Happen – Building Communities of Practice

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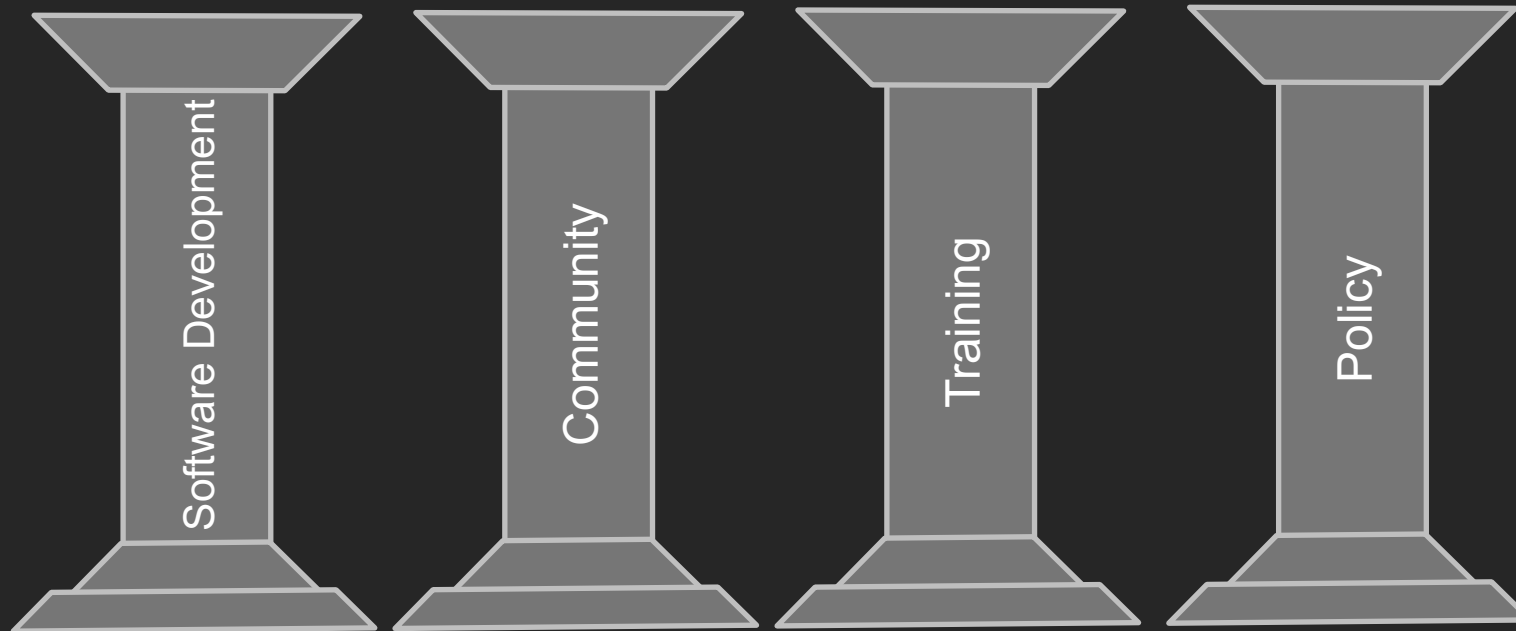
# The Challenge

- Research increasingly compute and data intensive
- Software underpins much modern research
- Researchers / RSEs have different drivers/motivation in building software
- **Need a coherent strategy to support effective development of sustainable maintainable software**





# A comprehensive strategy



Based around the four pillars of Research Software Engineering<sup>1</sup>

J. Cohen, D. S. Katz, M. Barker, N. Chue Hong, R. Haines and C. Jay, "The Four Pillars of Research Software Engineering," in IEEE Software, vol. 38, no. 1, pp. 97-105, Jan.-Feb. 2021, doi: 10.1109/MS.2020.2973362.

# Implementing a strategy

(within a research institution)

- Address aims and requirements of researchers and RSEs/developers separately.
- Raise awareness (support, best practices, etc.).
- Training vital at all levels – understand audience.
- Complex environment – helpful guidance likely more effective than general, unworkable policies.
- Effective, active communities support strategy.



# Thanks for listening...

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