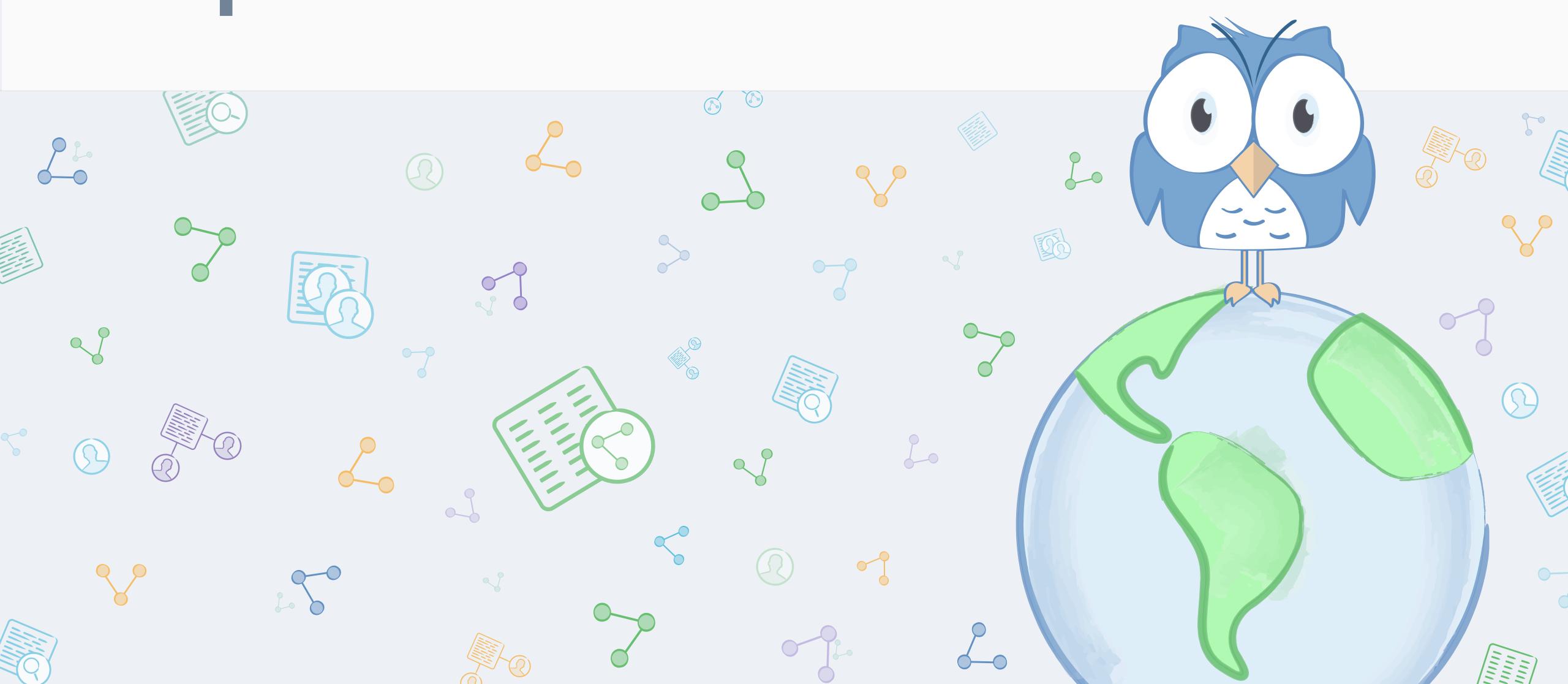


@ OpenAustin



WE'RE ON A MISSION

and people.





We're building the most **meaningful**, **collaborative**, and **abundant** data resource in the world by dismantling the barriers between data







A NEW KIND OF COMPANY

Benefit Corporation

- Expanded purpose includes public benefit
- Requires consideration of shareholders and stakeholders
- Flexibility to weigh public benefit in sale & IPO decisions

Notable Benefit Corporations











OUR PRODUCT

faster by creating new ways to **discover**, **prep**, and **collaborate**.





A data platform that helps people work together to solve problems



OPEN DATA WANTS TO BE LINKED DATA

Because data is a social animal, too.

Jonathan Ortiz September 19, 2016





There are a E Strain Strain

of OPEN DATA SETS



TOO MUCH OF DATA'S GROWTH IS HAPPENING IN SILOS.



4.00

DA

D



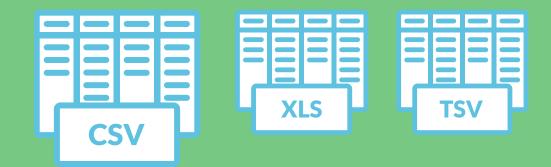


Only available as DOWNLOADABLE DOWNLOADABLE DOCUMENTS

data.world



OPEN DATA EXISTS IN MANY FORMATS



1010011	1010011	1010011
100010101	100010101	100010101
101010010	101010010	101010010
010100100	010100100	010100100
BINARY	Shapefiles	NetCDF



1010011





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Few formats convey **MEANING** about the contents in a way that can be **SHARED** and **EXTENDED**.







XML



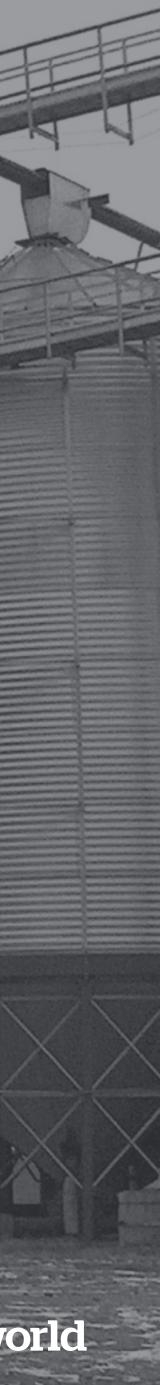
Some datasets are available via

But those APIs don't generally have consistent interfaces or patterns...









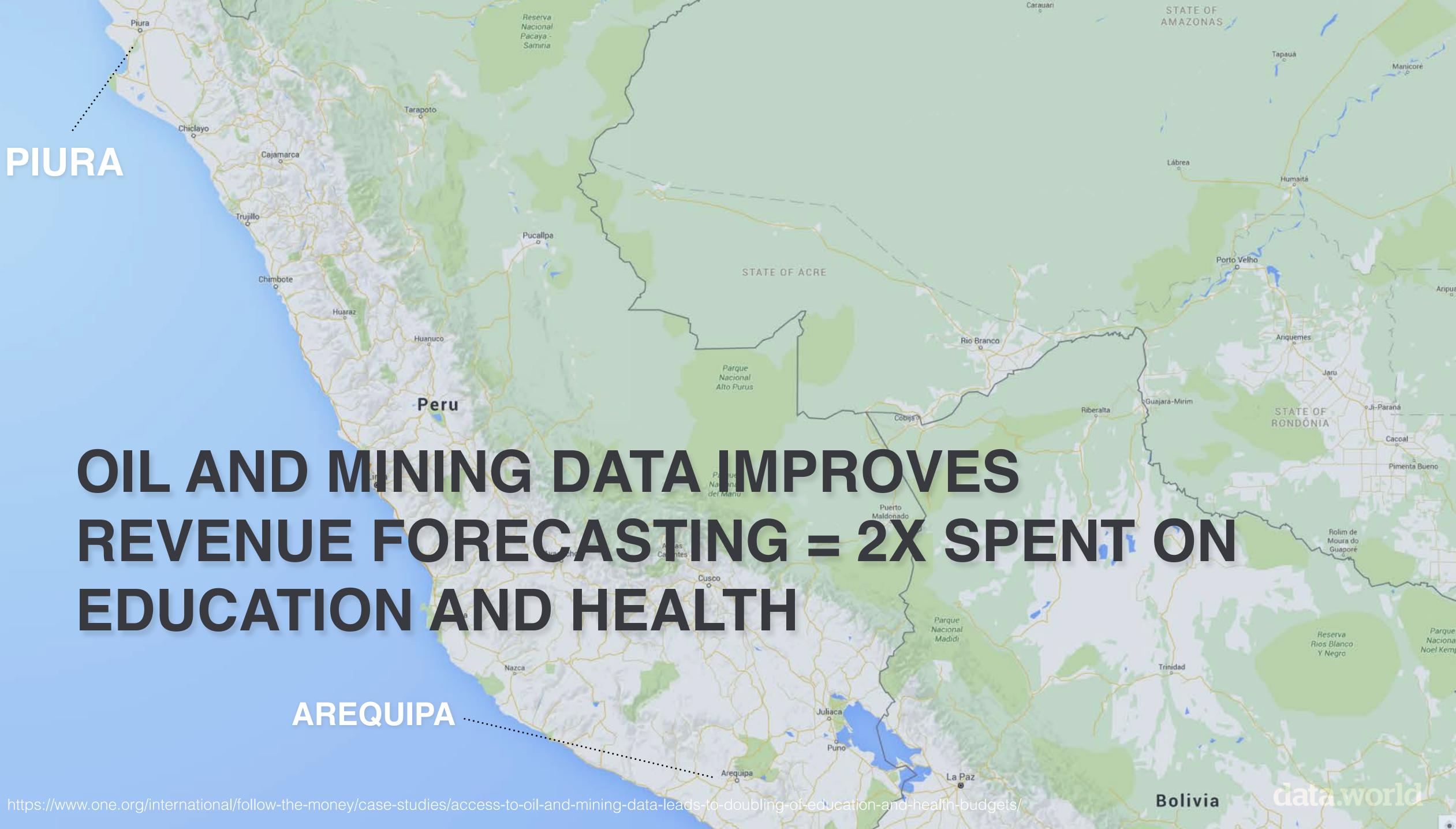
It is GREA that this open dateXISTS

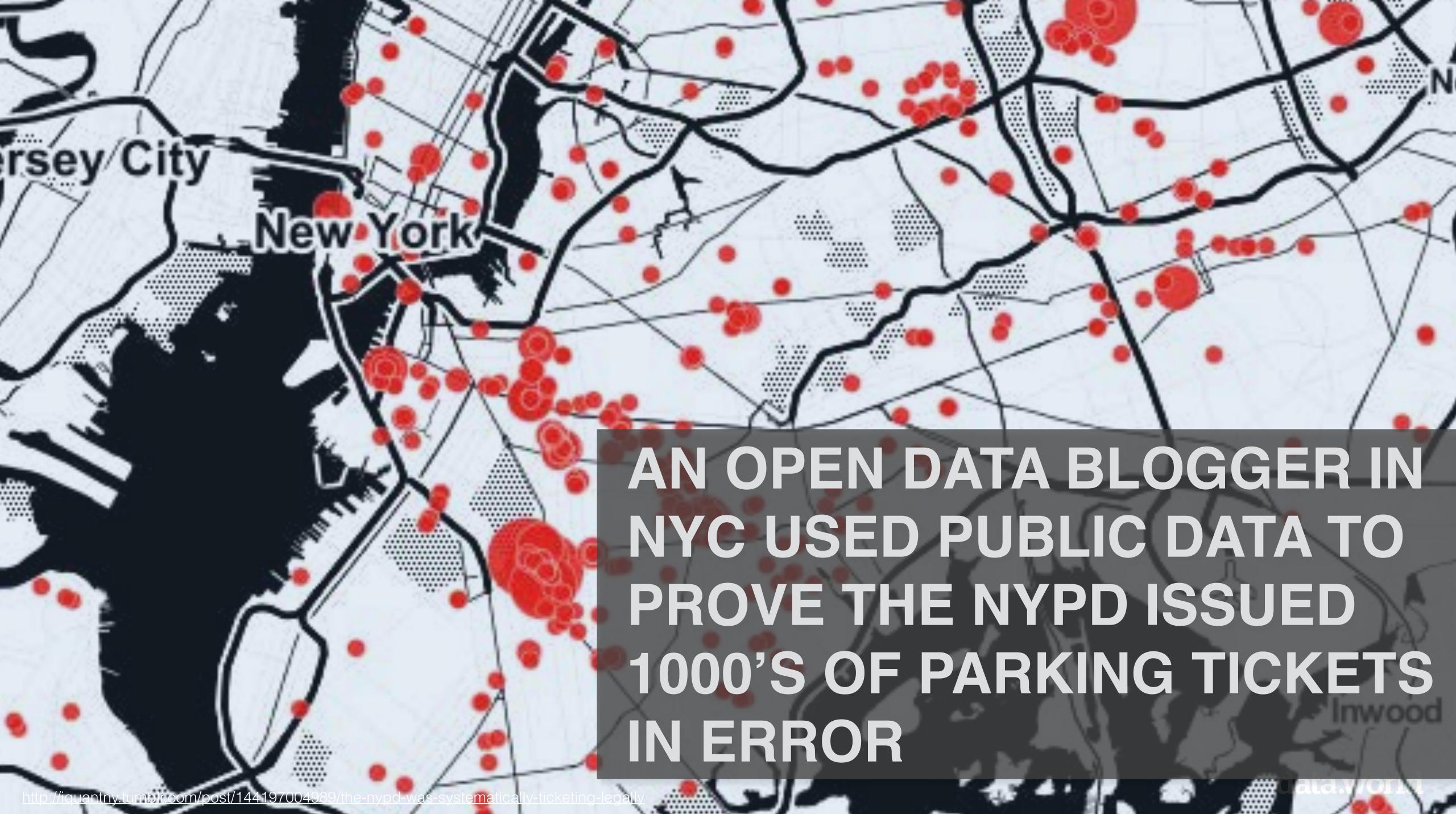


OPEN DATA FOR ALTERNATIVE RISK MODELS = \$2B IN LOANS ACROSS 700+ INDUSTRIES









Mr. Wellington's analysis identified errors the department made in issuing parking summonses. It appears to be a misunderstanding by officers on patrol of a recent, abstruse change in the parking rules. We appreciate Mr. Wellington bringing this anomaly to our attention.

The department's internal analysis found that patrol officers who are unfamiliar with the change have observed vehicles parked in front of pedestrian ramps and issued a summons in error. When the rule changed in 2009 to allow for certain pedestrian ramps to be blocked by parked vehicles, the department focused training on traffic agents, who write the majority of summonses.

Yet, the majority of summonses written for this code violation were written by police officers. As a result, the department sent a training message to all officers clarifying the rule change and has communicated to commanders of precincts with the highest number of summonses, informing them of the issues within their command.

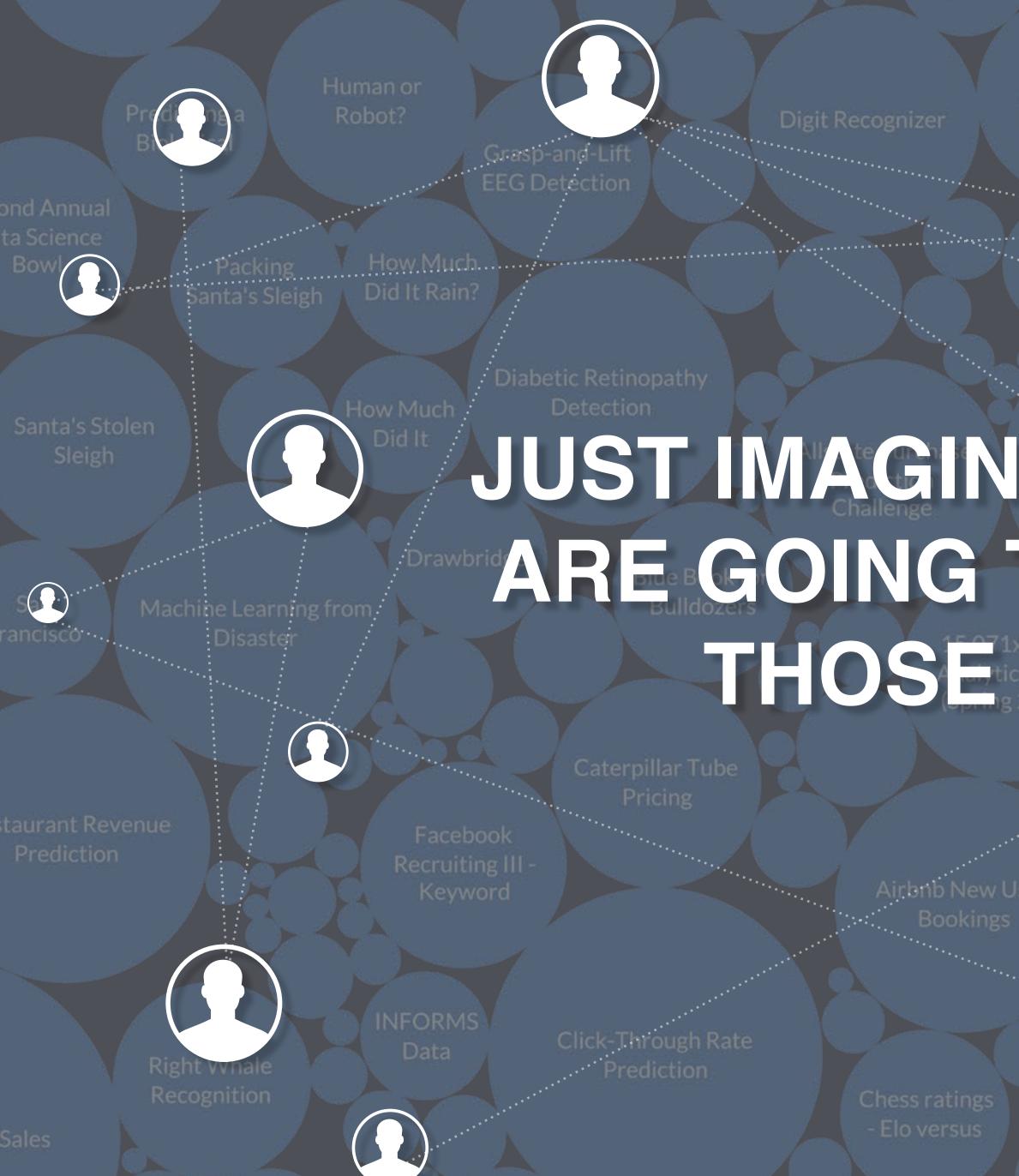
Thanks to this analysis and the availability of this open data, the department is also taking steps to digitally monitor these types of summonses to ensure that they are being issued correctly."



I was speechless. THIS is what the future of government could look like one day. THIS is what Open Data is all about. THIS was coming from the NYPD, who is not generally celebrated for its transparency, and yet it's the most open and honest response I have received from any New York City agency to date. Imagine a city where all agencies embrace this sort of analysis instead of deflect and hide from it.

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JUST INAGINE WHAT PEOPLE ARE GOING TO DO WITH ALL THOSE DATA SETS







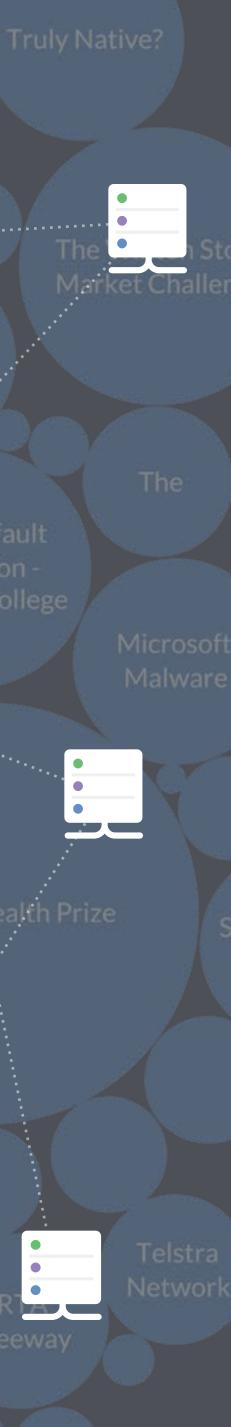
nperial Colleg

JUST IMAGINE WHAT MACHINES ARE GOING TO DO WITH ALL THOSE DATA SETS

Search Result

Employee Access Challenge





But FINDING it UNDERSTANDING it

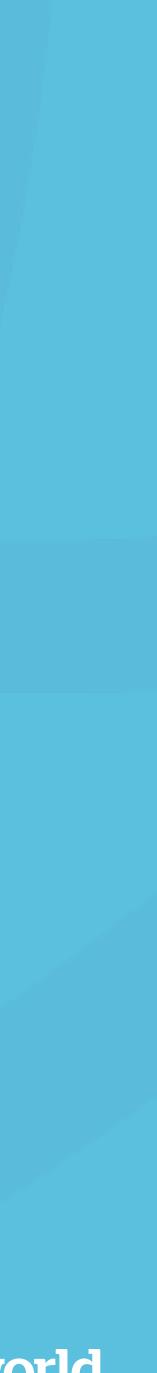
and USING it can be a challenge



This process happens

AND OVER AND OVER AGAIN as each data user does it individually









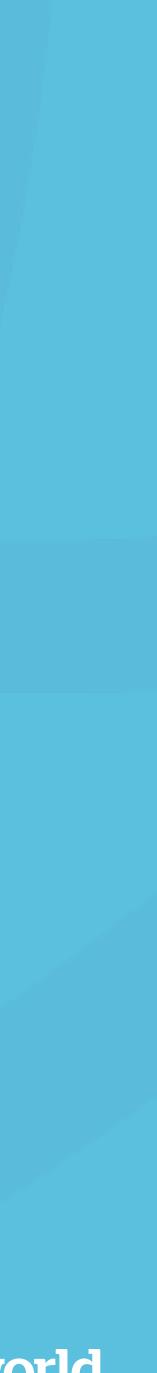
EFEORT is wasted on the WORKING & REWORKING ofthe SAME DATA





What is





IMAGINE **RELEARNING WEB BROWSING** FOR EACH NEW SITE YOU VISIT. That's what it's like when data isn't linked.



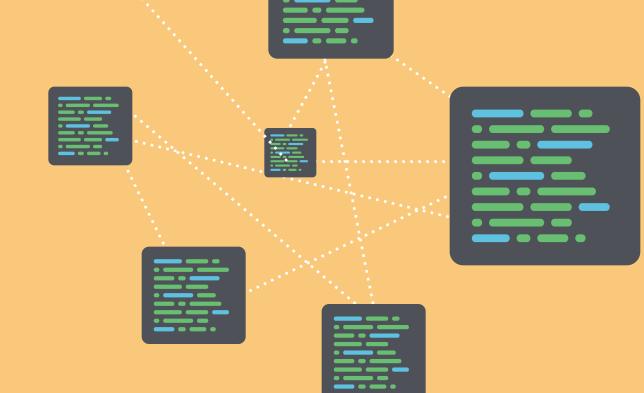




It's applying the SAME architecture as the WWWof linked documents to... DATA











First, break DATA into ATOMIC FACTS





SUBJECT, PREDICATE, OBJECT

(Turkey, "is a", Country)

(Ankara, "is a", City)

(Ankara, "is the capital of", Turkey)



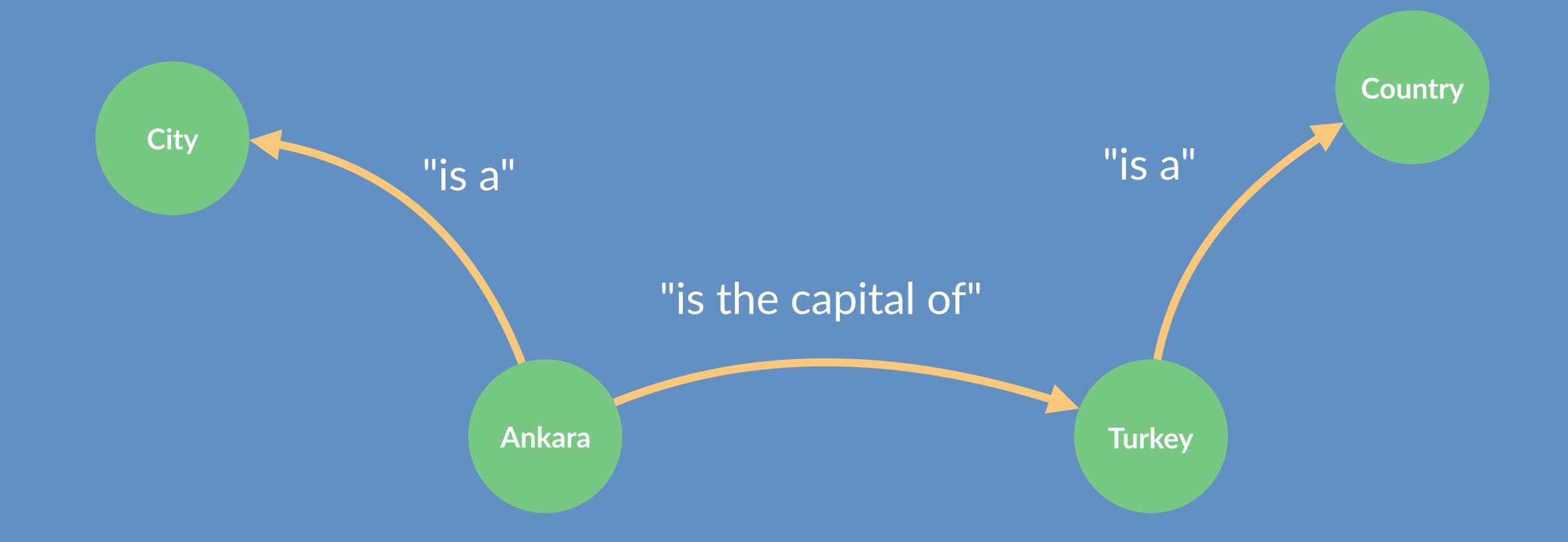


SUBJECT, PREDICATE, OBJECT





THE TRIPLE





Refer to ENTITIES and RELATIONSHIPS via URIS so their MEANINGS can be discussed





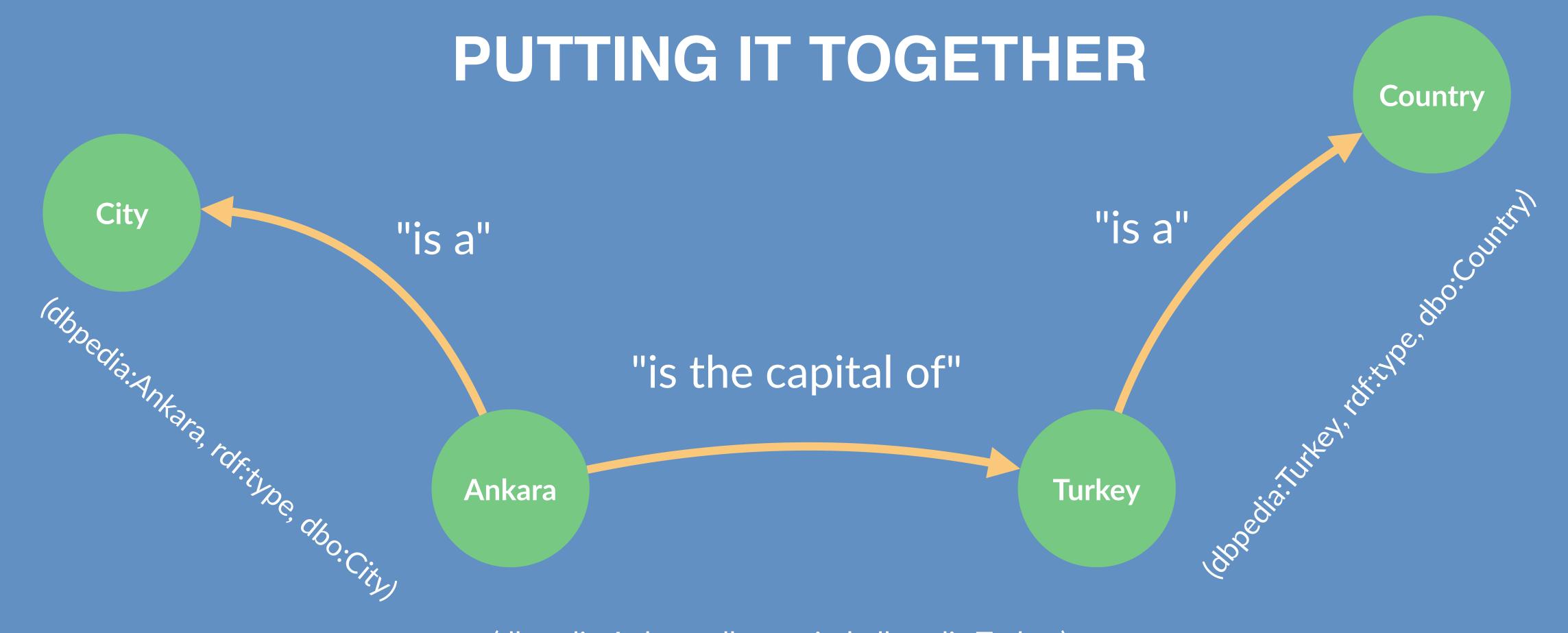
SUBJECT, PREDICATE, OBJECT

http://subject

http://predicate

http://object





(dbpedia:Ankara, dbo:capital, dbpedia:Turkey)

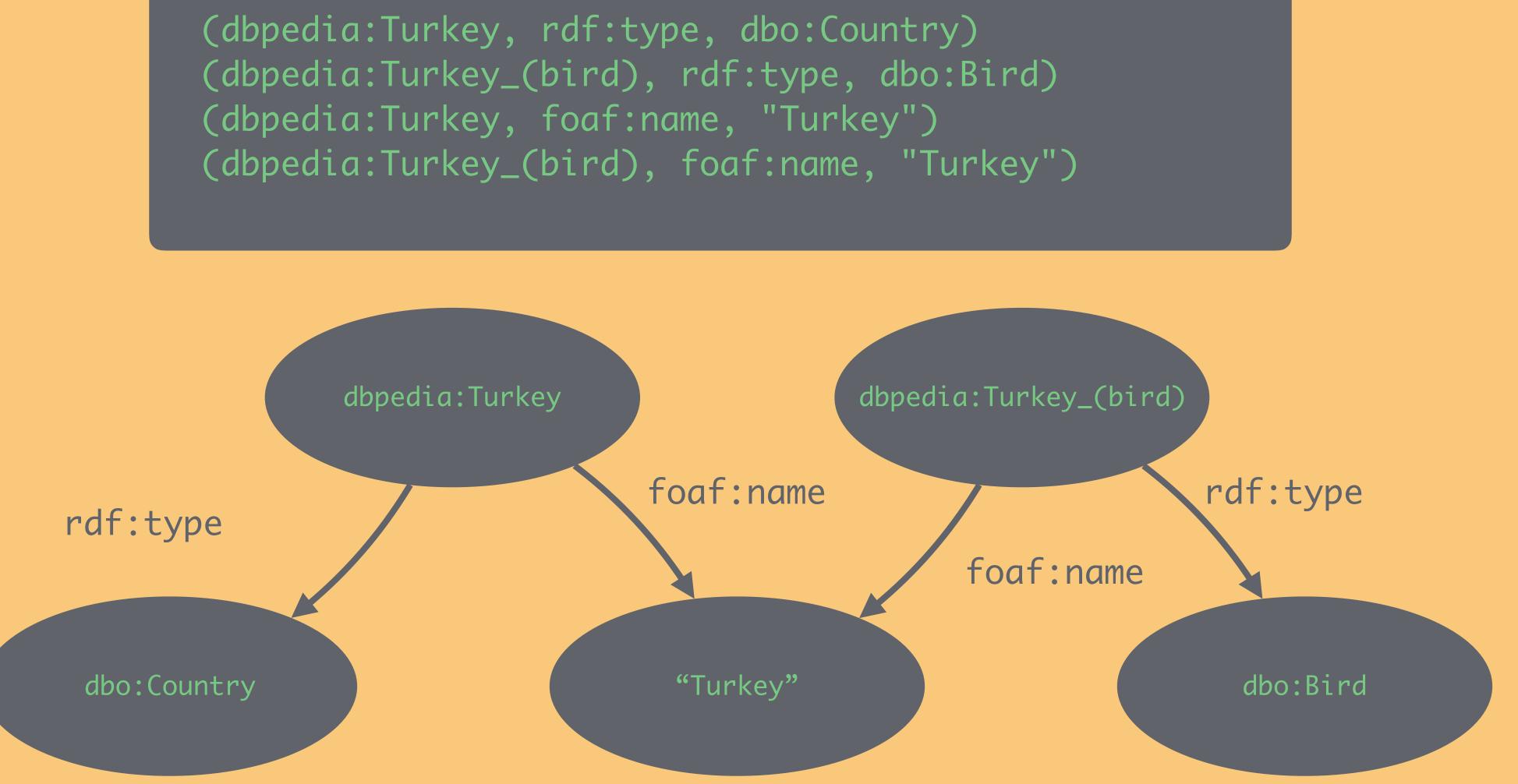


Statement Statement State

B

Turkey





TURKEY vs **TURKEY**





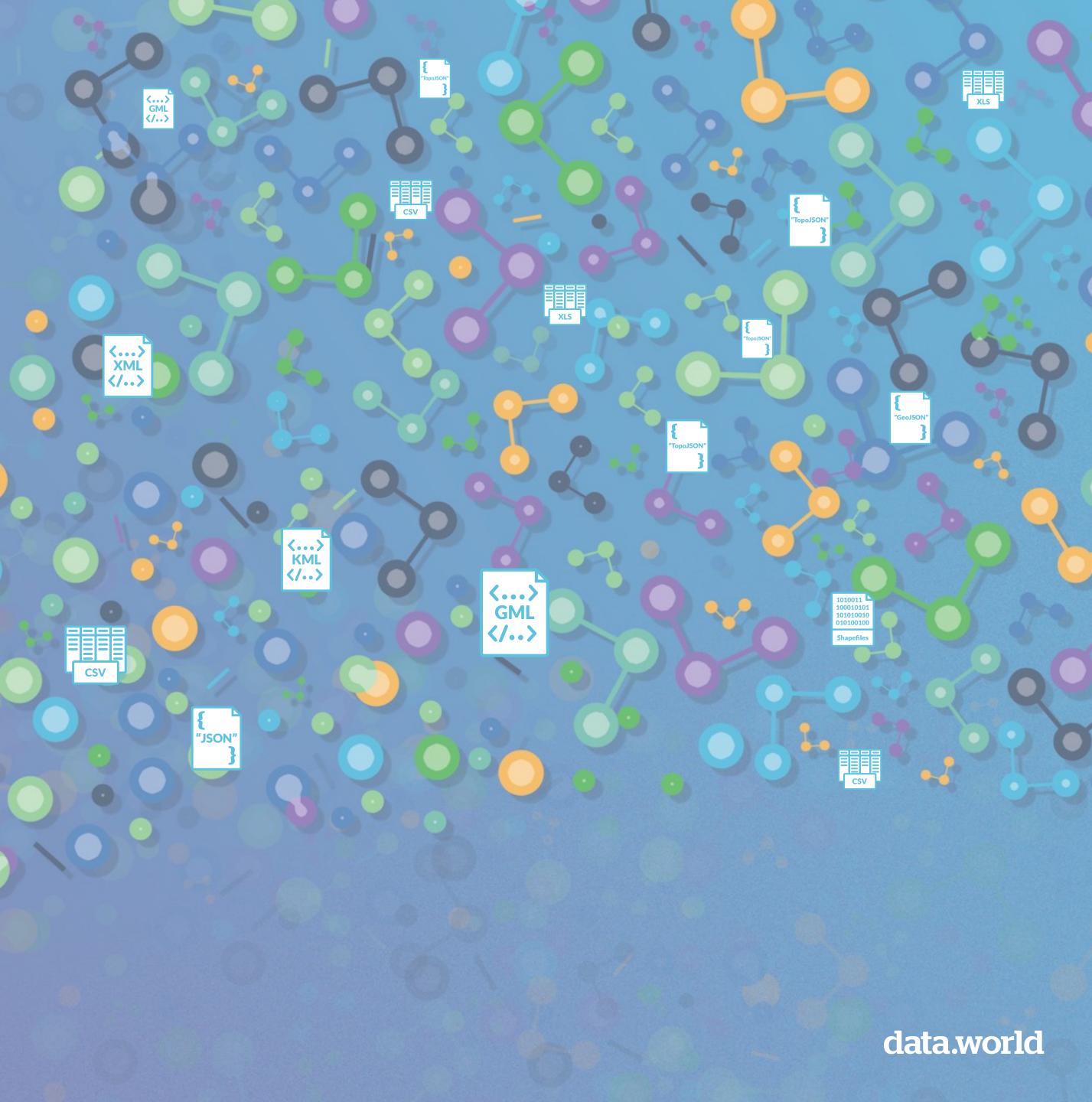


ANYONE Can say ANYTHING About ANY TOPIC

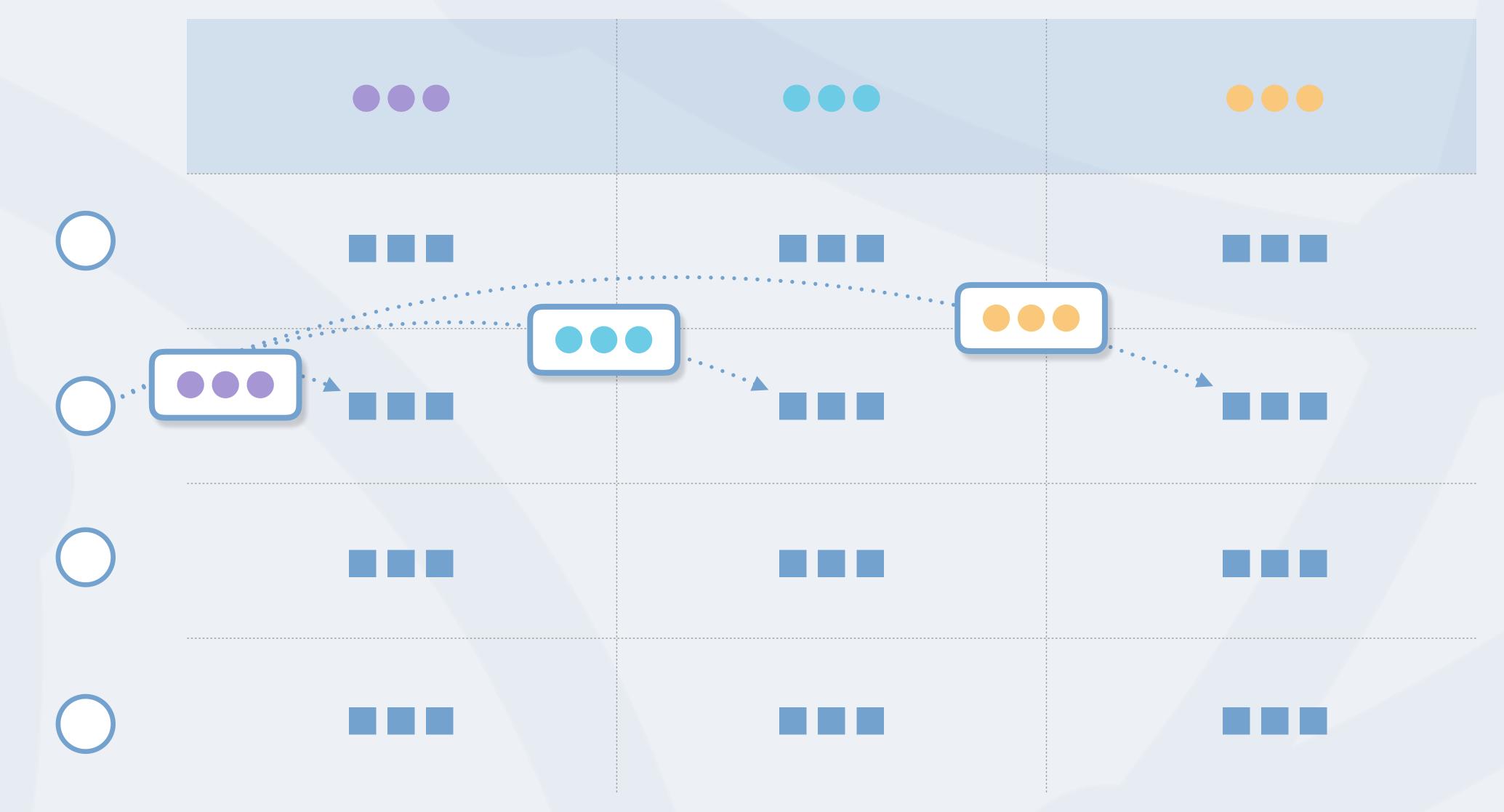


YEA TRIPLES!

Triples are a universal format for representing facts - Any structured data can be mechanically transformed into triples.



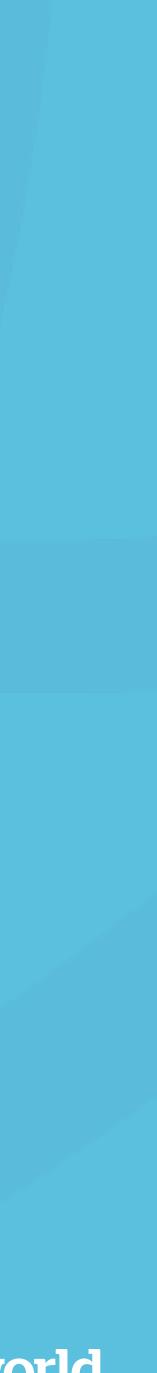
TABULAR DATA AS A GRAPH





Why should you make your open data LINKED





To make **DISCOVERY** of your data easier To make your data **INTEROPERABLE** To help the machines learn **FASTER**











Data can enjoy a "NETWORK EFFECT"

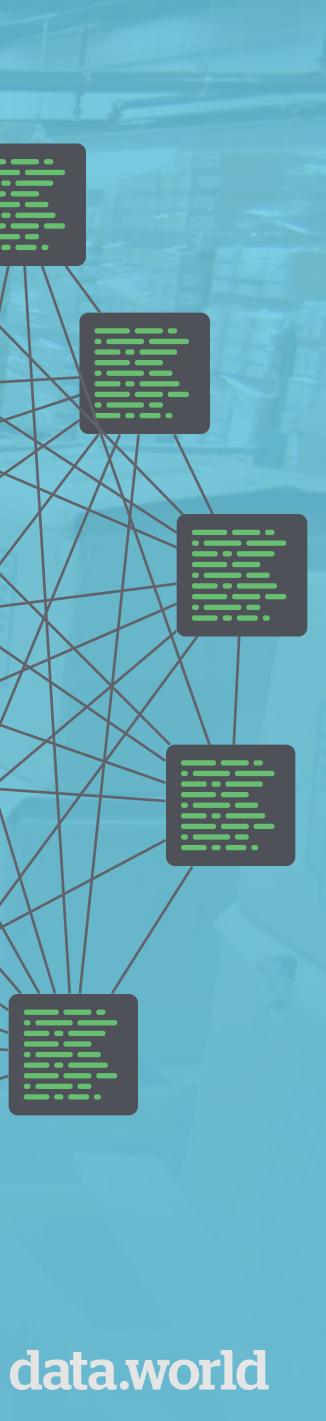


Each dataset that is added to the network INCREASES the incremental VALUE of every data set in the network



DATA NETWORK





LINKED DATA is about publishing data as ATOMC FACTS and using UNIVERSAL IDENTIFIERS to refer to concepts and relationships, so we can agree upon the EMANTIC MEANING

of data.

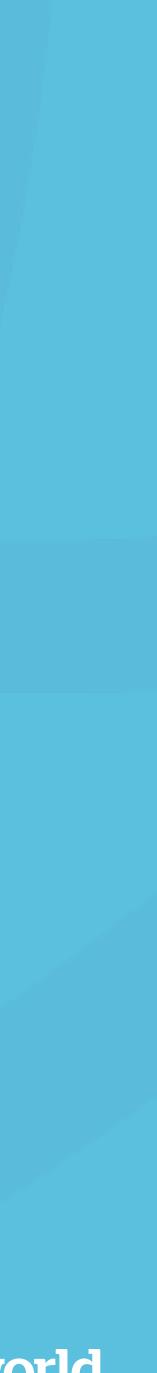
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Your OPEN DATA wan

wants to be LINKED DATA





•

Human or Robot?



Packing How Much anta's Sleigh Did It Rain?

Santa's Stoler Sleigh

So the PEOPLE and MACHINES who are using that data to solve HUMANITIES BIGGEST PROBLEMS can leverage the sum of accumulated knowledge as effectively as possible.

taurant Revenue Prediction

Facebook Recruiting III -Keyword



Recognition

Click-Through Rate Prediction

Chess ratings - Elo versus

Sales

Display Advertising Challenge Don't Get

GE Flight Quest



Predict Closed

Learning

Liberty Mutual

Bike Sharing Demand

Amazon.com -Employee Access Challenge



Give Me Some Credit





data.world

March Machine



The time to make your OPEN DATA accessible as is







for real