

Publishing without Publishers: A Decentralized Server Network for Scientific Data

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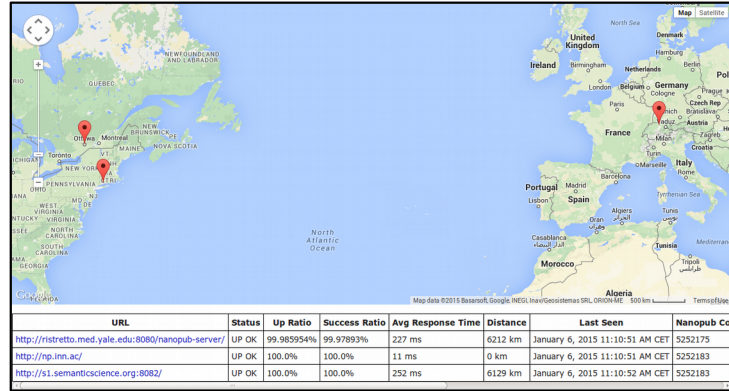
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FUTURE WORK:

Applications:
Analyzing / using data

Advanced Services:
Querying / analyzing / aggregating data

Core Services:
Finding Nanopublications



Nanopublication Monitor

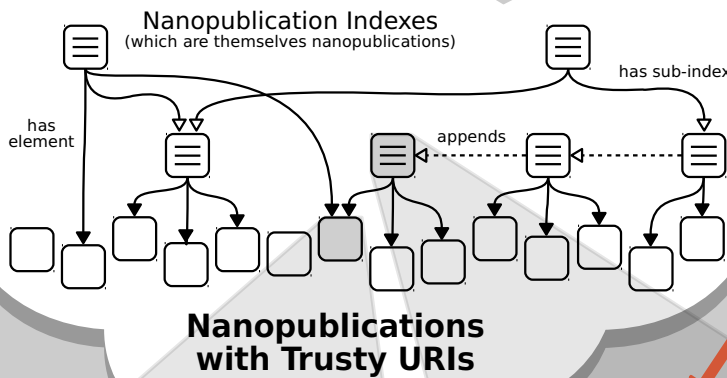
http://npmonitor.inn.ac/

Retrieval of Nanopublications
Publication of Nanopublications

REST API

Decentralized Server Network

Replication



Trusty URIs

These URIs contain a cryptographic hash to make the content verifiable and immutable

Publication: Kuhn and Dumontier. Trusty URIs: Verifiable, Immutable, and Permanent Digital Artifacts for Linked Data. In ESWC 2014.

```

http://example.org/np1#RALsezaUVvW
6E3MCzN8eR8fj_d0qT4-L5AWsZ2SNpBog
-----
assertion:
ex:mosquito ex:transmits ex:malaria.
-----
provenance:
assertion: prov:wasDerivedFrom
ex:mypublication.
-----
publicationInfo:
this: dc:created "2014-07-09T13:54:11
+01:00"^^xsd:dateTime.
this: pav:createdBy
orcid:0000-0002-1267-0234.
    
```

Nanopublication

```

http://np.inn.ac/RAvbDRdC4Bja5X
AIdIqWcQ1I-gc7IxrD5xLrXYHir-J6c
-----
assertion:
this: npx:includesElement
ns1:RALsezaUVvW6E3MCzN8eR8fj_d0q...,
ns2:RAj6D2D_mLk7cYSYLXSoZ3bSaz3m...,
ns3:RA9awUtHwL9vKvFDT7h0J-h727tQ....
-----
provenance:
assertion: a npx:IndexAssertion.
-----
publicationInfo:
this: a npx:NanopubIndex.
this: dc:created "2014-07-29T17:22:12.
549+02:00"^^xsd:dateTime.
    
```

Nanopublication Index