

Introduction to infrastructure

VAMDC PMI
April 2010



Golden rule

The trick with infrastructure
is not to have any...

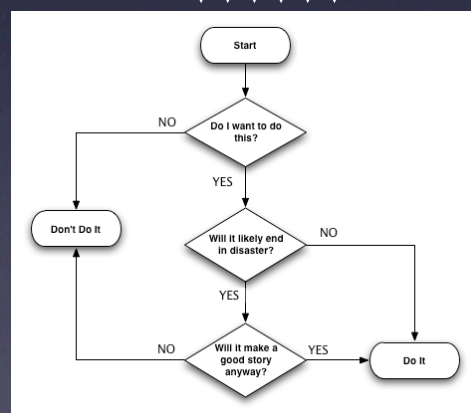
...or, at least, not to have very much.

Minimal infrastructure?

Standard UIs (portals, desktop apps)



Standard interfaces



Codes

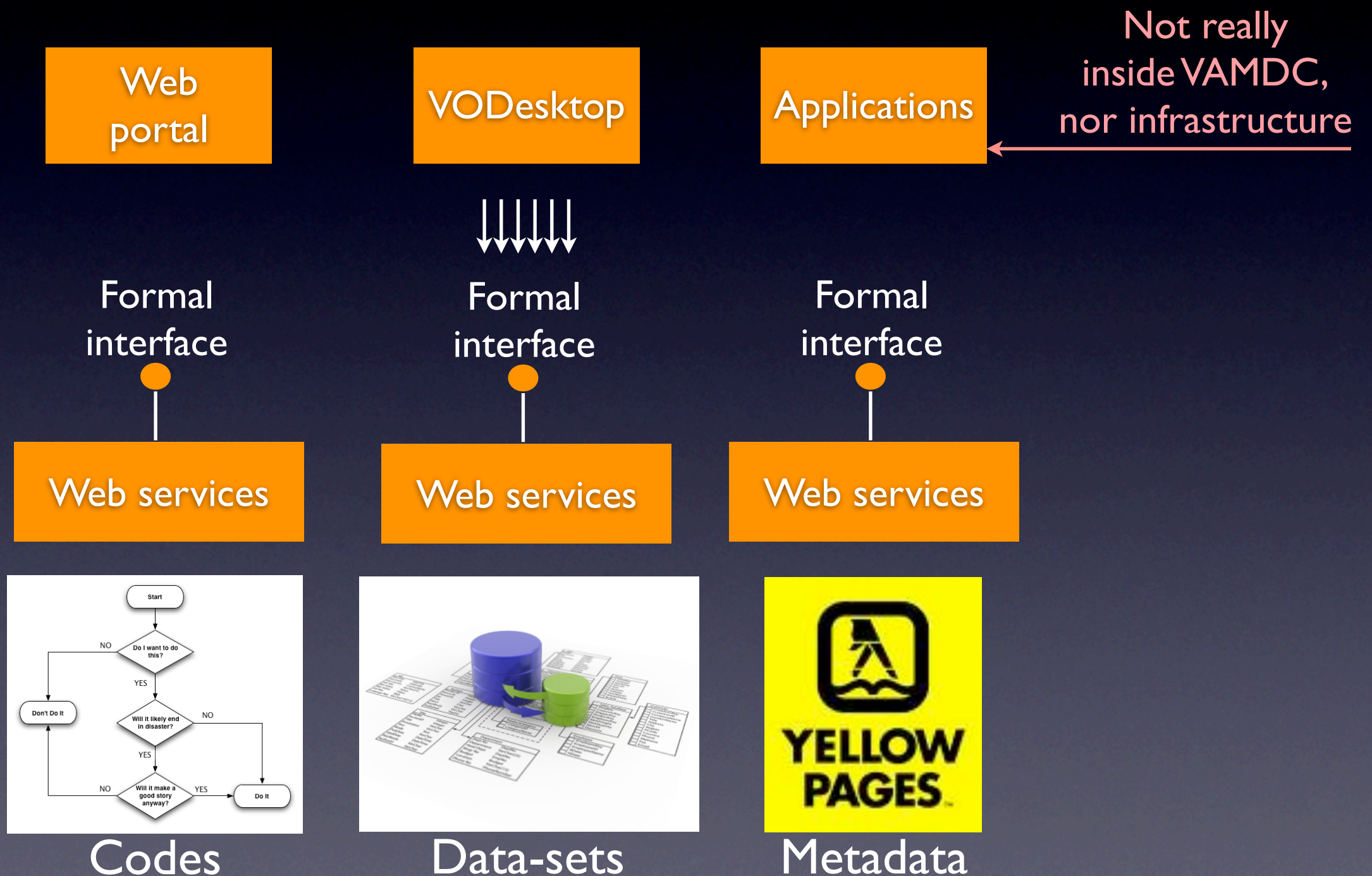


Data-sets

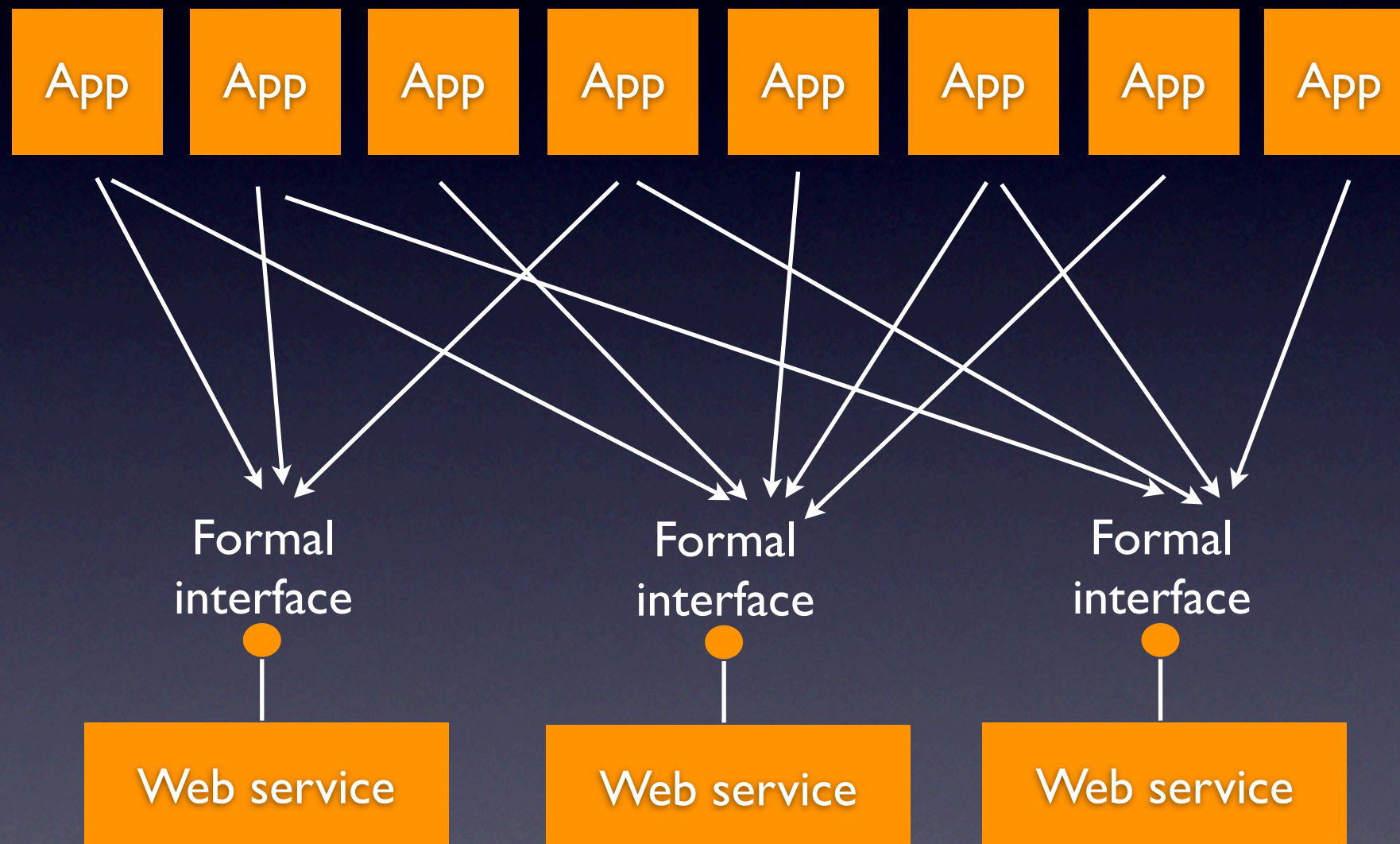


Metadata

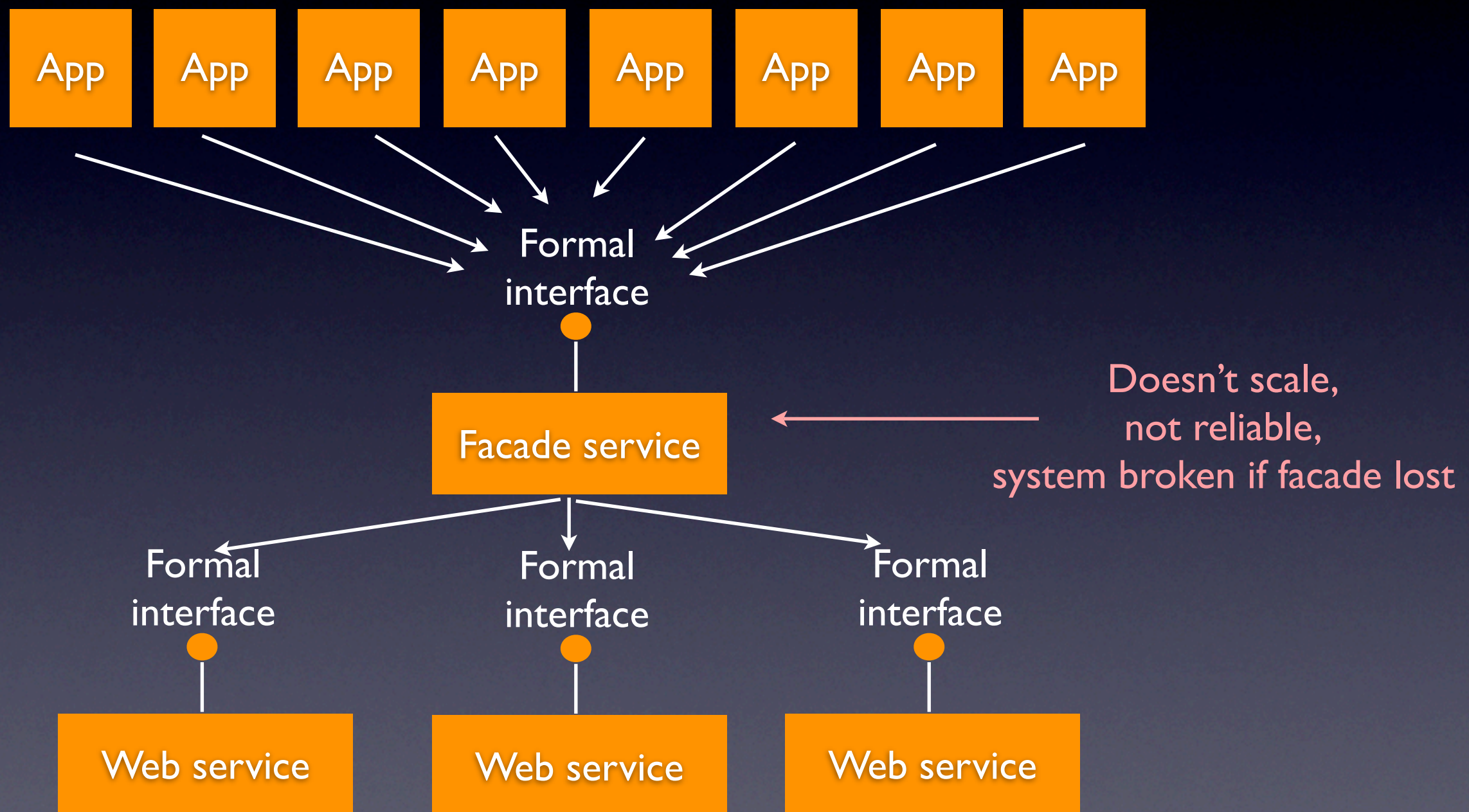
More specifically...



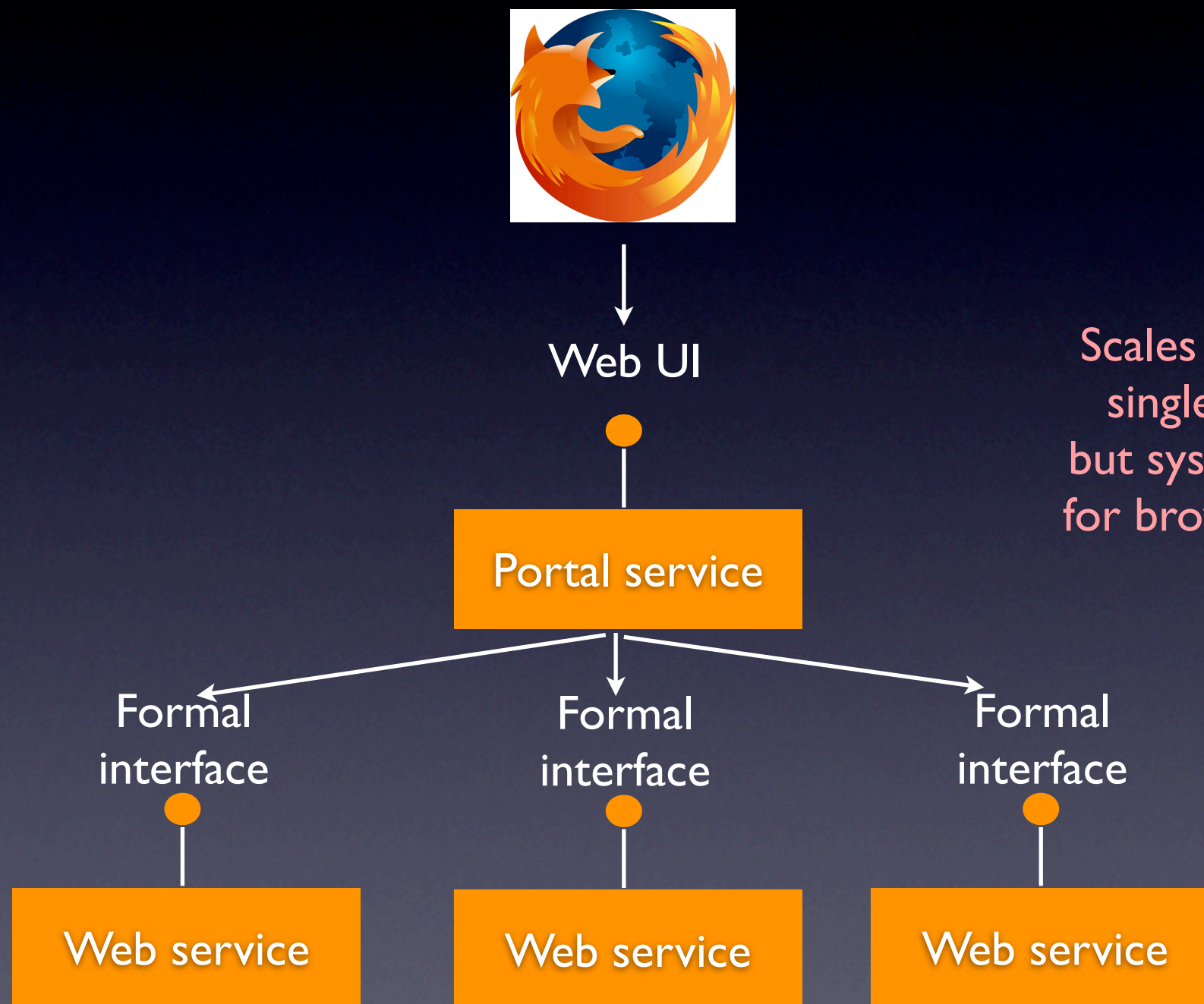
Good: many-many links



Bad: facade service

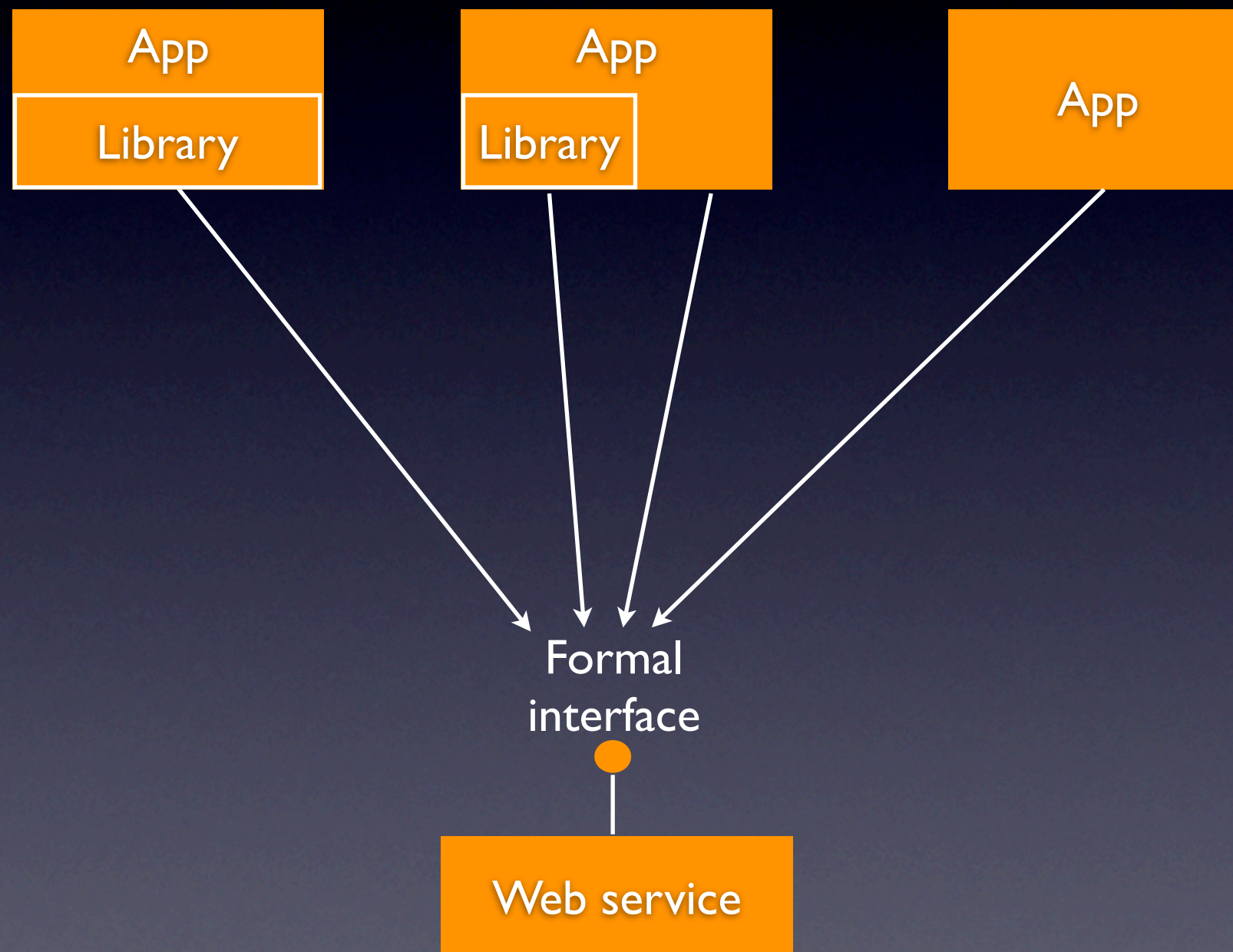


Compromise: web portal

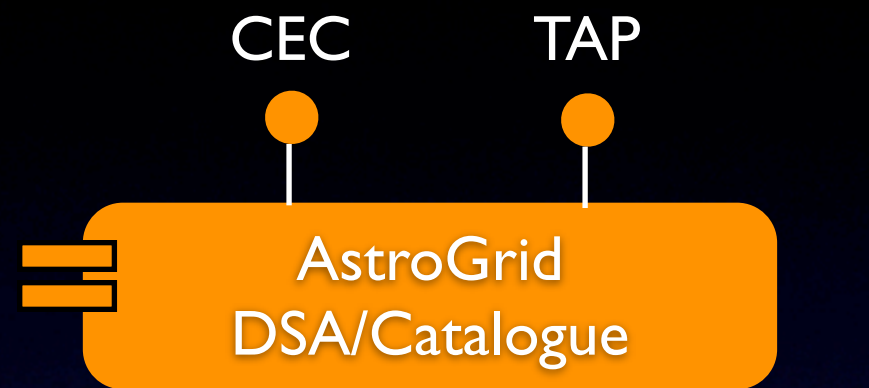


Scales to human speeds,
single point of failure,
but system “only” broken
for browsers if portal lost

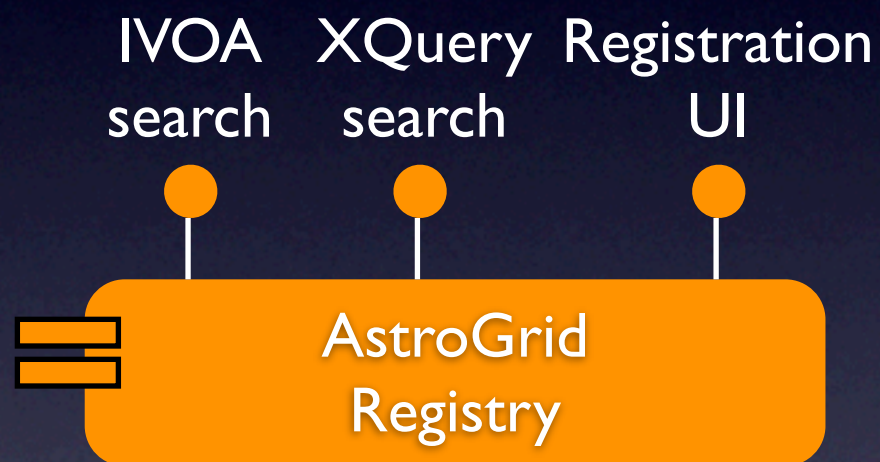
Acceptable: library facade



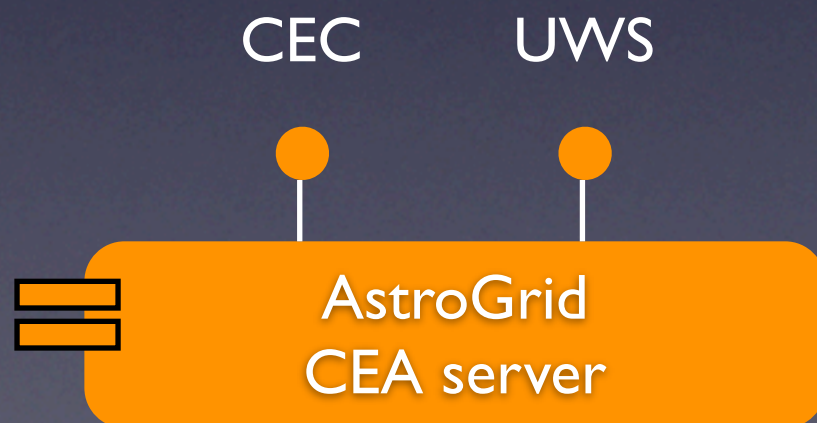
Components



For table queries

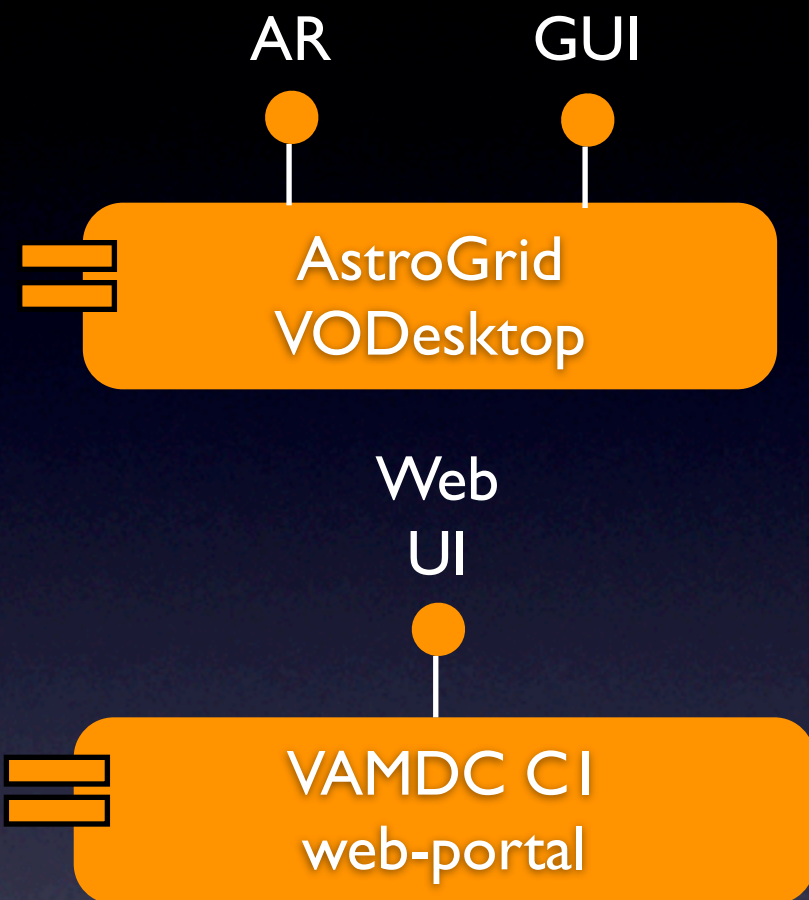


Storing and querying metadata (has own DB)



Running codes as services

More components



Generic UI: registry, TAP, etc.

Web access - similar functions to VODesktop

And more...



Calling services in workflows



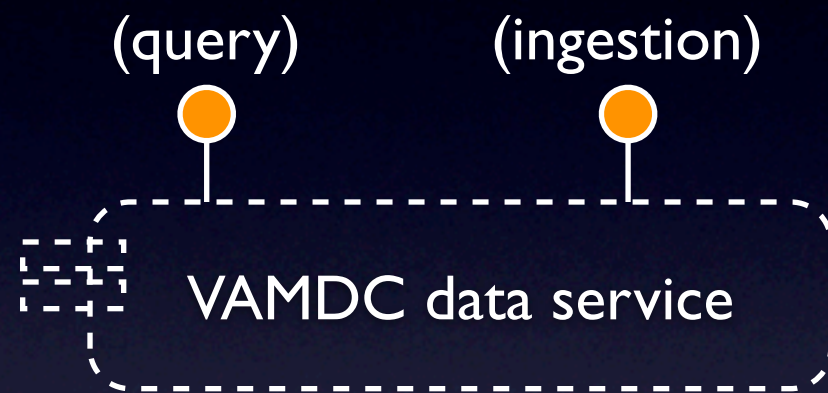
Plug-in for IVOA services



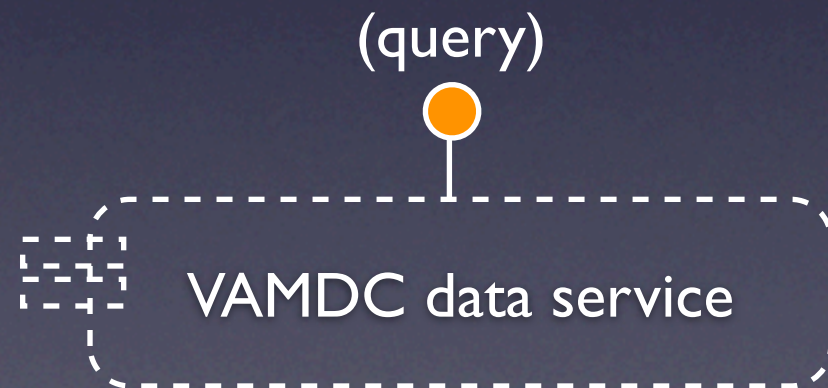
Plug-in for IVOA services
(potential)

...and more

Query results in DM (XSAMS);
reusable component - publication
path B
(potential)



Query results in DM (XSAMS);
bespoke component - publication
path A
(prototypes)



Do we need more?

(Hint: “no” is a good answer.)

Parts list to make a service

(Hand-waving version; exact needs for a specific service might vary)

