Imaris/Matlab-based job queue framework for automated bio-image process

A framework for Imaris/Fiji/Matlab/java based fluorescent bio-image processing.
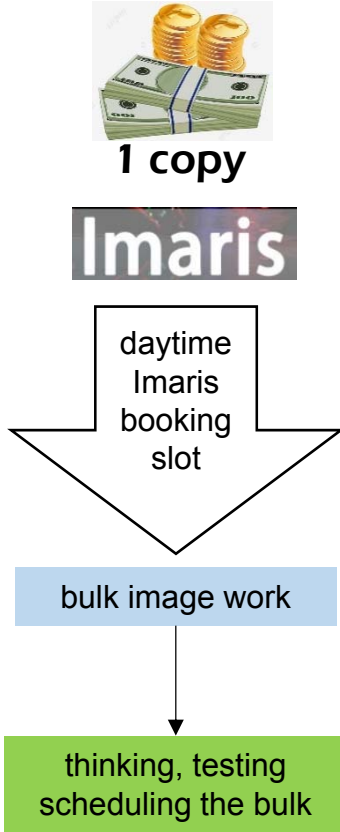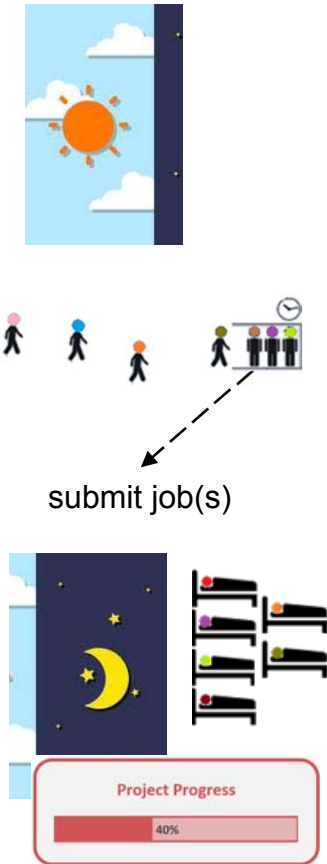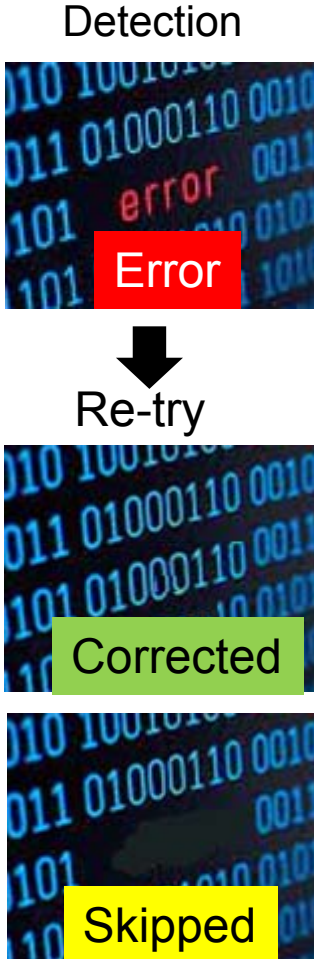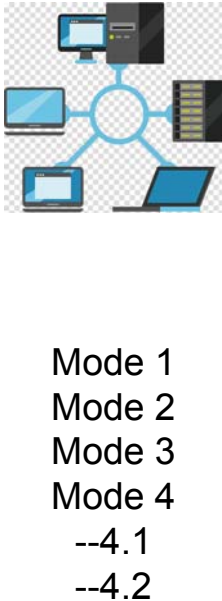- ➢ Make the automatable steps automated
- ➢ Pack the manual sessions together as one shot
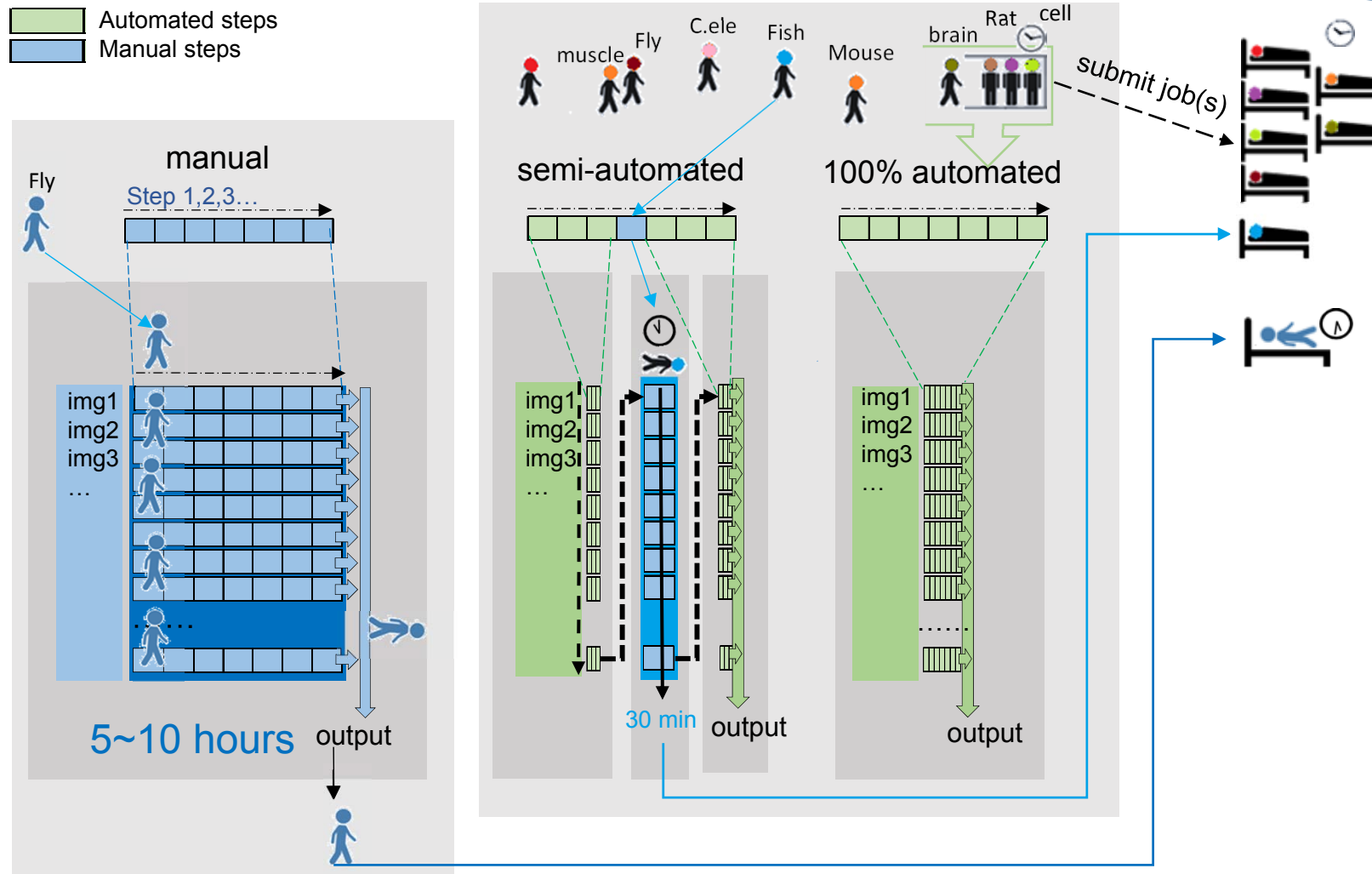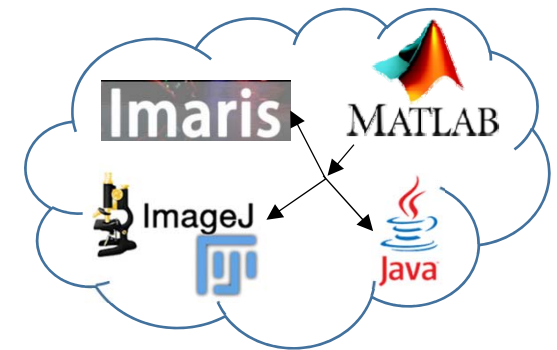
Considerations in addition to automation

Programming cost	Money cost	Sleep time usage	random error tolerance	Machine adaption

Programming cost

Framework

reduced, **but still exist!**

Product 1
Product 2
Product…n

Thus suitable for a process:
- Large amount of image files
- Multiple-steps
- Bulk data from trivial individuals
- Re-used for multiple times
- Re-used by multiple person
- Lab Routines

Money cost

1 copy

Imaris

daytime Imaris booking slot

bulk image work

thinking, testing scheduling the bulk

Sleep time usage

submit job(s)

Project Progress
40%

random error tolerance

Detection

Error

Re-try

Corrected

Skipped

Machine adaption

Mode 1
Mode 2
Mode 3
Mode 4
--4.1
--4.2