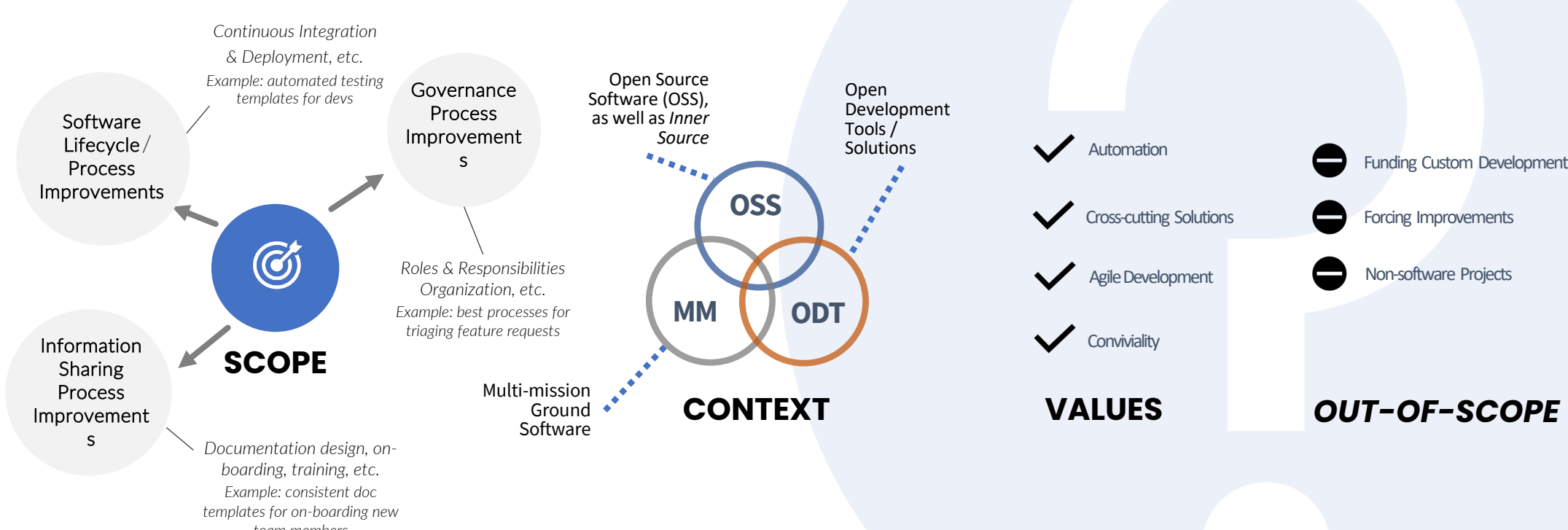


# SOFTWARE LIFECYCLE IMPROVEMENT & MODERNIZATION

"SLIM is a shared resource for discussing, iterating and referencing best practices in software lifecycle process improvements for multi-mission space and ground software."

## ABOUT

COLLECTIVE SOFTWARE LIFECYCLE, GOVERNANCE & INFO SHARING SOLUTIONS FOR OPEN MULTI-MISSION GROUND SOFTWARE.

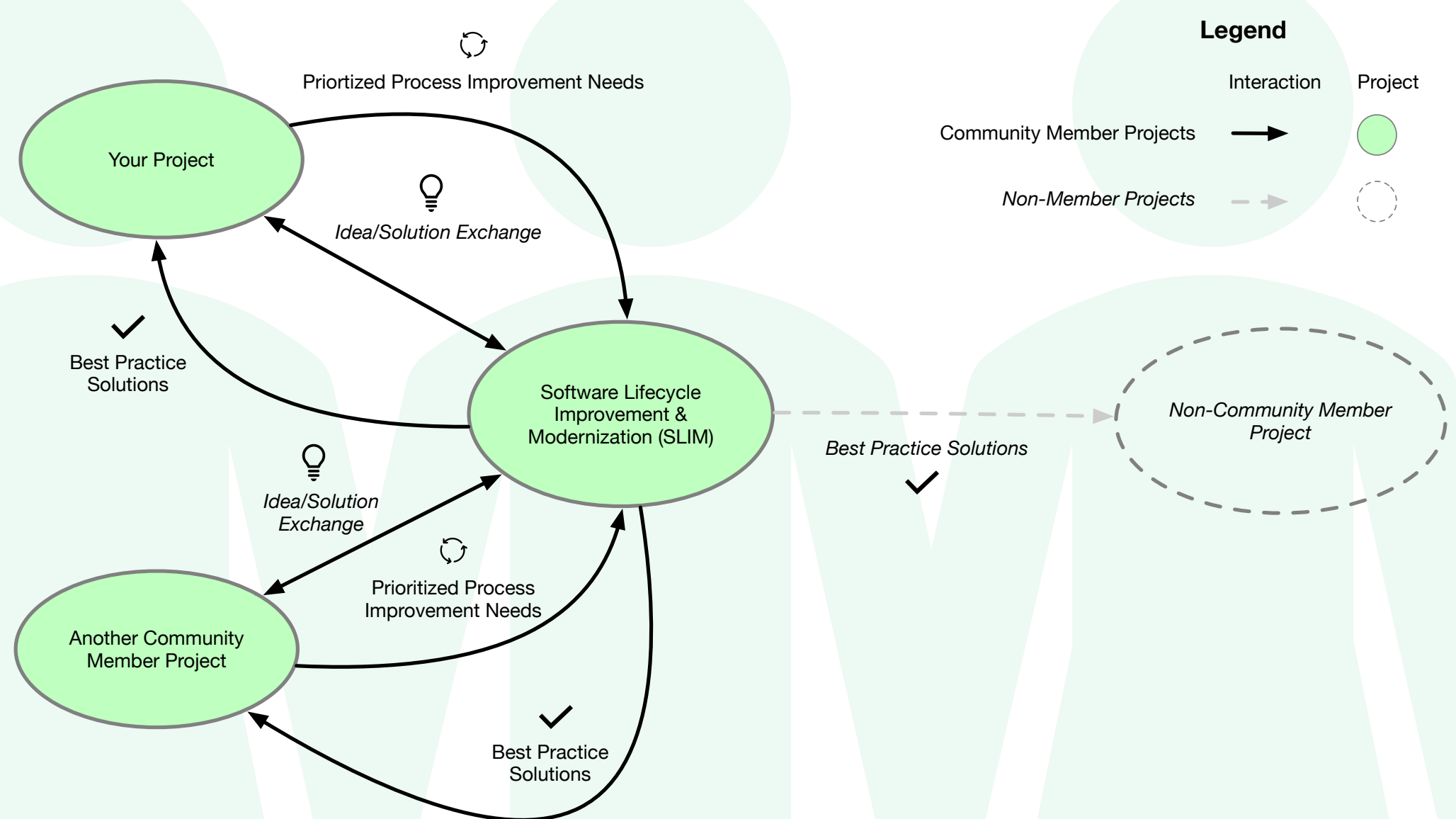


## THE PROCESS

COMMUNITY-DRIVEN NEEDS MET THROUGH AGILE APPROACHES AND AUTOMATION ARCHITECTING BASED SOLUTIONS.

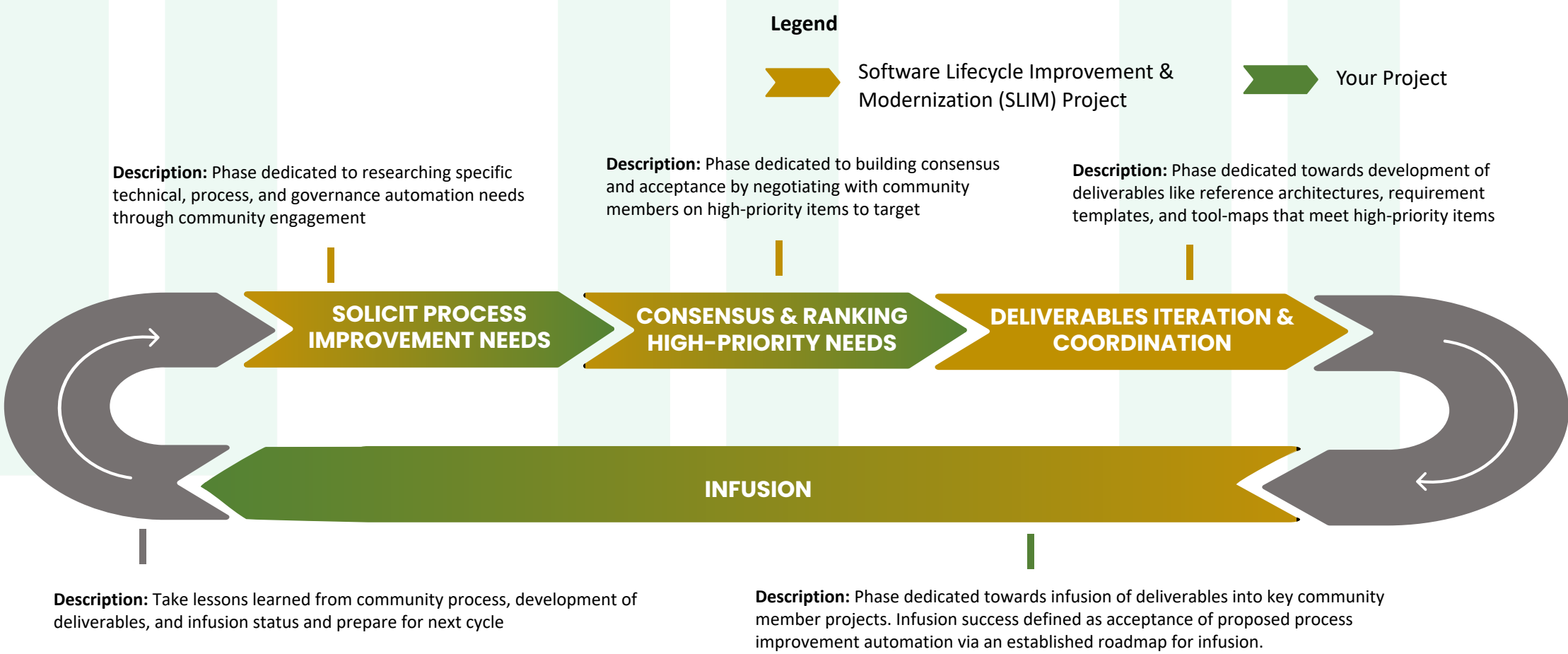
### CREATING A COMMUNITY

We're setting up a *community-driven* coordination process led by the Multi-mission Ground Software Systems (MGSS) Software Lifecycle Improvement & Modernization (SLIM) project to allow diverse software projects to coordinate upon software lifecycle process improvement needs & solutions while setting up a contribution model for community members to build and exchange best practices. A community-driven approach means the community helps prioritize which process improvements to collectively focus upon, research, and infuse into their respective projects. Non-community member projects can of course make use of the best practice solutions at any time.



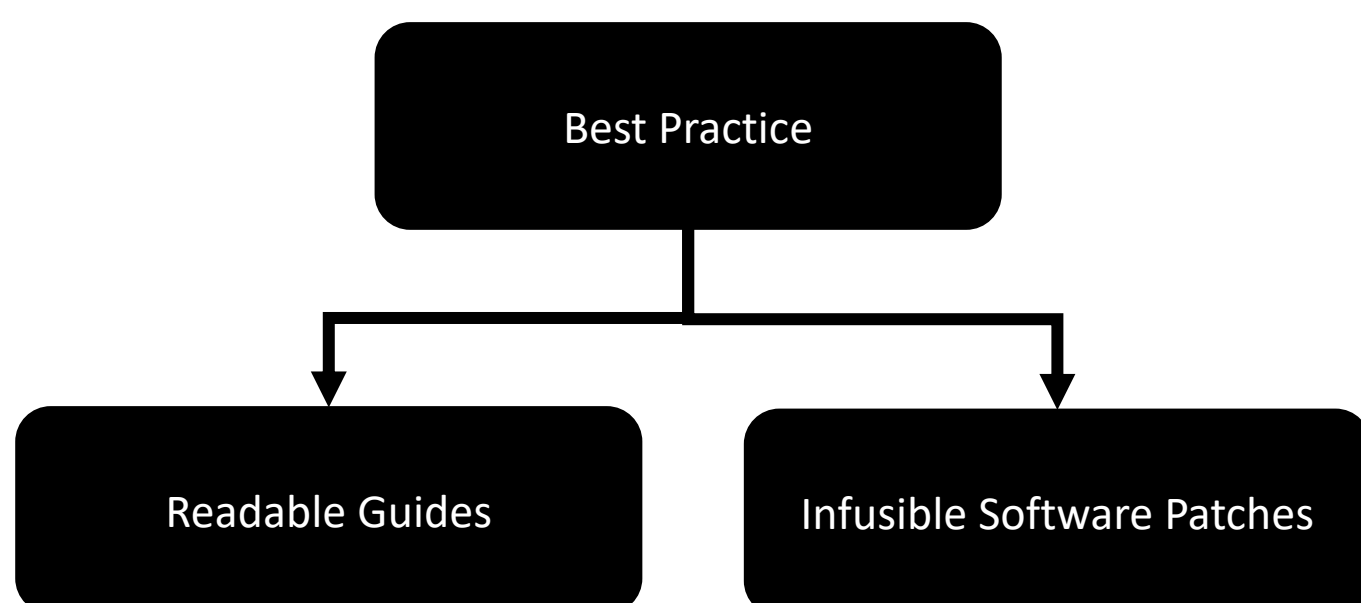
### COMMUNITY-DRIVEN ROADMAP FOR PROCESS IMPROVEMENT INFUSION

We're planning a phased approach to process improvement infusion – where the community first collaboratively identifies process improvement needs & helps to collaboratively rank them by shared priority. Next, the contributors within the SLIM project work with the community to develop key deliverables (described further below) and work with the community to infuse said improvements into community participant projects. This cycle is repeated multiple times throughout the year.



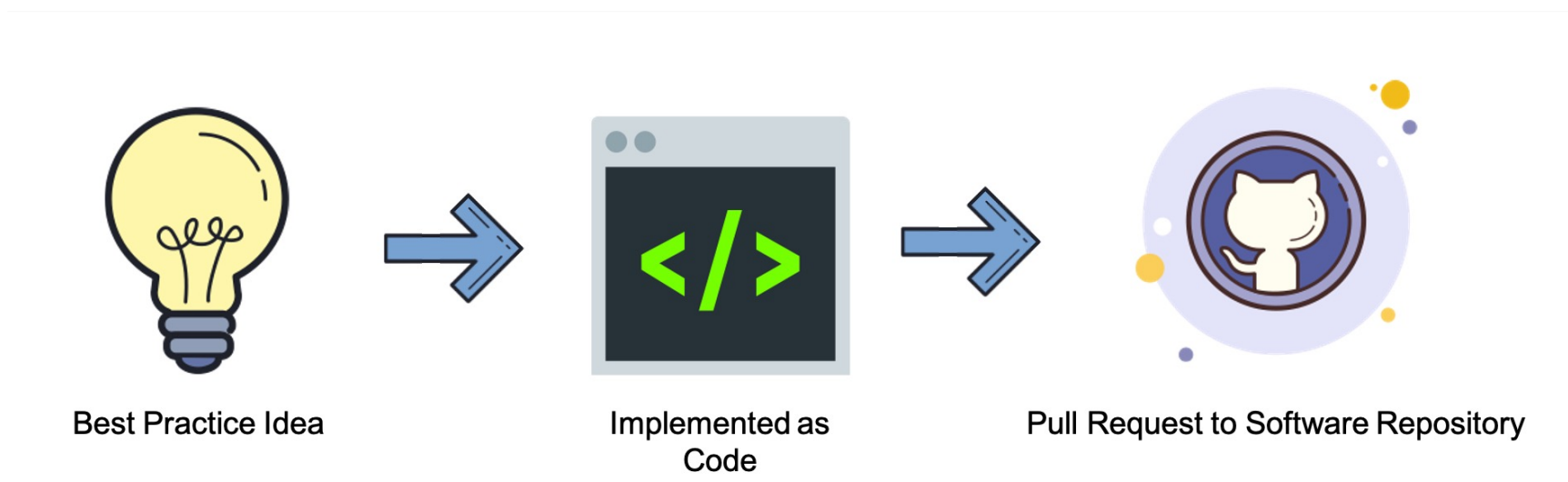
### SOLUTIONS & DELIVERABLES

Each community-selected process improvement need is iterated through an automation lens. This means that key automation-oriented solutions are preferred and a set of deliverables will be presented to the community for infusion through a patch-delivery process (see Development Process section). We also provide support to community member projects directly for infusion through automatically sending out best practices in the form of pull requests and issue tickets to member project repositories.



### DEVELOPMENT PROCESS

We use a technique we like to call "standards-as-code", which basically means that we develop best practices that are *patchable* to existing or new community member project codebases or are *deployable* to their infrastructure. Therefore, we target providing best practices in a way that is most easily can be infused into existing SLIM community member projects. This way, we are actually able to scale out our best practice dissemination widely to many projects at once. For best practices that are not patchable to repositories, we ask our contributors to develop automation that can be run as a script or set of commands - and deploy these to SLIM community members through issue-tickets.



## GET INVOLVED

PARTICIPATE IN COMMUNITY-DRIVEN SOLUTIONS.

### BE A COMMUNITY MEMBER



#### WHAT YOU GAIN

- Free pull-requests / tickets related to the infusion of practices and recommendations within SLIM
- Spotlight for your project among the community and SLIM users
- Opportunity to collaboratively interact with your peers and learn, exchange best practices in software lifecycle improvements

#### EXPECTATIONS

- Active & timely participation in our open development process
- Openness and willingness to infuse process improvements into your project timeline & scope

### INTERESTED?

[nasa-ammos.github.io/slim](https://nasa-ammos.github.io/slim)