

ARKs in the Open: community owned identifier infrastructure

twitter: "10 persistent myths about persistent identifiers"

"Cool URIs Don't Change" Tim Berners-Lee, 1998



ARK anatomy

- A URL that might be "cool",
- A labelled URL with a globally unique identity inside


`http://n2t.net/ark:/12345/fk1234`
- Server name in front makes it actionable
- NAAN + Name is core globally unique identity

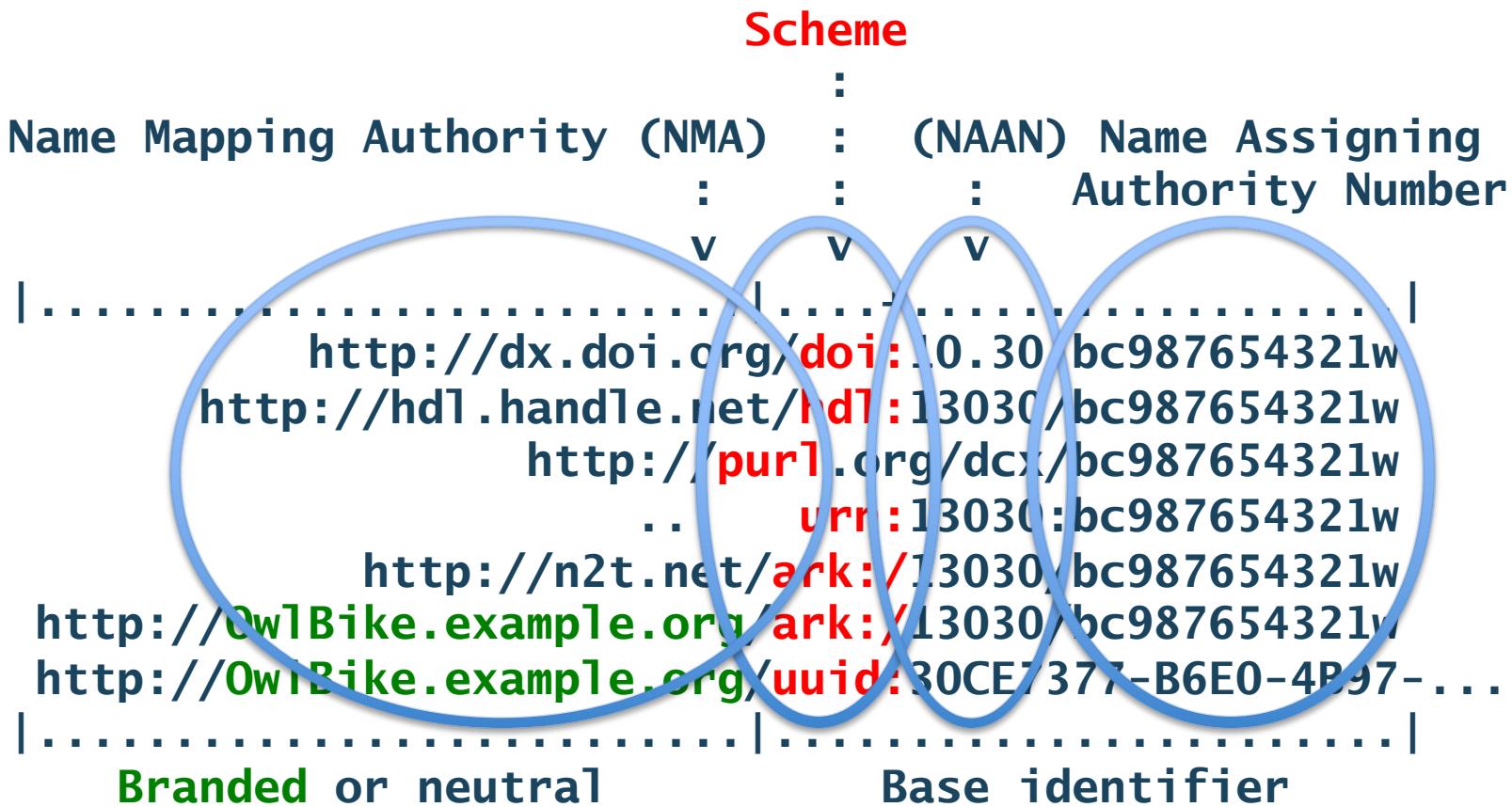
ARK sociology

- 500+ organizations registered for a NAAN
- Estimated 175 million ARKs in the world
- Flexible metadata
- Flexible lifetime

But can you tell if a URL *is* “cool”?

- No – unknowable for any kind of identifier
- Metadata should tell you about it and the archive's commitment
 - Use ARK inflections (preferred)
 - Or use content negotiation

Identifier schemes are highly similar



In the beginning



Then came the web



Then came the link resolvers



Evolution of resolution

- Mail: letter "forwarding"
- Web: URL "redirection"
- DNS: hostname "resolution", example,
my.domain.org *resolves* to 1.2.3.4
today, but in 6 months to 2.2.3.4
- PID: purl.org, hdl.handle.net, dx.doi.org

Covenant of the ARK

The ARK scheme, uniquely,
will not charge fees to create or use ARKs
will not limit the number of ARKs you assign
will not limit the kind of content you identify
will not require metadata, nor even persistence
will not mandate use of any particular resolver



Keeps names (identifiers) persistent,
forwarding (resolving) them to the
best known web addresses

Any kind of name – ARK, DOI, URN,
Handle, PMID, PDB, Taxon, GRID,
arxiv, ISSN, ...

Partners with [EZID.cdlib.org](#),
[Identifiers.org](#), [Archive.org](#),
[YAMZ.net metadictionary](#)

Any kind of thing – web pages, data,
physical specimens, vocabulary
terms, living beings, groups, ...

N2T works with [Identifiers.org](#) to
shorten and resolve over 700 kinds of
schemes with [Compact Identifiers](#)

You can add your existing
scheme (it's free)

N2T is also a global ARK resolver

ARKs in the Open: a first step...

... toward long-term sustainability
of the ARK infrastructure

ARKsInTheOpen.org



A pilot project

What is ARK infrastructure?

- Open source software tools & systems
- Production-grade resolver: n2t.net
- Registry of institutions (NAANs)
- ARK specification

ARKsInTheOpen.org



Collaboration with DuraSpace

- Start-up help for community-building
- Experience with open-source software support
- Fiscal sponsor for small non-profits

The ultimate goal

Community ownership of
ARK identifier assets

ARKsInTheOpen.org



Is CDL abandoning ARKs?

No!

CDL plans to be **a core member** of the ARK community and invites anyone with an interest in promoting long-term access to information objects to join us.

ARKsInTheOpen.org



How can I get involved?

Explore the work so far: ARKsInTheOpen.org

- ARK mailing list
- Express your Interest: bit.ly/2C4fU8f
- Project roadmap, Advisory Group
- WGs: outreach, sustainability, technical

Questions?

arks@ucop.edu