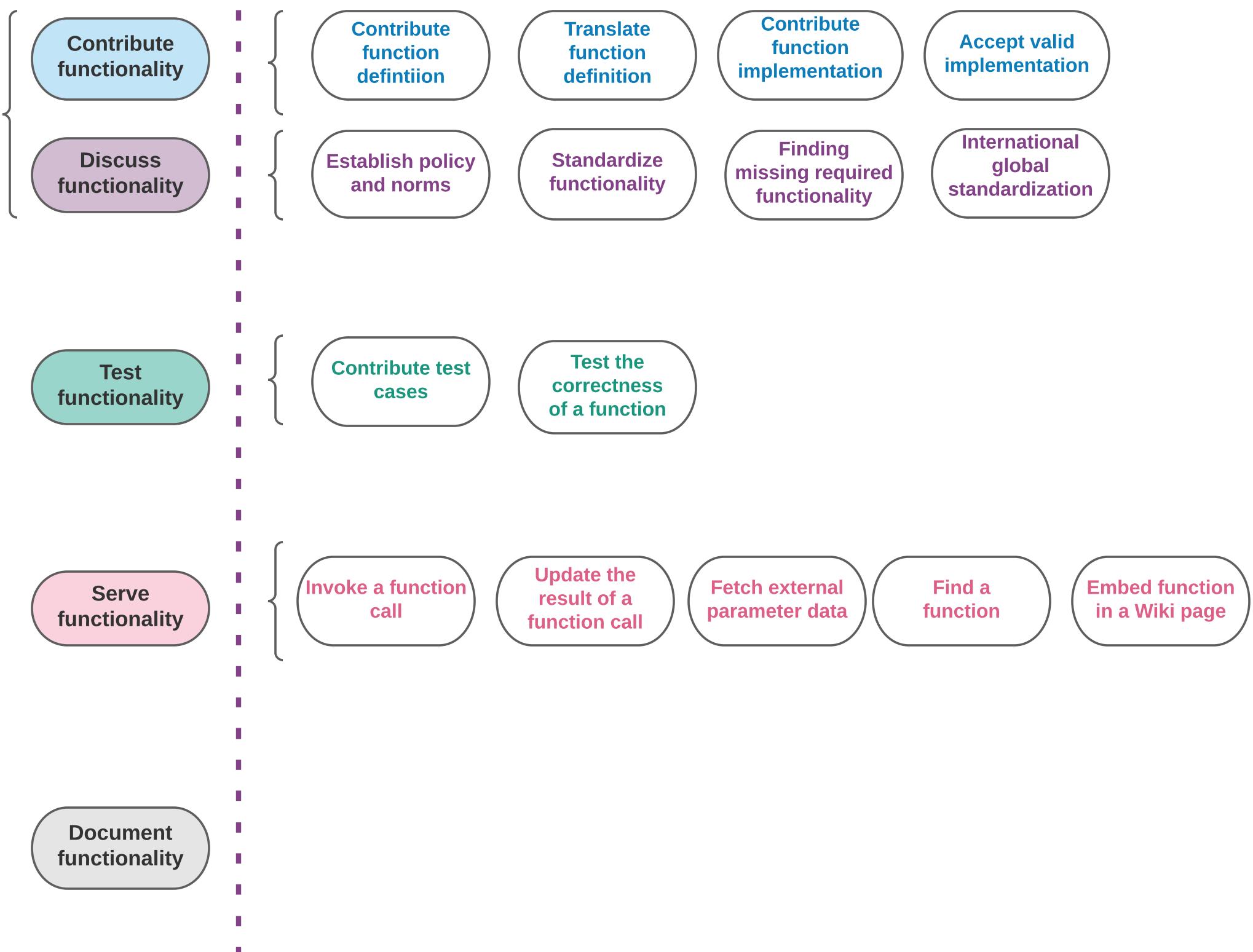Enable everyone to **collaboratively create and maintain a library of code functions** to support the **Wikimedia projects and beyond**, **for everyone to call and re-use** in the world's **natural and programming languages**

| Contribute functionality | Contribute function defintiion | Translate function definition | Contribute function implementation | Accept valid implementation |

| Discuss functionality | Establish policy and norms | Standardize functionality | Finding missing required functionality | International global standardization |

| Test functionality | Contribute test cases | Test the correctness of a function |

| Serve functionality | Invoke a function call | Update the result of a function call | Fetch external parameter data | Find a function | Embed function in a Wiki page |

| Document functionality |

Abstract Wikipedia Action Flow Model

```
Add / edit function          Add / edit              Add / edit tests         Function result
definition                   implementation                                   requested

       │                          │                        │                      ▲  │
       ▼                          ▼                        ▼                      │  ▼
   Quick                      Quick                     Quick                    Cache
   validation                 validation                validation
                                                                                   │
       │                          │                        │                       ▼
       ▼                          ▼                        │                   Find valid
   Definition                 Long                         │                   implementation
   saved                      validation                   │
                                                           │                       │
                                  │                        │                       ▼
                                  ▼                        ▼                   Fetch          ◄── Respond to update of
                              Run                      Run tester on           parameters         external parameters
                              implementation           implementations
                              on testers                                          │
                                                                                  ▼
                                  │                        │                  Run valid
                                  ▼                        ▼                  implementation
                              Test validation status   Implementation
                              changed                  validation status
                                                       change

                                  │                        │
                                  ▼                        ▼
                              Link/delink test to      Link/delink
                              definition               implementation to
                                                       definition
```

Create a function
E
Function Created

Edit a function
E
Function Updated

???

Implementation updated (new/edit)
E
Implementation modified

Test updated (new/edit)
E
Test modified

Invalidate?

WORKER: Test

Run tester on Implementation
E
Implementation Validation Updated (pass/fail)

Run implementation on tester
E
Tester Validation Updated (pass/fail)

Link/delink implementation to function

Link/delink test to function

Legend

Action

E
Event

—Step→