why open and machine readable?

cheap data changes the epistemology.

$$OPS = AB(H + BB + HBP) + TB(AB + BB + SF + HBP) / AB(AB + BB + SF + HBP)$$

opening data attempts to reflect the epistemology.

Open-source software

From Wikipedia, the free encyclopedia

This article **needs additional citations for verification**. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed.
(February 2010)

Open-source software (**OSS**) is computer software with its source code made available and licensed with a license in which the copyright holder provides the rights to study, change and distribute the software at no cost to anyone and for any purpose. Open-source software is very often developed in a public, collaborative manner. Open-source software is the most prominent example of open-source development and often compared to (technically defined) user-generated content or (legally defined) open-content movements.[1]

A report by the Standish Group (from 2008) states that adoption of open-source software models has resulted in savings of about $60 billion per year to consumers.[2][3]

Contents [hide]

1 History

1. big data as we experience it.

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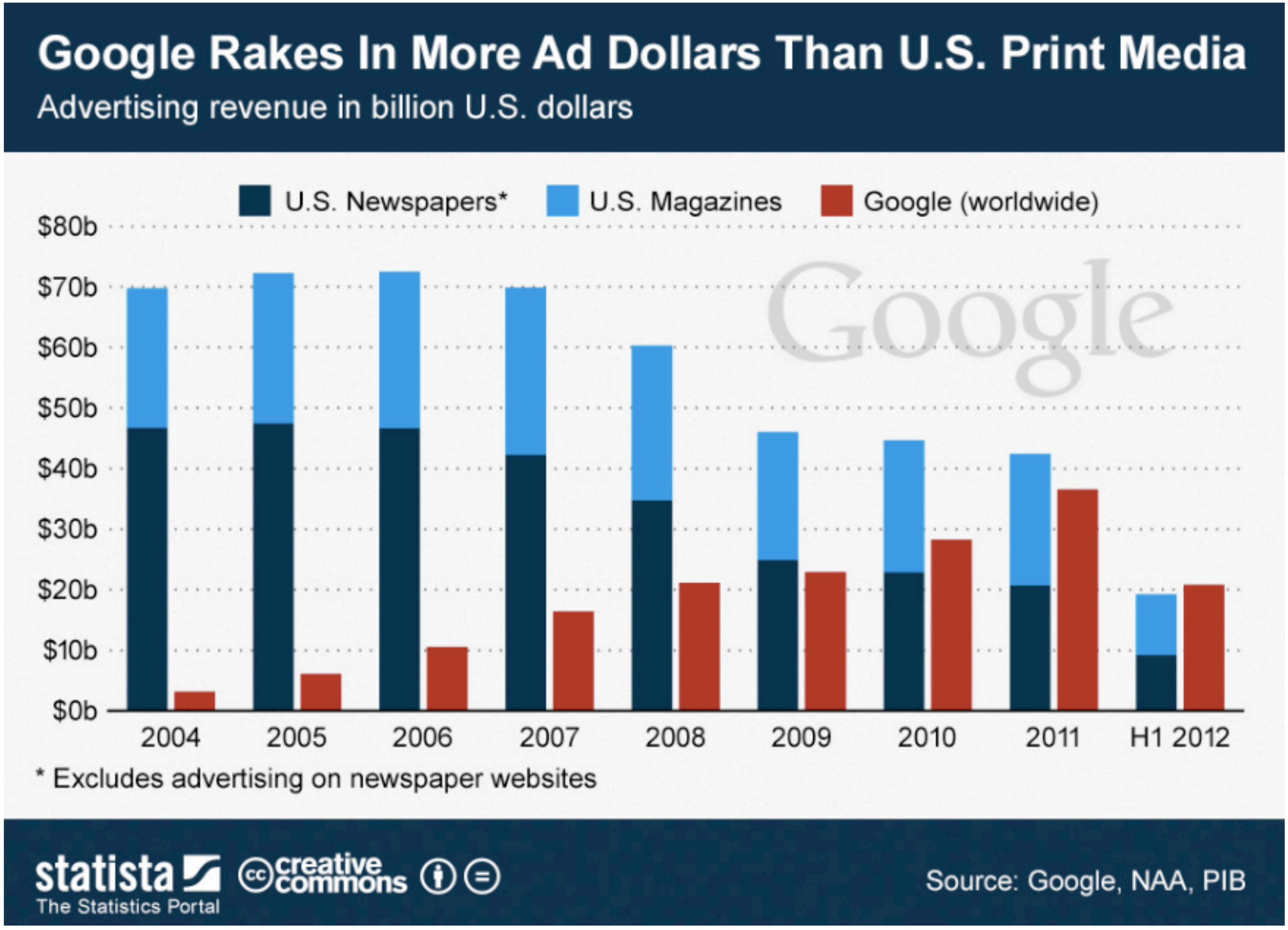

Google Rakes In More Ad Dollars Than U.S. Print Media
Advertising revenue in billion U.S. dollars
U.S. Newspapers*
U.S. Magazines
Google (worldwide)
$80b
$70b
$60b
$50b
$40b
$30b
$20b
$10b
$0b
Google
2004
2005
2006
2007
2008
2009
2010
2011
H1 2012
* Excludes advertising on newspaper websites
statista
The Statistics Portal
creative commons
Source: Google, NAA, PIB

Market share of the main internet portals

Share of global internet ad expenditure (%)

	2006	2007	2008	2009	2010
Google	34.9	40.3	42.5	41.9	44.1
Microsoft	8.1	7.9	4.2	4.0	4.0
Yahoo!	18.7	14.9	11.7	9.6	8.3
AOL	6.3	5.5	4.2	2.2	1.5
Facebook	0.2	0.4	0.6	1.4	3.1
Total	**68.1**	**68.9**	**63.2**	**59.2**	**61.0**

Overall the internet represents only 16 percent of global ad revenue according to ZenithOptimedia. TV, by comparison, is 40.2 percent of all ad expenditures. Hence Google's interest in building YouTube into a *bona fide* TV/cable alternative.

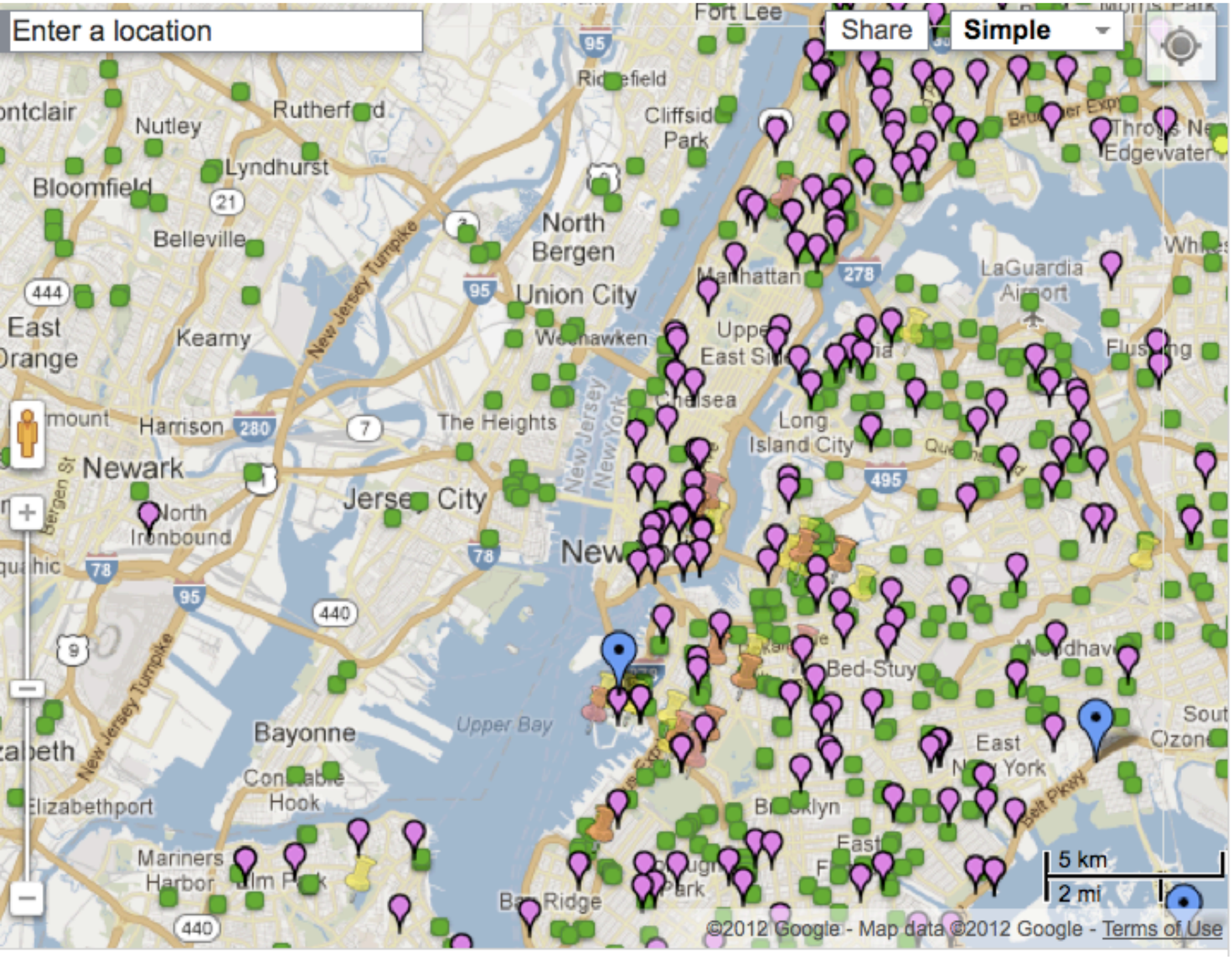
Advertising expenditure by medium

US$ million, current prices *Currency conversion at 2010 average rates.*

	2010	2011	2012	2013	2014
Newspapers	94,600	91,495	89,868	88,785	88,446
Magazines	43,741	43,122	42,681	42,464	42,186
Television	176,627	184,290	193,735	203,608	215,737
Radio	32,017	32,903	33,667	34,827	35,923
Cinema	2,313	2,442	2,564	2,732	2,916
Outdoor	29,824	31,291	32,928	34,559	36,350
Internet	63,979	72,842	84,267	97,764	113,281
Total *	**443,100**	**458,385**	**479,710**	**504,738**	**534,839**

Source: ZenithOptimedia

“open” data for “good”



Superstorm Sandy: NYC

Sandy was a major storm that caused extensive flooding, physical damage, power and transportation outages, and fatalities in NY and much of the US East coast.

- Latest alerts, NYC Emergency Mgmt
- City of New York on Twitter
- NYC Emergency Mgmt on Facebook
- WNYC Transit Tracker
- NYC.gov information including volunteering and school status

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☑ Gas stations

Legend

- Gas available
- Gas inventory low or uncertain
- Gas not available
- Gas not available (no power)
- Gas not available (no power, no gas)

NOTE: It is not possible to predict the rate at

2. how might we assess the economic value of data?

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Public Data Sets

Public Data Sets on AWS provides a centralized repository of public data sets that can be seamlessly integrated into AWS cloud-based applications. AWS is hosting the public data sets at no charge for the community, and like all AWS services, users pay only for the compute and storage they use for their own applications. Learn more about Public Data Sets on AWS and visit the Public Data Sets forum.

Featured Public Data Sets

1000 Genomes Project
The 1000 Genomes Project, initiated in 2008, is an international public-private consortium that aims to build the most detailed map of human genetic variation available.

Common Crawl Corpus
A corpus of web crawl data composed of 5 billion web pages. This data set is freely available on Amazon S3 and formatted in the ARC (.arc) file format.

Google Books Ngrams
A data set containing Google Books n-gram corpuses. This data set is freely available on Amazon S3 in a Hadoop friendly file format and is licensed under a Creative Commons Attribution 3.0 Unported License. The original dataset is available from http://books.google.com/ngrams/.

commitment.

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2012-10-29
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92mph
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COMMUNITIES
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"Science is a combination of gathering facts and making theories; neither can progress on its own. [...] In the history of science, the laborious accumulation of facts is the dominant mode, not a novelty."

Peter Norvig, Director of Research @Google Inc.

Biodiversity Data Journal (BDJ) is a community peer-reviewed, open-access, comprehensive online platform, designed to accelerate publishing, dissemination and sharing of biodiversity-related data of any kind. All structural elements of the articles – text, morphological descriptions, occurrences, data tables, etc. – will be treated and stored as DATA.

The journal will publish papers in biodiversity science containing taxonomic, floristic/faunistic, morphological, genomic, phylogenetic, ecological or environmental data on any taxon of any geological age from any part of the world with **no lower or upper** limit to manuscript size.

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DataCite

Helping you to find, access, and reuse data

DataCite Business Models Principles are online

Published by Frauke Ziedorn on 31 October 2012 - 1:08pm

DataCite's Business Models Principles document is now available for download. Intended for DataCite members and their clients, the document looks at DataCite member and client responsibilities, as well as best practices.

Read more

DataCite Services

Published by Frauke Ziedorn on 18 October 2012 - 1:32pm

DataCite offers various services supporting the DOI registration and discovery of research data. These services include the Metadata Store, a statistics portal, the OAI-PMH Provider and many more. Please have a look at our Services website for more information!

Read more

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What do we do?

DOI resolver

Resolve a DOI string (e.g.

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Worldwide Historical Weather Data

published by: Weather Trends International

Historical daily maximum temperature, minimum temperature, precipitation, dewpoint, sea level pressure, windspeed, and wind gust for thousands of locations around the world.

Drug Prescribing by GP Practices in England

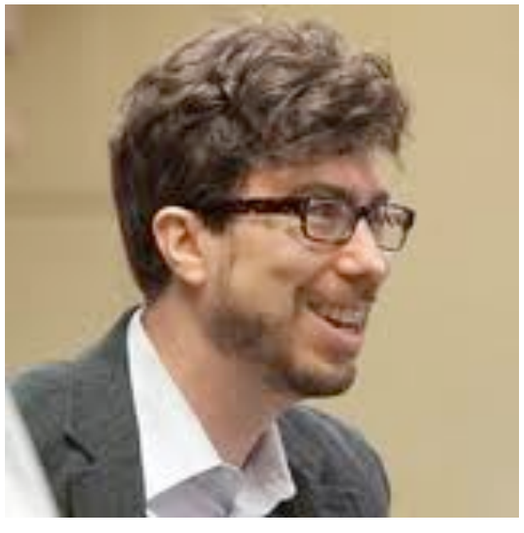
published by: Custom Web Apps, Ltd

Covering all general practices in England, the data includes figures on the number of prescription items that are dispensed each month and information relating to costs. For the first time, users can query the API using a combination of location (UK postcode) and ANY drug BNF code! For each GP practice, the total number of items that were prescribed and then dispensed, the total Net Ingredient Cost and the total Actual Cost of these items is shown.

Barcelona Facilities

price.

“capacity to produce unanticipated change through unfiltered contributions from broad and varied audiences”



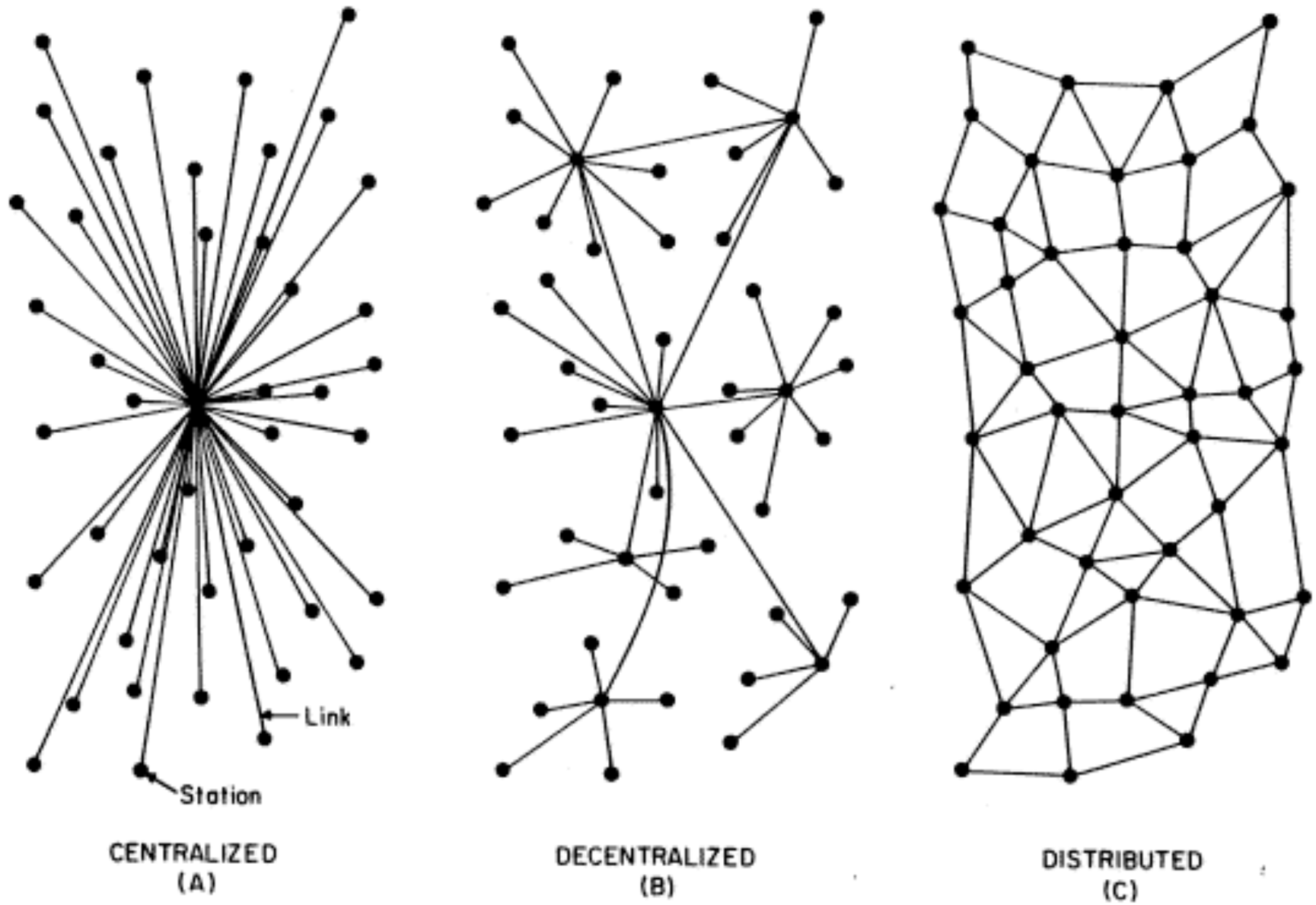
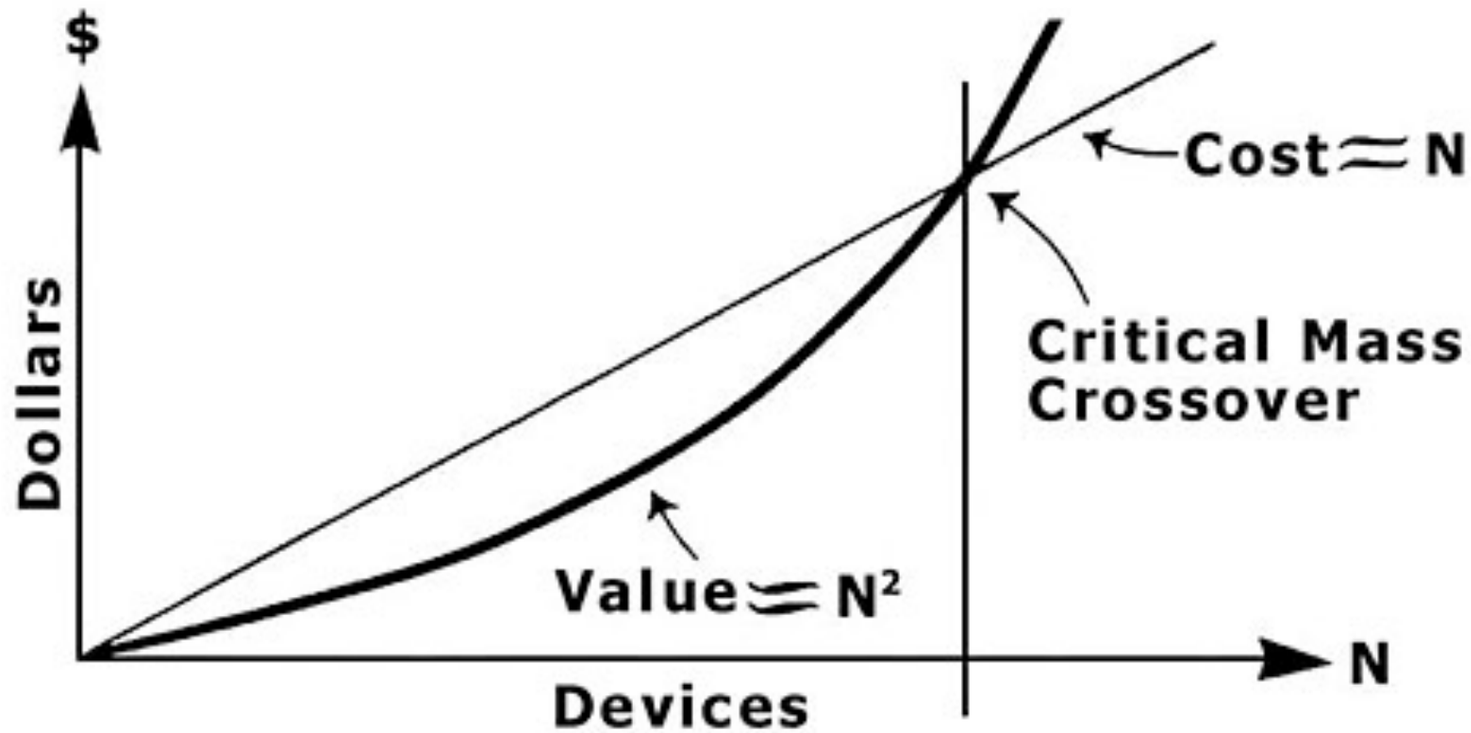
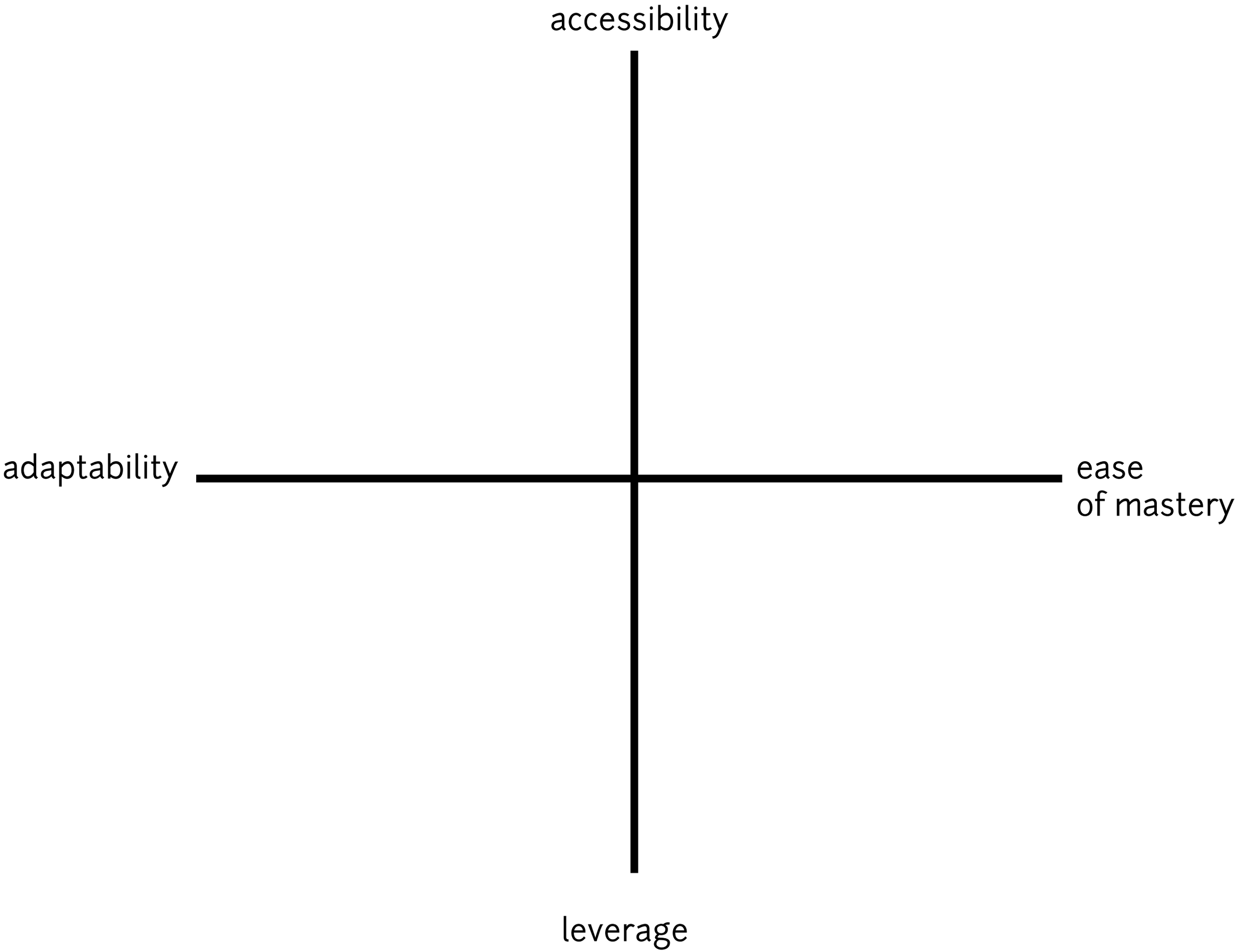


FIG. 1 — Centralized, Decentralized and Distributed Networks

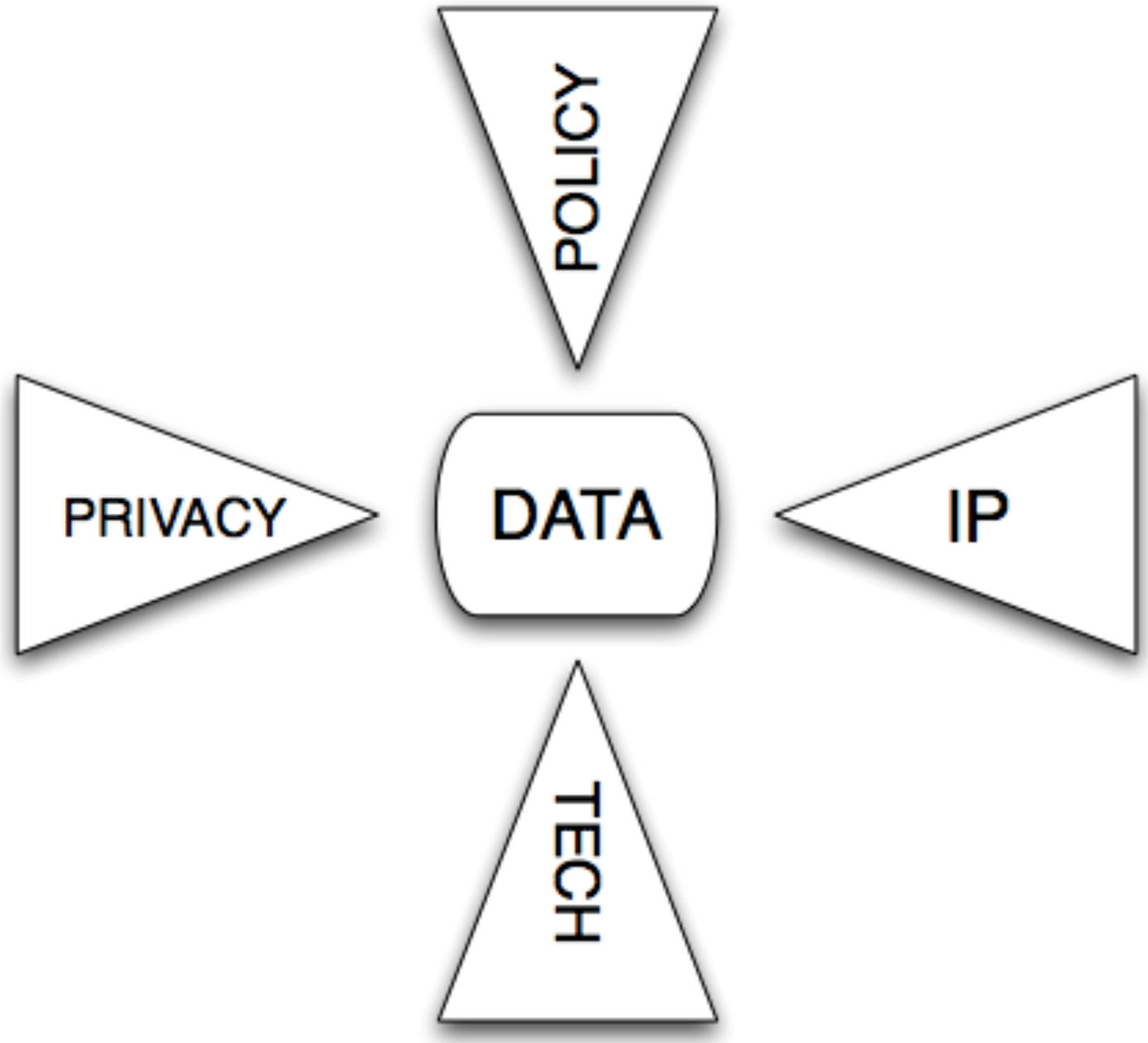
The Systemic Value of Compatibly Communicating Devices Grows as the Square of Their Number:

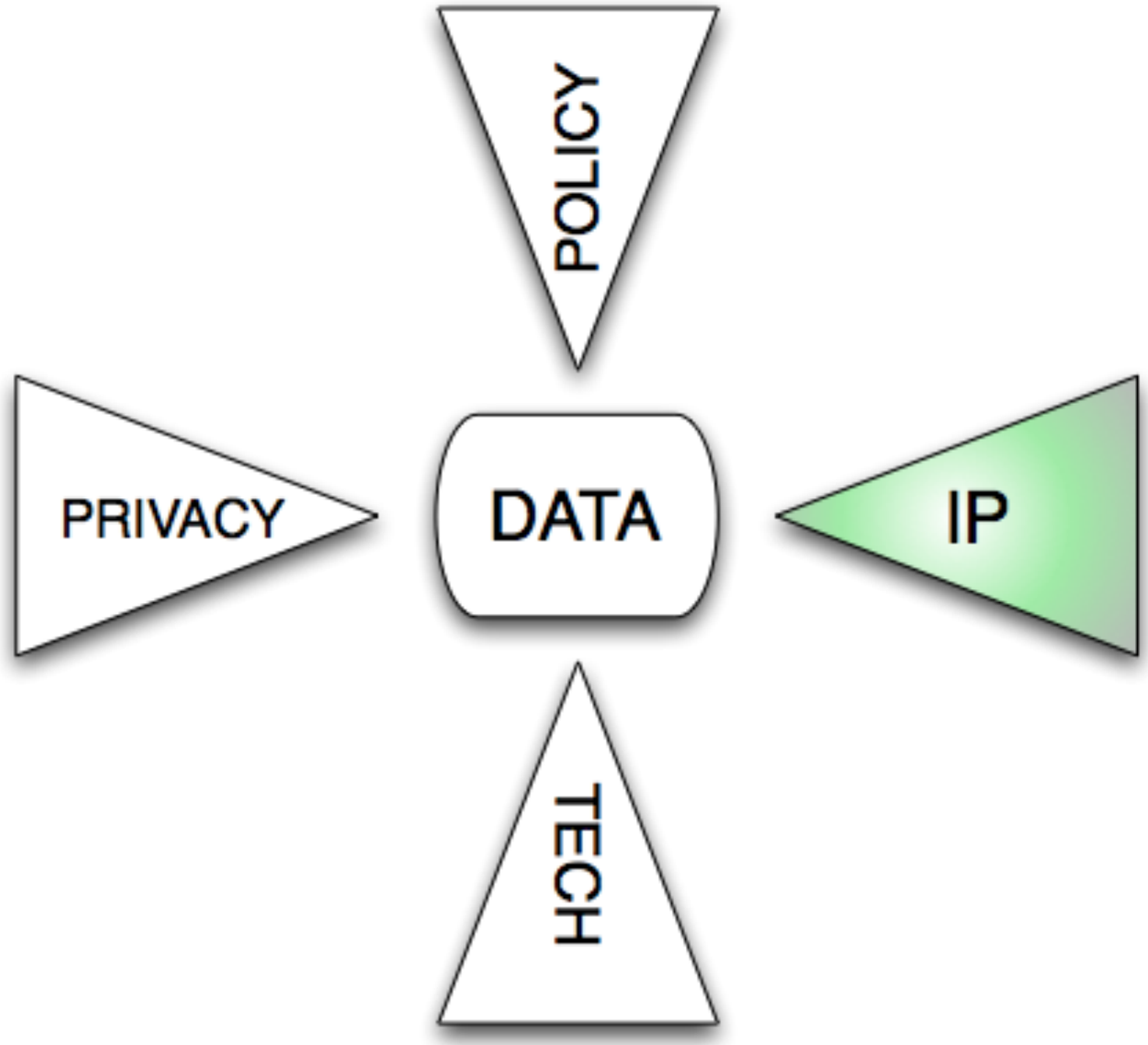


3. how might we “score” generativity?


accessibility
adaptability
ease
of mastery
leverage

what things regulate?

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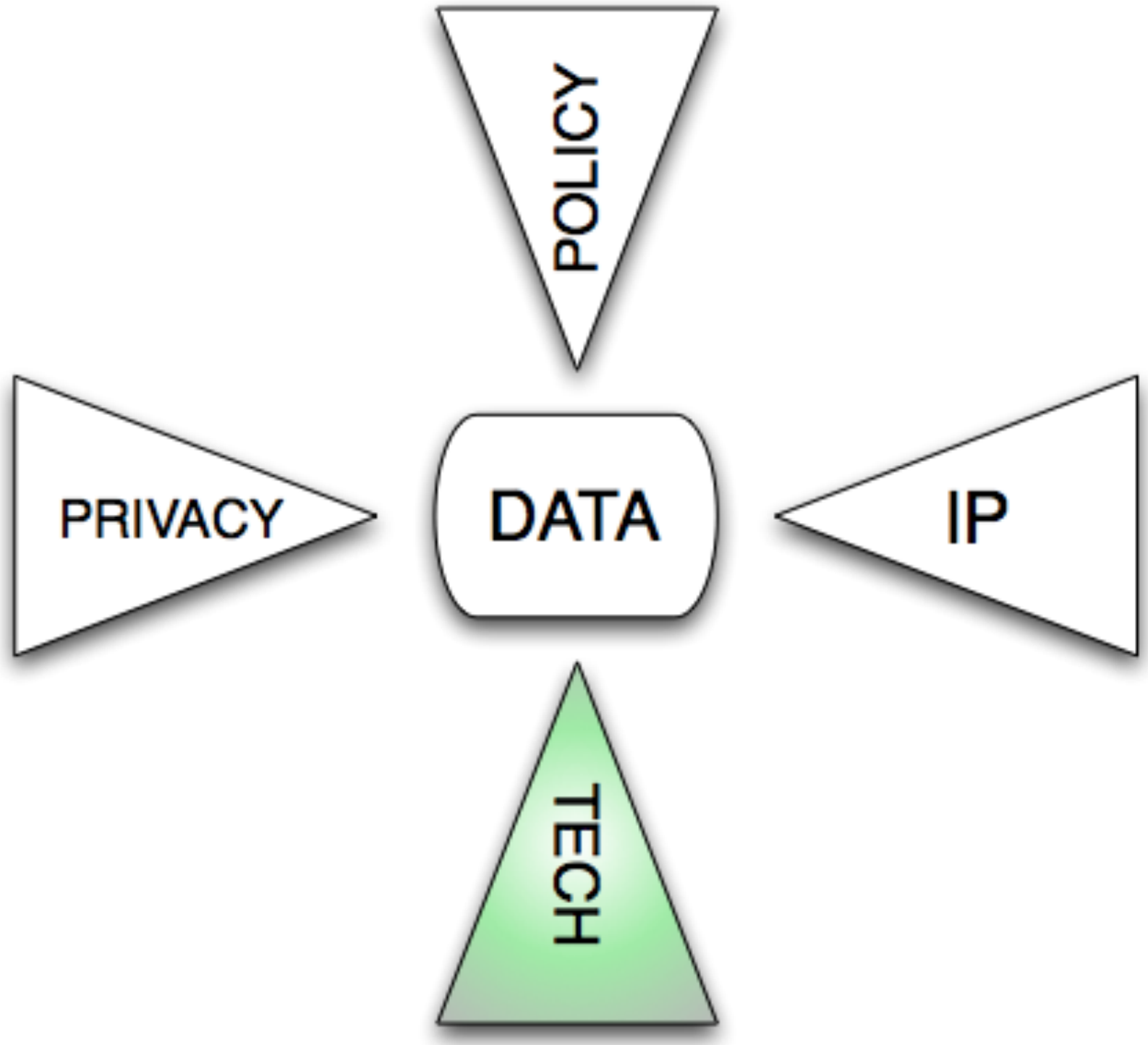
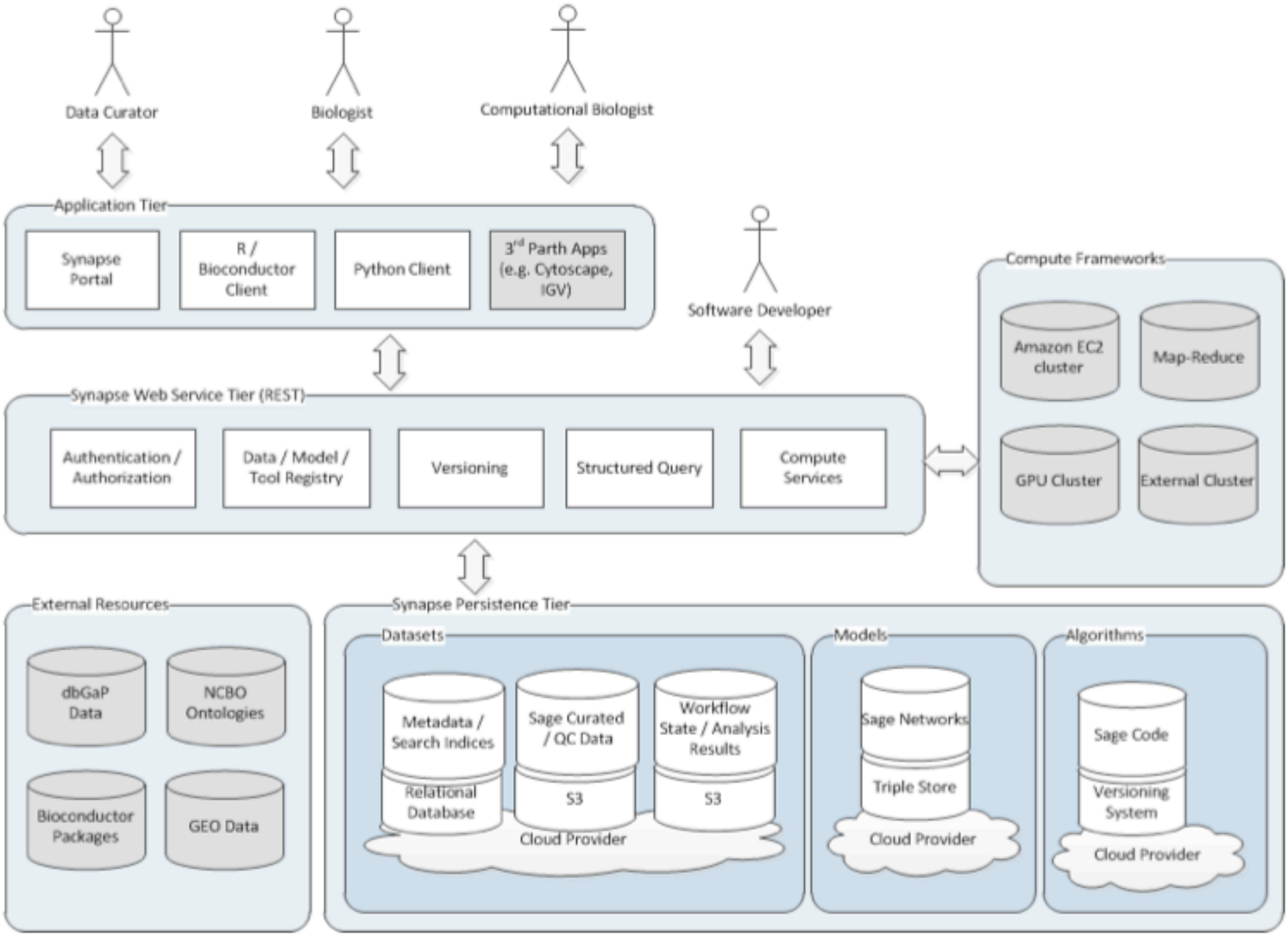
patents
trade secrets
contracts


POLICY
PRIVACY
DATA
IP
TECH

ontology
API
format
OAuth
version control
provenance


Data Curator
Biologist
Computational Biologist
Application Tier
Synapse Portal
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Python Client
3rd Parth Apps (e.g. Cytoscape, IGV)
Software Developer
Compute Frameworks
Amazon EC2 cluster
Map-Reduce
GPU Cluster
External Cluster
Synapse Web Service Tier (REST)
Authentication / Authorization
Data / Model / Tool Registry
Versioning
Structured Query
Compute Services
External Resources
dbGaP Data
NCBO Ontologies
Bioconductor Packages
GEO Data
Synapse Persistence Tier
Datasets
Metadata / Search Indices
Relational Database
Sage Curated / QC Data
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Workflow State / Analysis Results
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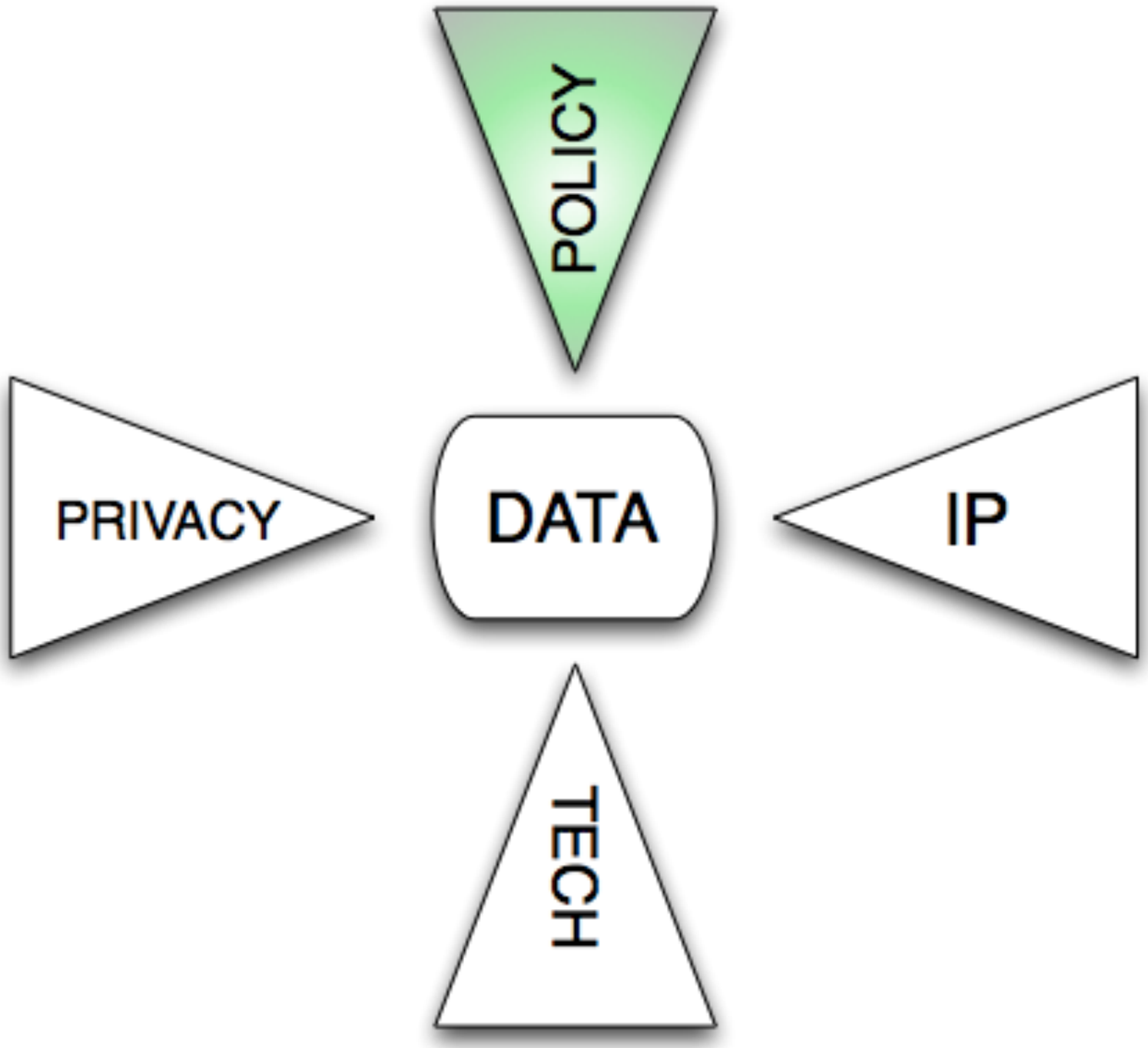
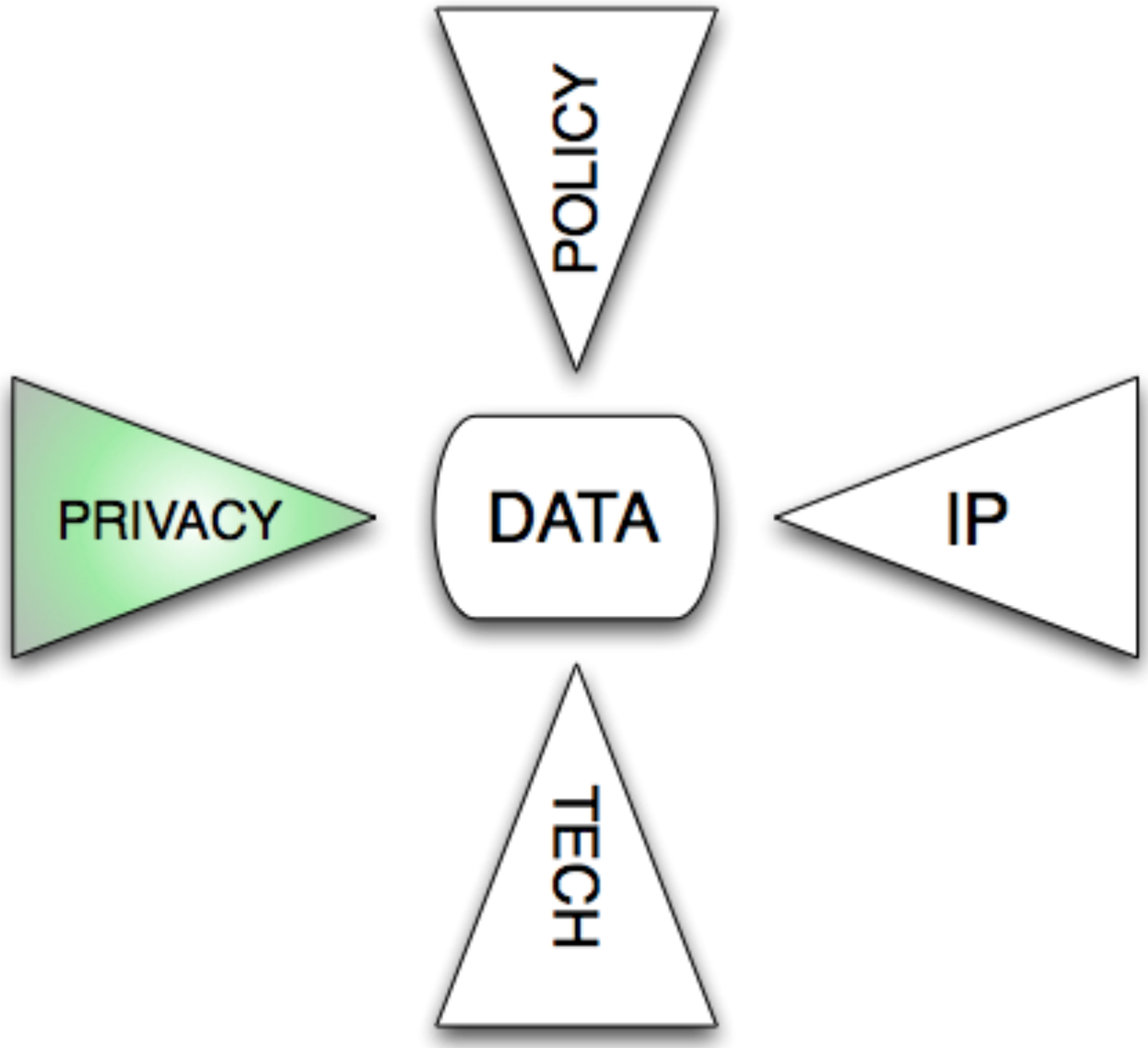
Cloud Provider
Models
Sage Networks
Triple Store
Cloud Provider
Algorithms
Sage Code
Versioning System
Cloud Provider


POLICY
PRIVACY
DATA
IP
TECH

open by default
safe harbors
estuary models
fund once, use many times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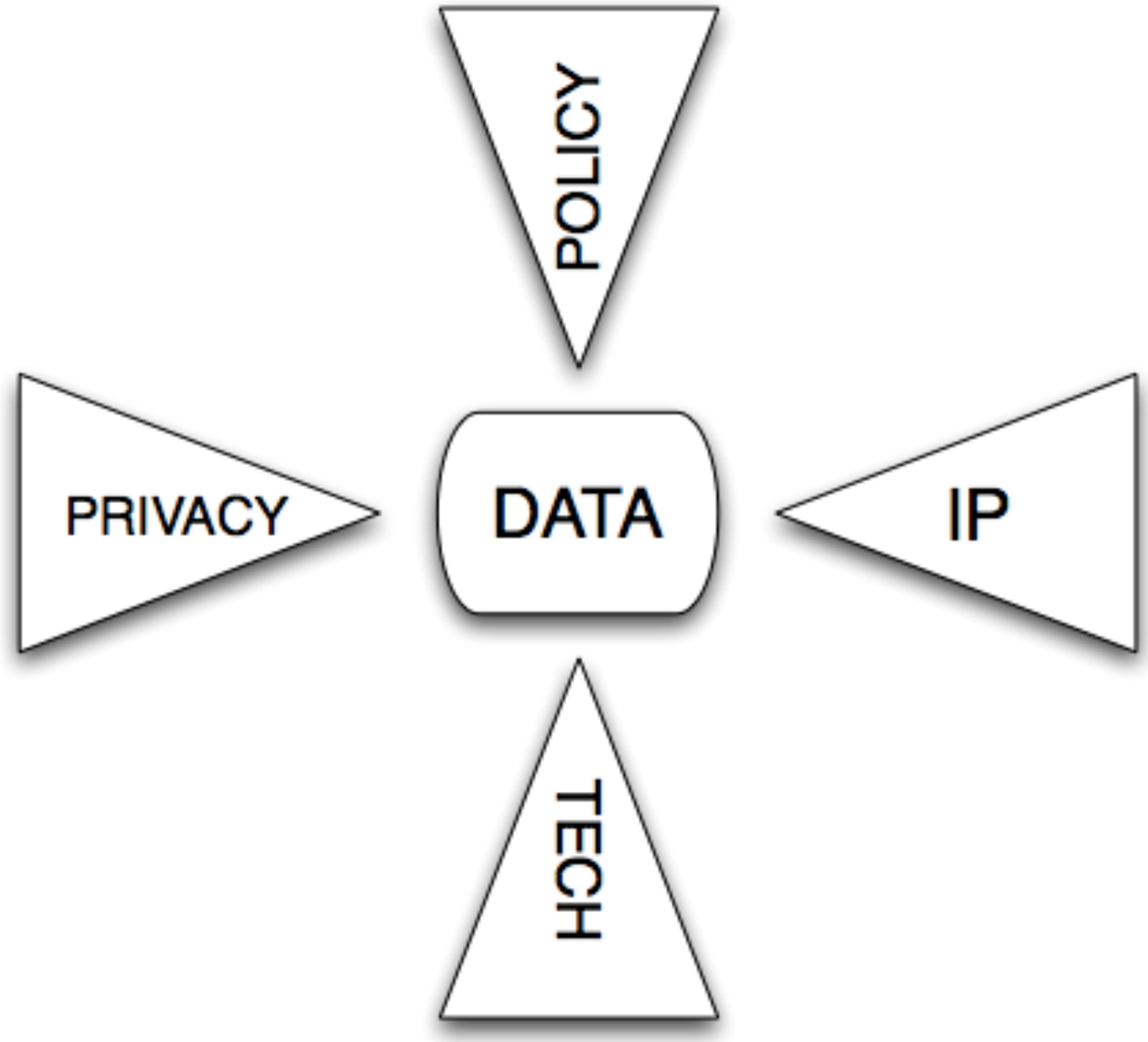
tension between anonymity and utility

ease of re-identification

changing norms of privacy



what tools and approaches increase the generativity of data?

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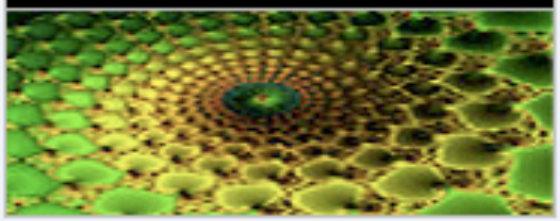

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NSF Data Sharing Policy

Investigators are expected to share with other researchers, at no more than incremental cost and within a reasonable time, the primary data, samples, physical collections and other supporting materials created or gathered in the course of work under NSF grants. Grantees are expected to encourage and facilitate such sharing. See Award & Administration Guide (AAG) Chapter VI.D.4.

NSF Data Management Plan Requirements

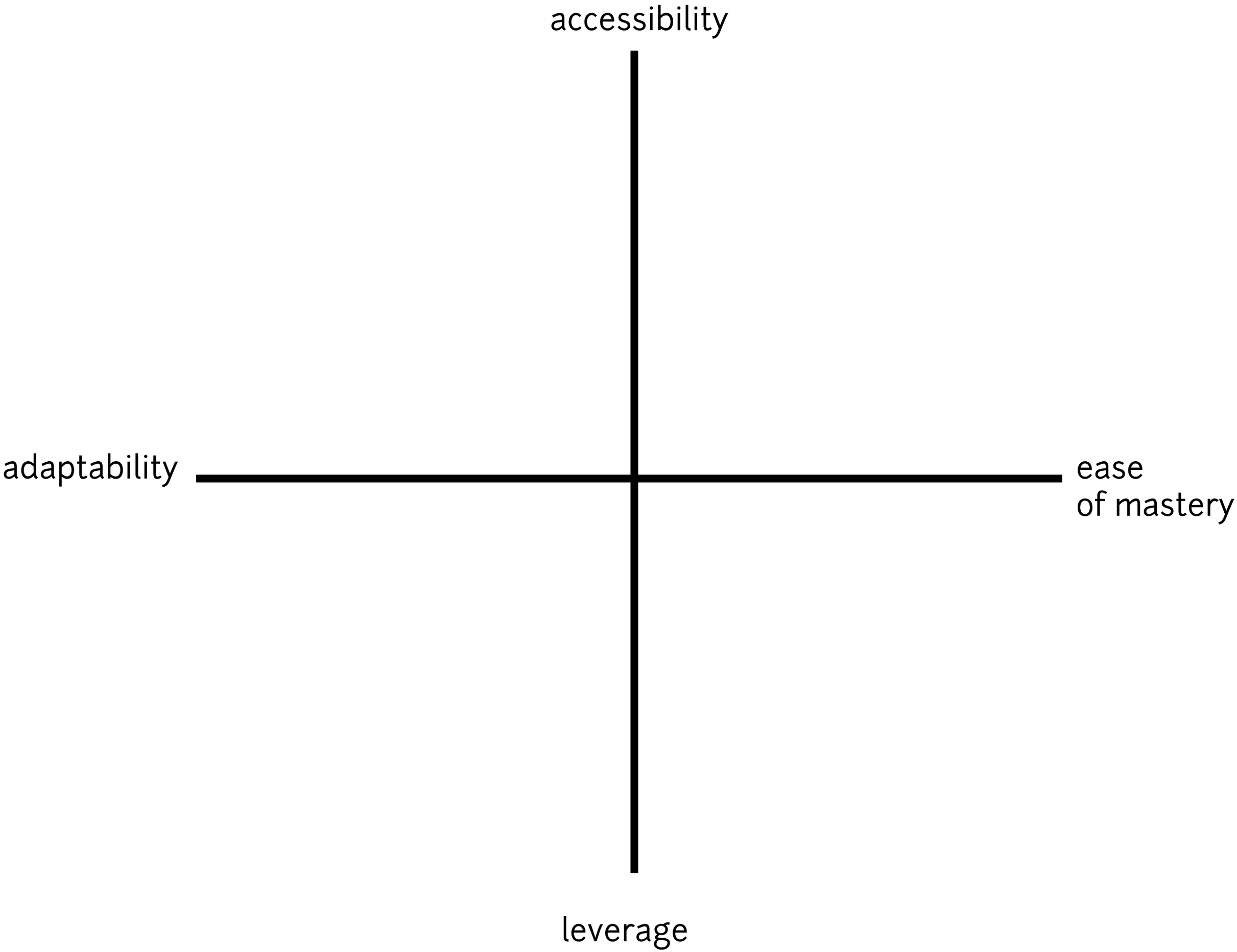
Proposals submitted or due on or after January 18, 2011, must include a supplementary document of no more than two pages labeled "Data Management Plan". This supplementary document should describe how the proposal will conform to NSF policy on the dissemination and sharing of research results. See Grant Proposal Guide (GPG) Chapter II.C.2.j for full policy implementation.

Requirements by Directorate, Office, Division, Program, or other NSF Unit

Links to data management requirements and plans relevant to specific Directorates, Offices, Divisions, Programs, or other NSF units, are provided below. If guidance specific to the program is not provided, then the requirements established in Grant Proposal

- No non-fuzzy understanding of why this is useful (“open data is good” is not enough) or of what interventions make open data more useful
- By more useful, we mean: more likely to result in unexpected repurposing of data

3. “scoring” generativity in open government data


accessibility
adaptability
ease
of mastery
leverage

observations

- Adaptability correlates to accessibility
  - Legal and technical (both formats and raw downloads) accessibility makes data sets more obvious targets for adaptation
  - Not necessarily causal – some data sets are poorly accessible, but so important, that they are good targets anyway
  - Data.gov sets a good example
  - Accessibility is necessary, but not sufficient, for adaptability
- Accessibility is perhaps the easiest switch to flip if data is not of immediate economic value

observations

- Adaptability correlates to leverage
  - Easier to do something unexpected if data is adaptable
  - Good annotations / metadata increase adaptability and leverage at the same time
  - Not necessarily causal
  - Domain expertise often needed to make leverage out of data, but is often not the domain expertise used to create the data or annotate it
  - Adaptability and accessibility necessary, but not sufficient, for leverage
- Adaptability is costly compared to accessibility due to need for human engagement in creation of metadata and annotation – and thus is more rare than accessibility.

observations

- Pursuit of ease of mastery can ignore other three
  - Focus on user experience assumes naïve user, often doesn't expose raw data or address licensing or annotations
  - "Accessibility" when converted to "accessible to the layman" doesn't count in generativity terms for acceess
  - Ease of mastery often focuses on obscuring the complexity of the data, which can correlate negatively to adaptability or leverage
- However, a focus on ease of mastery + accessibility may be the sweet spot – click here for laypeople and get UX, click here if a data scientist and get the raw data

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Western Wind Resources Dataset

This interface gives access to the 30,000+ sites that were modeled by 3TIER as part of the Western Wind and Solar Integration Study.

The data can be accessed in two ways:

- Use interactive map to zoom in and click on a turbine
- Choosing a Station ID from the metadata file and typing it into the form below

Enter Station Id:

go

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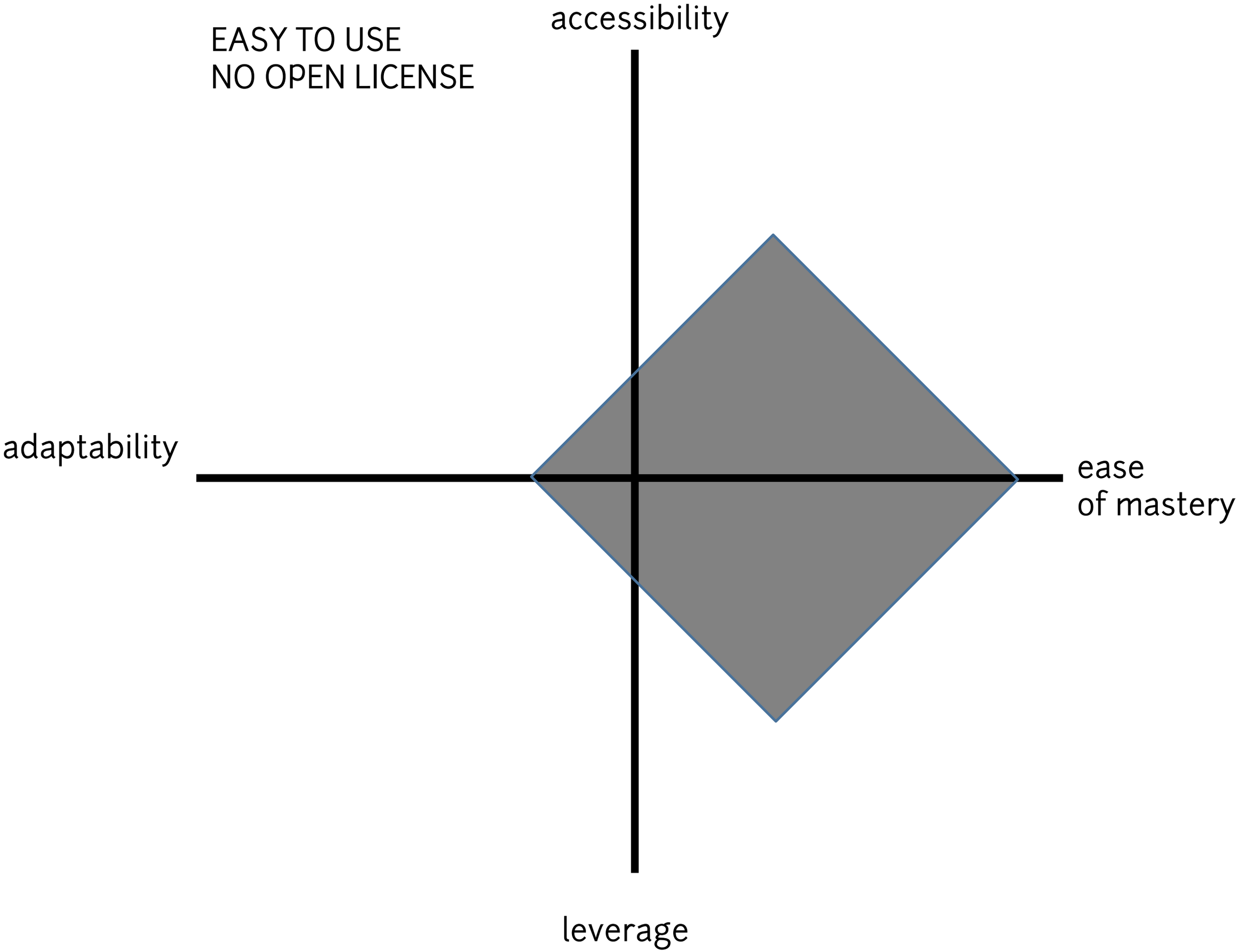


NREL/3TIER - Western Wind Resources Dataset

Each turbine icon represents a site consisting of ten 3 MW Vestas V90 turbines (for a total of 30 MW).

The 30,000+ sites were selected from over 1.2 million points based on pre-existing sites; transmission corridors and RE zones; load correlation and wind power density.

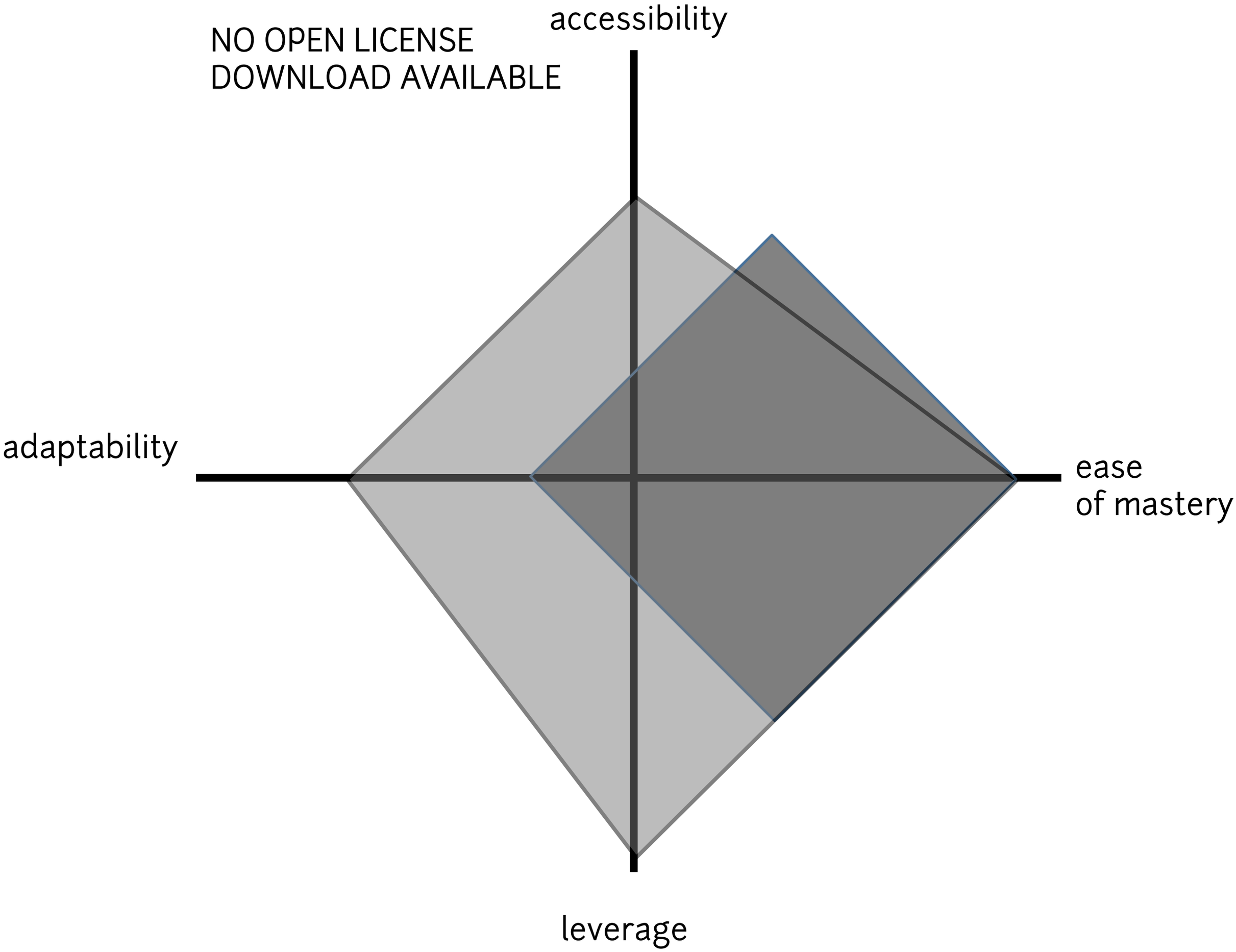
This data was modeled by 3TIER using the Weather Research & Forecasting (WRF) model to downscale the NCEP/NCAR reanalysis data.

Close

Paste Clear

A1 | SiteID

	A	B	C	D	E	F	G	H
1	SiteID	Latitude	Longitude	Power Dens	SCORE-lite C	Wind Speed	State Code	Model Elevation [
2	1	31.192	-102.242	413.925	30.823	7.741	TX	849.5
3	2	31.192	-102.225	419.46	31.227	7.798	TX	859.4
4	3	31.192	-102.208	429.712	32.042	7.911	TX	873.6
5	4	31.208	-102.258	385.712	29.985	7.668	TX	902.7
6	5	31.208	-102.242	375.495	29.305	7.609	TX	908.1
7	6	31.208	-102.225	378.675	29.539	7.655	TX	915.9
8	7	31.208	-102.208	383.684	30.01	7.723	TX	922.4
9	8	31.225	-102.242	447.048	34.466	8.145	TX	947.9
10	9	31.225	-102.225	441.857	34.324	8.146	TX	953.1
11	10	31.225	-102.208	437.837	34.109	8.131	TX	948.7
12	11	31.275	-104.542	425.601	30.468	7.738	TX	1344.4
13	12	31.275	-104.525	453.123	31.794	7.907	TX	1363.2
14	13	31.292	-104.525	440.34	30.684	7.797	TX	1361.8
15	14	31.292	-104.458	562.009	33.463	8.075	TX	1284.2
16	15	31.292	-104.442	540.765	32.127	7.926	TX	1277.7
17	16	31.308	-104.508	477.308	31.735	7.911	TX	1344.1
18	17	31.308	-104.492	524.97	33.154	8.06	TX	1320.3
19	18	31.308	-104.475	516.722	32.106	7.947	TX	1309.2
20	19	31.325	-104.525	455.937	30.635	7.843	TX	1370.5
21	20	31.325	-104.458	523.132	31.632	7.966	TX	1320.3
22	21	31.342	-104.542	423.342	28.901	7.676	TX	1398.2
23	22	31.342	-104.458	486.605	30.157	7.812	TX	1341
24	23	31.342	-104.375	455.77	28.751	7.574	TX	1330.3
25	24	31.342	-104.358	454.683	28.451	7.485	TX	1298.3
26	25	31.358	-104.508	482.053	30.973	7.905	TX	1390.7
27	26	31.358	-104.442	502.848	30.961	7.913	TX	1347.8
28	27	31.358	-104.425	479.688	30.067	7.805	TX	1353.6
29	28	31.358	-104.408	487.624	30.527	7.854	TX	1358.1
30	29	31.358	-104.392	459.859	29.323	7.674	TX	1349
31	30	31.358	-104.375	467.813	29.509	7.662	TX	1330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accessibility
adaptability
ease
of mastery
leverage

About the Weather Research & Forecasting Model

The Weather Research and Forecasting (WRF) Model is a next-generation mesoscale numerical weather prediction system designed to serve both operational forecasting and atmospheric research needs. It features multiple dynamical cores, a 3-dimensional variational (3DVAR) data assimilation system, and a software architecture allowing for computational parallelism and system extensibility. WRF is suitable for a broad spectrum of applications across scales ranging from meters to thousands of kilometers.

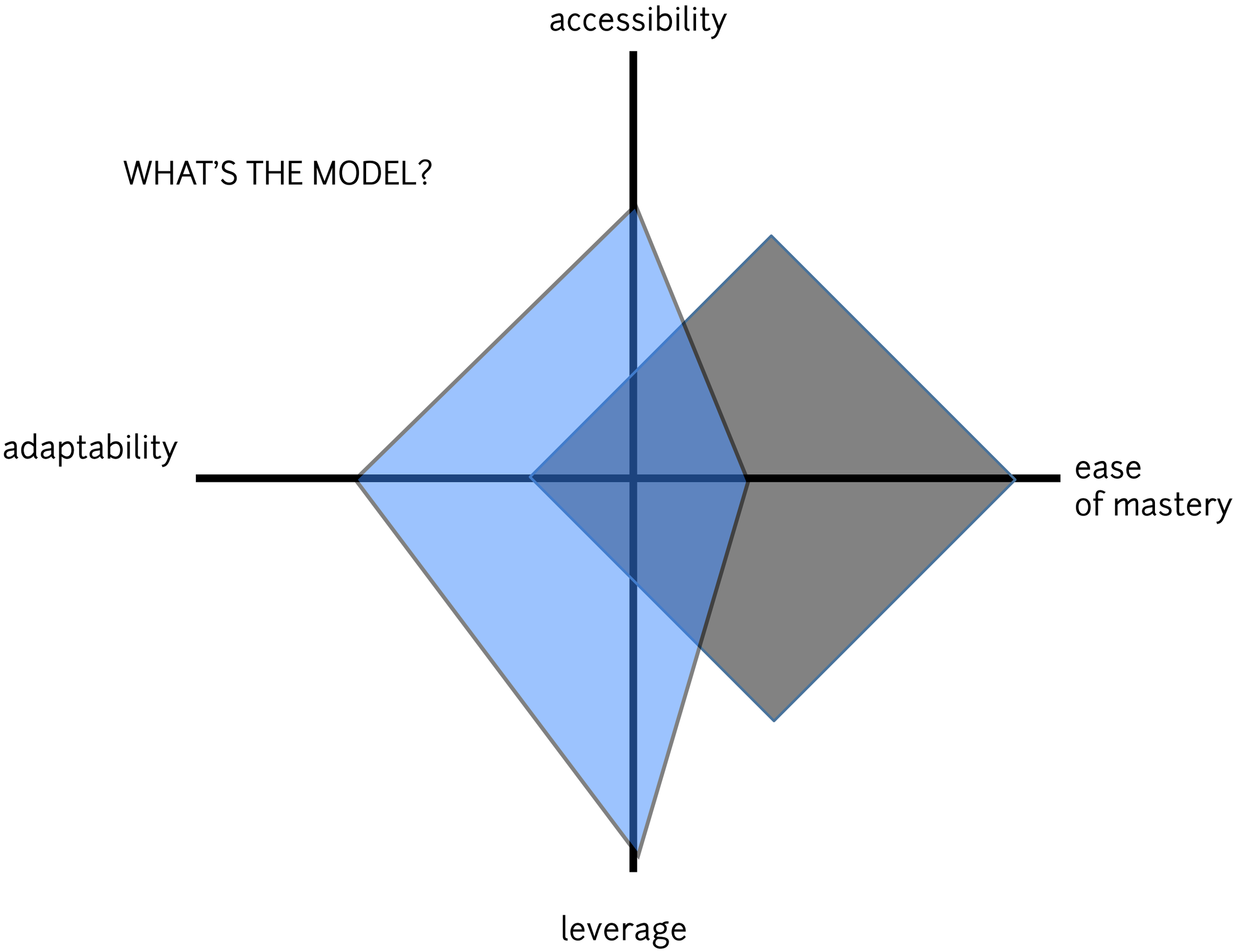
The effort to develop WRF has been a collaborative partnership, principally among the National Center for Atmospheric Research (NCAR), the National Oceanic and Atmospheric Administration (the National Centers for Environmental Prediction (NCEP) and the Forecast Systems Laboratory (FSL), the Air Force Weather Agency (AFWA), the Naval Research Laboratory, the University of Oklahoma, and the Federal Aviation Administration (FAA). WRF allows researchers the ability to conduct simulations reflecting either real data or idealized configurations. WRF provides operational forecasting a model that is flexible and efficient computationally, while offering the advances in physics, numerics, and data assimilation contributed by the research community.

This is modeled (not measured) wind data

Western US:

- 3TIER generates historical wind data by running a Numerical Weather Prediction Model using physical conservation equations that 'recreate the weather' for 2004-6.
- They sampled the weather at a 1 arc-minute (~2km) spatial and 10 minute temporal resolution, and at 5 hub heights (10, 20, 50, 100, 200m).
- Based on a limited number of actual tower measurements for that time period, they did a sophisticated adjustment of (MOS-corrected) the model so that the data more accurately reflects actual wind speed measurements.
- Validation reports comparing the model wind speed results to actual data will be produced by 3TIER when their modeling is complete.
- 3TIER used SCORE-lite to convert wind speed to power output, assuming a Vestas V90 3 MW turbine at 100m hub height. Each grid point can hold 10 turbines or a 30 MW wind plant. The SCORE-lite process applies a probability distribution function to the manufacturer's power curve to replicate actual wind farm output.
- 3TIER produced hourly forecasts for day-ahead wind power output for the 30,000 selected sites.

WHAT'S THE MODEL?



4. “private” investments in generativity in open government data

Home

TCGA Data Portal Overview

We provide 3 ways to download data: The Cancer Genome Atlas (TCGA) Data Portal provides a platform for researchers to search, download, and analyze data sets generated by TCGA. It contains clinical information, genomic characterization data, and high-throughput sequencing analysis of the tumor genomes.

The TCGA Data Portal does not host lower levels of sequence data. NCI's Cancer Genomics Hub (CGHub) is the new secure repository for storing, cataloging, and accessing BAM files and metadata for sequencing data. New users must still apply for authorized access through NCBI's Database of Genotypes and Phenotypes (dbGaP).

Download Data

Choose from three ways to download data

Available Cancer Types	# Cases Shipped by BCR	# Cases with Data*	Date Last Updated (mm/dd/yy)
Acute Myeloid Leukemia [LAML]	200	200	07/16/13
Adrenocortical carcinoma [ACC]	80	80	07/22/13

Announcements

06/13/2013 - DCC Software Released

The software release scheduled for today is complete and the TCGA Data Portal has been returned to normal operation. As part of this release, a new version of the TCGA Archive Validator has been provided and we strongly suggest that data submitting centers download and use this new version. The TCGA Archive Validator can be found on the TCGA Wiki here.

A complete list of the items addressed in this release can be found on the TCGA Wiki here and for those with JIRA access the tickets covered in this release can be found on the wiki here.

If you have any questions or concerns about this release, contact tcga-dcc-binf-l@list.nih.gov.

05/21/2013 - DCC Software Released

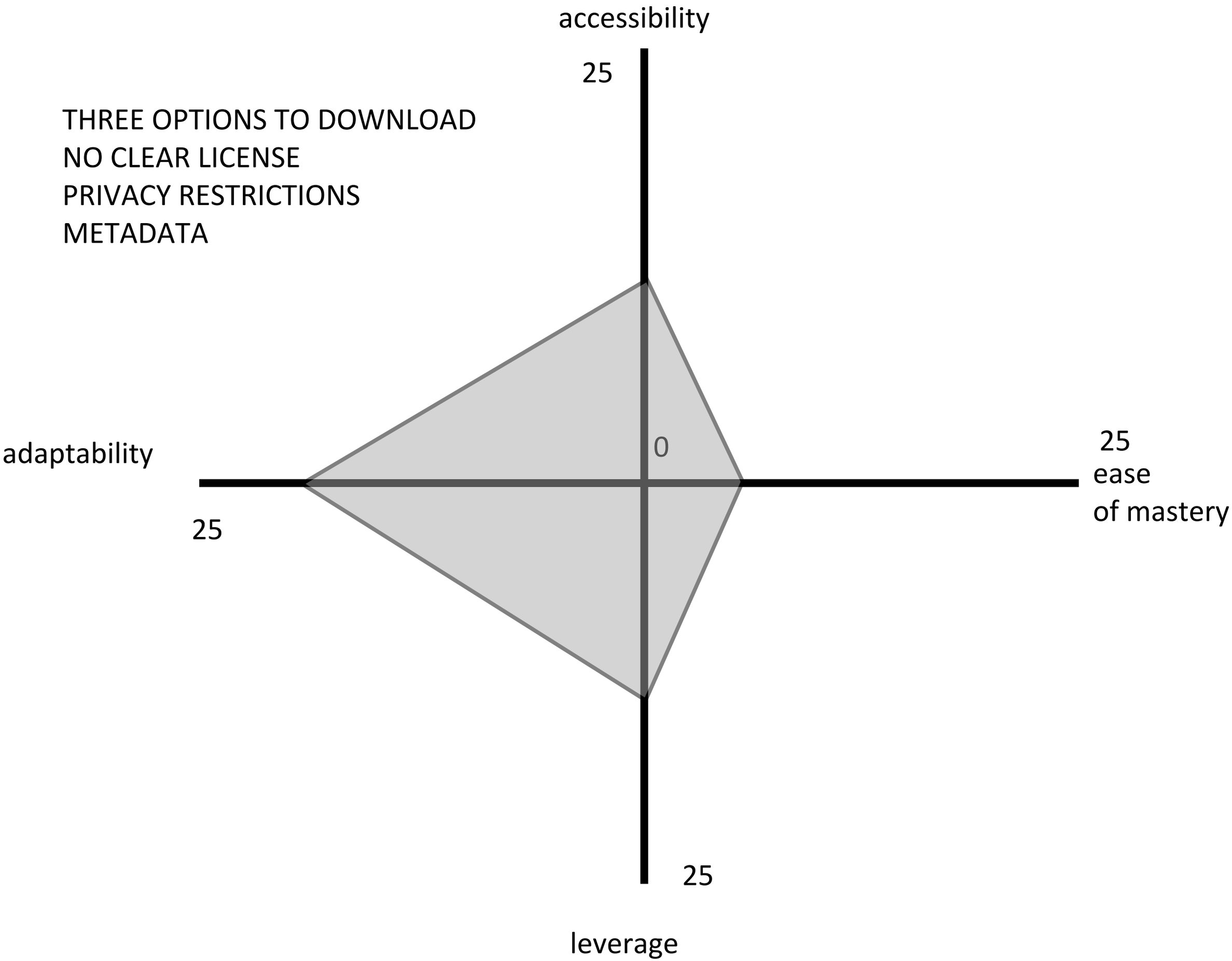
Download Data

The TCGA Data Portal does not host lower levels of sequence data. NCI's Cancer Genomics Hub (CGHub) is the new secure repository for storing, cataloging, and accessing BAM files and metadata for sequencing data. New users must still apply for authorized access through NCBI's Database of Genotypes and Phenotypes (dbGaP).

IMPORTANT: Data downloaders are urged to use the data annotation search interface (https://tcga-data.nci.nih.gov/annotations/) to query the case, sample, and aliquot identifiers in their download to obtain the latest information associated with their data.

We provide 3 ways to download data:

Method	What it offers	When to use it
Data Matrix	Select and download subsets of data by center, platform and data types. Includes: Level 1, 2 and 3 data Access the FAQ	Use when: ▪ You want to download data as tab-delimited text ▪ You only want a subset of the data
Bulk Download	A form that helps you locate files in the data archives. Includes: Level 1, 2, 3 and limited level 4 data	Use when: ▪ You want to download bulk datasets as provided by the research centers
Access HTTP Directories ▪ Open-access HTTP Directory ▪ Controlled-Access HTTP Directory	Direct access to the HTTP directories where the data archives are stored. Includes: Level 1, 2, 3 and limited level 4 data. Login is required for the Controlled-access HTTP Directory. See controlled-access requirements.	Use when: ▪ You know how to use HTTP directories and you prefer to find files yourself rather than use the Bulk Download form


accessibility
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THREE OPTIONS TO DOWNLOAD
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leverage

which patients have tumor and normal samples amidst a group of celfiles?

SCR TCGA

Added by Brig Mecham, last edited by Brig Mecham on Jun 11, 2012 (view change)

The Cancer Genome Atlas (TCGA) is an effort to generate and distribute high-throughput molecular data from more than 20 distinct cancers. For each cancer a variety of different molecular features are profiled for tens to hundreds of individual tumors. This data is a vital resource in the on-going fight against cancer.

Through the Synapse Commons Repository (SCR) we provide access to the unrestricted TCGA data **available through their data portal**. We have also standardized the clinical phenotypes to our Synapse Ontology, simplifying integrating these data with other cancer data contributed to the SCR.

Feedback

Please provide comm
below.

Crawling TCGA

The TCGA data is organized by cancer-type, platform or technology, and then batch. Our crawler creates a unique layer for each cancer-type, platform, and batch in Synapse. **Read this for more information.**

Standardizing Clinical Phenotypes

Read here for details on accessing clinical phenotype data: **Handling Clinical Phenotype Data**

SCR TCGA Clinical-Phenotypes

3 Added by Brig Mecham, last edited by Brig Mecham on May 04, 2012 (view change)

Introduction

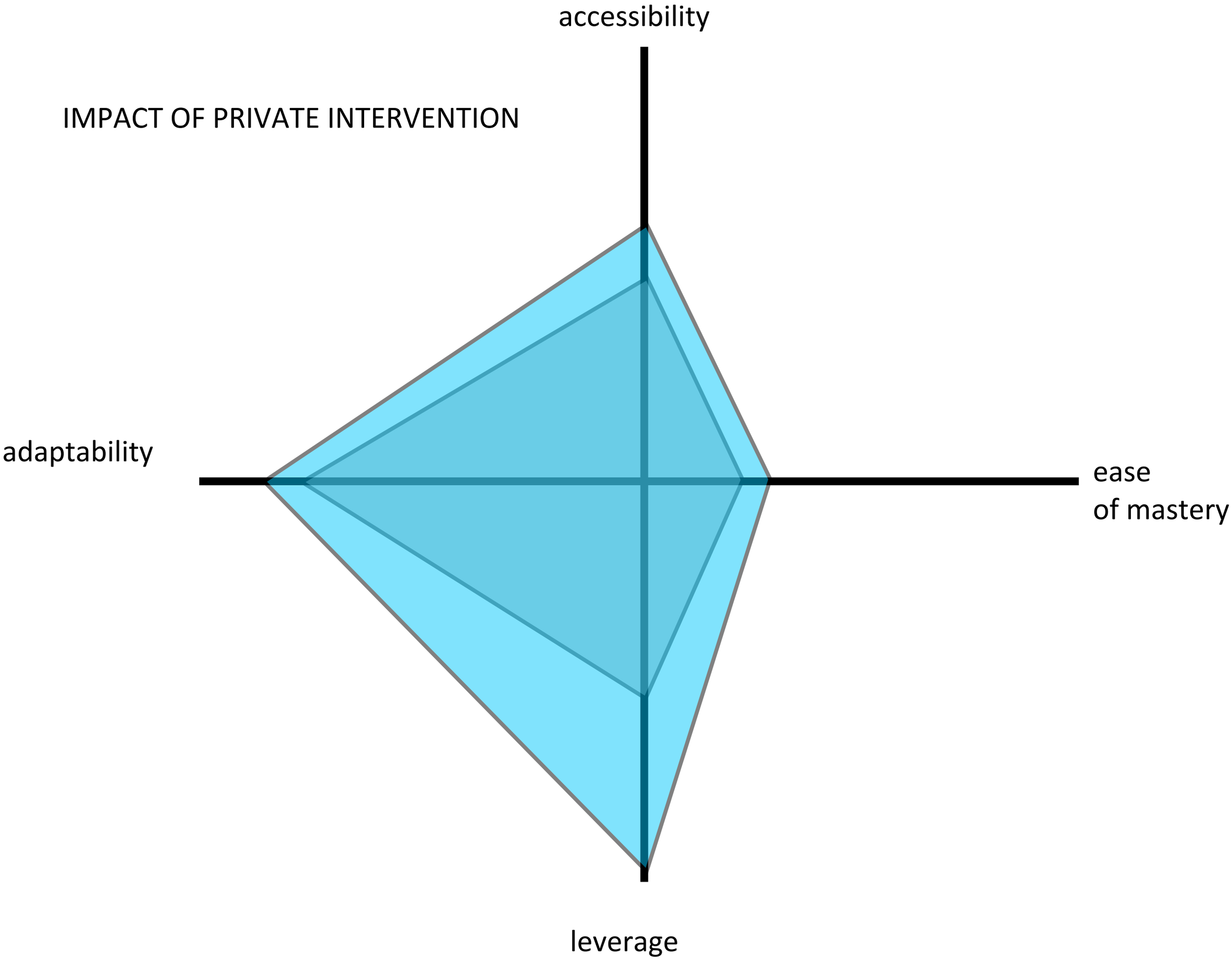
Our TCGA crawler simply builds layers for every file it finds on the TCGA ftp site. Each layers contain a location which allows users to work with the corresponding TCGA files through Synapse; for example, by using the getEntity or loadEntity commands in R. Before describing what we've done we'll briefly introduce the clinical information available from TCGA. First are the clinical files that contain information about the patients, their tumors, and the process used to generate data from any aliquot of biological material assayed by TCGA. Linking aliquots of genomic material to a specific data file is accomplished by merging the MAGE-tab files. Each technology used to process data from a given cancer has one or many MAGE-tab files. By merging these files we can get information about which patients DNA sample was hybridized to which Affy SNP 6.0 CEL file, as well the corresponding clinical variables about the patient (e.g. age, gender, stage), and some understanding of the experimental process used to generate the data (e.g. batches, collection centers, etc). Here we demonstrate how to access this information through the rSCR R library.

handleTcgaClinical()

We developed an R function to merge all the information from a given cancer type into a single file. The following R command demonstrates how to use the R Synapse Client to download the clinical layers from Rectal Adenocarcinoma (READ) cancer.

```
> library(rSCR)
> ent <- loadEntity('syn220876')
```

IMPACT OF PRIVATE INTERVENTION



The White House

Office of the Press Secretary

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For Immediate Release May 09, 2013

Executive Order -- Making Open and Machine Readable the New Default for Government Information

EXECUTIVE ORDER

- - - - - - -

MAKING OPEN AND MACHINE READABLE THE NEW DEFAULT
FOR GOVERNMENT INFORMATION

By the authority vested in me as President by the Constitution and the laws of the United States of America, it is hereby ordered as follows:

open as in philosophy or
open as in methodology?

lots of implicit assumptions about data, scale, openness, value(s), justice, law, innovation.

free as in speech or free as in beer?

Paul McCartn
Play Fenway
Resume
T Stop
D-4
Pro

Estimated Yearly Costs of Pet Ownership

Stephen Zawistowski, Ph.D., Sr. VP Animal Sciences, ASPCA

Costs	Notes	Small Dog	Medium Dog	Large Dog	Cat	Rabbit	Guinea Pig	Small Mammal
Annual Costs								
Food	1	$150.00	$250.00	$350.00	$120.00	$110.00	$75.00	$50.00
Medical	2	$150.00	$175.00	$200.00	$150.00	$125.00	$50.00	
Litter	3				$150.00	$400.00	$400.00	$220.00
Toys/Treats		$50.00	$60.00	$70.00	$50.00	$25.00	$25.00	$10.00
License		$15.00	$15.00	$15.00				
Misc.		$35.00	$45.00	$65.00	$30.00	$15.00	$15.00	$15.00
Annual Total		$400.00	$545.00	$700.00	$500.00	$675.00	$565.00	$295.00
Capital Costs								
Spay/neuter		$75.00	$100.00	$125.00	$75.00	$75.00		
Collar/Leash		$25.00	$30.00	$35.00	$10.00			
Litter box					$25.00	$25.00		
Cage						$80.00	$80.00	$35.00
Carrier		$30.00	$50.00	$80.00	$30.00	$30.00		
Crate		$50.00	$90.00	$160.00				
Aquarium eqpt.	4							
Capital Total		$180.00	$270.00	$400.00	$140.00	$210.00	$80.00	$35.00
Special Costs								
Long Hair Groom		$200.00	$300.00	$400.00				

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