



University of Southern California
Center for Systems and Software Engineering

Addressing Complexity Through Simplicity

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- **Doing research on space/ground system architectures, acquisition practices**
- **Major complexity driver: multiple mission and stakeholder support**



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What is complexity?

- **Complexity = 1/**



What is complexity?

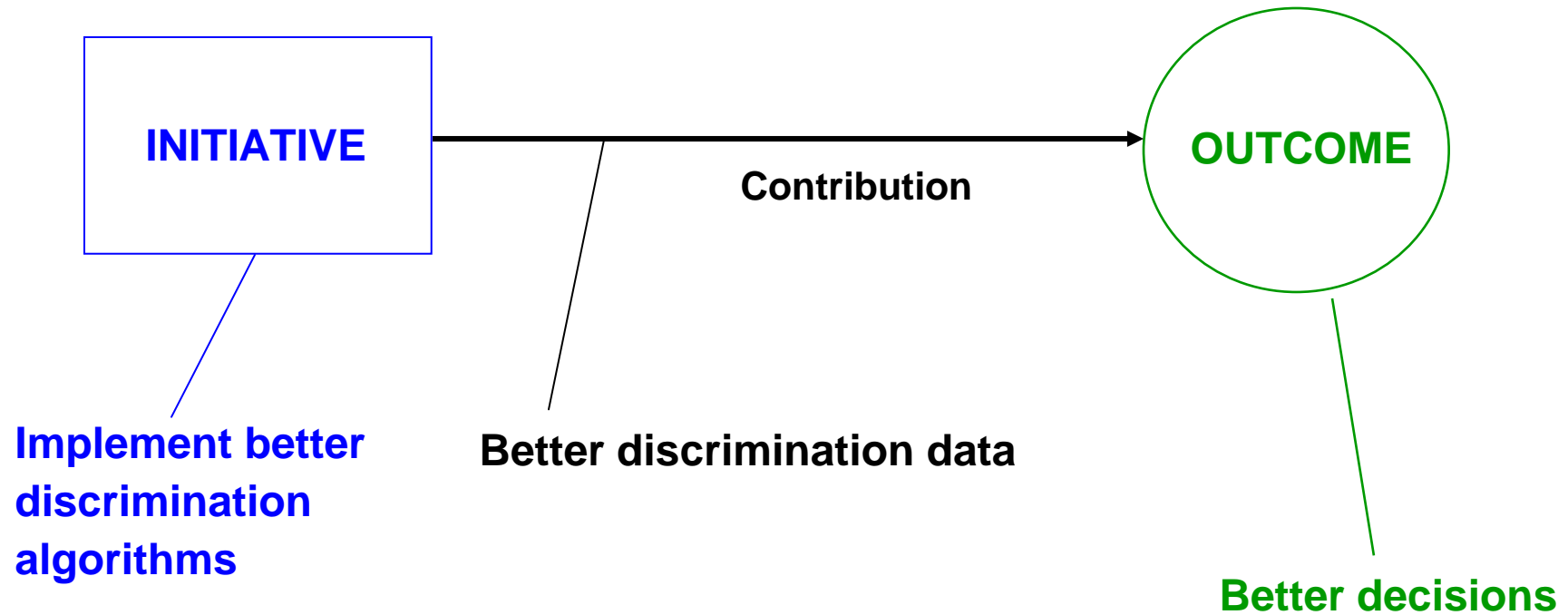
- **Complexity = 1/ degree of understanding**
 - **Varies by who you are, what you know**
 - **Why Golden Rule can be misleading**
 - **Assumption: you are like me**
 - **Why KISS is so important**



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- **Complexity = 1/ degree of understanding**
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 - **Why Golden Rule can be misleading**
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 - **Why KISS is so important**
 - **Can be reduced by investments in understanding**
 - **Research, education, boundary objects**
 - **Largely economics-driven**

Boundary Object: Benefits Chain



Boundary Objects: Benefits Chain, GUI Prototype

