What if ...?

Some commonly asked questions

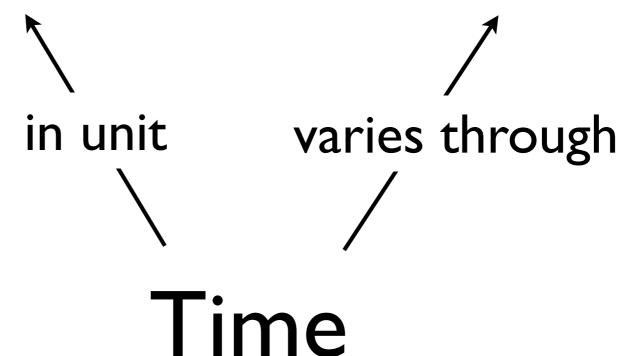
What if the technology we use fails?

Risk = Likelihood x Severity

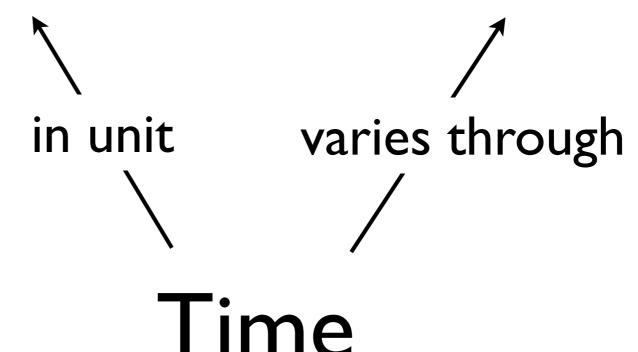
Risk = Likelihood x Severity

in unit
\
\
\
Time

Risk = Likelihood x Severity

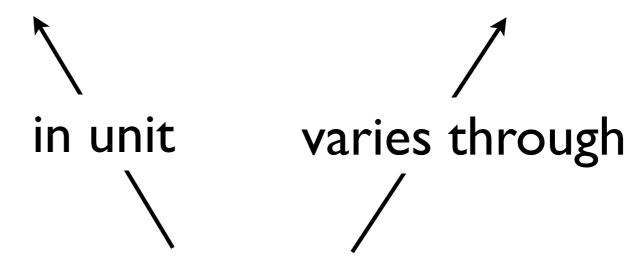


Risk = Likelihood x Severity



As time tends to infinity so risk tends to 100%

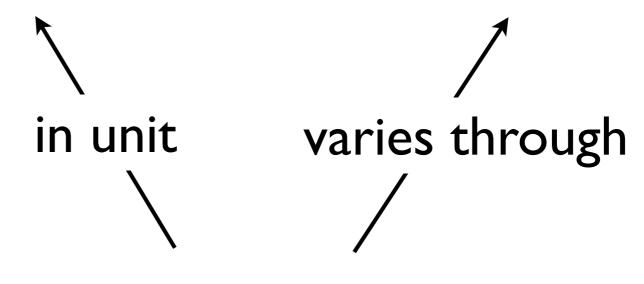
Risk = Likelihood x Severity



Time

- As time tends to infinity so risk tends to 100%
- But severity may be unpredictable

Risk = Likelihood x Severity



Time

- As time tends to infinity so risk tends to 100%
- But severity may be unpredictable
- Not a helpful way to think of identifiers

Given long enough change is inevitable

Given long enough change is inevitable

Nothing lasts forever

Given long enough change is inevitable

Nothing lasts forever

Question is whether it will be replaced by something compatible

Continuity = Usefulness x Ubiquity

People will replace something that they need

Continuity = Usefulness x Ubiquity

People will replace something that they need

Continuity = Usefulness x Ubiquity

The more people use it the more likely someone is to produce a replacement

People will replace something that they need

Continuity = Usefulness x Ubiquity

The more people use it the more likely someone is to produce a replacement

(Could include simplicity)

HTTP

TCP/IP

"Network Magic"

HTTP

Our World

TCP/IP

"Network Magic"

HTTP

Our World

TCP/IP

"Network Magic"

Nothing to do with us

Extremely Ubiquitous

- Extremely Ubiquitous
- Extremely Useful

- Extremely Ubiquitous
- Extremely Useful
- Point to point protocol

- Extremely Ubiquitous
- Extremely Useful
- Point to point protocol
- Only requires server and client to understand protocol

- Extremely Ubiquitous
- Extremely Useful
- Point to point protocol
- Only requires server and client to understand protocol
- We could maintain it within our community

Extremely Ubiquitous

- Extremely Ubiquitous
- Extremely Useful

- Extremely Ubiquitous
- Extremely Useful
- c.f. Trademarks, Copyright, Patenting

- Extremely Ubiquitous
- Extremely Useful
- c.f. Trademarks, Copyright, Patenting
- Depends on root servers not just point to point

- Extremely Ubiquitous
- Extremely Useful
- c.f. Trademarks, Copyright, Patenting
- Depends on root servers not just point to point
- Community could easily set up own root servers if needed

Tech Failure: Summary

Tech Failure: Summary

Depends on only two technologies

Tech Failure: Summary

- Depends on only two technologies
- Both Useful and Ubiquitous at the moment

- Depends on only two technologies
- Both Useful and Ubiquitous at the moment
- Both free and easy at the moment

- Depends on only two technologies
- Both Useful and Ubiquitous at the moment
- Both free and easy at the moment
- Both highly likely to continue in some form

- Depends on only two technologies
- Both Useful and Ubiquitous at the moment
- Both free and easy at the moment
- Both highly likely to continue in some form
- Both could be replicated within specialist community if needed

- Depends on only two technologies
- Both Useful and Ubiquitous at the moment
- Both free and easy at the moment
- Both highly likely to continue in some form
- Both could be replicated within specialist community if needed
- ~ Difficult to think of an alternative?

What if I get a 5xx: Server Error?

Bad things happen

- Bad things happen
- We can't legislate against this

- Bad things happen
- We can't legislate against this
- See discussion on institutional responsibility

- Bad things happen
- We can't legislate against this
- See discussion on institutional responsibility
- What if the museum burns down or the staff don't turn up etc.

What if the data license changes?

 Just because you can access data today doesn't mean you can access it tomorrow

- Just because you can access data today doesn't mean you can access it tomorrow
- Supplier could just say "Insert your credit card number here"

- Just because you can access data today doesn't mean you can access it tomorrow
- Supplier could just say "Insert your credit card number here"
- Not our business we just deal with identifying data not with access rights

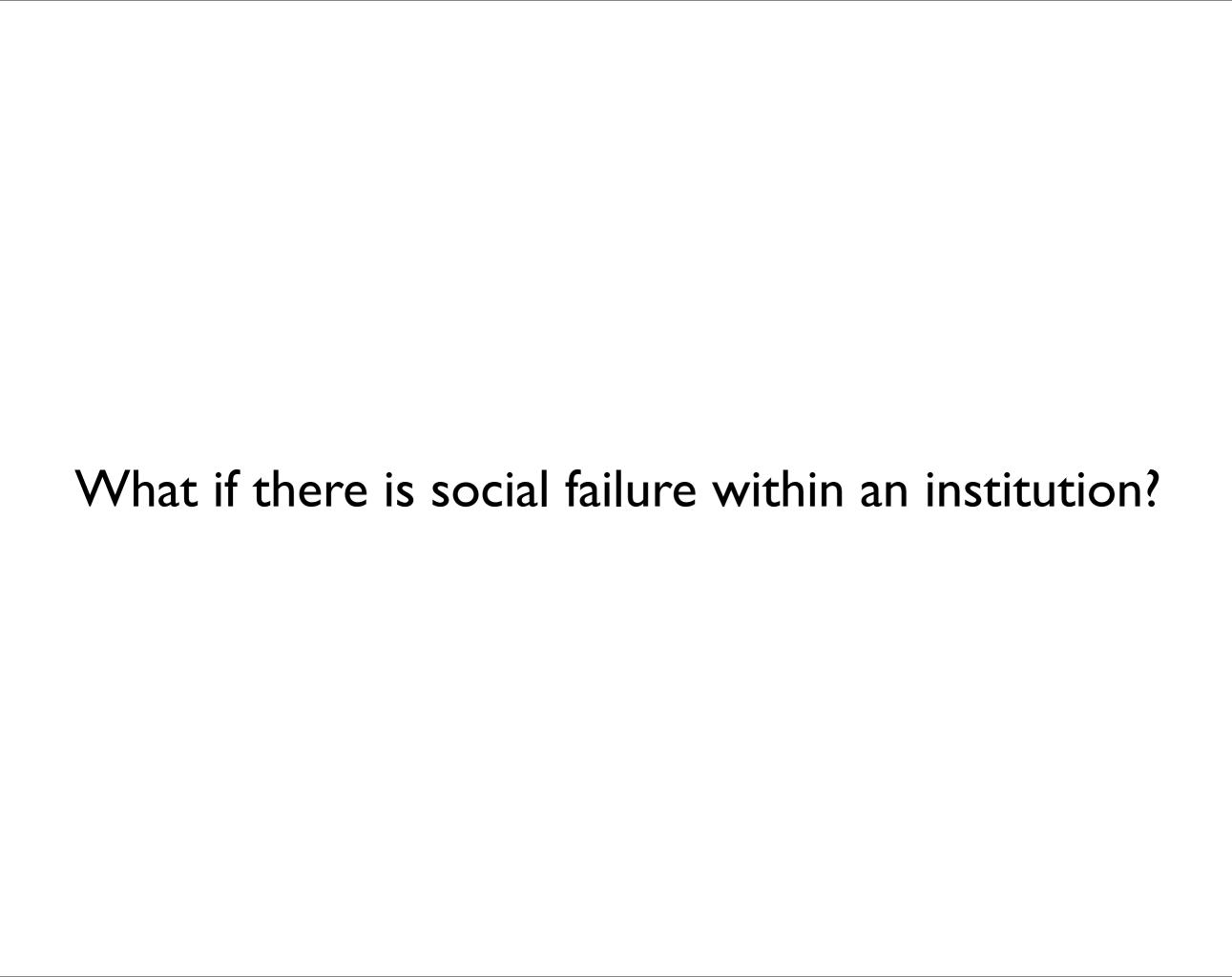
What if the hosting institution fails?

 If the herbarium/museum ceases to exist then access to specimens is lost

- If the herbarium/museum ceases to exist then access to specimens is lost
- It applies equally to physical specimens

- If the herbarium/museum ceases to exist then access to specimens is lost
- It applies equally to physical specimens
- Collections could moved to other institutions - dealt with later

- If the herbarium/museum ceases to exist then access to specimens is lost
- It applies equally to physical specimens
- Collections could moved to other institutions - dealt with later
- This is not our business



 Management may not value the URIs and not resource their maintenance

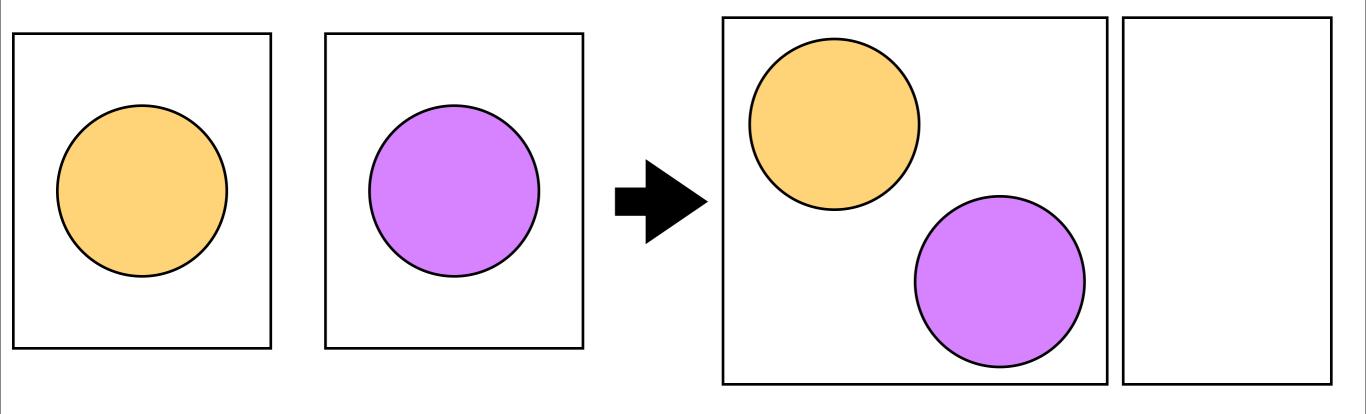
- Management may not value the URIs and not resource their maintenance
- Ubiquity the more institutions that do maintain identifiers the more pressure to maintain them

- Management may not value the URIs and not resource their maintenance
- Ubiquity the more institutions that do maintain identifiers the more pressure to maintain them
- Usefulness you don't kill something you need

- Management may not value the URIs and not resource their maintenance
- Ubiquity the more institutions that do maintain identifiers the more pressure to maintain them
- Usefulness you don't kill something you need
- We can't do anything about this other than build a good system and promote it

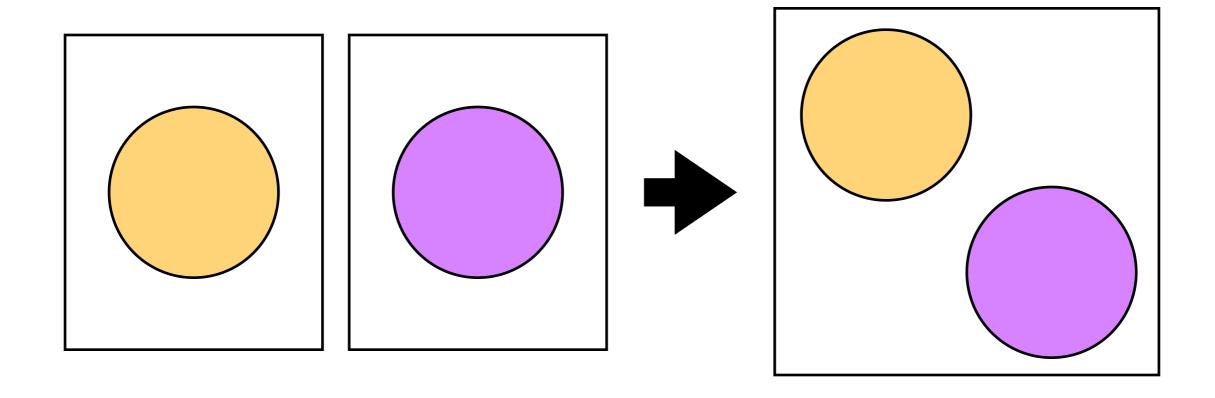
What if a collections merge or split?

Collection Migration



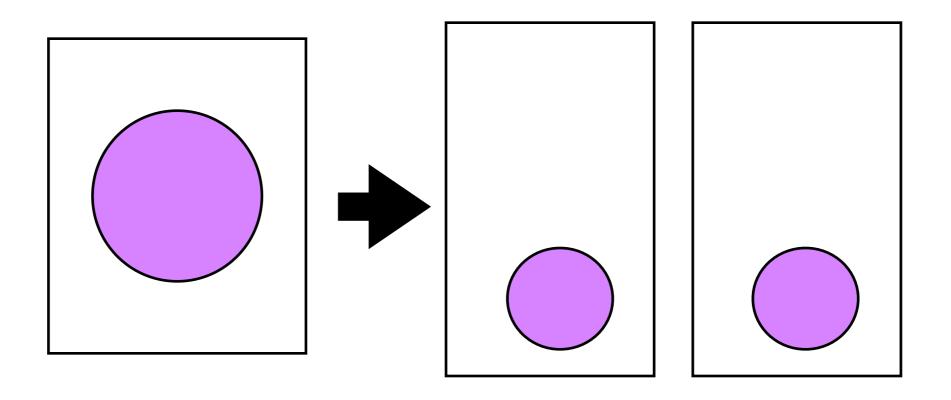
A collection moved to another institution but the institution continues to exist

Institution Merging



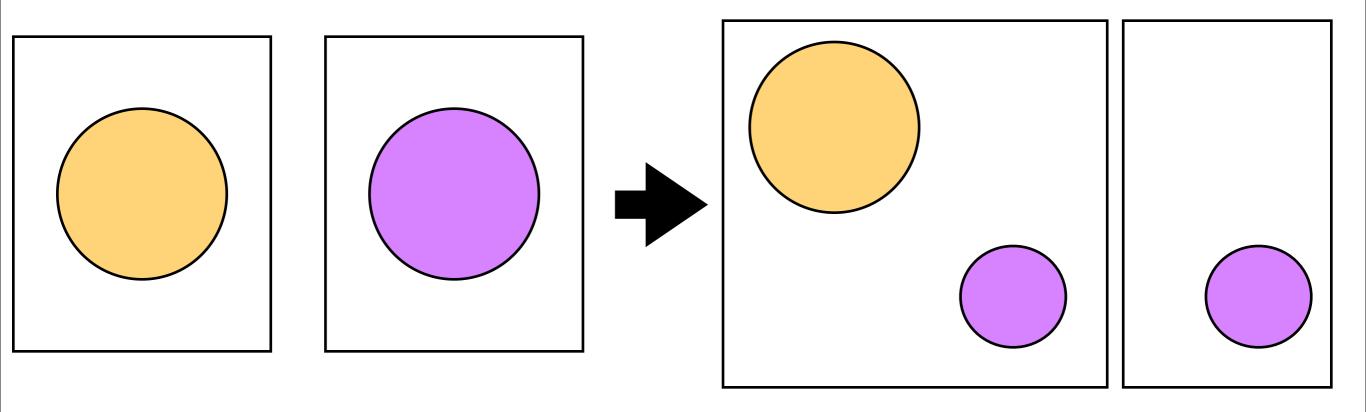
A collection moved to another institution as the original institution disappears

Collection Splitting



A collection is split between two institutions

Complex Splitting



Part of a collection moves to a different institution

 If both institutions have issued HTTP URIs and continue to exist then split is handled in data OR domain/sub-domain is passed with collection

- If both institutions have issued HTTP URIs and continue to exist then split is handled in data OR domain/sub-domain is passed with collection
- If donating institution ceases to exist then domain must be passed with collection

- If both institutions have issued HTTP URIs and continue to exist then split is handled in data OR domain/sub-domain is passed with collection
- If donating institution ceases to exist then domain must be passed with collection
- Generally merging involves big collections absorbing orphaned collections - so this is probably not a problem.

What if we use a third party supplier?



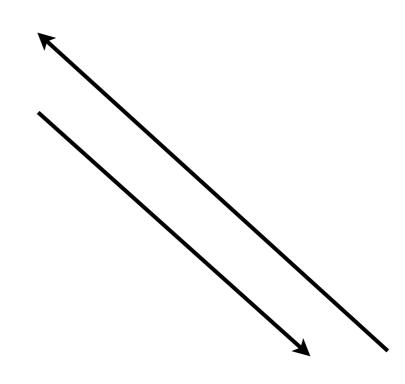
GUID Supplier





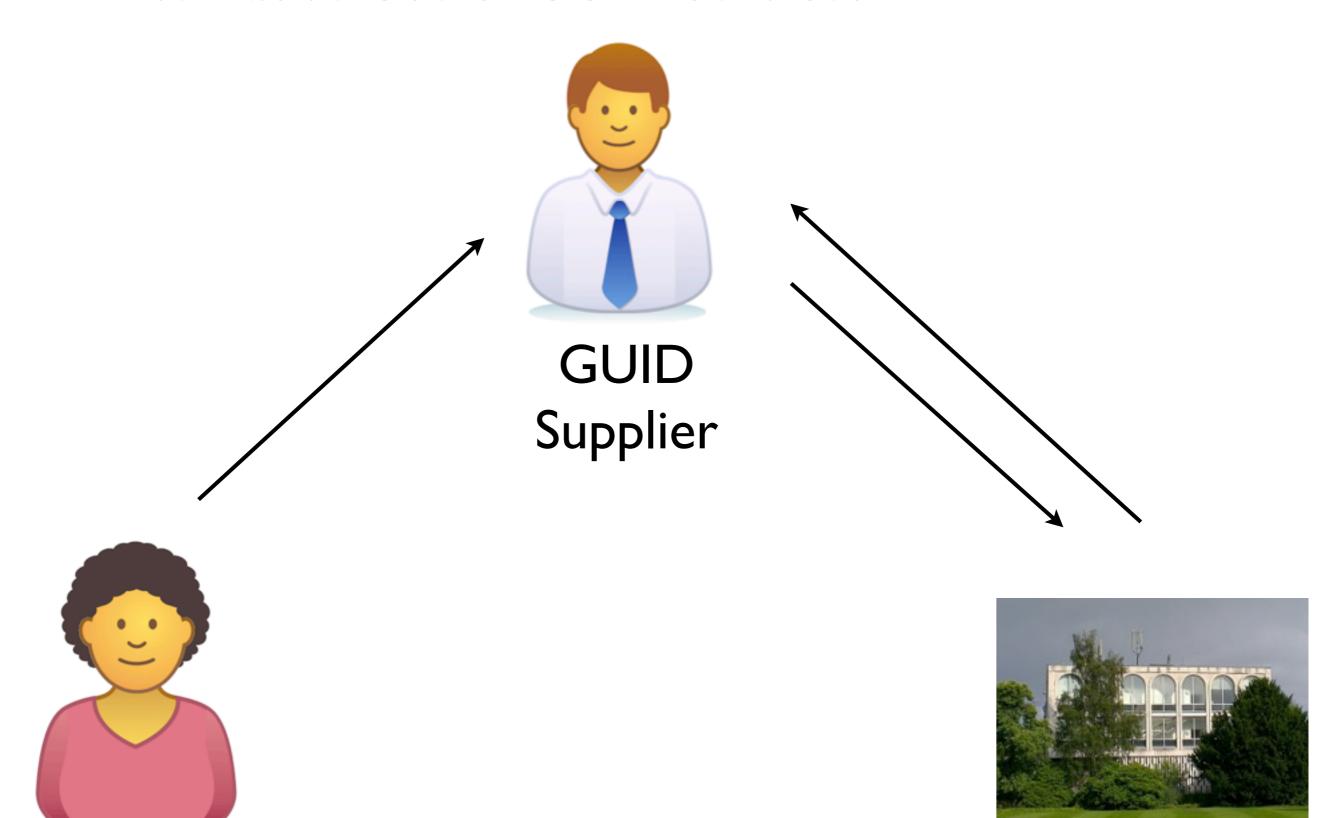


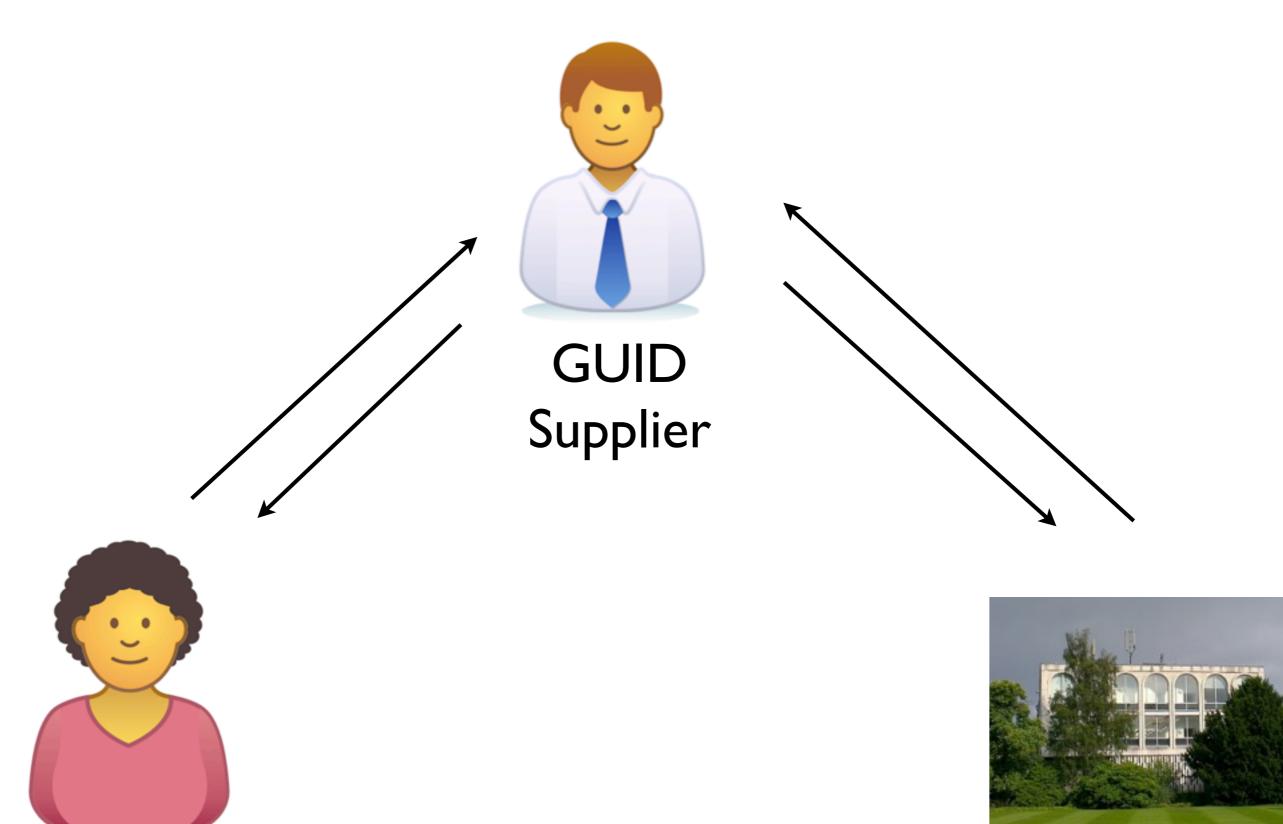
GUID Supplier

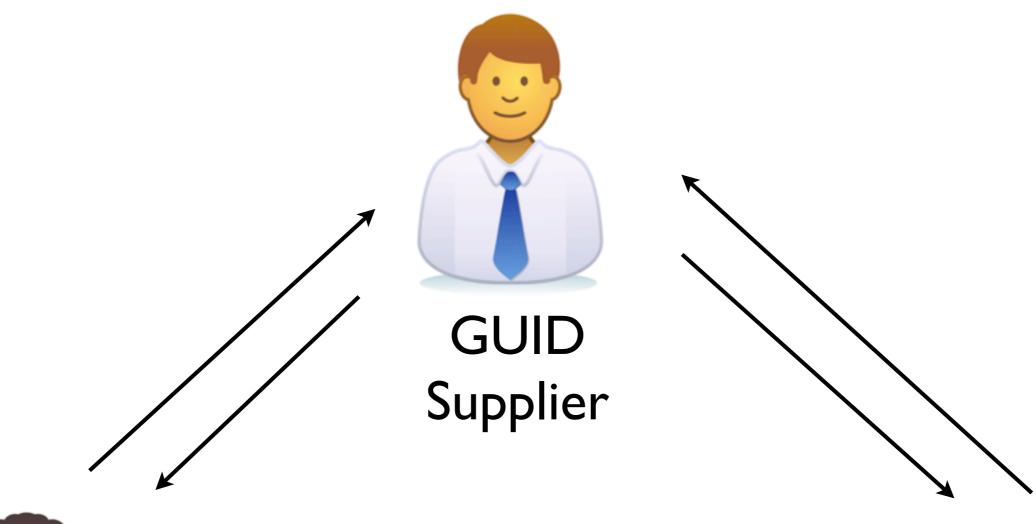








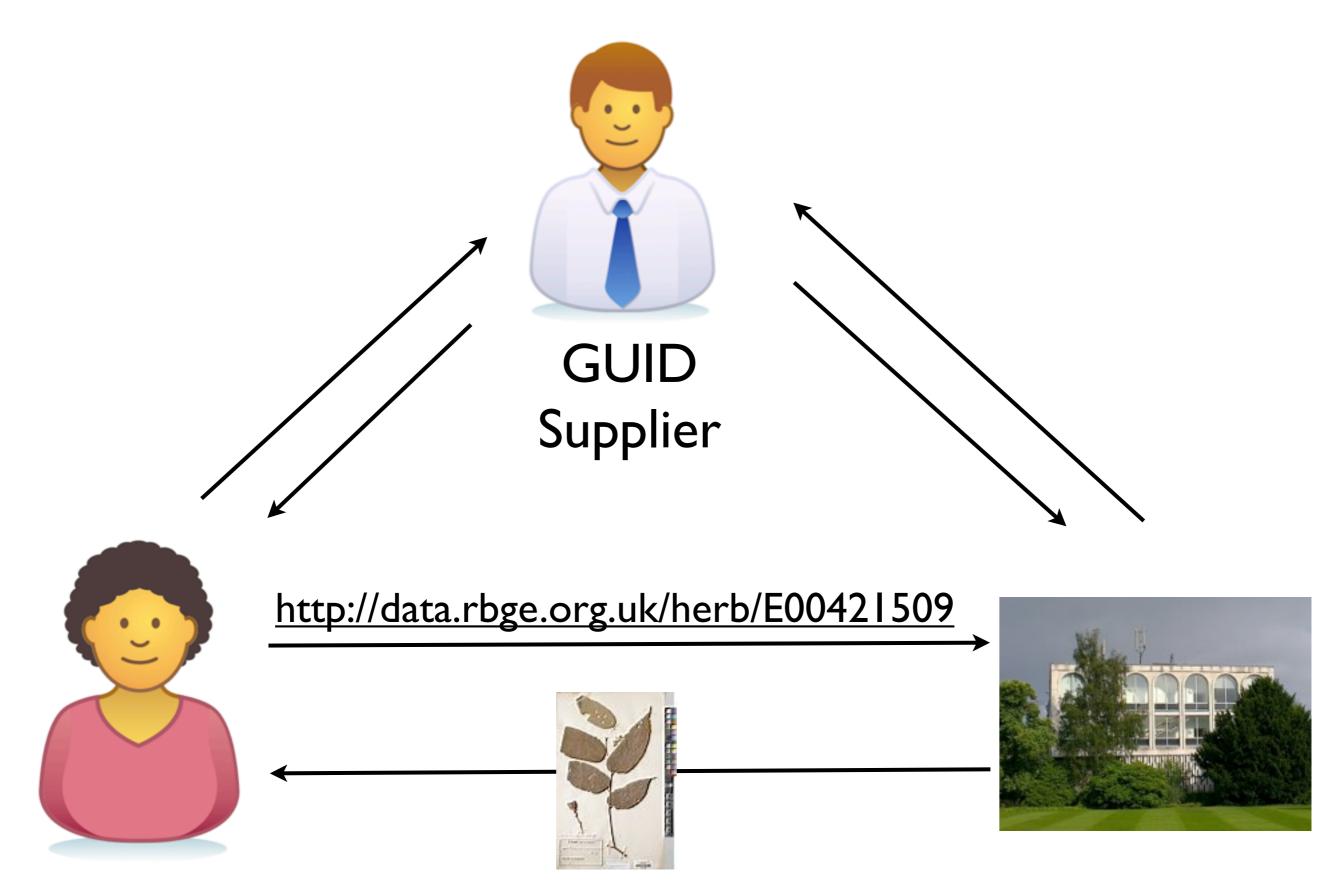




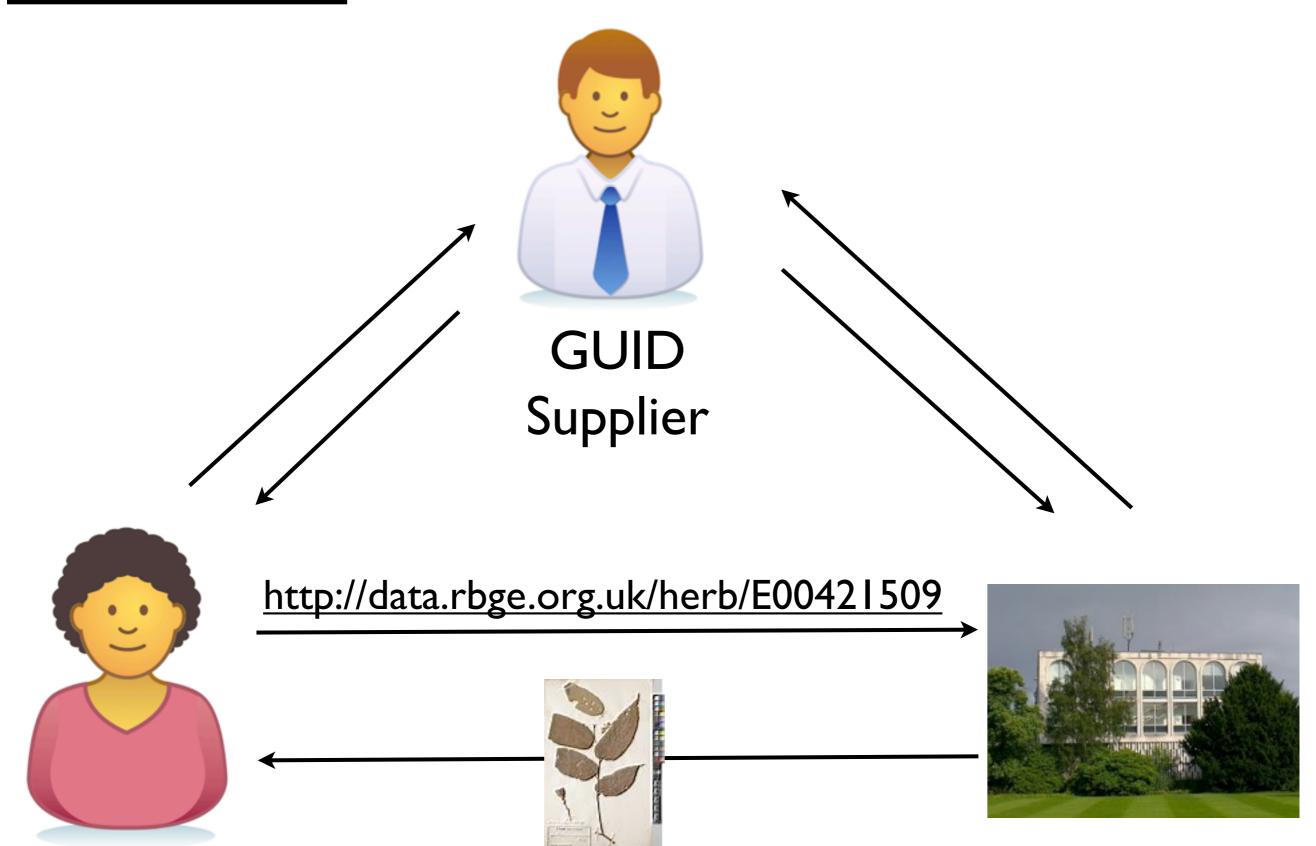


http://data.rbge.org.uk/herb/E00421509

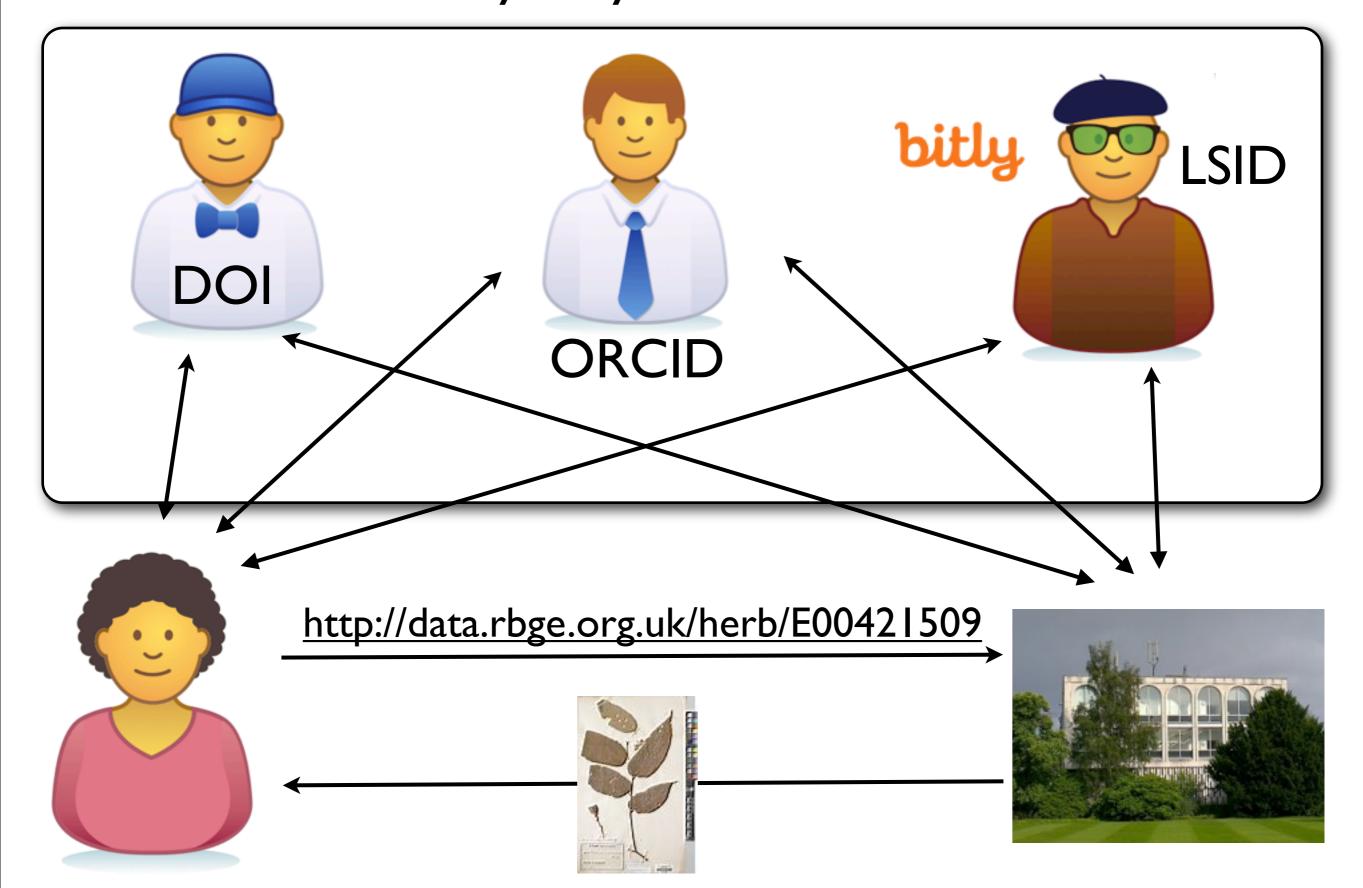




Supplementary Use of GUID Services



A "Persistence Candy" Layer



Any agreement with a third party is just another way to supply a stable HTTP URI for the data to the user

What if....?



(Hypothetical edge cases slow us down!)