How we benefits from KIND (kubernetes in docker)

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* Kind ecosystems and operators (Dario Maiocchi)

* Kind with custom images and in kubic-init context (Alvaro Saurin)

What is kind ?

https://github.com/kubernetes-sigs/kind

Kubernetes in docker

Why kind?

Kind is lightweight.

Run test locally and remotely (GitHub) fast and easy
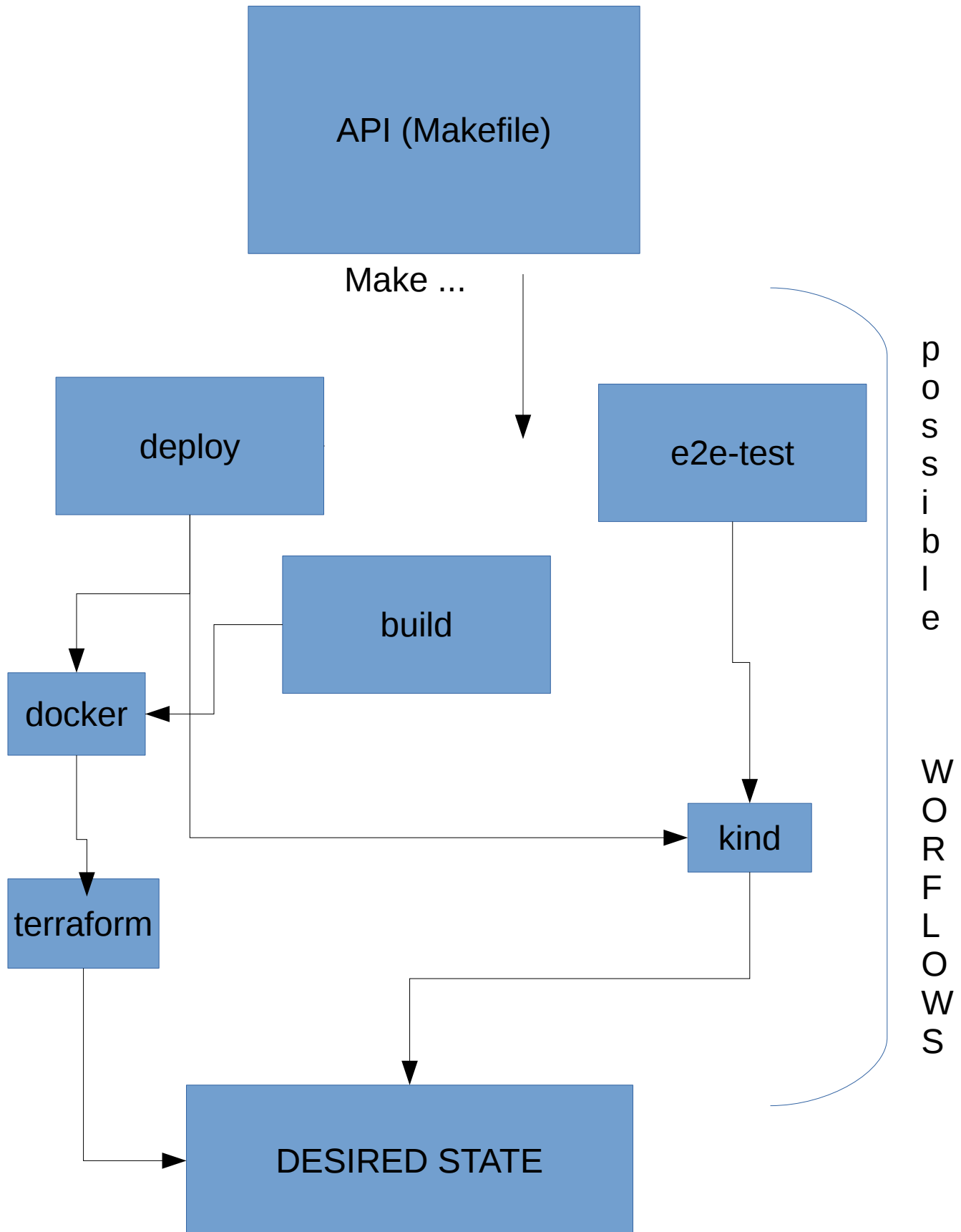
* Kind ecosystems and operators

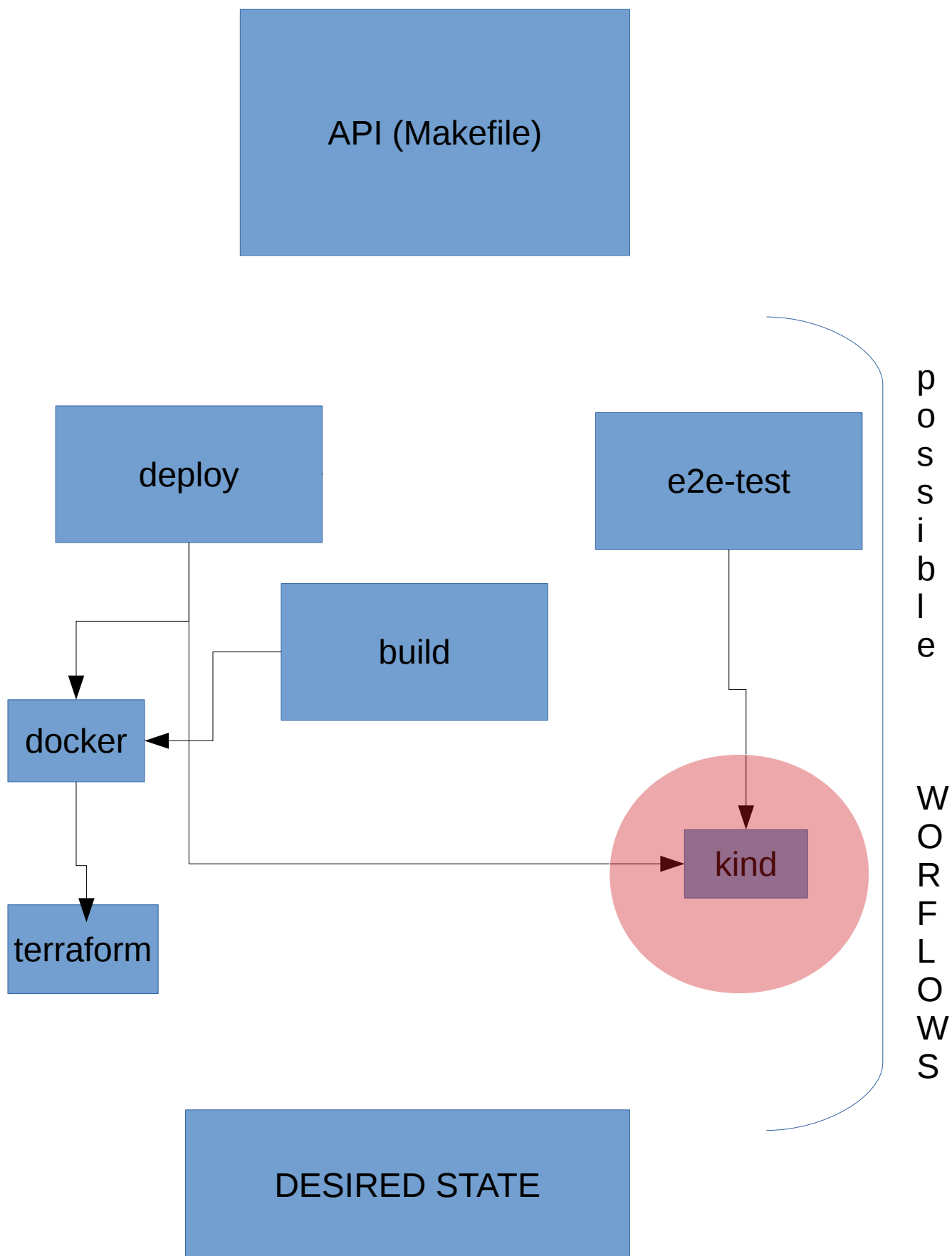1) The general idea about how kind fit in our existing context

2) Kind with kubernetes operators. (registry-operator and dex as example)

DESIGN GOALS:

1) REMOTE = LOCAL execution

2) Frameworkless as possible

3) easy to execute, change and maintain. (API allow transparency)

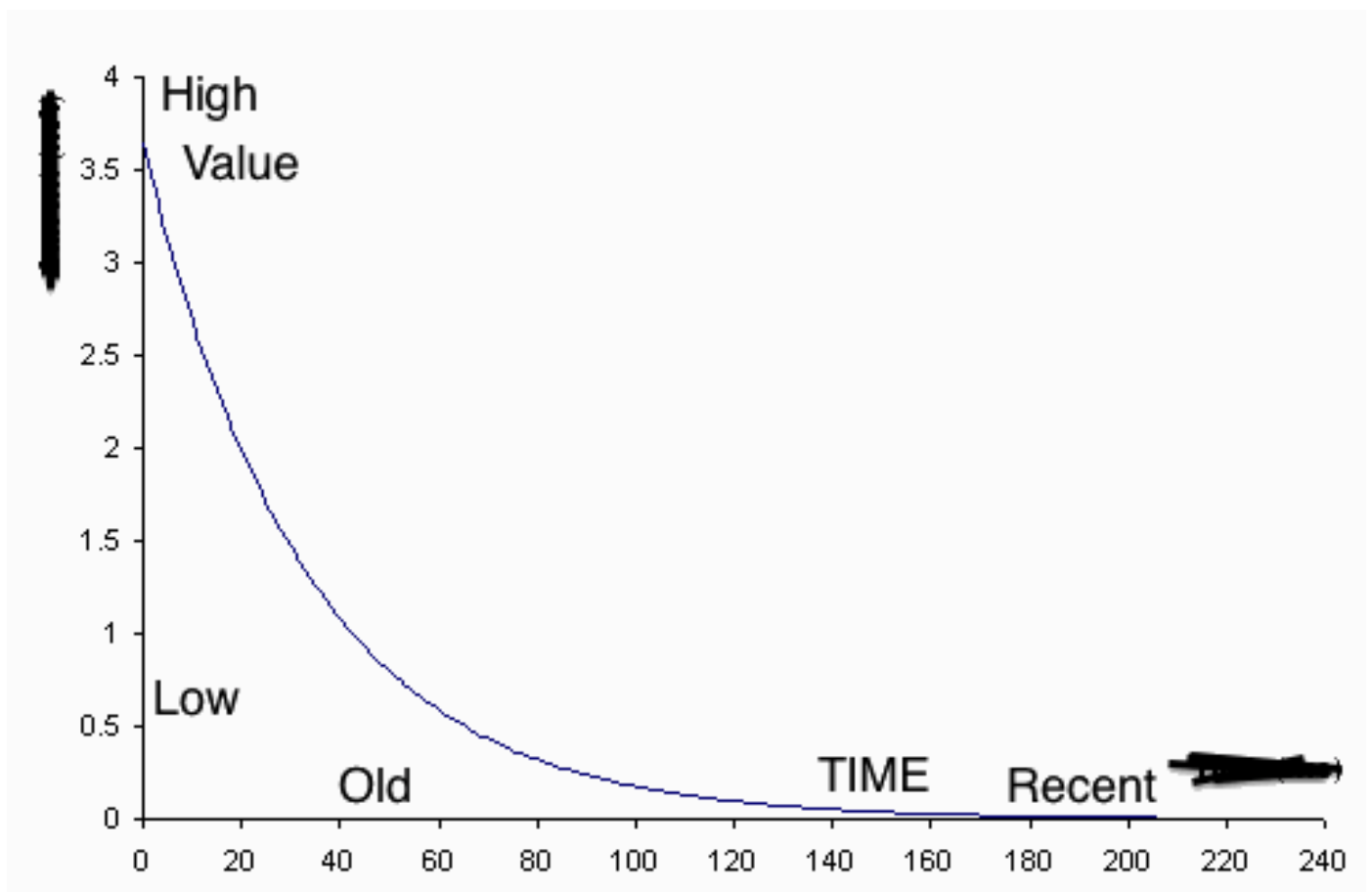4) Beeing composable of small units (UNIX principle)
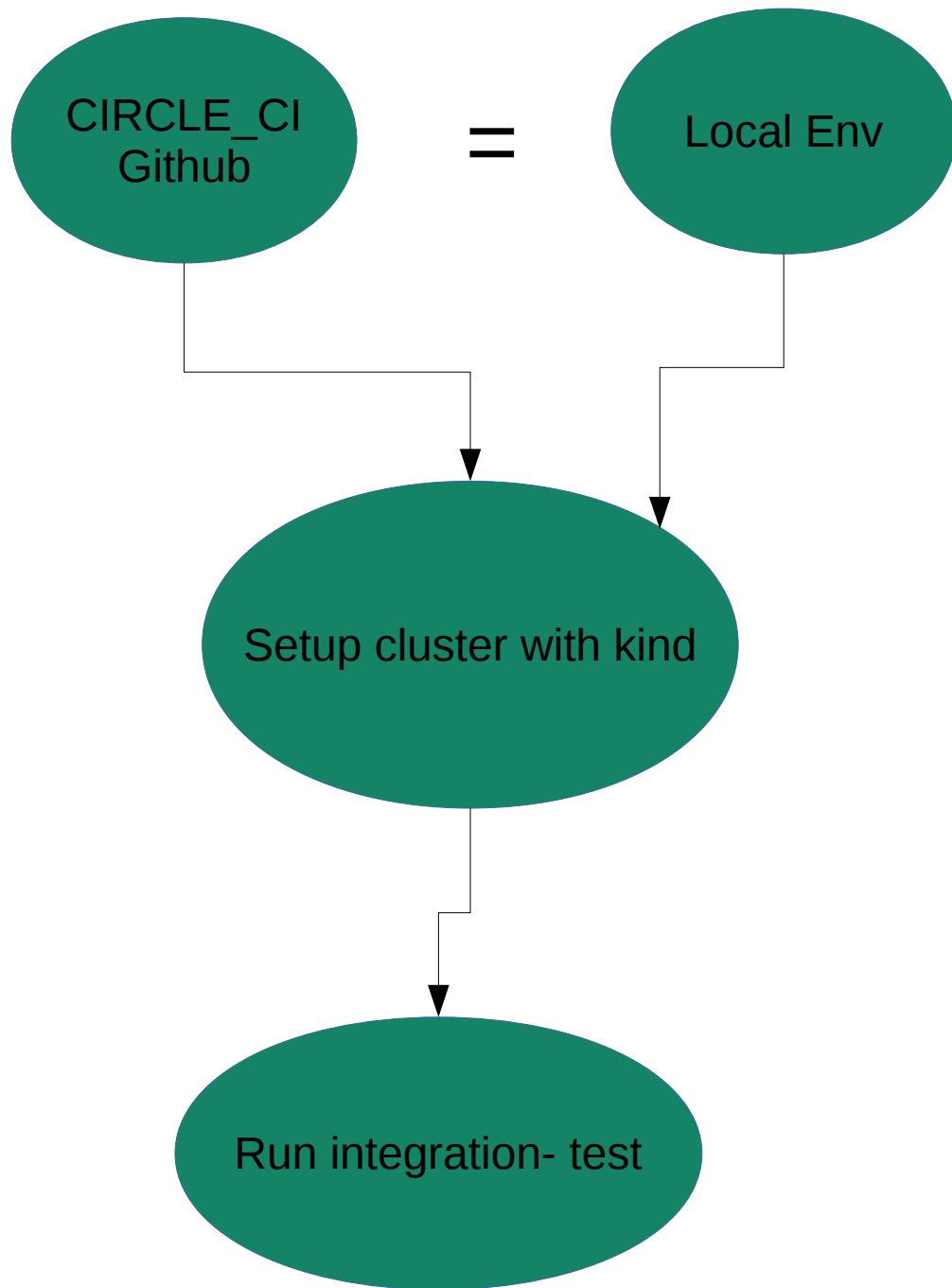
API DEEP-DIVE

API (Makefile)

Make ...

deploy

e2e-test

build

docker

kind

terraform

DESIRED STATE

possible WORFLOWS

API (Makefile)

deploy

e2e-test

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DESIRED STATE

possible WORFLOWS

Makefile?

The Lindy effect is a concept that the future life expectancy of some non-perishable things like a technology or an idea is proportional to their current age, so that every additional period of survival implies a longer remaining life expectancy.

```
              CIRCLE_CI                           Local Env
               Github                =
```

Setup cluster with kind

Run integration- test

GOAL: validate operators against a
cluster before merging Prs.