

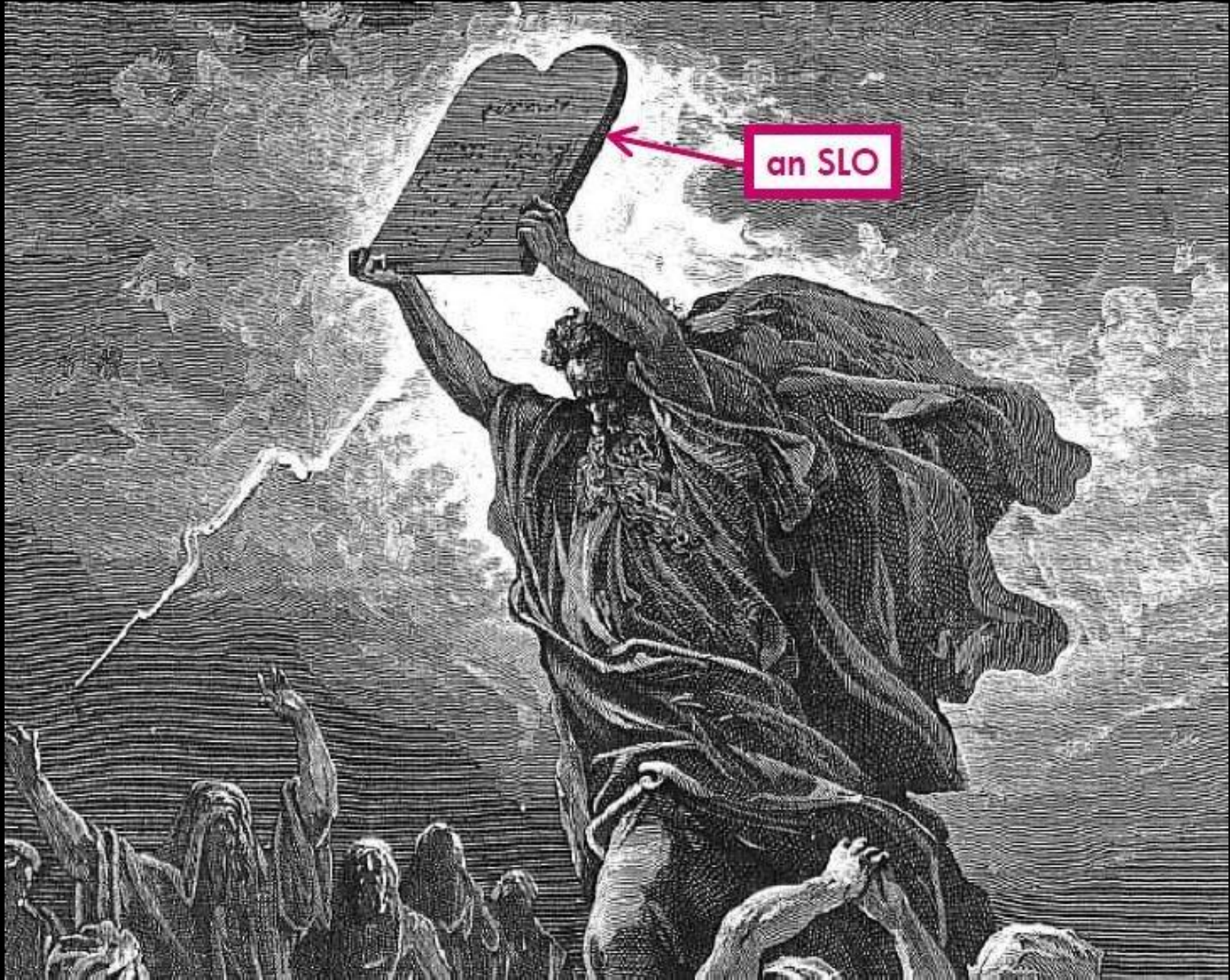


FeBID panel

johnwilkes@google.com

version of 2010.04.12

**I know what
you want**



an SLO

I know what you want

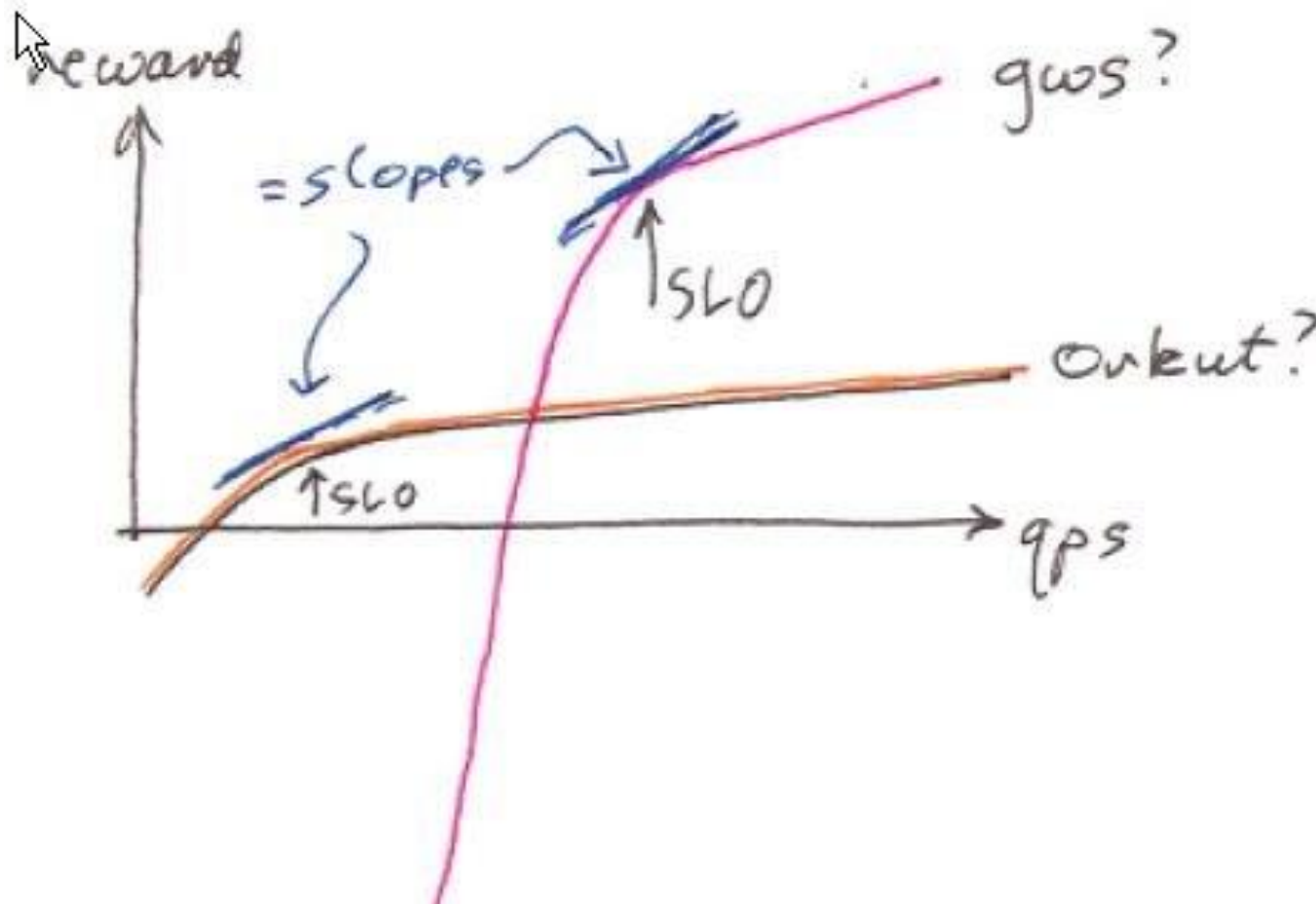
Really?

- good/better/best, or absolute performance?
- slack for latency-sensitive, front-facing loads?
- what should happen if I need to cut power?
- who gets the energy first?
- (partial) availability?

- preference solicitation
- requirements engineering

SLAs + control systems

With a uniform way of expressing "value" and "pain", we can make automated trade-offs between multiple customers



**I can give
it to you**

I can give it to you

Really?

- non-linear resource → performance mapping
- stacked services
- trade-offs at different timescales

**Some things
are easy**

Some things are easy

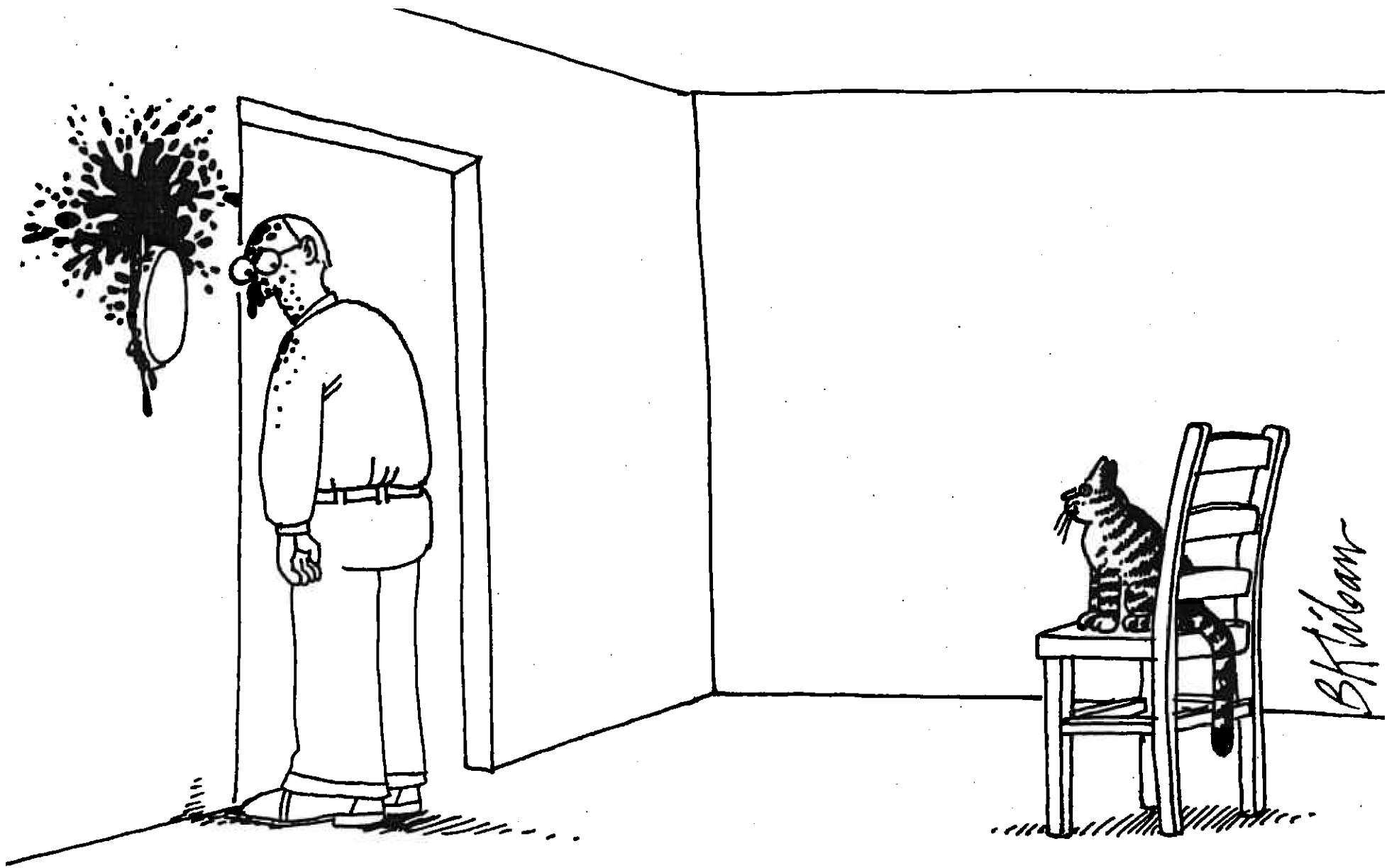
Easy wins:

- failover (local, site, region), recovery
- scaling up/down
- static priorities
- alerting

A little harder:

- algorithm/policy switches at operating regime boundaries
- behavior prediction and anticipatory reactions
- tradeoffs & competing goals

**Some things
are not**



B. K. Moran

Some things are not

Risks:

- It won't work
- It's too hard to deploy
- It won't provide enough benefit - we don't need it
- This is too hard to understand – but can you extend it to handle X, Y and Z ...“

Building trust:

- explaining why (machine learning, anyone?)

Alternatives?

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