



IPv6 Integrated Research

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Leading Indicators: Building the Foundation

Data Integration

Entity Matching – ARIN & NIST

Biggest Challenge

- First Attempt

- No shared keys

- Disparate method for entity identification

Critical Foundational Effort

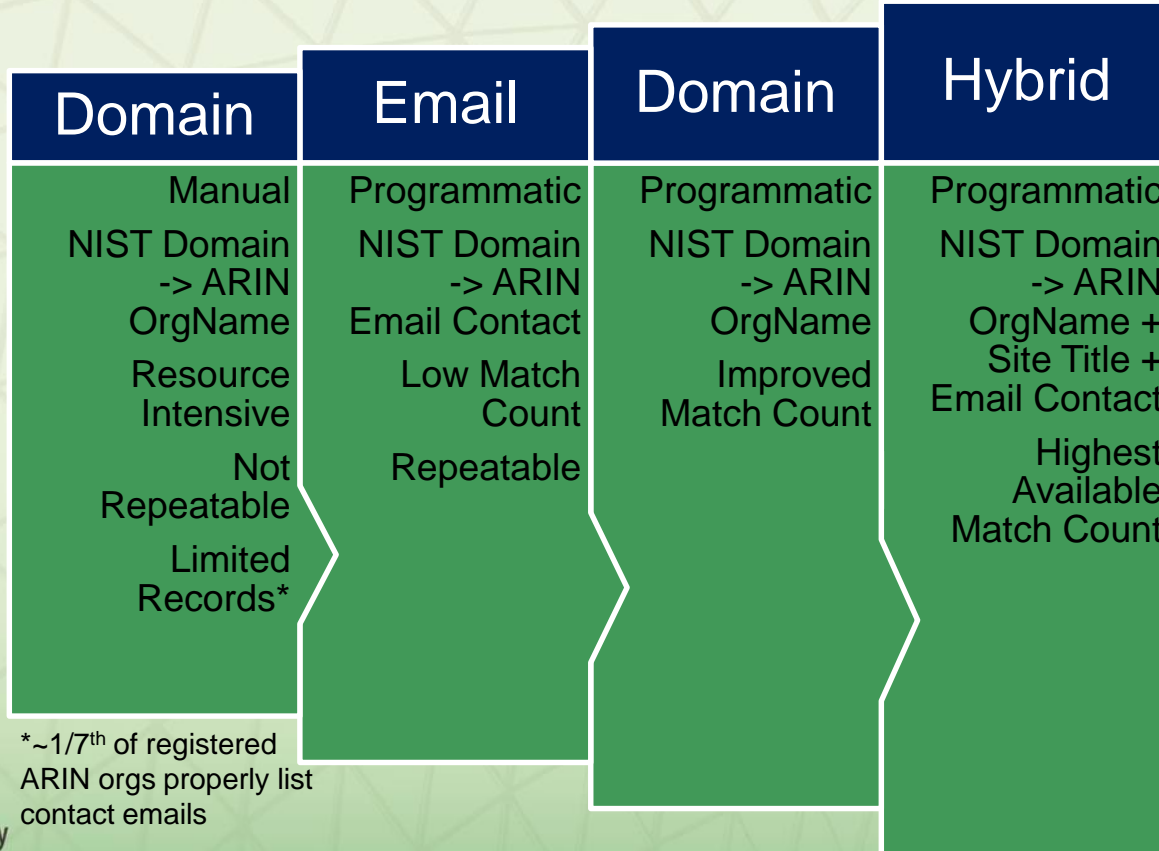
- Data Integrity

- Sufficient Sample Size

Complex Results

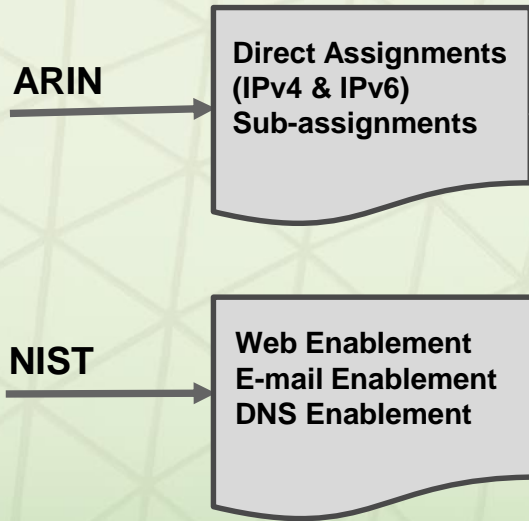
- Hybrid Heuristic + Manual Validation

Heuristic Evolution



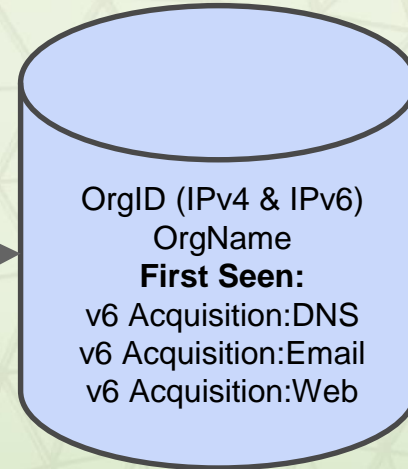
Inputs & Process

Source Datasets



Manual
Validation

Target Raw Data



Statistical
Analysis

Target Raw Data - Sample

NIST Domain Name	ARIN OrgID	Address Acquisition	First Seen		
			DNS	Email	Web
3m.com				2019-08-31	2016-11-05
aa.com	AMERIC-538	2011-02-15	2013-05-25	2014-04-05	2015-05-30
abbott.com	ABBOTT-2	2014-05-22	2014-12-13		2020-12-12
abitibowater.com			2017-09-16	2017-09-16	
aboutschwab.com					
acs-inc.com	GRS-62	2015-12-22			
admworld.com	ADM-83	2017-11-17			
adp.com	ADPES	2014-02-18	2011-03-07		
ae.com			2011-03-07		
aetna.com	CHC-69	2011-11-10			
afginc.com					
agcocorp.com	AC-4197	2019-01-10			
agilent.com					
aglresources.com					
aimco.com					
airproducts.com	APC-18	2011-04-14			

Leading Indicators of Enterprise IPv6 Adoption are critical to:

- understanding enterprise behavior
- adoption acceleration

Next Steps

- Complete Manual Validation
- Perform statistical analysis
- Socialization

Thanks!

Any
Questions?