

Vertical toolbar with icons for selection, text, shapes, and drawing tools.





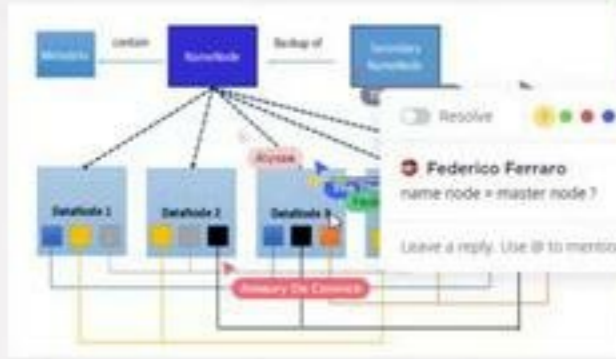
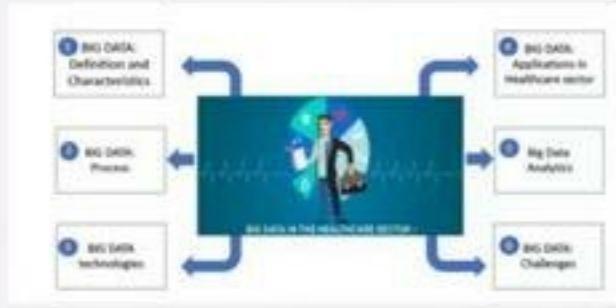
	Data	Meaning
Value		A rigorous use of Big Data Analytics techniques and technologies can extract additional values, like customer behavior, business performance, sustainability and target customer.
Velocity		The speed of data generation.
Veracity or Verification		The trustworthiness and consistency in data as well as quality of data sources are required for accurate analysis and good decision-making.
Variability		From the same data, several interpretations can be found.
Validity		The trustworthiness of data related to a specific application.
Vicinity		This feature is related to velocity. It characterizes the latency in data transfer between the data source and destination.
Viability		It refers to the validity and storage duration of data.
Visualization		The use of effective visualization tools to present key information and to facilitate the extraction of valuable insights from large amounts of data.
Viability		The measure of how data is diffused to other users and applications.
Value		The consequences of data.



miro free P.M. DI and FL

of effective visualization tools to present key insights and to facilitate the extraction of valuable insights from large amounts of data.

Visibility	The measure of how data is diffused in other users and applications.
Value	The consequences of data.



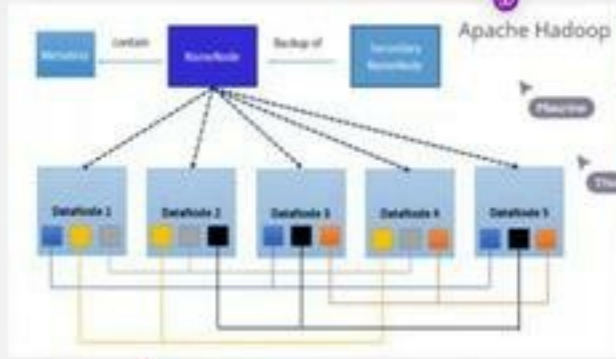
miro toolbar: selection, text, shape, image, eraser, lasso, zoom, pan, copy, paste, undo, redo, delete, link, unlink, share, print, download, zoom in, zoom out, reset zoom, help.

miro toolbar: undo, redo, copy, paste, delete, link, unlink, share, print, download, zoom in, zoom out, reset zoom, help.

miro free PM, DI and FL

of effective visualization tools to present key insights and to facilitate the extraction of valuable insights from large amounts of data.

Visibility	The measure of how data is diffused in other users and applications.
Value	The usefulness of data.



Miro toolbar with icons for undo, redo, copy, paste, and other editing functions.

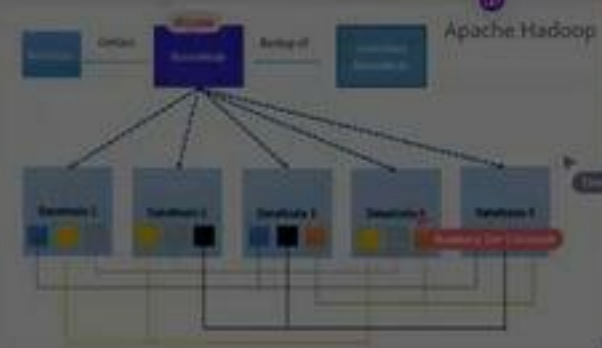
Visibility	The amount of how data is utilized in other users and applications.
Values	The representation of data.



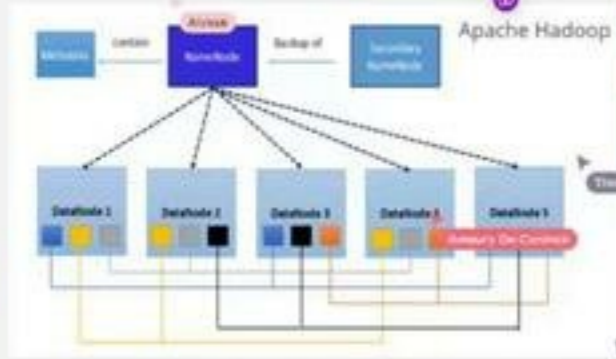
Value = something that can be quantified

Example: value of a product

Example: value of a company



Verbiy	The measure of how data is diffused to other users and applications.
Value	The contribution of data.



Value = something that can be quantified

Know what can be expected from data

Which needs what? Cost? Time?



Thomas Dierck

File Size

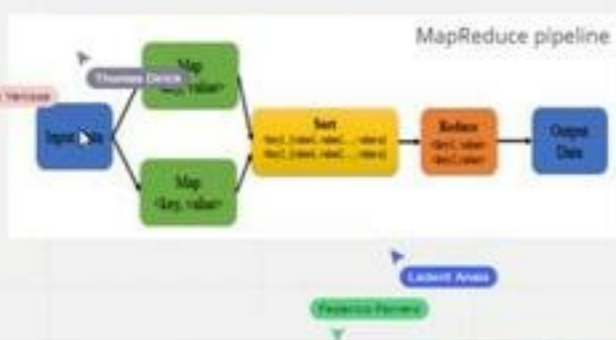
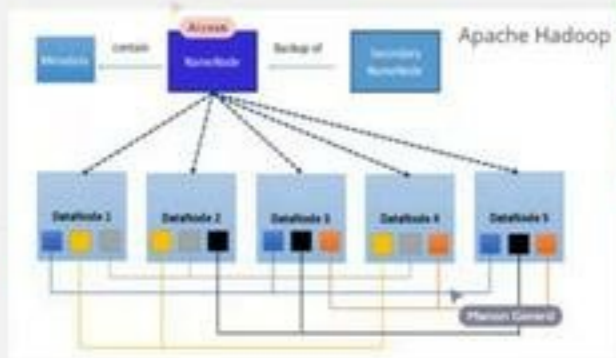
Challenge: Dataflow

Human Contact

Julian Strunk



Dylan Phraswell



Value = something that can be quantified

Know what can be expected from data

Some things can't be measured / seen

Data Problem

How to store, process, analyze, and visualize large volumes of data?

How to access and retrieve data quickly and efficiently?

Challenge

Primary Data Collection

Automated

The Data

Process

Location Area

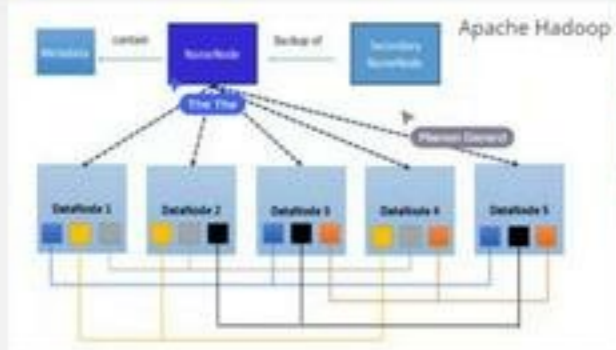
Customer Database



Value = something that can be quantified

Know what can be expected from data

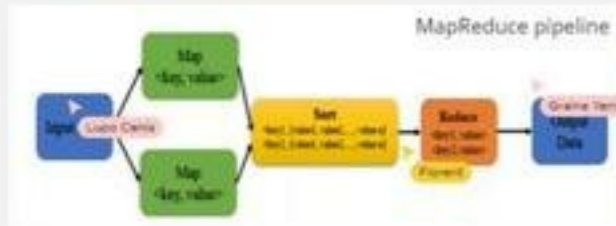
Apache Hadoop



Value of something that can be quantified

Know what can be expected from data

Apache Hadoop



MapReduce pipeline

Input

Map

Reduce

Output





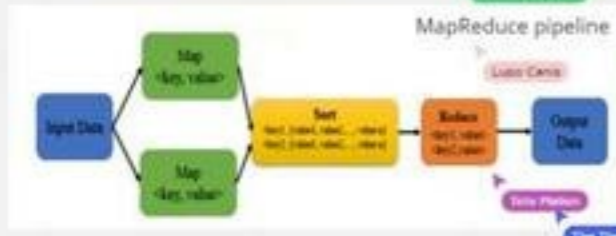
Value = something that can be quantified

Know what can be expected from data



Value of something that can be quantified

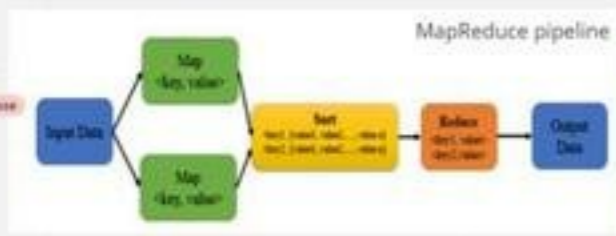
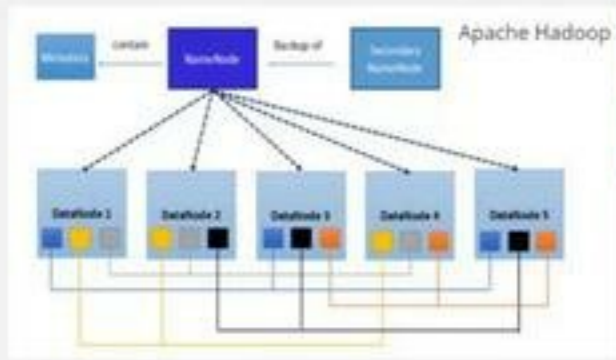
Know what can be expected from data



Value of something that can be quantified

Know what can be expected from data





Big Data Analytics
Big Data Technologies
Big Data Challenges

Value = something that can be quantified
Know what can be expected from data

Click Rewrite (or use Ctrl+R) and let Wordium work its magic!

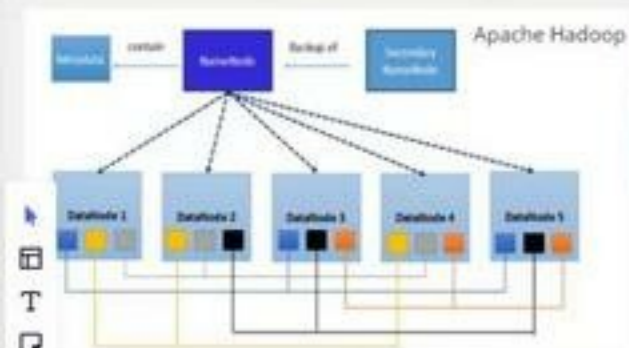


i didn't understand if t



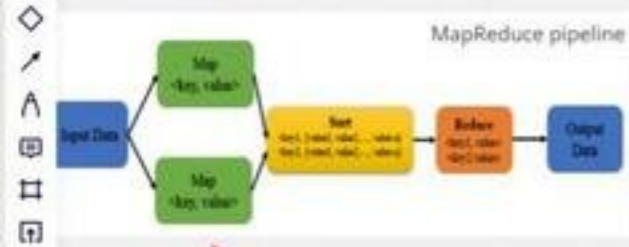
Value = something that can be quantified

Know what can be expected from data



Master job scheduling, resource management, file system metadata

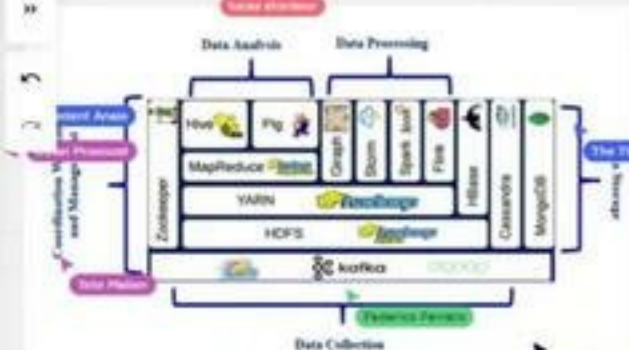
Slave: Processing, Data Storage



MapReduce pipeline



Click Rewrite ↵ (or use Ctrl+R) and let Wordium work its magic!



Input Data

Output Data

MapReduce

YARN

HDFS

Kafka

Flume

Hive

HBase

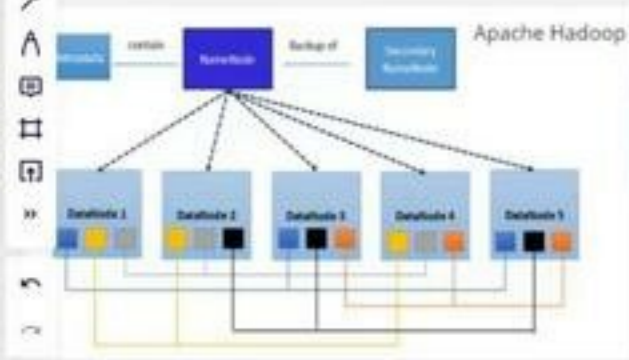
Cassandra

MongoDB



Value = something that can be quantified

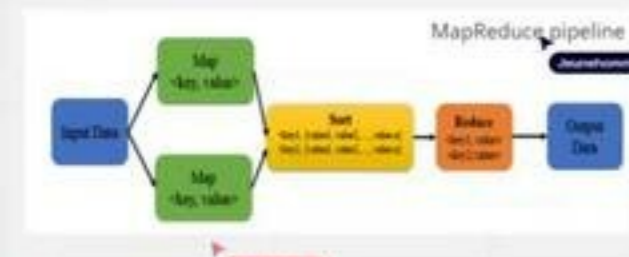
Known what can be extracted from data



Value = something that can be quantified

Known what can be extracted from data

Click Rewrite ↵ (or use Ctrl+R) and let WordWrap work its magic!

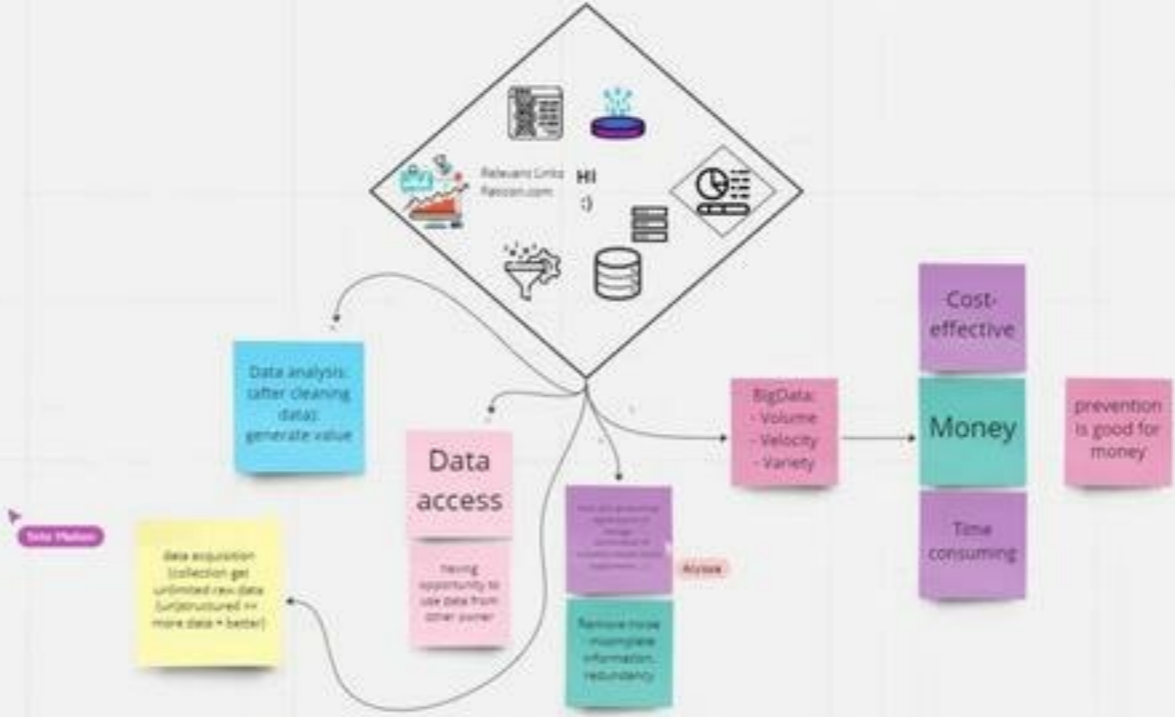


Vs of Big Data	Meaning
Value	A rigorous use of Big Data Analytics techniques and technologies can extract substantial values, like customer behavior, business performance, rentability and target customer.
Velocity	The speed of data generation.
Veracity or Verification	The trustworthiness and consistency in data as well as quality of data sources are required for accurate analyses and good decision-making.
Variability	From the same data, several interpretations can be found.
Validity	The trustworthiness of data related to a specific application.
Viscosity	This feature is related to velocity. It characterizes the latency in data transfer between the data source and destination.
Volatility	It refers to the validity and storage duration of data.
Visualization	The use of effective visualization tools to present key information and to facilitate the extraction of valuable insights from large amounts of data.
Virility	The measure of how data is diffused to other users and applications.
Valence	The connectedness of data.

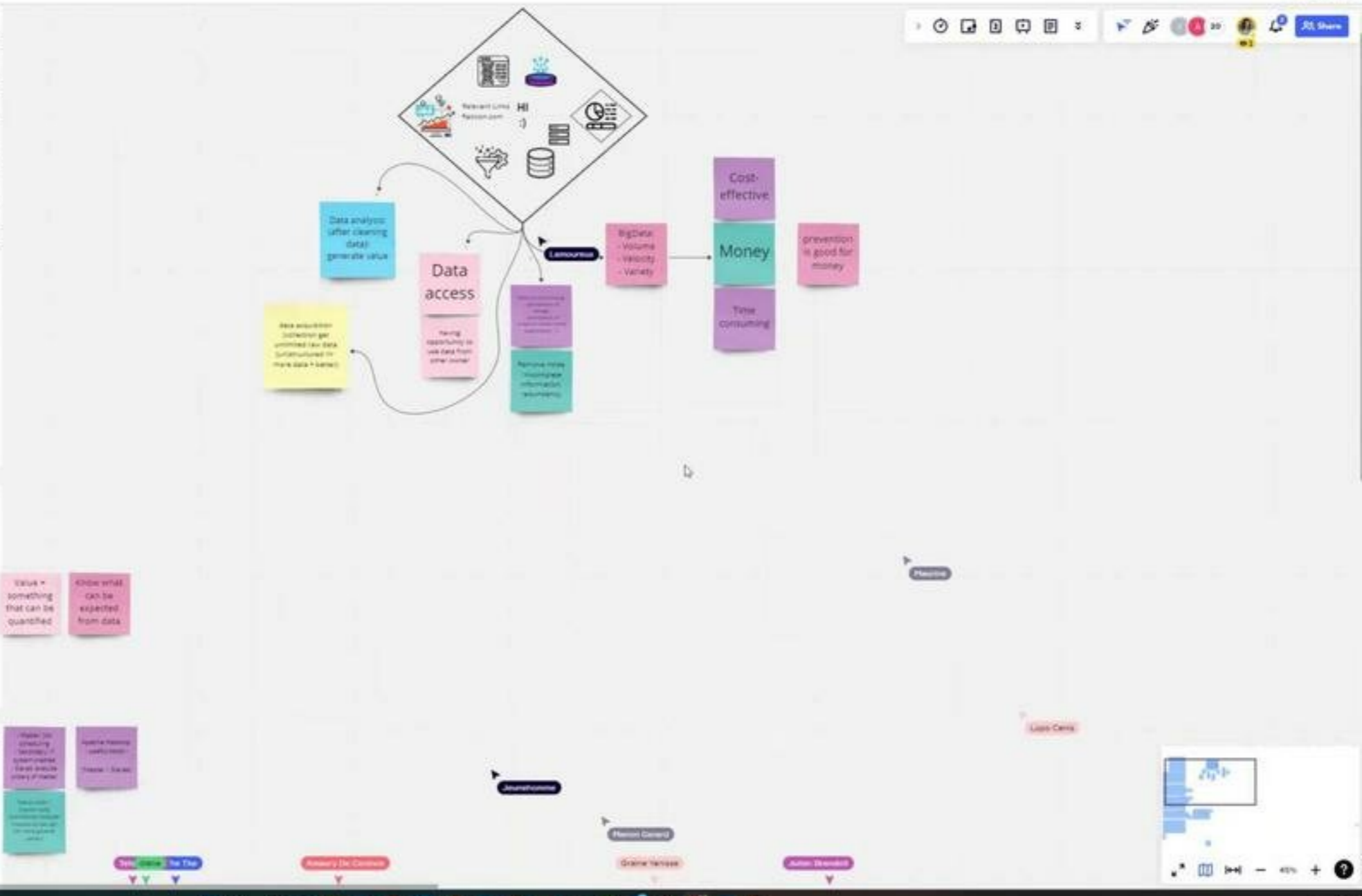
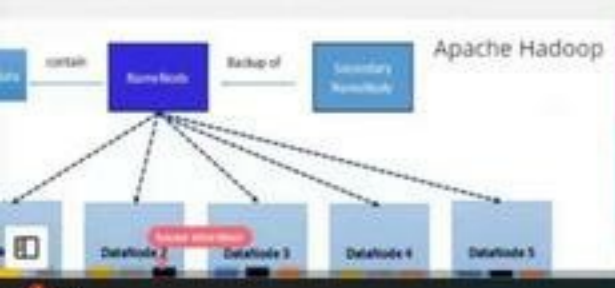


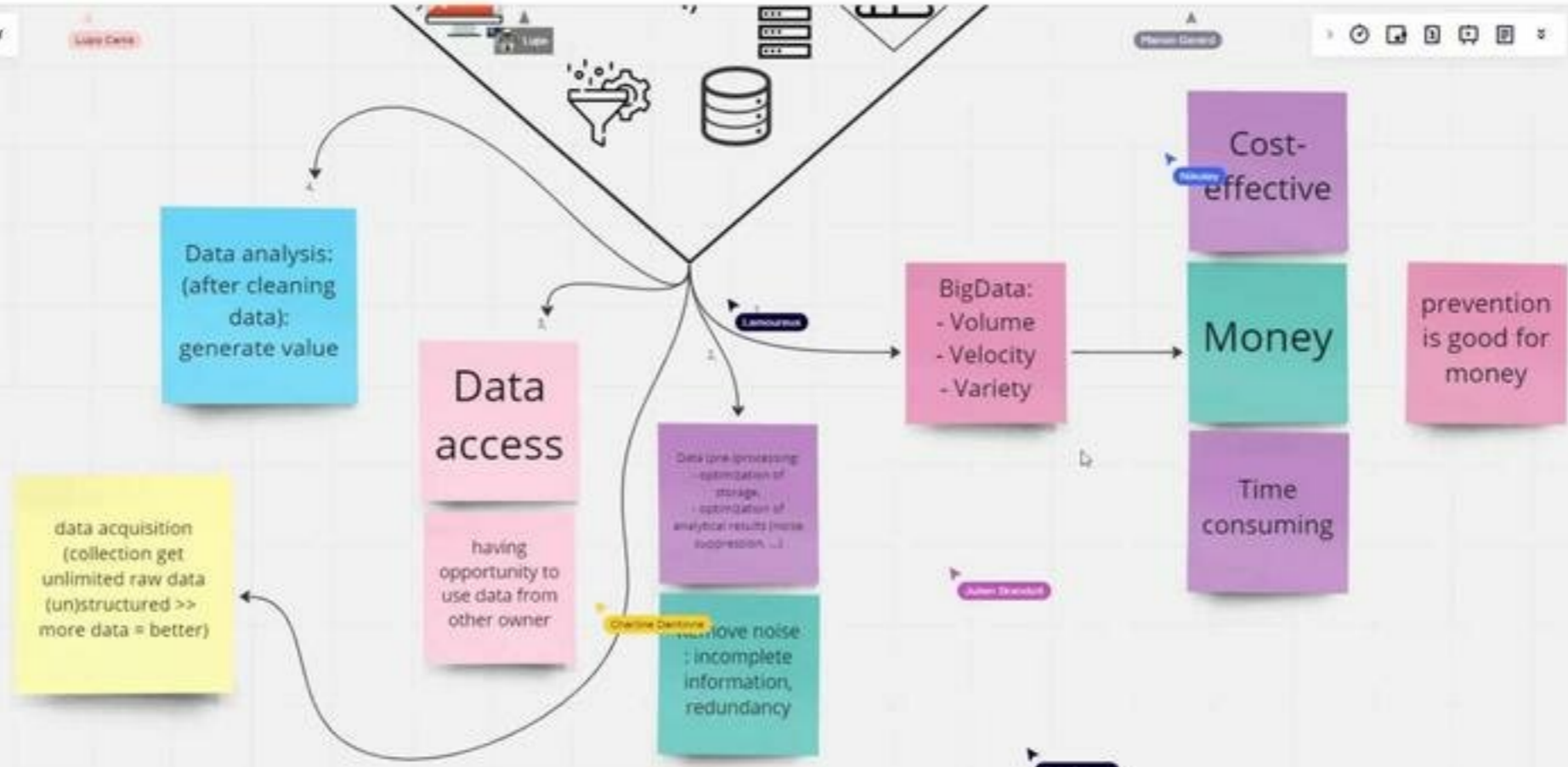
Value = something that can be quantified

Know what can be expected from data



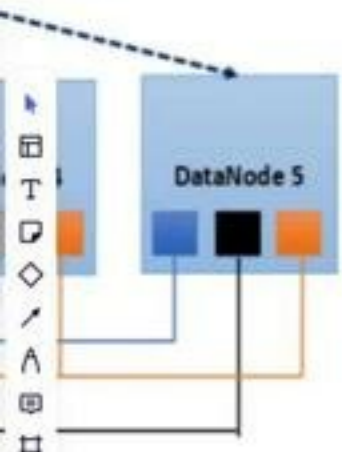
Characteristic	Definition
Veracity or Verification	The trustworthiness and consistency in data as well as quality of data sources are required for accurate analyses and good decision-making.
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Visualization	The use of effective visualization tools to present key information and to facilitate the extraction of valuable insights from large amounts of data.
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Value	The connectiveness of data.



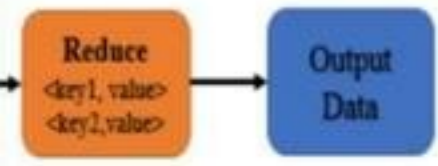


Apache Hadoop

- Master: job scheduling
 - Secondary: if system crashes
 - Slaves: execute orders of master
- Apache Hadoop : useful tools !
(Master / Slaves)
- Name node = master node
(sometimes multiple masters so we opt for more general name)

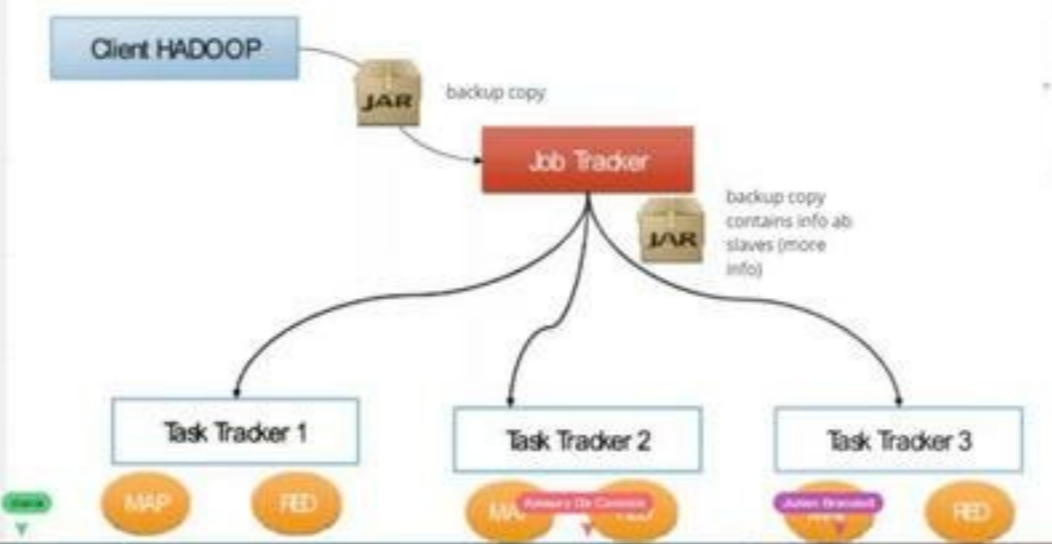


MapReduce pipeline



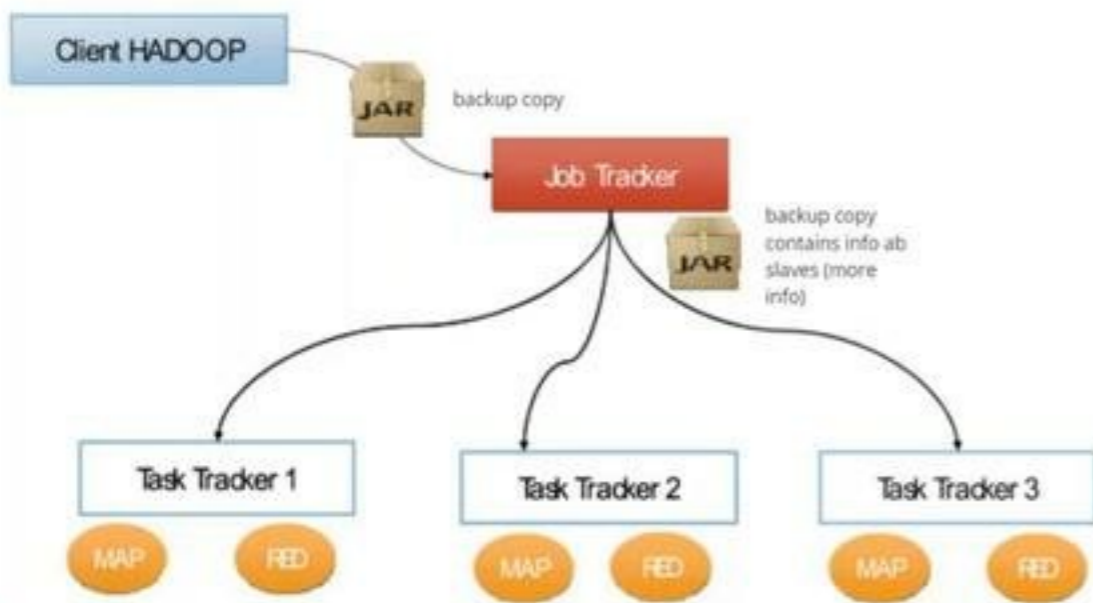
- Function that transform input data to sorted reduced key-value maps output data
- reduction step : putting together multiple correlated values.

Evolution of MapReduce master-slave architecture



Everything is stored in the same place (JAR) so the secondary node and metadata are

Evolution of MapReduce master-slave architecture



Everything is stored in the same place (HDFS) so the secondary node and metadata are mixed together in that OS database storage system.

The master node here is called job tracker. It checks for the distribution and supervises the execution.

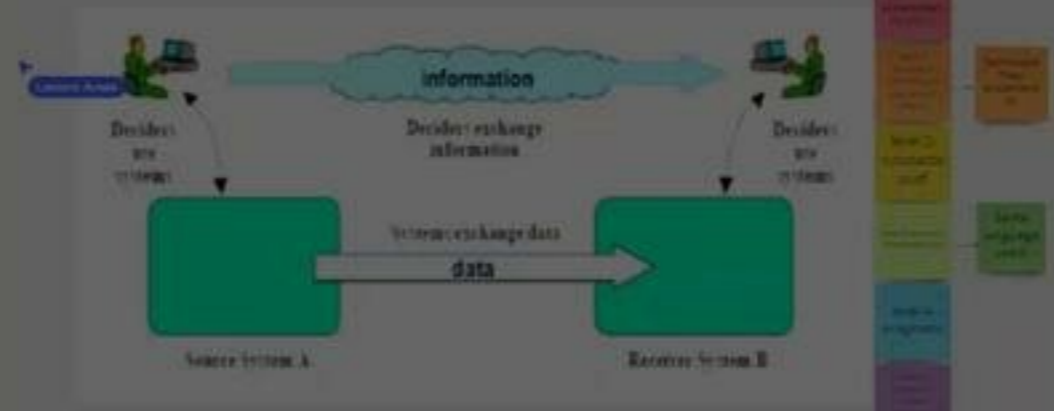
Python as the IT'S TRUE

Open Hadoop

Assembly On Command

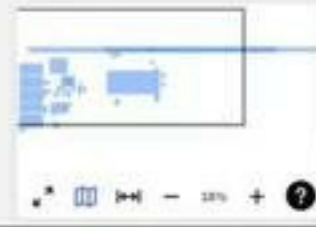
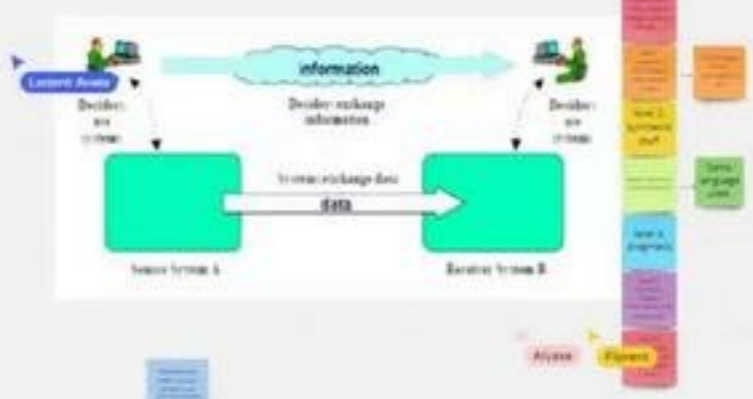
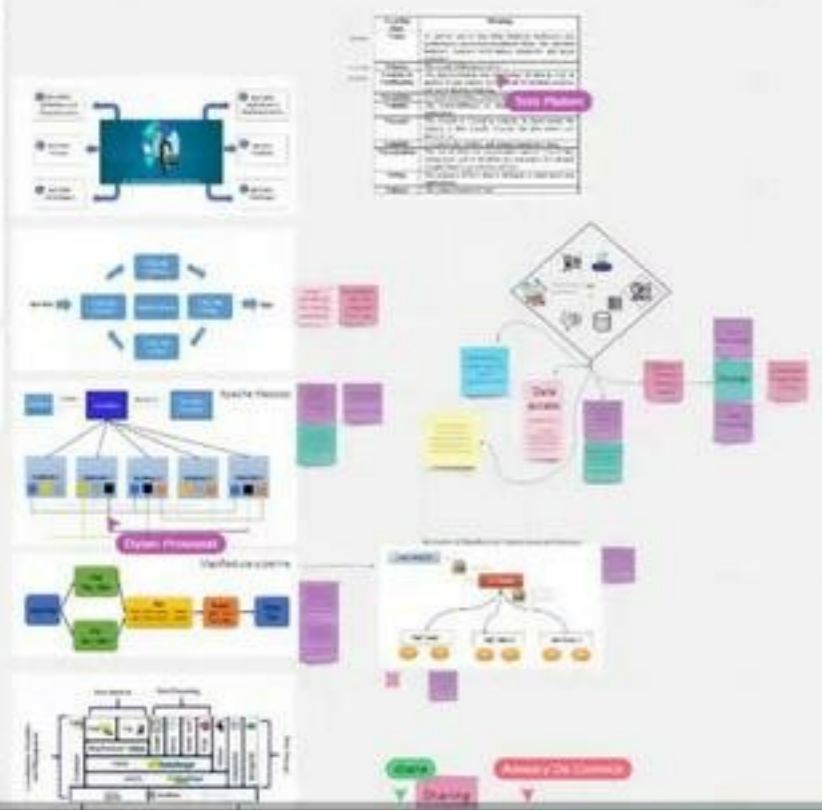


INTEROPERABILITY

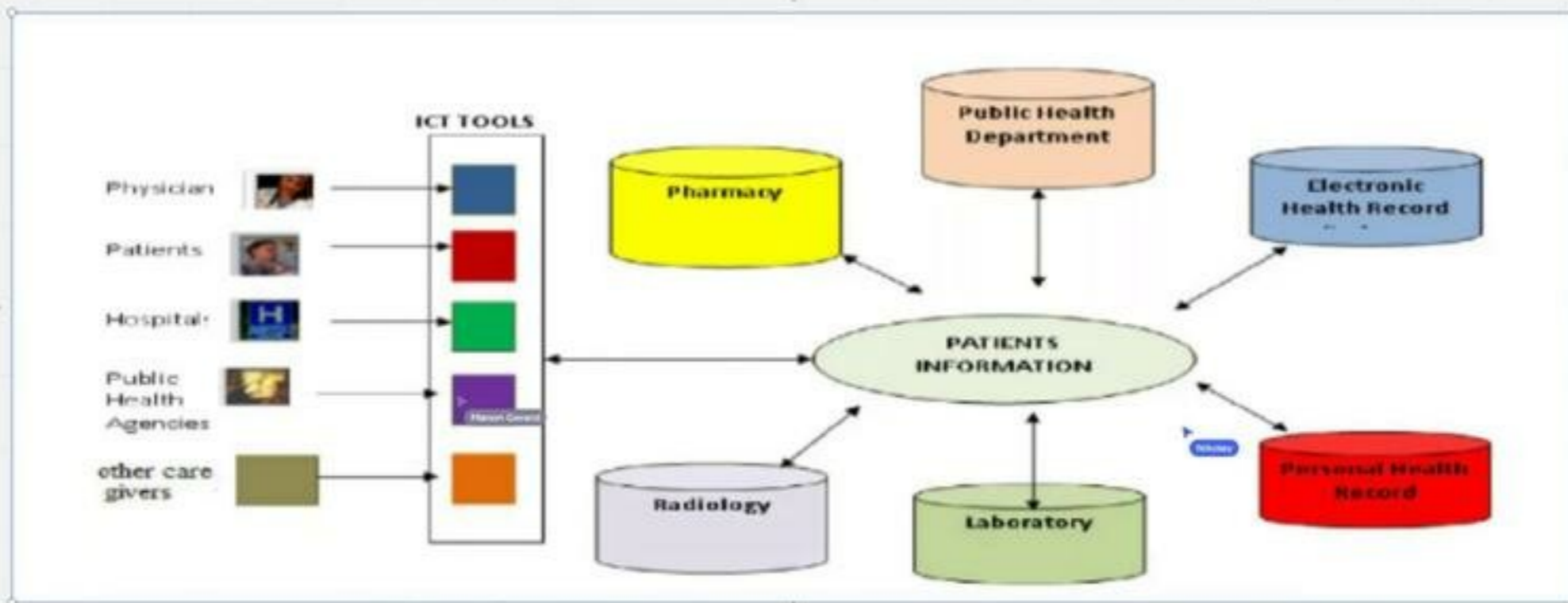


DATA

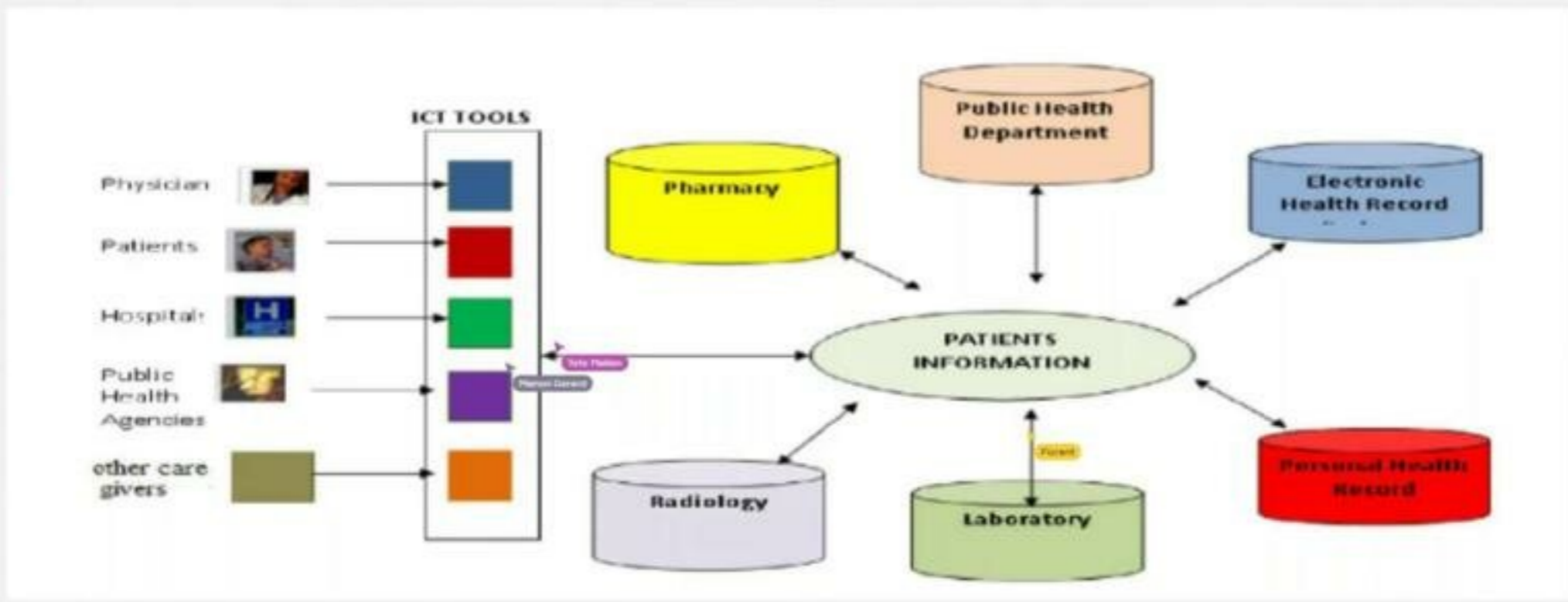
INTEROPERABILITY

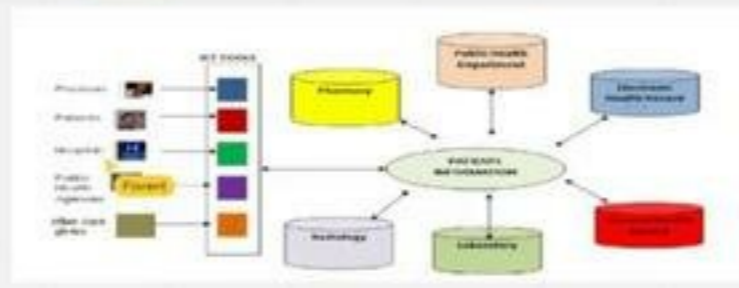


Metadata is as useful as data, without it, we can't know what we are looking at



Download





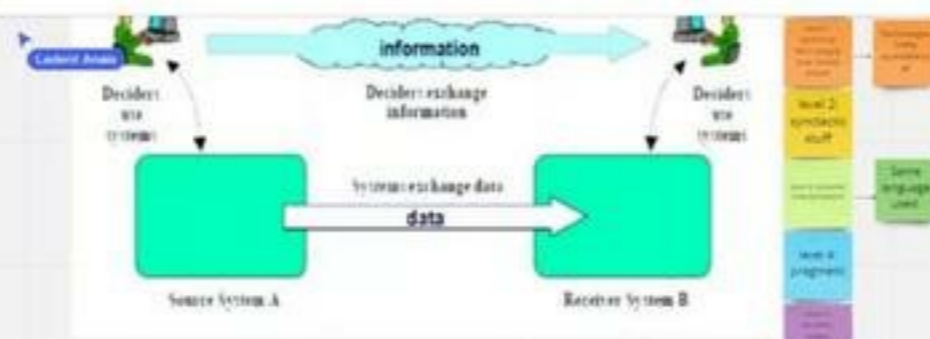
Is there international interoperability?

SecureHome

Data Platform

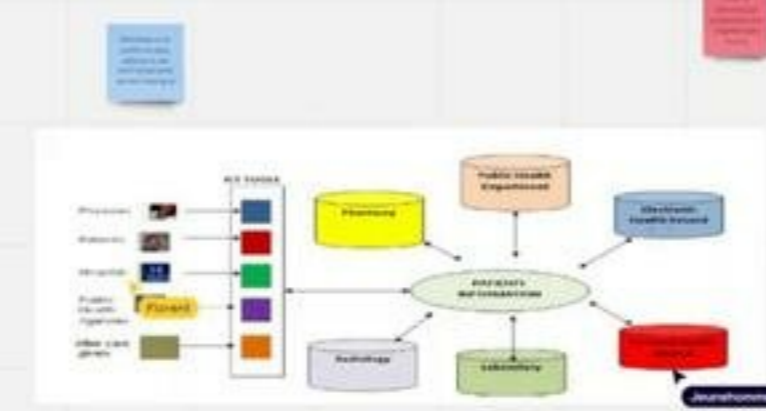
Online Version





- Level 1: Information
- Level 2: Knowledge
- Level 3: Wisdom
- Level 4: Experience
- Level 5: Expertise

A vertical toolbar on the left side of the Miro board, containing various drawing and editing tools such as a selection tool, text tool, eraser, and shape tools.



THANK YOU





NO GRANDE TITULO
POUR AGIR EN
FAVORABLEMENT
PERSONNE
PERSONNE
PERSONNE
PERSONNE
PERSONNE

Personne Generale

← Anthony's Chat Channel

← Chat

miro

You can copy and paste text and images from Miro to other apps. [Learn more](#)



FEDERATED LEARNING



Text toolbar: font size 14, bold, italic, underline, link, text color, background color, eraser, lasso, highlight, lock, zoom

- miro toolbar icons: pan, lasso, highlight, eraser, text, image, link, lock, zoom

Technology that connects to it

Same language used

pragmatic

web 3 systems, decentralization, consensus

web 3 systems, consensus and digital assets

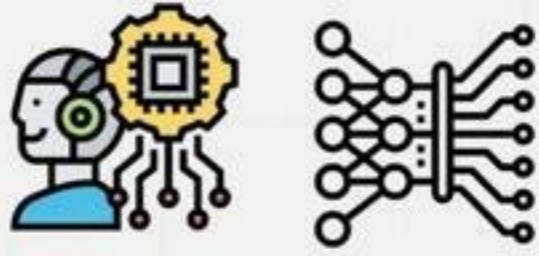
Each client holds its own data and is trained to improve them

Through the training, updates are shared with other data

Interactions between clients to share & improve learning

Decentralized

FEDERATED LEARNING



FEDERATED LEARNING is there to train models, and to enhance data sharing and resolve trust issues among parties we set in place hashing security protocols instead of encryption.

Field where models are created and can be tested to improve them

Purpose: the machine created is able to fulfil tasks thanks to encoded data.

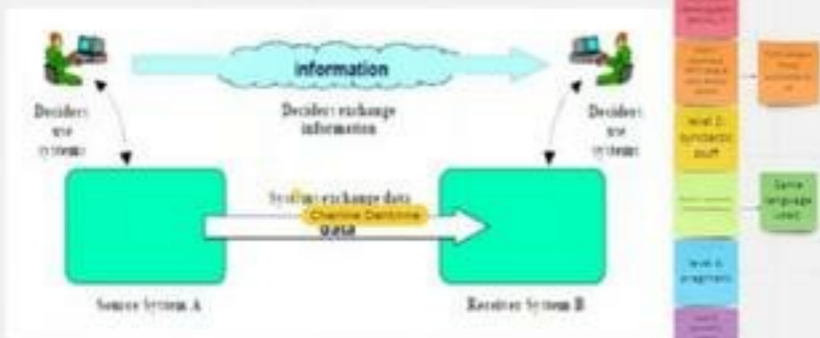
Interaction between people to create a machine learning



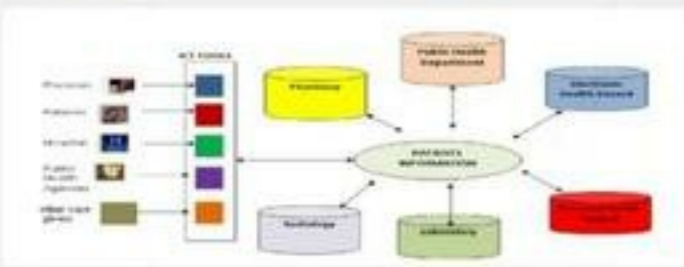
INTEROPERABILITY



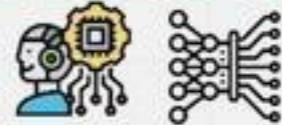
Access



- 1. Information exchange
- 2. Data exchange
- 3. System integration
- 4. Interoperability
- 5. Data exchange
- 6. System integration
- 7. Interoperability



FEDERATED LEARNING



FEDERATED LEARNING is a form of machine learning, and is a form of data sharing and learning from data among parties who do not share learning security protocols, instead of encryption.

- 1. Federated Learning
- 2. Federated Learning
- 3. Federated Learning
- 4. Federated Learning
- 5. Federated Learning
- 6. Federated Learning
- 7. Federated Learning

