ITHI: Identifier Technology Health Indicators

Defining Metrics

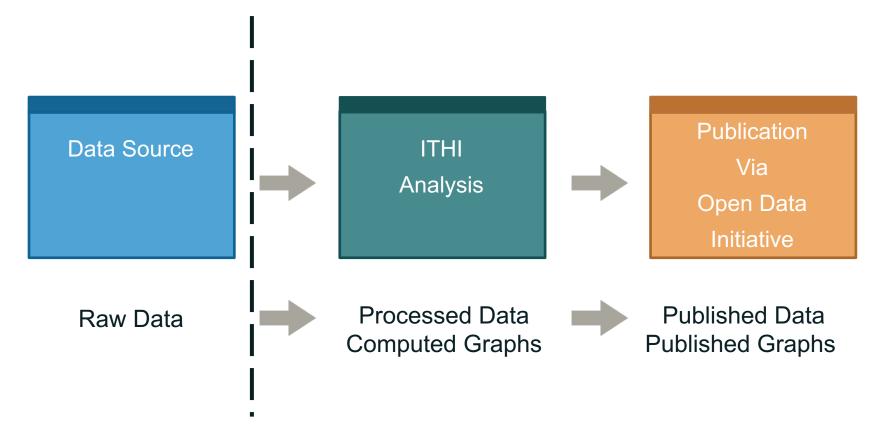
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ITHI Names

• For each "Problem Area", we will put in place a 3-stage pipeline



Candidate Metric Related to Data (in-)Accuracy

M1	Data (In-)Accuracy	
M1 encompass 2 sub-metrics		
M1.1	Number of "validated	
	complaints" per million	
	registrations	
	A "validated complaint" is a complaint received by the ICANN compliance department that has been acted on. In other words, this is not an obviously frivolous complaint.	
M1.2	whois.icann.org/en/whoisars	

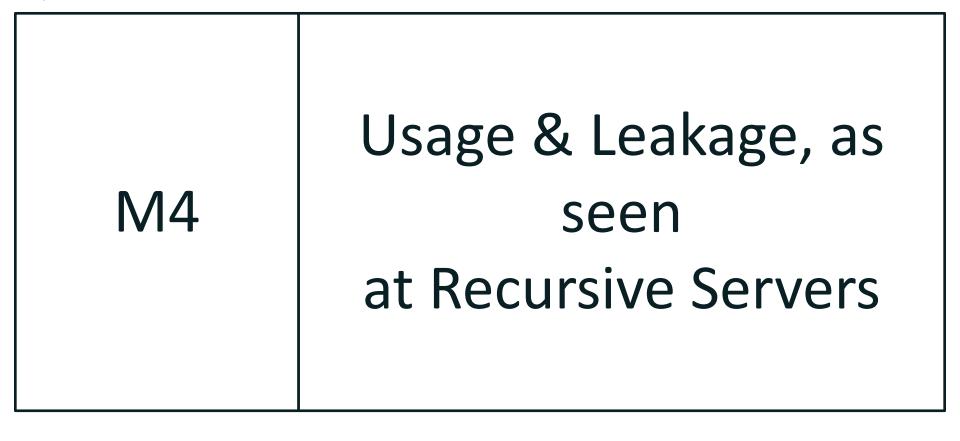
Candidate Metrics Related to Abuse

M2	Number of abuses in the ICANN DAAR* feeds for each TLD	
M2 encompass 4 sub-metrics		
M2.1	Spam	
M2.2	Phishing	
M2.3	Malware	
M2.4	Botnet	

(*)DAAR: Domain Abuse Activity Reporting: https://www.icann.org/octo-ssr/daar

M3

The overhead to the minimum traffic that would be required in a "best case" scenario where all DNS resolvers were only asking for TLDs that exists and would respect the associated TTLs. **Candidate Metric Related to Leakage**



Candidate Metric Related to Resolver Misbehavior

	% of top 10k DNS	
M5	resolvers interfering with	
	end-user DNS traffic	
M5 encompass 2 sub-metrics		
	% of top 10k resolvers	
M5.1	giving falsified answers	
M5.2	% of top 10k resolvers	
-	intercepting port 53	

ITHI Protocol Parameters

Scoped to DNS Related Registries

