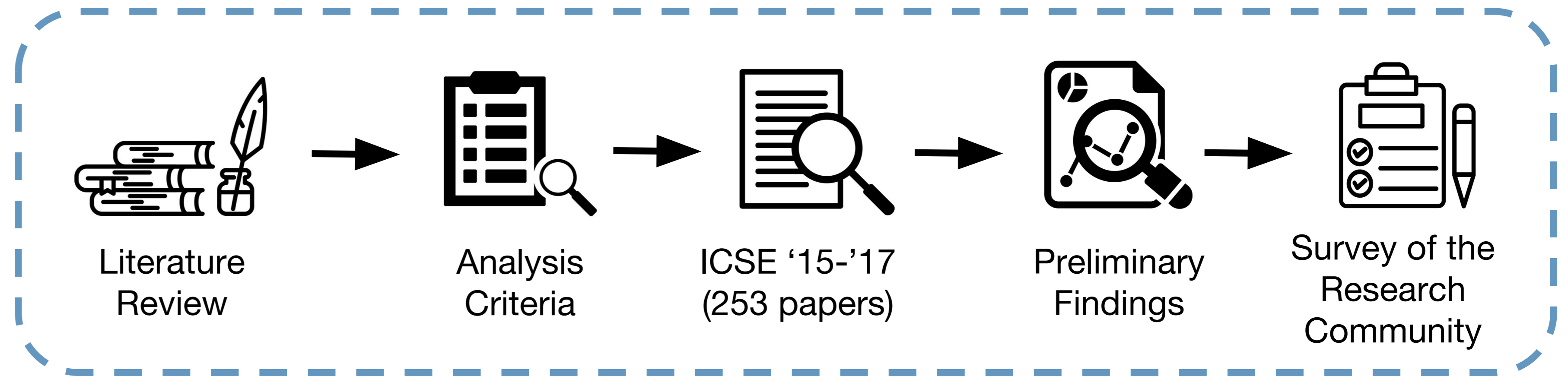


Is There a Research Method Bias in Software Engineering?

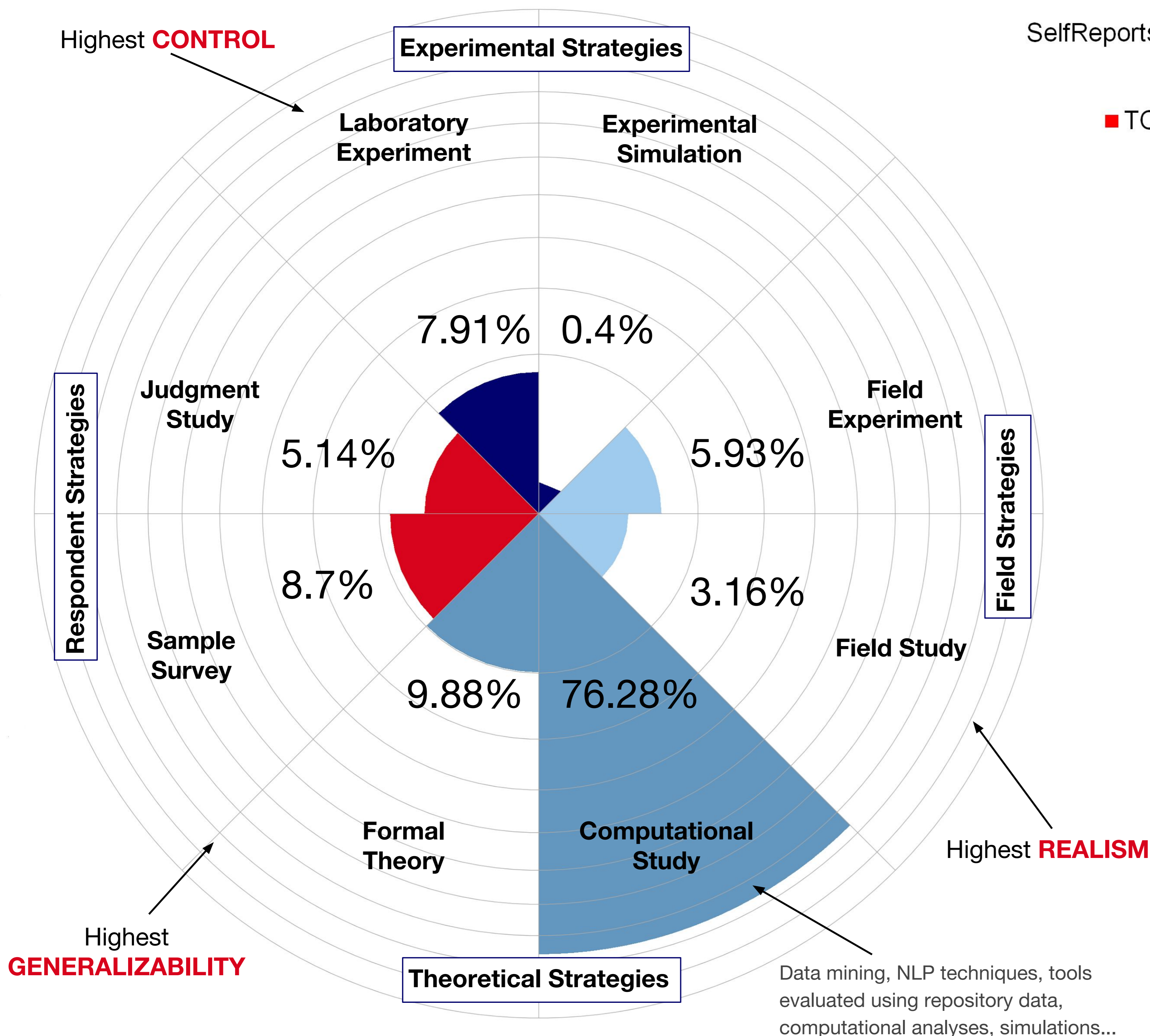
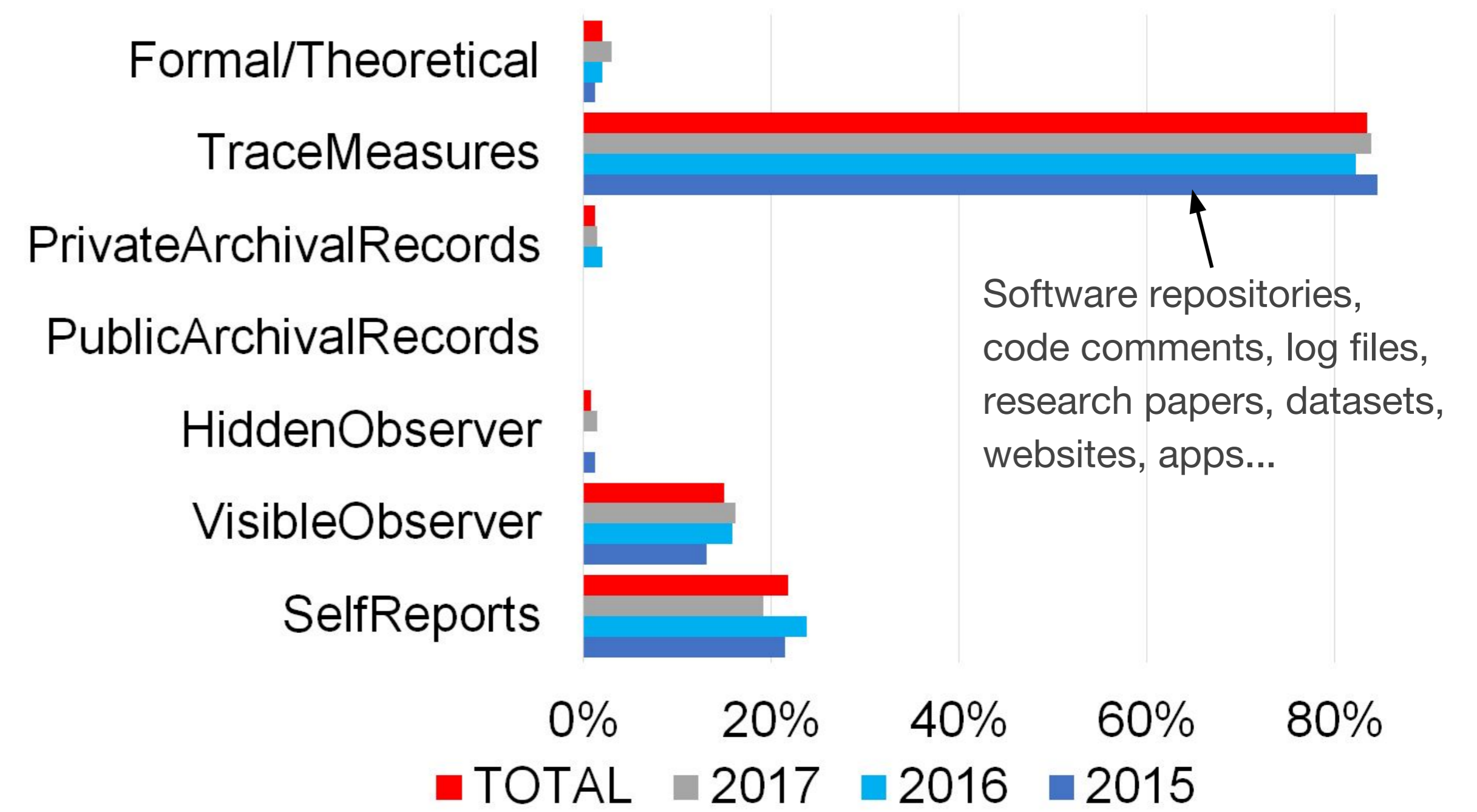
Questions

- What behavioral **research strategies** and **data sources** are used at ICSE?
- What implications does this have for elements of research quality?



Preliminary Findings

- The vast majority of empirical data comes from **Trace Measures** of human behavior
- **Computational Studies** dominate over all other research strategies, leading to an imbalance that prioritizes **generalizability** and **realism** over **control**



Takeaways

- The research community can reflect on our body of work as a whole
- We call for a discussion on whether this balance reflects our collective values
- Is change required to align our research method choices with our collective goal for the future of software engineering?

“The meaning of research evidence, in any area of science, is inherently tied to the means or methods by which that evidence was obtained.”
- J. E. McGrath

“All methodologies, even the most obvious ones, have their limits.”
- P. Feyerabend