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- Identify use cases: depositor, author, service provider, reader, publisher, ?
- · Schemes: DOI, Handle, ARK, PURL
- · Global identification: express as http URIs
- · Added value services: CrossRef, resolution service, integration (Globus), look-up service
- Domain identifiers: e.g. International Chemical Identifier (INChI) codes
- Google molecules using InChIs demo: Peter Murray-Rust, Uni Cambridge



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One approach to data citation using DOIs

- Publication & citation of scientific primary data project National Library for Science & Technology (TIB), University of Hanover, Germany STD-DOI Project http://www.std-doi.de
- DOI registry for datasets
- Data publication agents: World Data Center Climate, GeoForschungsZentrum Potsdam
- Data requirements: quality control, long-term curation, use DOI resolver
- Exemplar data citation:
 - Kamm, H; Machon, L; Donner, S (2004): Gas chromatography (KTB Field Lab), GFZ Potsdam. doi:10.1594/GFZ/ICDP/KTB/ktbgeoch-gaschr-p





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