

CLIF/SelfBench, a software framework for self-benchmarking

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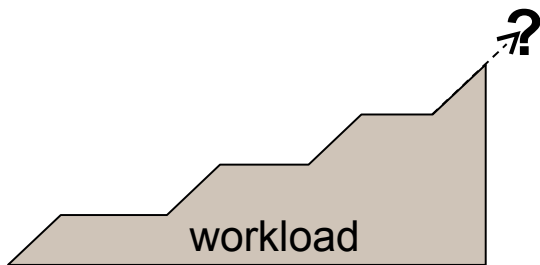


Load testing basics



supervision

Load injectors and probes control



Ramp-ups and steps, looking for performance limits

load injector 1

load injector 2

probes

load injector n

Probes measure consumption of computing/networking resources

probes

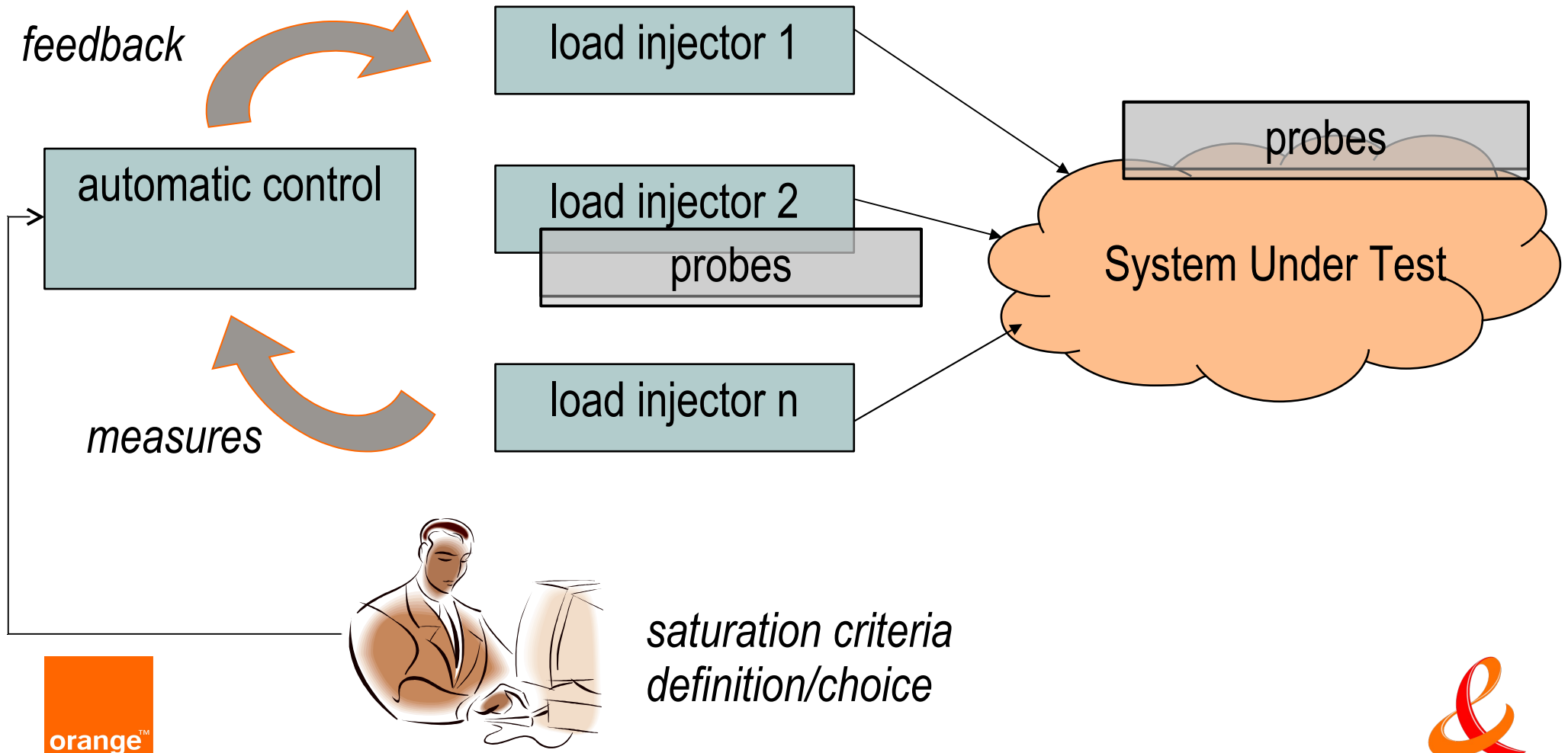
System Under Test



Load injectors

- *send a flow of requests (workload)*
- *typically emulating real user sessions through "virtual users"*

Towards self-benchmarking with self-regulated workload



CLIF is a Load Injection Framework

- **CLIF is a software framework for load testing**

- adaptable/extensible, independent from:

- the System Under Test
(protocols, probes/observed resources)
- the workload definition mode
- user interfaces (Java/Swing, Eclipse, command line...)

- based on a component model (<http://fractal.ow2.org/>)

- distributed infrastructure designed for high level workloads

- 100% Java (+ specific or native code for system probes)



- **Project launched and lead by Orange Labs**

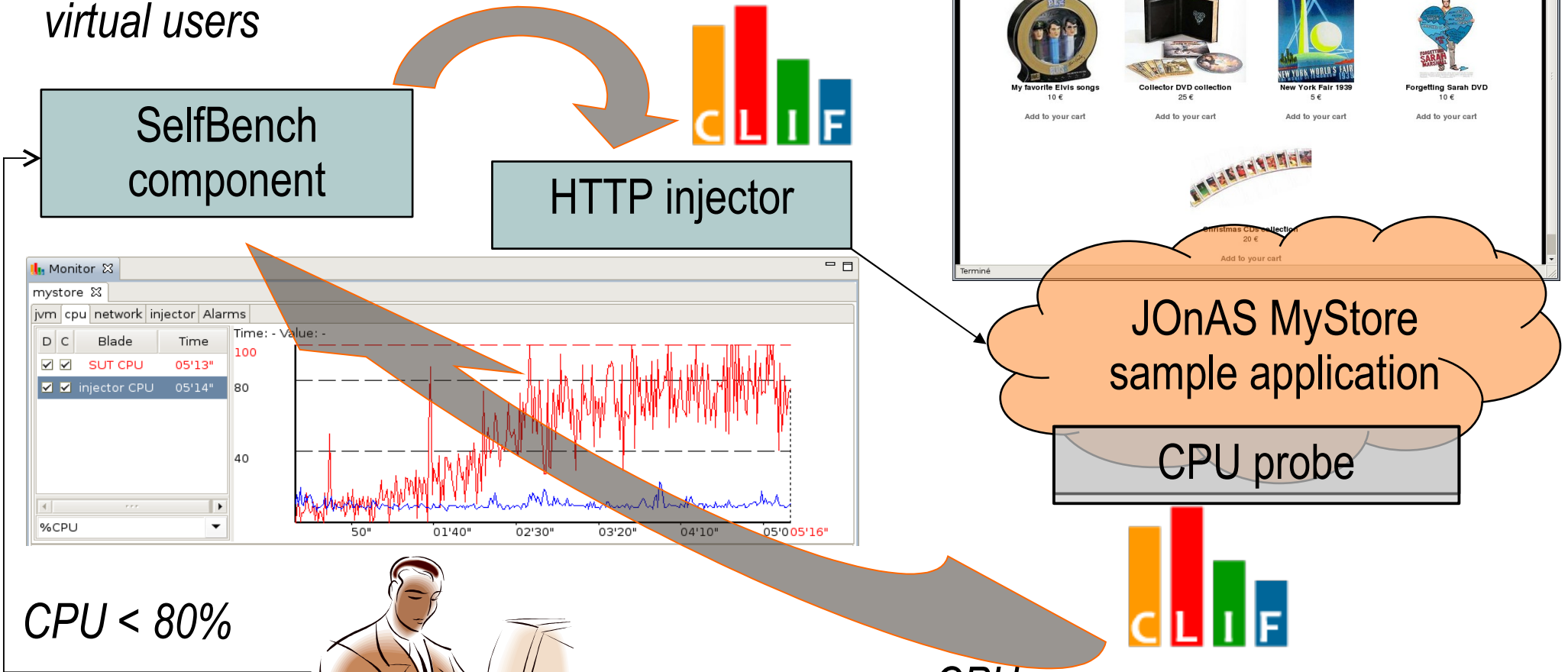
- Launched in year 2002 with INRIA, within OW2 consortium (formerly ObjectWeb)

- **visit <http://clif.ow2.org/>**



Self-benchmarking a web application with CLIF+SelfBench

adjust number of active virtual users



CPU < 80%



CPU measures

