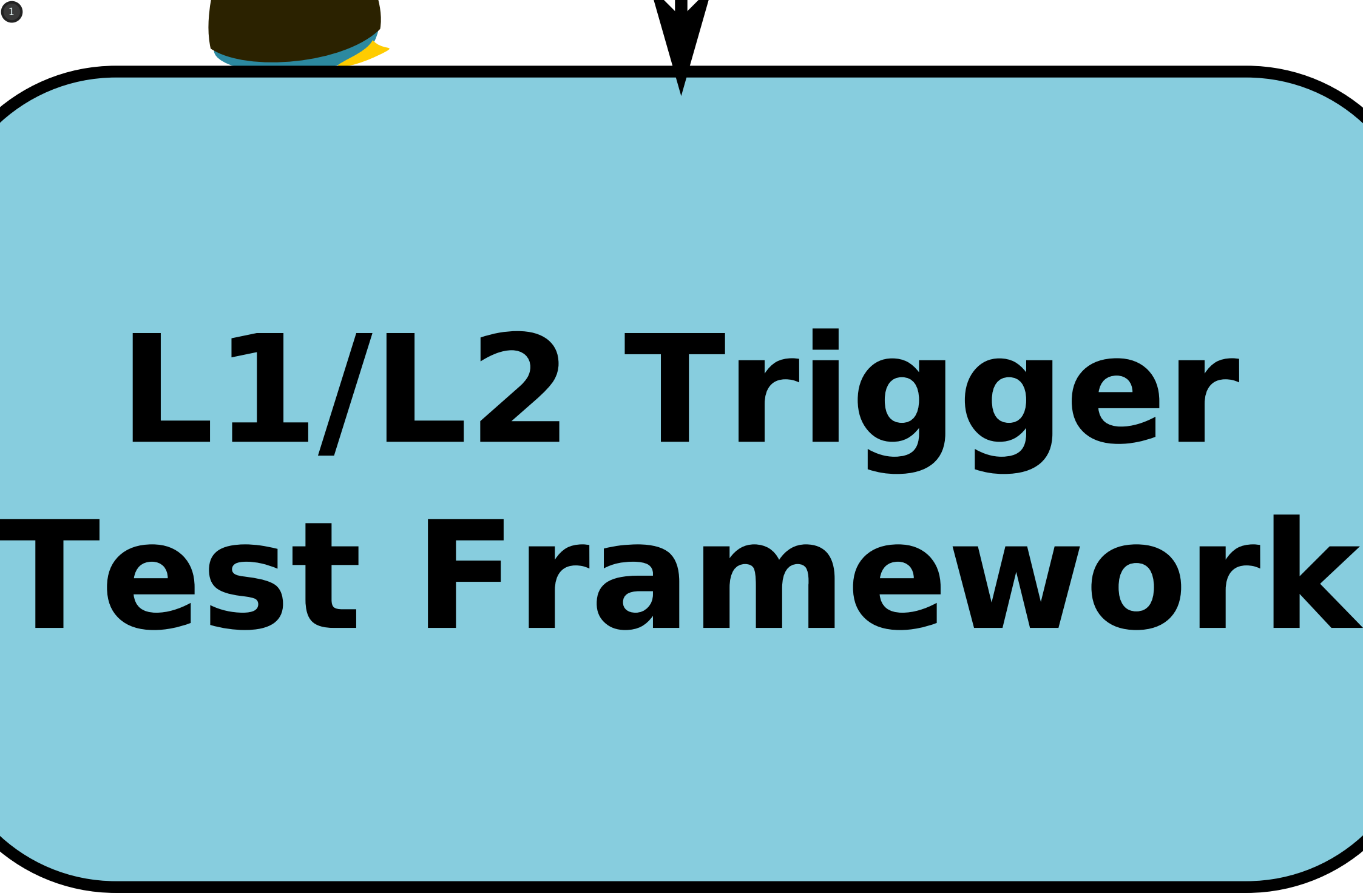
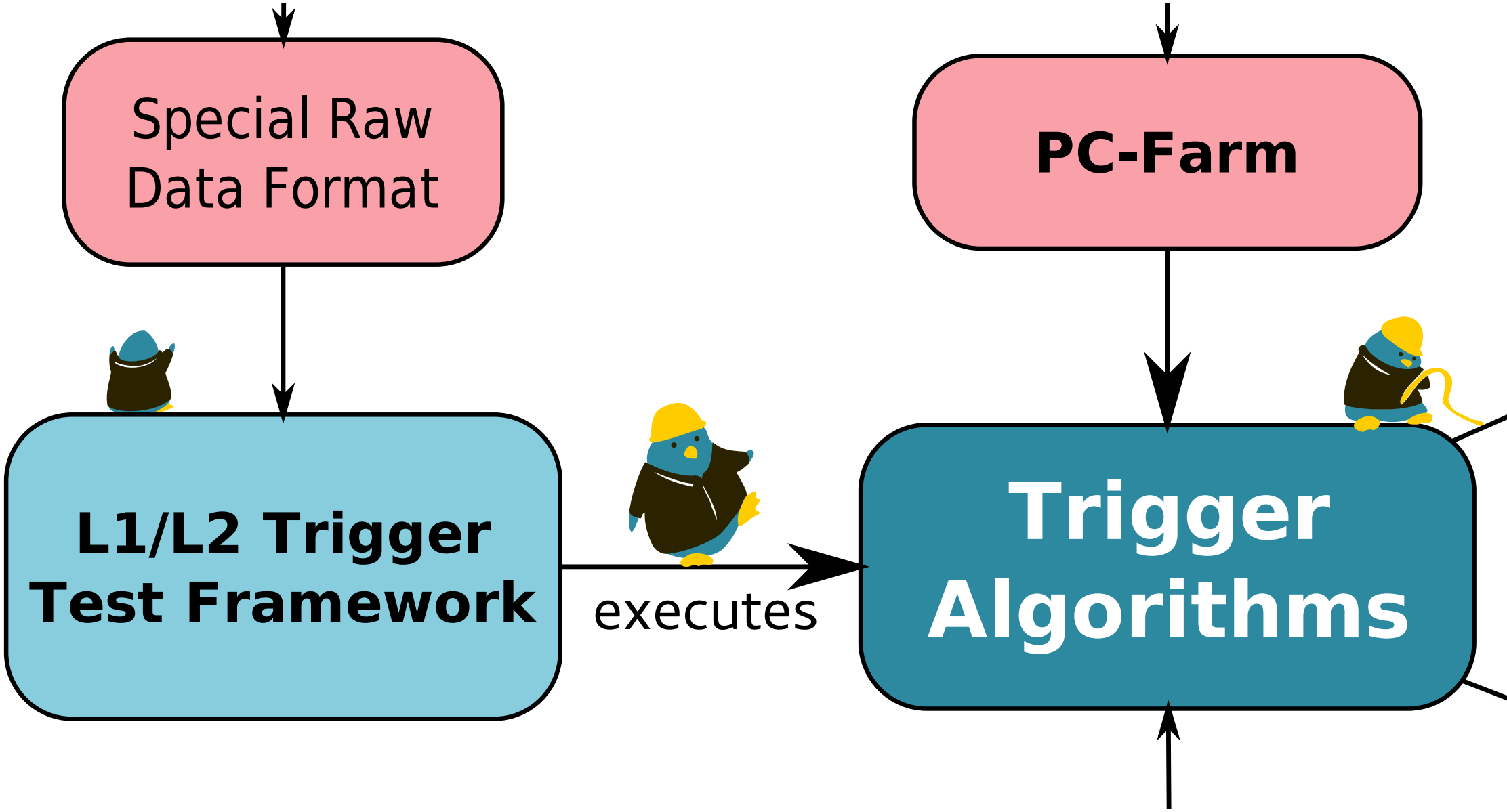
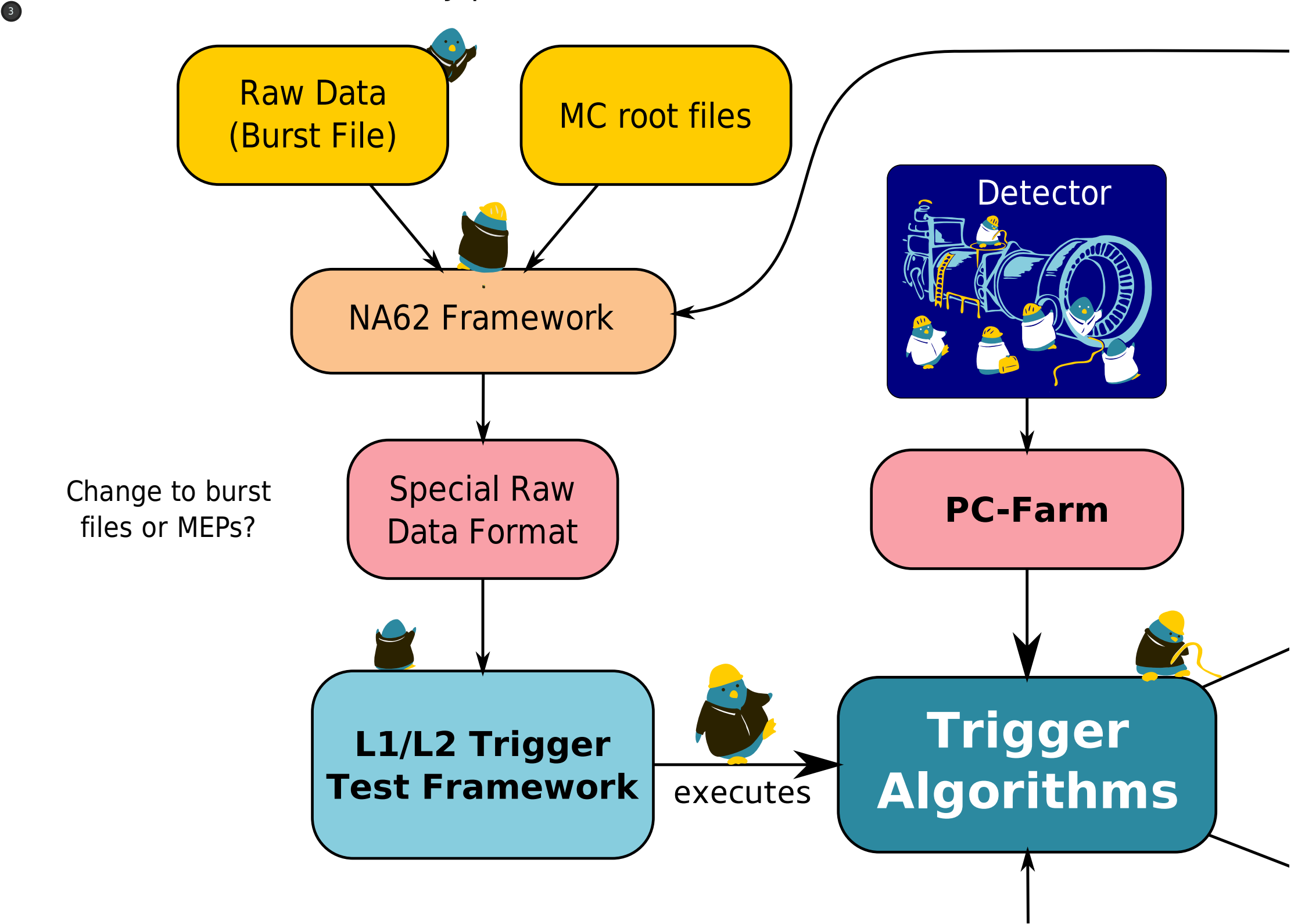
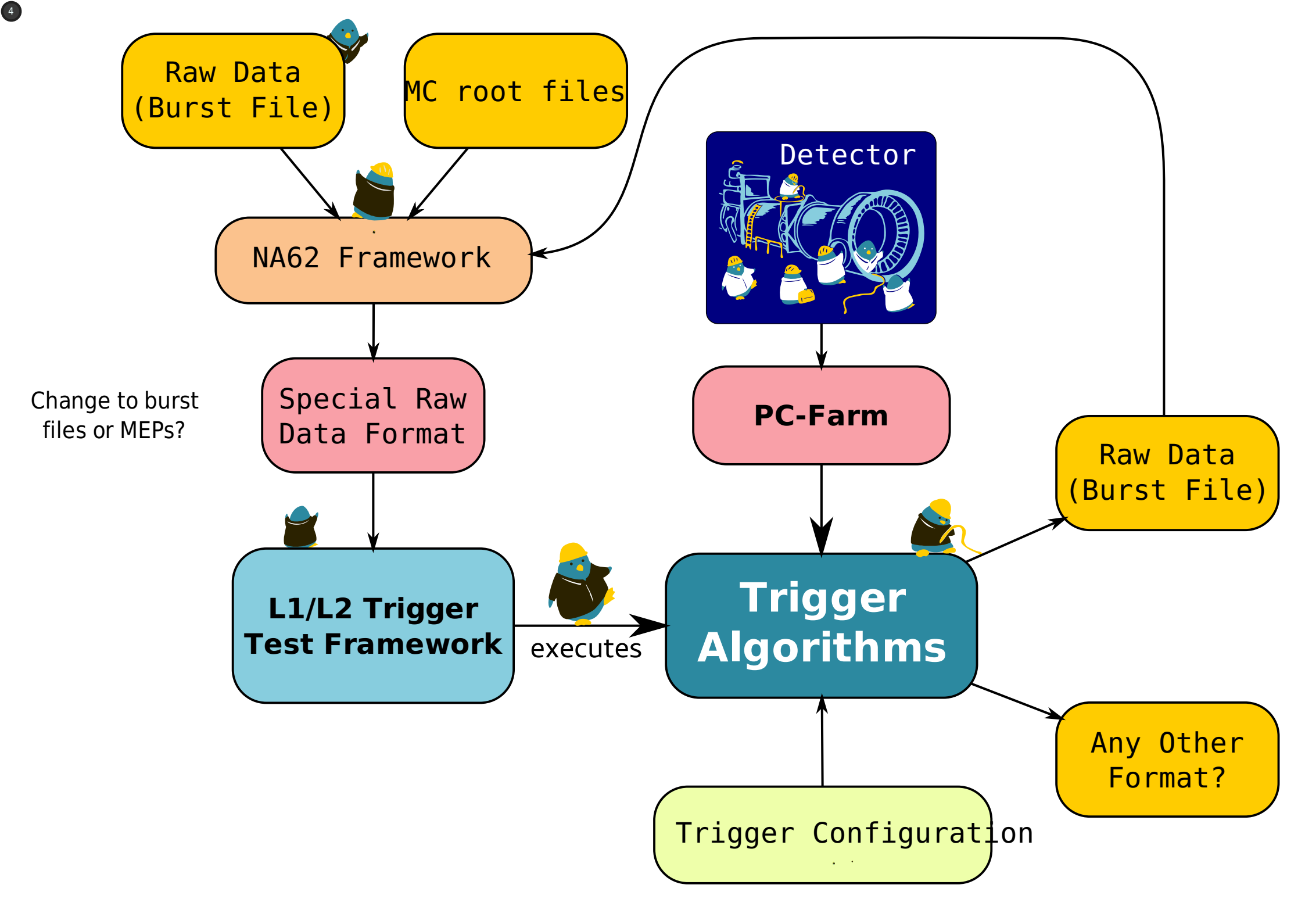

L1/L2 Trigger
Test Framework

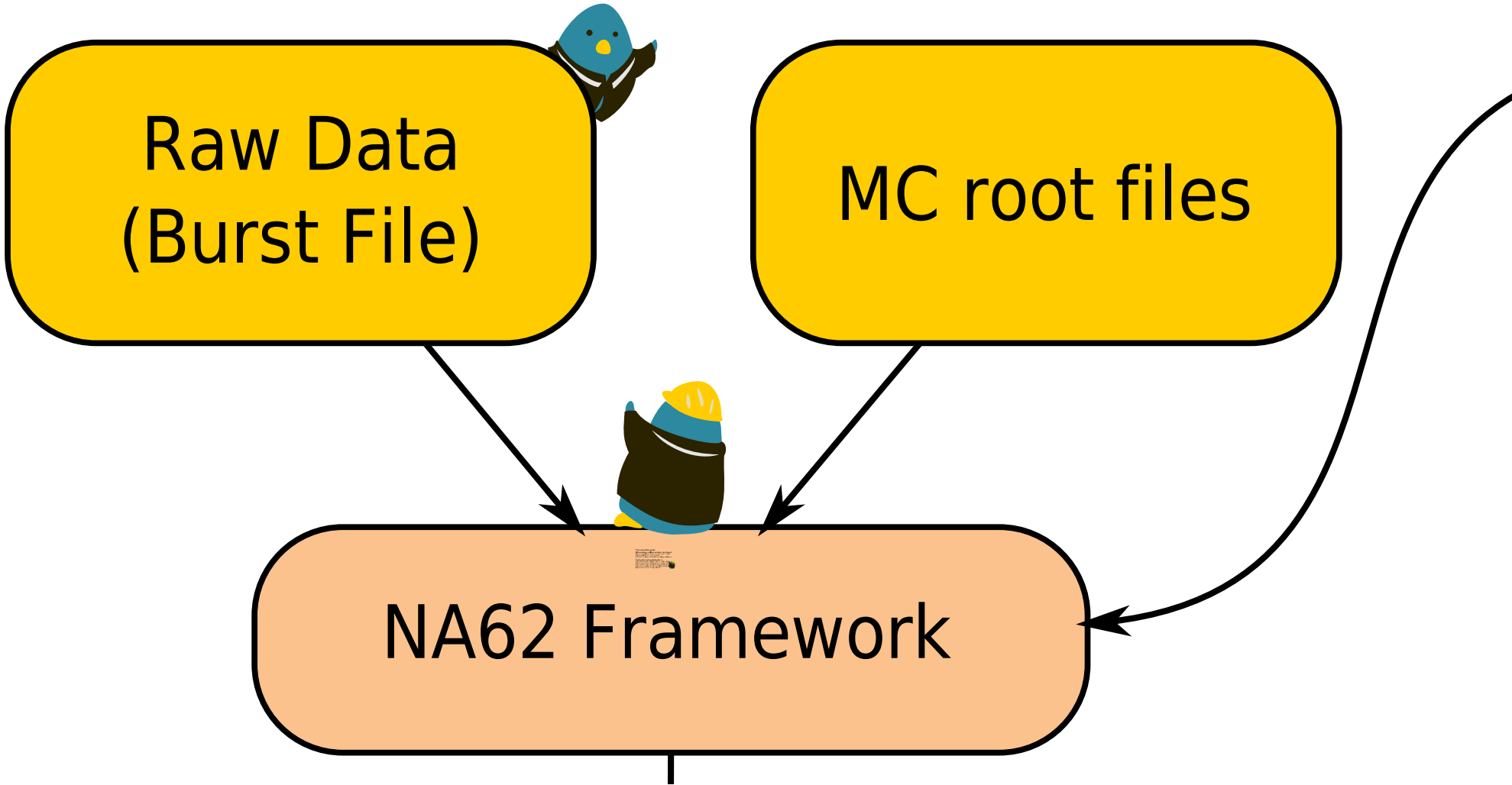

Special Raw
Data Format
PC-Farm
L1/L2 Trigger
Test Framework
executes
Trigger
Algorithms


Raw Data
(Burst File)
MC root files
Detector
NA62 Framework
Special Raw
Data Format
PC-Farm
Change to burst
files or MEPs?
L1/L2 Trigger
Test Framework
executes
Trigger
Algorithms


Raw Data
(Burst File)
MC root files
NA62 Framework
Detector
Special Raw
Data Format
PC-Farm
Raw Data
(Burst File)
Change to burst
files or MEPs?
L1/L2 Trigger
Test Framework
executes
Trigger
Algorithms
Any Other
Format?
Trigger Configuration

Not only for testing:

Offline reprocessing with new trigger conditions is easily possible



Thanks to Angela:

MC and burst files can be read out

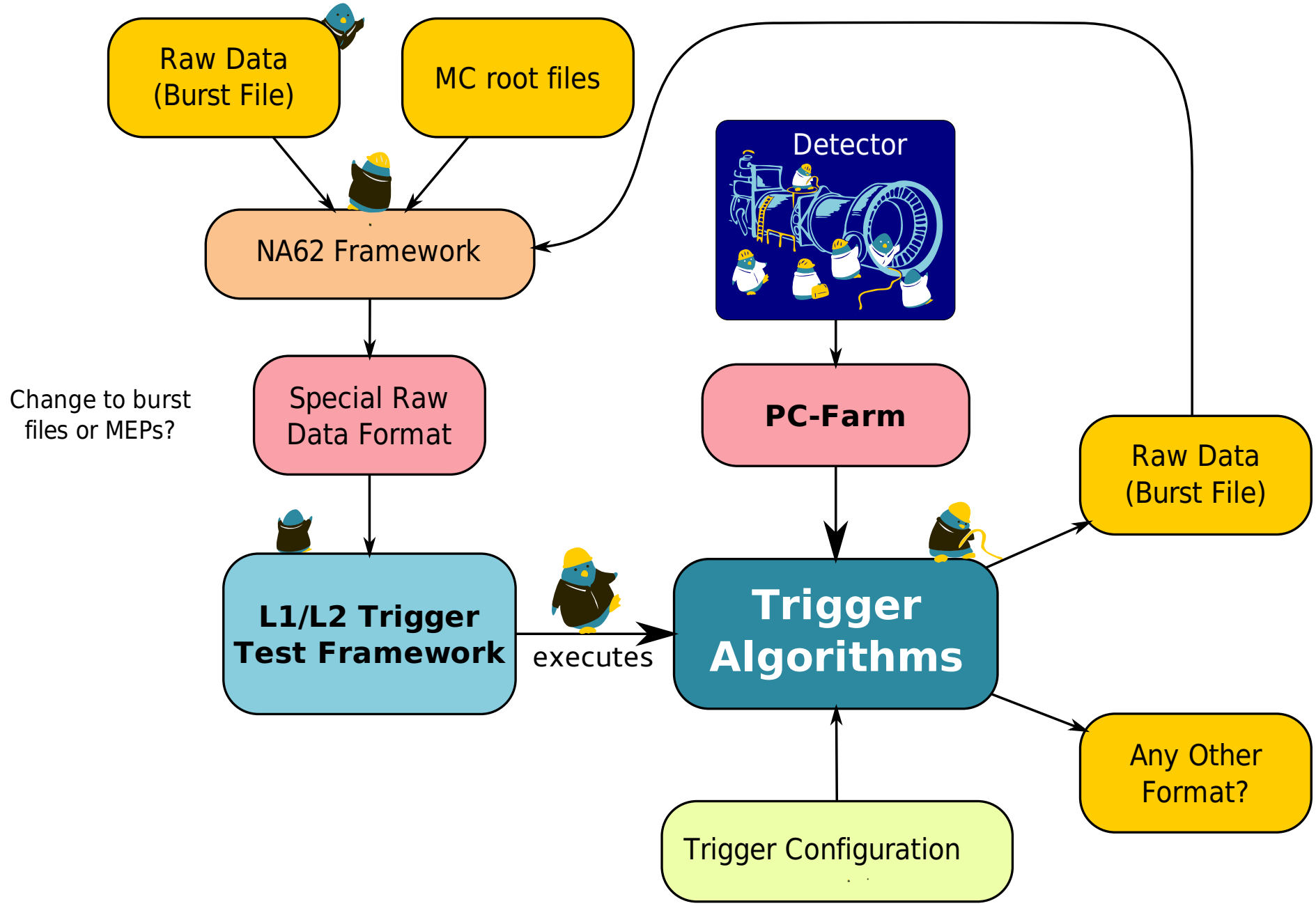
- MC and offline data can be processed
- Trigger efficiency analysis
- Reprocessing data with new trigger settings

To be done by detectors

- Provide detector specific configurations
- Ask Angela how to produce input data
- Read docs and ask Angela/me to get started:
github.com/NA62/na62-trigger-algorithms/wiki
- Implement L1/L2 algorithms

Not only for testing:

Offline reprocessing with new trigger conditions is easily possible



Configuration of

- enabled cuts
- downscalings
- L1/L2 bypassing
- trigger parameters

Config may be stored automatically in git

Configuration of

- enabled cuts
- downscalings
- L1/L2 bypassing
- trigger parameters

Config may be stored automatically in git:

Get config by date:

```
git checkout 'master@{2015-06-15 18:31:43}'
```

Get config by runID:

```
git checkout -b run1234 1234
```

Trigger decision and downscaling:

- every detector generates an 8 bit trigger word
- every possible value has its own downlscaling factor
- based on all 8 bit words a global L1/L2 word (8 bit) is g

Information is lost!

- detector specifig trigger word should be stored
- reconstructed data should also be stored an reused offli

A special detector ID may be used to store data in output d

If you have questions, please contact

angela.romano@cern.ch
or **kunzej@cern.ch**

and please keep in mind....

I'm going to leave NA62 end of march!