

What If We Reconsidered How We Ask Scientists to Share Their Data: FAIR, Crowd-Sourcing, and Nudge Theory

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INTRO

Sharing research data openly is good for everyone, but it can be an annoying process. Too often it combines the low-level detail of metadata standards with our universal love for entering data into multi-page web forms. We propose to invert the current data submission process: get the data first, and then use crowd-sourcing and persuasive technology, plus easy-to-use tools, to help researchers document it properly.

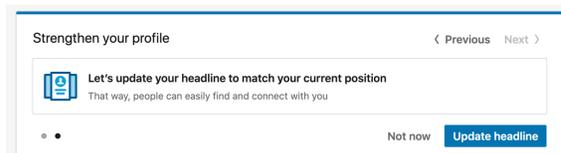
OUR APPROACH

1. Upload your data file (web form, or use right-click "Send to..." feature on desktop).
2. Tool support makes it easy to:
 - Map your own variable names to vocabularies (e.g. CF conventions)
 - Add metadata blocks (e.g. "add all the required Darwin Core fields")
3. The submitter completes micro-tasks, each with a matching motivation:
 - Add a written description to show up in more search results!
 - Add 2 more fields to be issued a DOI!
 - Add your other authors so you can submit to Figshare!
4. All tasks can be crowd-sourced, with owner verification before publication.
5. Learn over time how researcher-supplied variables map to standard vocabularies, and automatically convert.
6. Release tool as FOSS to replace current data repository submission systems.

We can reduce barriers to sharing data by improving the user experience of standardizing data, leveraging crowd-sourcing and gentle nudges.

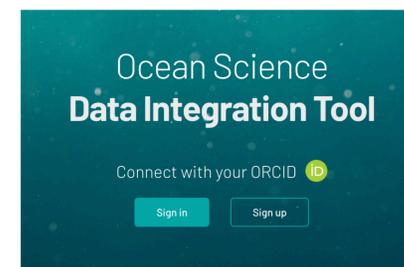


Take a picture to **visit the prototype**. It is under active development so might break at any time! 😊



Social media sites are brilliant at gently extracting your data.

WORKING PROTOTYPE



Samples	Date & Time(UTC)	Latitude	Longitude	Avg Sea Surface Temp(°C)	Community Matching
	2013-11-07 16:53	4433.5220N	6332.7210W	9.04	<input type="checkbox"/>
	2013-11-07 17:23	4433.5190N	6332.7220W	9.02	<input type="checkbox"/>
	2013-11-07 17:53	4433.5190N	6332.7250W	9.01	<input type="checkbox"/>
	2013-11-07 18:23	4433.5200N	6332.7260W	9	<input type="checkbox"/>
	2013-11-07 18:53	4433.5190N	6332.7240W	9	<input type="checkbox"/>

