		Identification scheme	Identification scheme	Identification scheme	Identification scheme	Identification scheme	Identification scheme	Identification scheme	Identification scheme
<u> </u>	Criterion	DOI	ARK	OID	PURL	Handles	UUID	XRI	LSID
ssignment / htenance Issues	What is relationship with URI (Addresses unique identifier capability)? (Addresses unique identifier capability, and interoperability)	Uniform Resource Identifier (RFC 3986) provides an extensible means for identifying a resource within the World Wide Web. The syntax for Uniform Resource Identifiers (URIs) is much more restrictive than the syntax for the DOI. DOIs can identify physical objects as well as digital objects and may be used in applications other than the WWW or Internet. DOI is registered with info URI scheme (RFC 4452: http://info-uri.info).	The syntactical requirements of an ARK meet the requirements for a URI, but extend the definition of a URI by assuming the existence of a "set of verifiable assertions, or metadata about the object" that make explicit the association between an identifier (as a string of data) and the object being identified. That is, an ARK is a special URI / URI that provides access to an information object, its metadata, and a policy statement from the provider regarding its maintenance promises.	Not a URI.	A PURL is a URL, and so can be considered a URI. PURLs are usually assigned only to digital objects that are locatable on the WWW. Considered a URL whose task is to locate a resource, a PURL is an HTTP URI in a domain backed by a strong persistence policy.	Handles can be used natively, or expressed as Uniform Resource Identifiers (URIs), Although the Handle System is not currently a registered stand-alone implementation of URI, it is a part of the info URI specification, RFC 4452 http://www.rfc-editor.org/rfc/rfc4452.txt).	So, wirtue of its being capable of serving as a URN, a UUID can be considered a URI.	An XRI is transformed into a URI by adding "http://xri.net/" at the beginning and then appending the XRI. This URI then resolves to an XRDS (Extensible Resource Descriptor Sequence) document which is a simple XML document. XRIs can resolve to an XRDS document also by use of the HTTP(S) protocol. The 2nd form is called HTTP XRI or HXRI. Other parameters can be added to the HXRI to further specify the resolution of the XRI. See: https://www.fullxri.com/documentation/DocumentationPage/category/1/entry/4/ for documentation from one of the registry services about the advantages of XRI.	
	citable locator schemes)?	Locator (URL) syntax is much more restrictive than the syntax for the DOI. When DOIs are embedded in URLs, they must follow the URL syntax conventions. A DOI name may be represented as a URL (http string) by prefacing the string http://dx.doi.org/ to the DOI of the document (e.g., to resolve the DOI name 10.1000/182, enter into a browser the address: http://dx.doi.org/10.1000/182).	A properly formed ARK identifier conforms to a URL with the addition of a Name Mapping Authority Hostport (NMAH) of http://organization name/ that precedes the ark: label. An ARK is a URL, but has specific syntax requirements for the "label" part of the URL. [http://NMAH/Jark:/NAAM/Name[Qualifier]. The NAAM is the Name Assigning Authority Number - a mandatory unique identifier of the organization that originally named the object; the NMAH is the Name Mapping Authority Host - optional and replaceable hostname of an organization that currently provides service for the object; the Chalifier is an optional string that extends the base ARK to support access to individual hierarchical subcomponents of an object, and to variants (versions, languages, formats) of components.	Not a URL. Does not support use as a locator.	A PURL is a URL, but has no specific or proprietary syntax for the naming part of the URL.	Handles can be used natively, or expressed as Uniform Resource Identifiers (URIs). Although the Handle System is not currently a registered stand-alone implementation of URI, it is a part of the info URI specification, RFC 4452 http://www.rfc-editor.org/rfc/r64452.btt). Handles may also be expressed as Uniform Resource Locators (URIS), by the use of an http proxy server (http://www.handle.net/proxy.html).	Not a URL by itself. No mechanism per se of resolving the location of a UUID.	By using the proxy resolvers described above, an XRI can resolve to the location of a digital resource.	There are mechanisms for building a resolution service usi URLs with LSIDs with an LSID Server Framework, but an LSI se is not a URL
		the functional requirements, since URN registration appears to offer no advantage to the DOI System. It requires an additional layer of administration for defining DOI as a URN namespace (the string um:doi:10.1000/1 rather than the simpler doi:10.1000/1) and an additional step of unnecessary redirection	ARK is not an IANA registered URN namespace either formally or informally. URNs are designed to describe an identity rather than a location; thus, because an ARK as a URL specifies a location (along with an implied commitment to persistence by virtue of its specific syntax), it is not a URN. Also, URN namespace assignments are handled via the IANA, the Internet Assigned Numbers Authority. Namespaces for the ARK are maintained as part of the NAAN Registry which is maintained by the California Digital Library and replicated at the Bibliothèque Nationale de France and the National Library of Medicine.	prepending "urn:oid:". Is an IANA registered URN namespace per RFC3061.	A PURL can become a URN by attaching the requisite URN: path prefix and adding a naming authority (/org/oclc) in front of the name (/purl/keith/home),as in URN:/org/oclc/purl/keith/home. By itself, however, it is not a registered IANA namespace.	(URNs) . Although the Handle System is not currently a registered standalone implementation of URN, it is a part of the info URI specification, RFC		While XRI is not registered as a URN per the URN Syntax (RFC2141), a properly designed XRI can meet the regs for RFC 1737 (Functional Requirements for Uniform Resource Names). XRIs were designed to offer additional features that URNs don't, i.e., support for XRI defined synonyms for a resource, global context symbols for identifier authorities, and a syntax for cross referencing other URIs. See: http://equalsdrummond.name/2005/08/02/urns-and-open-tagging/ and http://en.wikipedia.org/wiki/Extensible_resource_identifier.	LSID is not a registered URN namespace per the IANA regis but is considered a URN by using the form urn:Isid:authority:name:.
	What are roles & rights for roles to assign IDs, delete IDs, edit IDs or associated MD?	set up using groups for an account to assign IDs, add and edit required and optional descriptive metadata about the resource. IDs cannot be deleted or edited after creation. IDs can be added one by one batch loaded using an API. All rights are associated	Besides the inherent existence of a hostname or National Mapping Authority (NMA) in the syntax of an ARK, there is also the assumption of a Name Assigning Authority Number (NAAN) that is given to an organization whose responsibility it to to name an object and to manage the names of all objects it assigns. NAANs are registered in a manner similar to URN namespaces by the ARK authority. The roles & rights to manage the IDS would depend upon the organization that is managing the names. In the case of the EZID service, the same assumptions apply to ARKs as for DOIs. To mint ARKs, any softwaremay be used that can produce identifiers conforming to the ARK specification such as the open-source "nord" software. The EZID Service provided by the California Digital Library also mints ARKs under the same arrangements described as with DOI assignment.	r managing a namespace. There is no batch mechanism for creating root	PURLS can be created by registered user's who may belong to groups, and who are therefore included on access its's with the rights to read, write and/or maintain PURLs and PURL domains, on a given PURL Server. PURLS can also be modified (by submitting a PURL of type clone), searched, validated, or rendered null (causing a history page to be returned noting the deprecation of a PURL) by registered users.	Conducting handle administration (i.e., creating, modifying, and deleting individual handles) requires authentication by the Handle System. Authenticatication requires an ID that uniquely and globably identifies the administrator, and could be a handle as well. The information necessary to locate, access, contact, authenticate, or otherwise make use of the resources can be changed as needed to reflect the current state of the identified resource without changing its identifier, thus allowing the name of the item to persist over changes of location and other related state information. The roles & rights related to administering handles, and the editing or the contextual information will depend upon the implementation system used. See: http://www.handle.net/overviews/system_fundamentals.html#persistence	central registration for them. There are several variants and versions of UUID, characterized by the mechanism by which they are created, e.g., using MDS hash or Unix. Since there is no central	(a persistent, machine-friendly XRI) needs to be created. A fully implemented XRI should also	IBM developed the software to create LSIDs and made it available as open source. A database for containing the LSI and the metadata associated with it must be part of any LSI implementation, so the roles & rights associated with the creation of the IDs will depend upon the system used. TOV recommendations state that a client using an LSID should "dereference" an LSID rather than infer any relationships at objects or find the status of objects, and rely upon the met that must be returned with the LSID.
	5. Is it possible to batch create identifiers? If so, how done? (Addresses scalability)	An Application Programming Interface is available for batching creation of DOIs from the EZID service.	An Application Programming Interface is available for batching creation of ARKs from the EZID service.	User takes on all responsibility for managing a namespace. There is no batch mechanism for creating root namespaces.	PURLS can be batch created and modified by registered users by submitting an XML document from an input schema using the RELAX NG syntax. Batch operations are not available for searching or rendering PURLS null.	The capability of batch creating identifiers will depend upon the underlying infrastructure used to implement the Handle System.	Yes, depending upon the mechanism used.	Seemingly not available	Unable to determine.
		DOIs with the DOI Registry: CrossRef used quite extensively for traditional published resources, such as journal articles, books, etc. CrossRef has less experience with datasets and other non-traditional resources. EZID is a service offered by the CDL in	The EZID service provides registration services for ARKs in addition to DOIs. The registry of all currently assigned NAAN's that assign ARK names is maintained by the California Digital Library (host for EZID) which is mirrored at the (U.S.) National Library of Medicine and the Bibliothèque nationale de France. EZID is a service offered by the CDL that registers Name Authority Agencies and Name Mapping Hostports for ARKs. EZID was chosen for the testbed because of its focus upon assigning IDs to data sets, and because it could assign both DOIs and ARKs.		The registration of a PURL is done by a given PURL Resolver.	The interoperable network of distributed handle resolver servers (also known as the Proxy Server System) are linked through a Global Resolver (which is one logical entity though physically decentralised and mircroed). Users of Handle System technology obtain a handle prefix created in the Global Handle Registry. The Global Handle Registry maintains and resolves the prefixes of locally-maintained handle services. Any local handle service can, therefore, resolve any handle through the Global Resolver.	No.	XDI.org is ostensibly the public registry organization for i-names and i-numbers, but now seems to be mostly related to OpenID Connect, one of the main projects that used XRIs initially. i-names can be registered at the "@fullXRI" registry provided by Inames.net at https://www.thi/xi.com. Other registries include 1id.com, and @freeXRI which is offered by the same organization as the @fullXRI service.	the UUID, this fact is considered by proponents to be a be because of the distributed nature and diversity of the biolo
	7. If a registry service is available, what are the services provided?	The EZID service provides identifier creation and resolution, as well as metadata entry and maintenance services. EZID'S DOI services are dependent upon services provided by two external entities: DOI Registry services-German National Library of Science and Technology (TIB); DOI Resolution services-International DOI Foundation (IDF) and the Handle System.	included in the ARK specification are generic service definitions for description, access & location, and generic policy services for declarations of object permanence, object naming, object fragment addressing, and operational service support, etc. The EZIO Service can provide all these services, if full use is made of these ARK capabilities. At this time, the EZIO service provides identifier creation and resolution, as well as metadata entry and maintenance services for ARKs as well as DOIs. EZIO uses the AZT'S (Name to Thing) database for resolving the ARKs created in association with its services. The EZIO service can create ARKs using the open source NOID (Nice Opaque Identifers) software.	Lookup.	A PURL Resolver should be able to allow the creation, validation, modification, searching and rendering a PURL "null" (but not deleting) within its database.	There are two levels of service: a top level known as the Global Handle Registry, and a lower level that consists of local handle services. The Global Handle Registry provides the service used to manage the namespace of all handle prefixes, or naming authorities. The global service contains information about the local handle service responsible for resolving identifiers created with a given prefix. Local handle services can be used for many different kinds of Internet applications, but the most popular fand the simplest) use to date has been to give persistent identifiers to web content, so that the content can be referenced and located using those permanent identifiers (with location data stored in the associated handle records) rather than using locations as identifiers (such as URLs which frequently change).	N.A.	The @fullXRI registry service provides the capability to register an i-name, transfer an i-name from another broker to @fullXRI and the reverse, and query the status of an i-name. Any transfer includes the i-name itself, any synonym i-names (those XRIs that point at the same resource and share all settings), and the associated i-number. Other services for registering, configuring and managing XRIs are available as well as tools to help resolve XRIs. See: http://www.freext.com/documentation/DocumentationInded . The @freeXRI service offers i-name creation and registration, service configuration, XRI management services, and various tools designed to help you resolve XRIs. See: http://www.freext.com/documentation/DocumentationIndex/ . The 1ld.com registry allows the creation / registration of an i-name as well as a reseller service for organizations, and other services including a single sign-on, contact management, forwarding, and community registry creation.	N.A.
	8. Is a specific naming scheme and/or naming authority required?	as such must meet any Handle restrictions for naming. Neither the Handle System nor DOI system policies impose any constraints on the suffix, outside of encoding. Handle syntax imposes two constraints on the prefix — both slash and dot are "reserved characters", with the slash separating the prefix from the suffix and the dot used to extend sub prefixes. The root administrator for the Handle System has reserved all prefixes	The part of the ARK directly following the "ark:" is the Name Assigning Authority Number (NAAN) enclosed in ")" (slash) characters. This part is always required, as it identifies the organization that originally assigned the Name of the object. It is used to discover a currently valid NMAH and to provide top-level partitioning of the space of all ARKs. NAANs are registered in a manner similar to URN Namespaces. Namespaces for the ARK Name Authority are maintained as part of the NAAN Registry that is maintained by the California Digital Library and replicated at the Bibliothèque Nationale de France and the National Library of Medicine. See https://confluence.ucop.edu/display/Curation/ARK formore information.	canonical encoding rules (CER), and distinguished encoding rules(DER) can be found at the International Telecommunications Union (ITU) X.690 website: http://www.itu.int/rec/T-REC-X.690/en . Example: {joint-iso-itu-t(2)	PURLs use the URL syntax for the name portion of the ID, with some exceptions. Allowed and not allowed characters are described on the PURL FAQ: http://purl.ocic.org/docs/faq.html.	Handles (identifiers) are passed by a client, as a query of the naming authority/prefix, to the Handle System's Global Handle Registry (GHR). The GHR responds by sending the client the location information for the relevant Local Handle Service which may consist of multiple servers in multiple sites. A query is then sent to the relevant server within the Local Handle Service. The Local Handle Service returns the information needed to acquire the resource, e.g., a URL which can then be turned into an HTTP re-direct.	as a URN by including the urn:uuid:	Yes, follows the proposed XRI Specification for Resolution, that was last considered by OASIS as version 2.0 when it was rejected. In 2008, activity on the XRI specification tapered off and split into efforts to deal with the need for a uniform approach to metadata discovery on the Web, and thus into a different specification for that, XRD, Extensible Resource Descriptor. In November 2010, OASIS approved XRD as a standard (version 1.0) which superseded XRI. See http://equalsdrummond.name/page/17/ for history and http://docs.oasis-open.org/xrl/xrd/v1.0/os/xrd-1.0-os.pdf for specification.	Follows the URN naming syntax: urn!sid:authority:namespace:object:revision-ID. The urn!s a mandatory prefix while the Revision-ID is optional.
	9. What is the ID for the data set level digital object? For the component level digital object?	MODIS data set: doi:10.5060/D4CC0XMZ; Granule within MODIS data set: NSIDC glacier photo collection, doi:10.5060/D4RN35SD; Glacier photo within collection: doi:10.5060/D4RN35SD,/baird1929090101 for the photo with local ID baird1929090101.			Glacier Photo collection: http://purl.org/5060D4/glacier_photos/, (a partial redirect that allows the PURL http://purl.org/5060D4/glacier_photos/(photo_id) to resolve to any glacier photo so long NSIDC maintains the practice of embedding the (photo_id) in the photo URL following the current pattern). This mechanism made it unnecessary to create PURLs for each photo in the Glacier Photo collection.			Did not assign.	Not assigned.
	What is the technical infrastructure upon which the implementation of the ID scheme is based (e.g., XML, Java, Python, other)?	The EZID service and API is based on Java.	The EZID service and API is based on Java.	No infrastructure.	This appears to be XML because of the dependency of the batch processes upon submission of an XML (RELAXNG) document.	Handle client SW libraries available in both C and Java.	Generated by a UUID algorithm; the UUID must be of a fixed size (128 bits) and contains a time field	XML	PERL with a browser available for Firefox. There is also an I tester available as open source software that is based on PI

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Properties and the second of t		12. Is there a way to declare or describe a	There are no restrictions on the naming of the resource after the	Relationships such as variations or hierarchy can be included in ARKs by use of the	No. Generally, OIDs are used for classes	There are 2 concepts that could be used for this	Recommended practice for the creation of a handle ID is to create an	No.	To discover equivalence between XRIs, character-by-character comparions would be necessary after	As part of the identifier, it is possible to associate revision
A PROPER		relationship between / among different formats	required prefix / suffix of the DOI (10.1000/) so the DOI could	optional "Qualifier" section of the ARK syntax. The Qualifier is a string that uses a slash	of objects rather than instances of classes	purpose: sub-domains under top-level domains (akin	opaque ID in order to be persistent. That is, the numbers should		applying small set normalization and comparison rules as defined in XRI Syntax2.0, Section 2.5. Such	
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Property of the control of the contr		itself? (Addresses semantic equivalence)			relationships could only be hierarchical.					
Manufacture in the second of t						just part of a local name. While a partial redirect has a			documents that reference each other as synonyms (see XRI Resolution 2.0, Section 5), or c) a	
Francisco de la contraction de			maintenance, a recommeded best practice.				related only by format.		redirect to the same actual resource representation.	
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A CAMER CONTINUE AND ADDRESS A		purpose(s)?	Journais, but are beginning to be used more frequently for data sets.			Server is run by the Government Printing Office of the U.S.				the Interoperable Informatics Infrastructure Consortiun and is recommended by the Biodiversity Information St.
Service of the control of the contro		1			projects, encryption algorithms, etc. See:	: **	,,,, or congress.	identifiers of resources of all types,		
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In the control of the		2 is it nossible as recommended that description	Vac the DOLEgundation recommends the creation of description	Very using the same mechanism as used for DOIs but the EZID consists. If the EZID consists	Voc	No	Not explicitly recommended, depends upon the application	No	Originally, a fully implemented VDI should have included the assigned of a small subset of metadata	Voc descriptive metadata is recommended but no speci
The state of the s					res.	NO.	Not explicitly recommended, depends upon the application.	NO.		
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A fine the consistent wind charge dependent on the process of the control of the		,,						machine address (MAC). Generally, the	delegation. For example with "=family*name", "=family" delegates the resolving of its sub-XRI	within the URN naming syntax. There is a Revision-ID
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Ly What are the unifpling changes or casts are fine during the changes or casts are fine during the changes or casts are fine custom of ministrance of a 200			(Is this true?) Maintenance of the identifier can be changed by	its ID is abandoned, maintenance policies can still be discovered by appending "??" at the		3.5	and unique within each system. Ea entity is managed as a 1st class object		describes the approach to protecting XRI related data from unforeseen circumstances. @fullXRI has	changes, i.e., at the highest level or use separate author
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## description of the stylene, associated software or service? (type, knowledge needed) ## description of the product or service. If the API is to be used, a staff person would be required to configure the API and make it available for broader use. ## description of the intervention of the product or adjusted from the product or adj		3. What kind of staff resources are required to	If the choice is made to create one DOI at a time, the only	If the choice is made to create one ARK at a time, the only requirement is to be able to	User assumes all responsibility: there is	If the choice is made to create one PLIRL at a time, the	The Handle System is not an end user system, and it is not off-the-shalf	Once a mechanism is set up and	None for simple ID creation: there are tools available for single sign-ons, etc. for web sites from	An LSID service would need a system developer to impl
## data for the resource. If the API is to be used, a staff person would be required to configure the API and make it available for broader use. ## does the identification scheme have a mechanism for associated with any kind of object, whether physical or digital. It is described within the DOI handbook as applied, but no real mechanism for distinguishing a physical object either. Most common use for digital content on the WWW. ## peace was last for the resource. If the API is to be used, a staff person would be required to configure the API and make it available for broader use. ### DOI can be associated with any kind of object, whether physical or digital. It is described within the DOI handbook as applied, but no real mechanism for distinguishing a physical object either. Most common use for object accessible was the WWW. ### peace to configure the API and make it available for broader use. ### DOI can be associated with any kind of object, whether physical or digital. It is described within the DOI handbook as applied, but no real mechanism for distinguishing a physical object either. Most common use for digital content of one of the well-handbook person and organizational identification. #### Peace not appear to be any restriction on the type of resource to which an XRI could be applied, but no real mechanism for distinguishing a physical object either. Most common use for digital content object. #### Peace not appear to be any restriction on the type of resource to which an XRI could be applied, but no real mechanism for distinguishing a physical object either. Most common use for digital content object. #### Peace not appear to be any restriction on the type of resource to which an XRI could be applied, but no real mechanism for distinguishing a physical object either. Most common use for digital content object. #### Peace not appear to be any restriction on the type of resource to which an XRI could be applied, but no real mechanism for distinguishing a physical object either. Most common use f		implement the scheme, associated software or	requirement is to be able to define & differentiate what is to be	define & differentiate what is to be uniquely (and separately) identified, and create / add		only requirement is to be able to define & differentiate	software. It's an underlying infrastructure for identifying resources whose			the software and develop a resolution service, someon
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