Dependable System Laboratory (http://dslab.naist.jp)

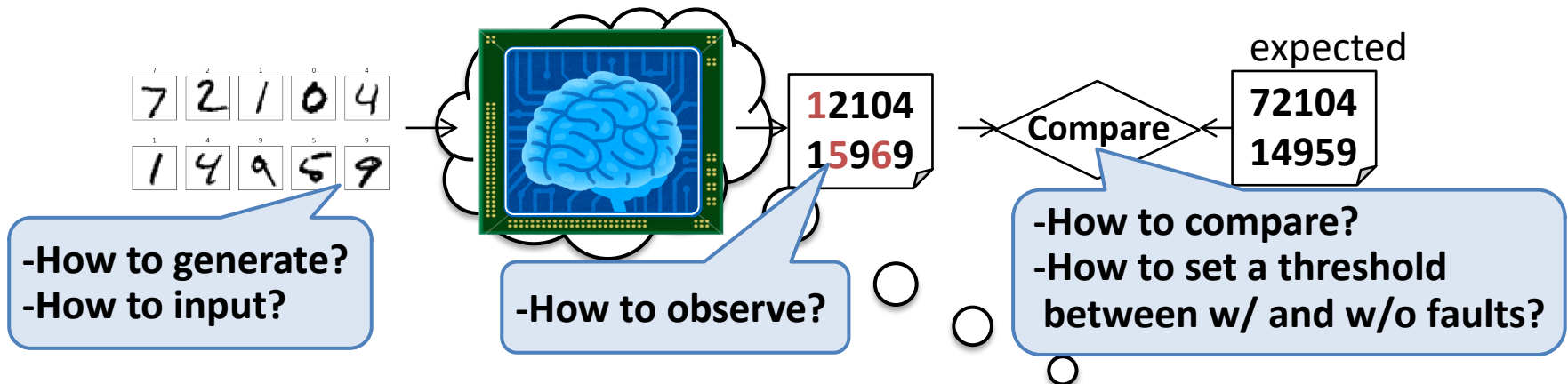## (1) How to design and test **Neuromorphic Devices**

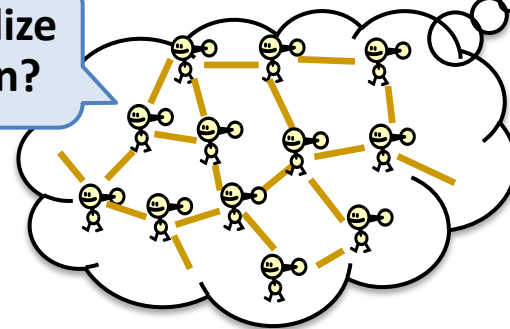- **Challenge: Such devices return a possibly inaccurate results**

expected

12104
15969

Compare

72104
14959

-How to generate?
-How to input?

-How to observe?

-How to compare?
-How to set a threshold between w/ and w/o faults?

(2) How to design population protocols toward **Nano-Scale Distributed Systems**

- **Challenge: Devices are weak and unstable**

- How to realize cooperation?

Experiments with 100 kilobots

mimic neurons

construct networks inside body