

A System for Collaborative Design, Analysis, and Optimization of Spacecraft Trajectories

Juan Arrieta, Nabla Zero Labs

SpaceOps 2018

*May 28, 2018
Marseille, France*



We ❤️ Engineering

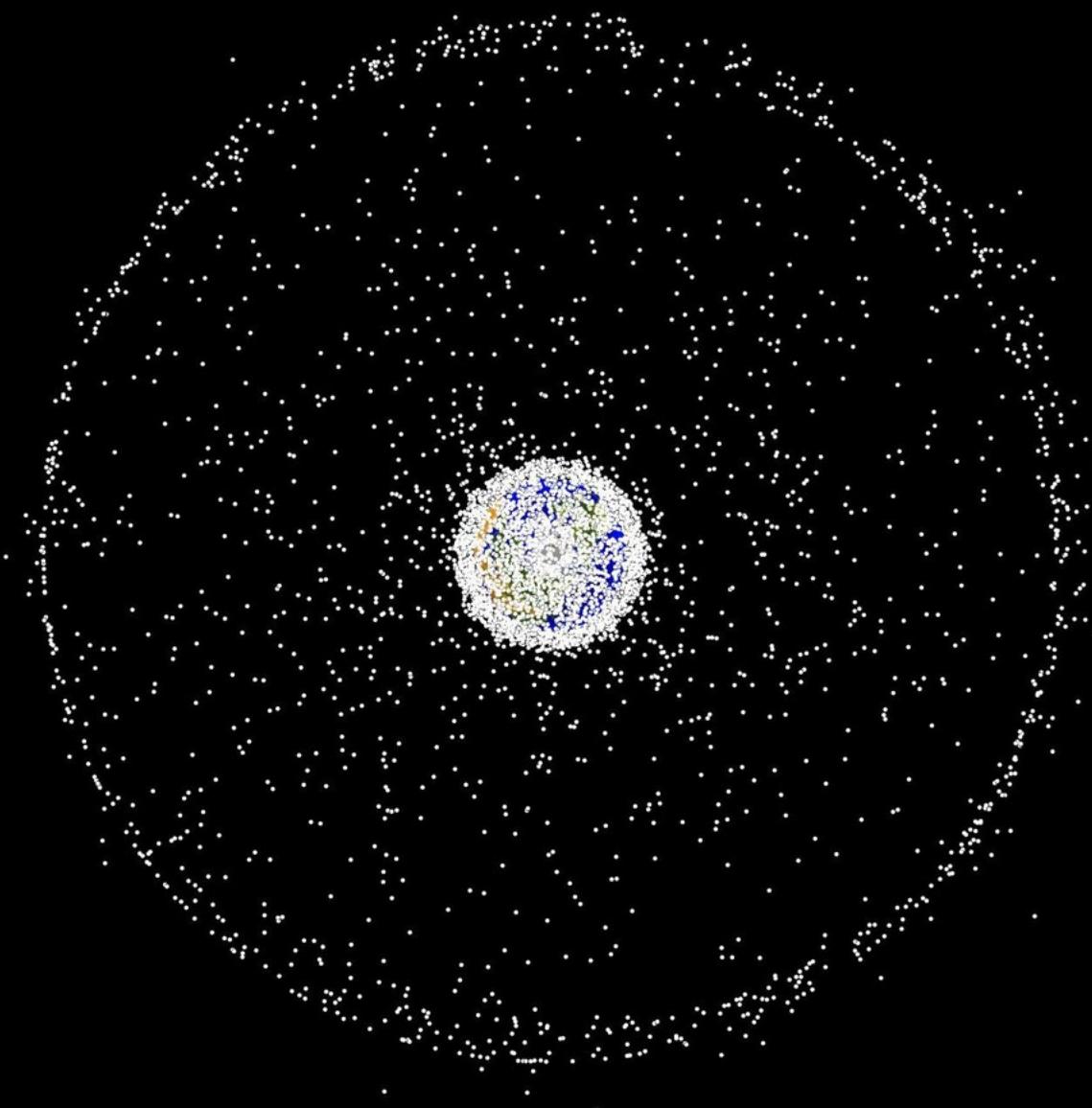
Rocket Science is Hard

And We Keep Reinventing It

$$M = E - e \sin E$$

High Performance Computing is Hard

And We Keep Reinventing It



Cybersecurity is Hard

And We Keep Reinventing It



All Your Spaceships Are Belong To Us

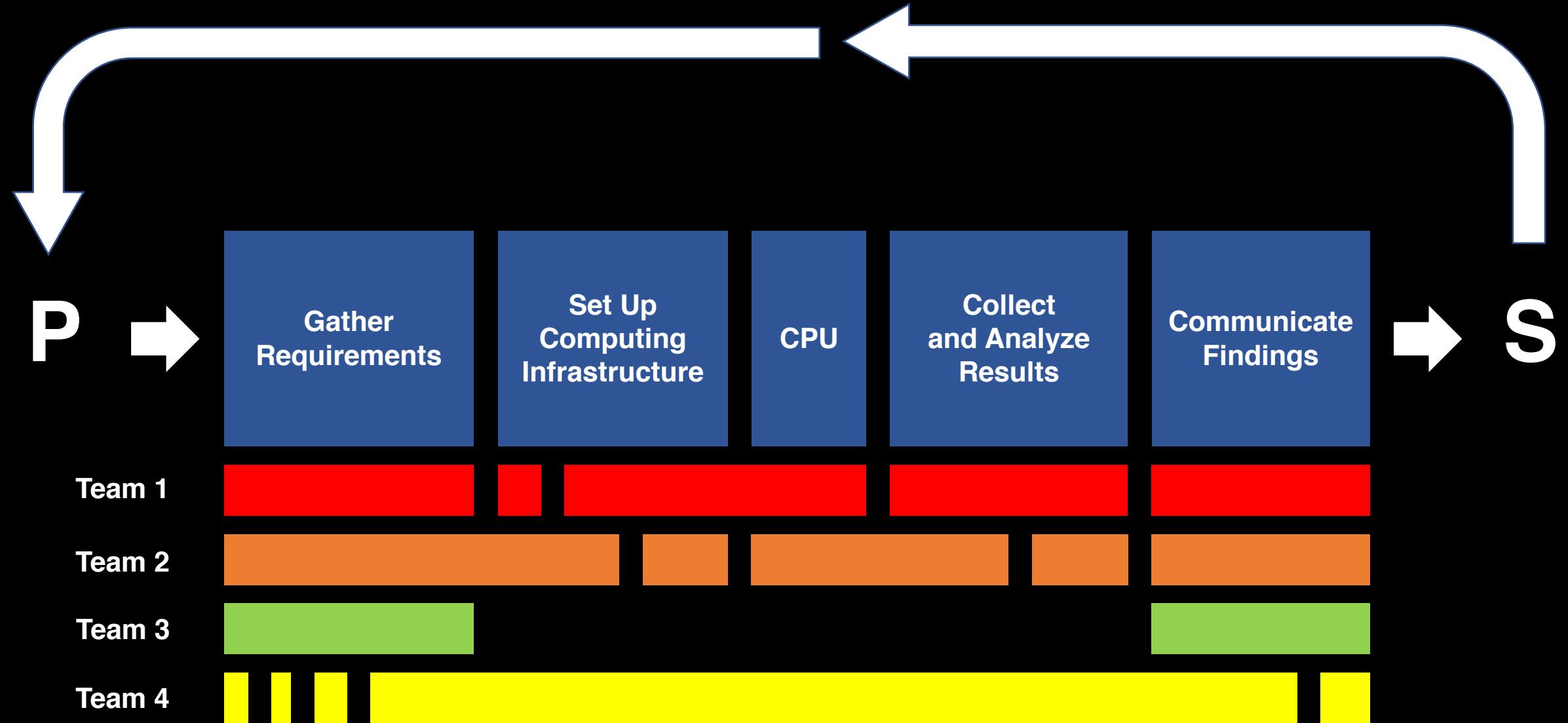
Collaboration is Hard

And We Keep Ignoring It

P →

CPU Time

→ S



**Engage in Mission Design and Operations
Like Software Developers Engage with Code**



Elastic, Secure API



**Collaborative
High Performance
Cybersecure
Astrodynamics**

Astrodynamicics Cloud

Currently Begging NASA for Money at
<https://www.astrodynamics.cloud>



We ❤️ Engineering