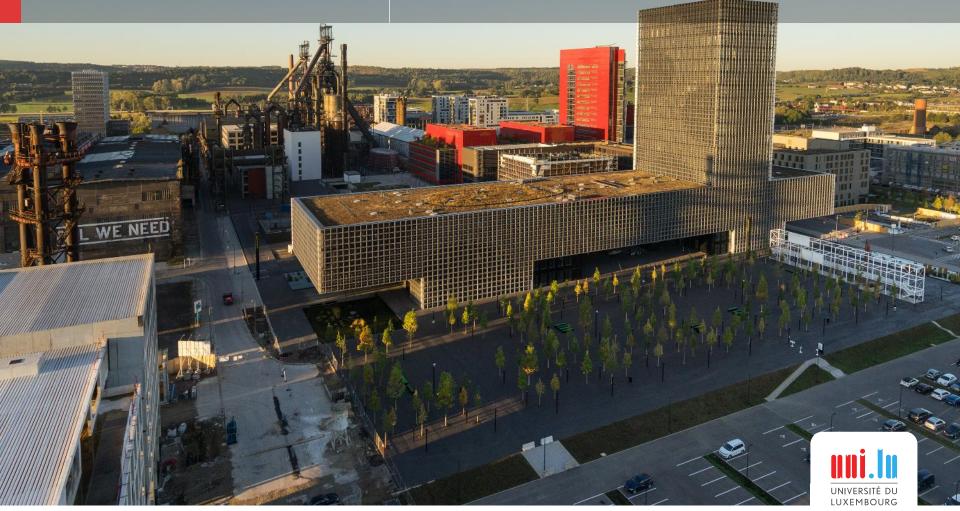
University of Luxembourg

Multilingual. Personalised. Connected.

Persistent Identifiers What? Why? How?

Beth PARK Open Science Forum – November 2018

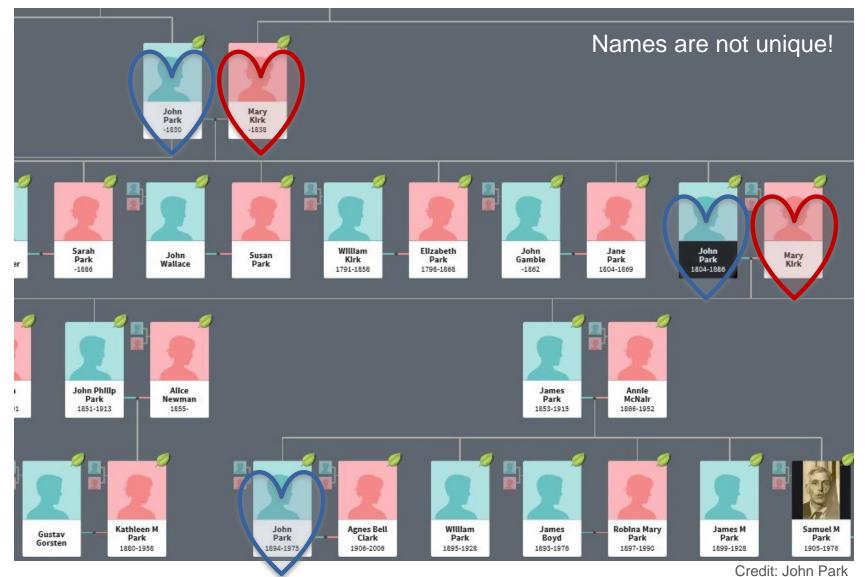




What problem are we trying to solve?





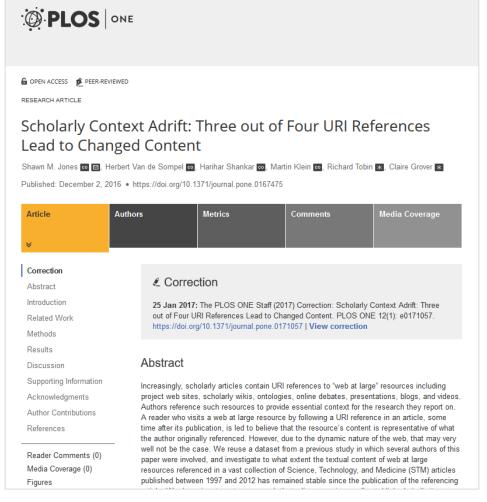


What problem are we trying to solve?



UNIVERSITÉ DU LUXEMBOURG

Information changes over time



https://doi.org/10.1371/journal.pone.0167475

What problem are we trying to solve?





or disappears all together

		STORE WHERE TO BUY TOOLS	COMPANY					
		PRODUCTS	MARKETS	SUPPORT	Q SEARCH	🗣 CHAT	窪 LIST	
HOME > 404 ERROR PAGE								
404								
Page Not Found								
Sorry, the page you are looking for cannot be found and might have been removed, had its								
name changed, or is temporarily unavailable. Please click the Search button in the toolbar to								
find what you're looking for, or choose an option below.								
	Visit Home Pa	ge	Su	upport				
	Feel free to contact us if	the problem persists or i	f you are unab	le find what you r	need.			





- You and your work must be properly identified:
 - Persistent: now and in the future;
 - Unique: no mismatches;
 - Actionable: links work best;
 - Machine-readable: "DJL789354DKS".

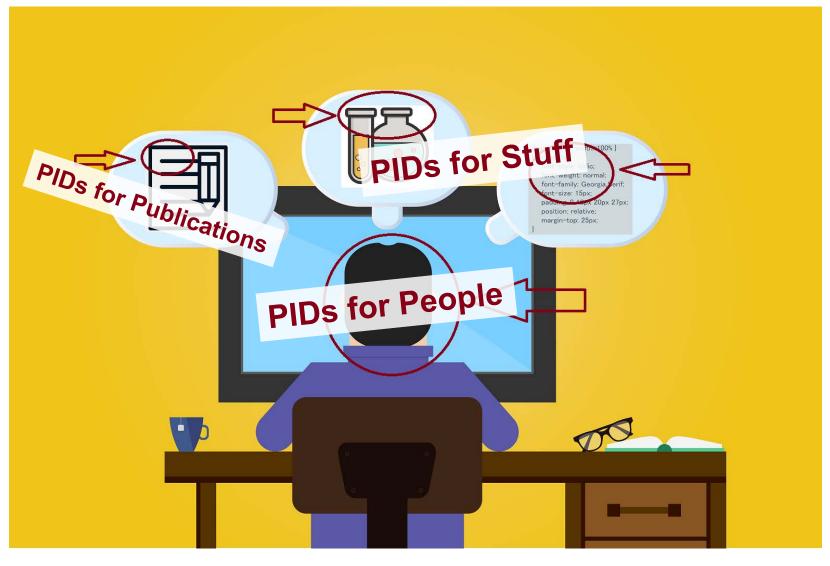
And the answer is

PERSISTENT IDENTIFIERS or PIDs

You and the PIDs



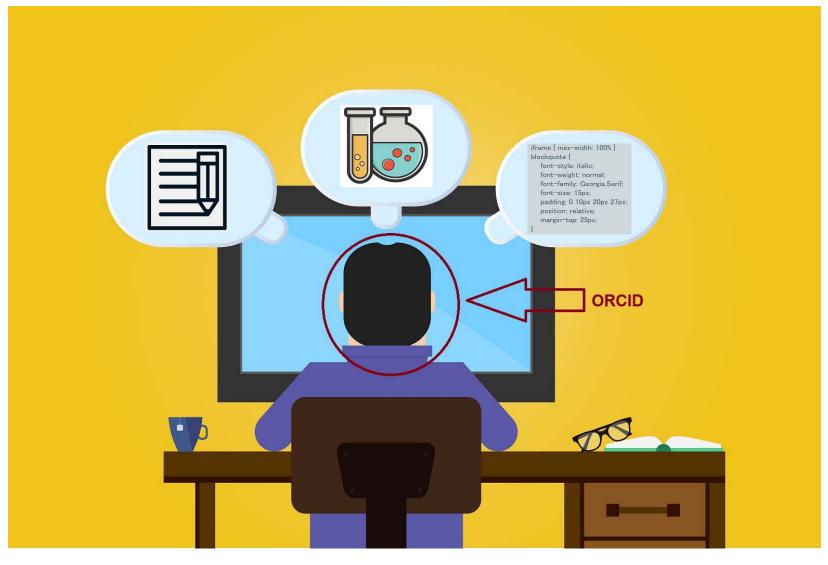




PIDs for People







PIDs for People



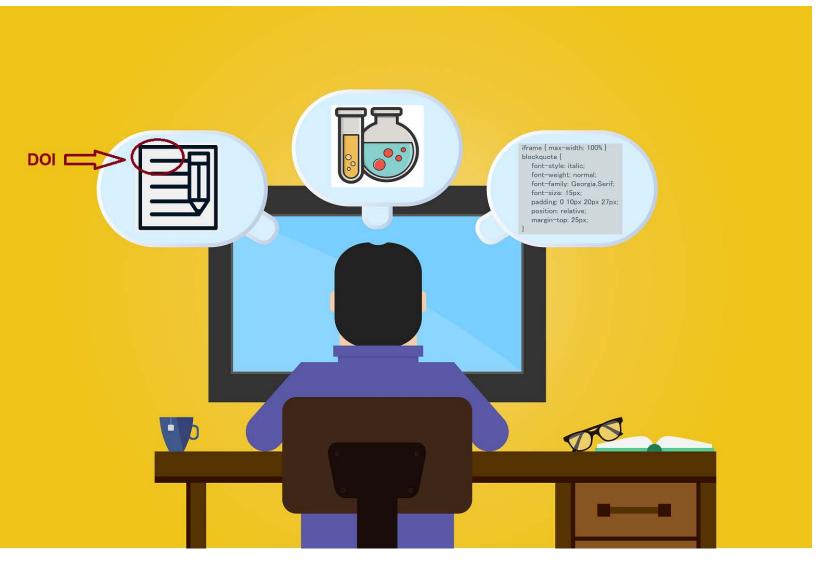


Emma Schymanski 🛌	❤ Works (35 of 35)		11 Sort			
ORCID ID	Dark matter in host-microbiome metabolomics: Tacklin	a the				
https://orcid.org/0000-0001-6868-8145	unknowns-A review					
	Source: Crossref	C Preferred source				
	Critical Assessment of Small Molecule Identification 2016: automated methods					
	Journal of Cheminformatics					
	2017-12 journal-article					
	DOI: 10.1186/s13321-017-0207-1					
	Source: Crossref	✓ Preferred source				
	Nontarget Screening with High Resolution Mass Spectrometry in					
	the Environment: Ready to Go?					
	Environmental Science & Technology					
	2017-10-17 journal-article					
	DOI: 10.1021/acs.est.7b02184					
	Source: Crossref	C Preferred source				
	Open Science for Identifying "Known Unknown" Chemicals					
	Environmental Science & Technology					
	2017-05-16 journal-article					
	DOI: 10.1021/acs.est.7b01908					
	Source: Crossref	C Preferred source				

PIDs for Publications



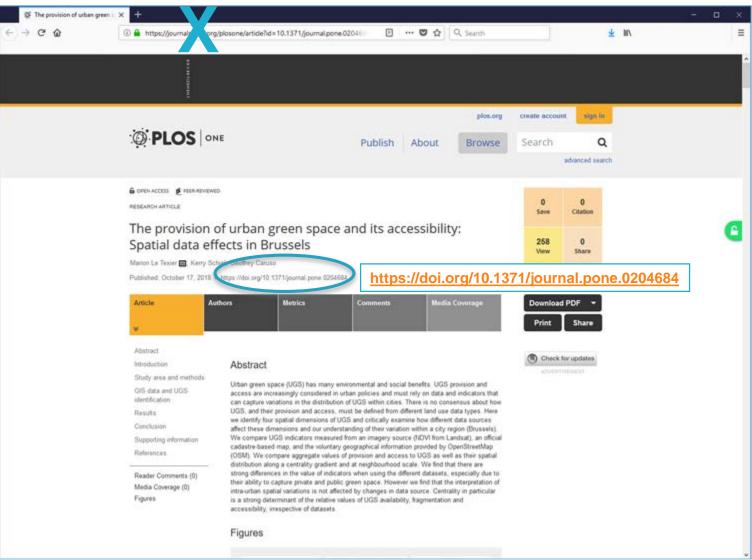




PIDs for Publications





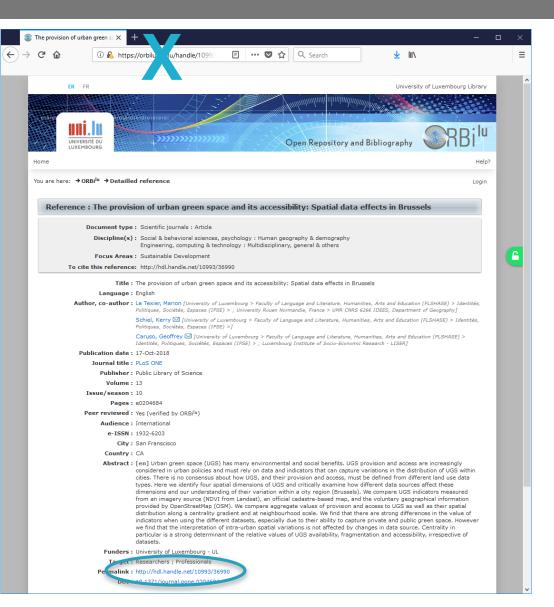


PIDs for Publications



UNIVERSITÉ DU LUXEMBOURG

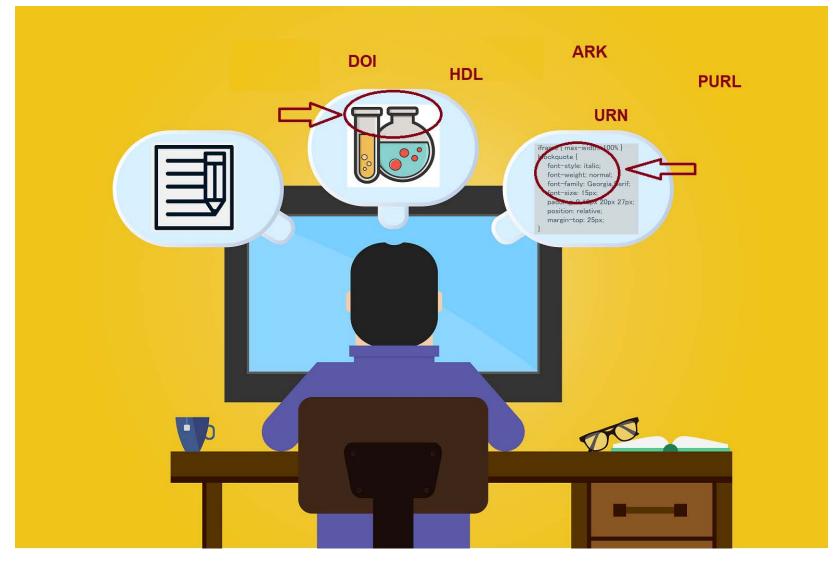




PIDs for Stuff – Data, Source Code, ...







PIDs for Stuff





- PIDS for Scientific Articles, Papers, etc.
 - DOI = Digital Object Identifier;
 - Can be used for datasets too;
- TIP: Use a DOI shortener: <u>http://shortdoi.org/</u>



Learn more at https://www.doi.org/driven_by_DOI.html

PIDs for Stuff





- If you build a management system:
 - Handle (HDL);
 - DOIs are a subset of Handles;
 - ORBi^{lu} uses Handles: <u>http://hdl.handle.net/10993/36990</u>

PIDs for Stuff





Other Options:

Archival Resource Key (ARK)

 ARK is an identifier scheme conceived by the California Digital Library (CDL), aiming to identify objects in a persistent way.

Persistent Uniform Resource Locator (PURL)

 PURLs are URLs is a permanent web address which contains the command to redirect to another page, one which can change over time.

Universal Resource Name (URN)

 URNs are persistent, location-independent identifiers, allowing the simple mapping of namespaces into a single URN namespace.

Learn more at

https://www.dpconline.org/handbook/technical-solutions-and-tools/persistent-identifiers

and

https://www.ands.org.au/guides/persistent-identifiers-awareness

In Summary





- Give yourself a PID;
- Give your stuff PIDs;
- Use PIDs whenever possible;
- Web addresses don't last;
- Machines understand PIDs.