BIG DATA & ANALYTICS
Program Learning

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Mediador

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Big Data Essentials

Sesión Introductoria

CONTENIDO DEL CURSO

BUSINESS INTELLIGENCE

The term Business Intelligence (BI) refers to technologies, applications and practices for the collection, integration, analysis, and presentation of business information. The purpose of Business Intelligence is to support better business decision making.

DATA ANALYTICS

It is a process that uses advanced methodologies and tools to discover significant patterns in the data that help make intelligent decisions in organizations.

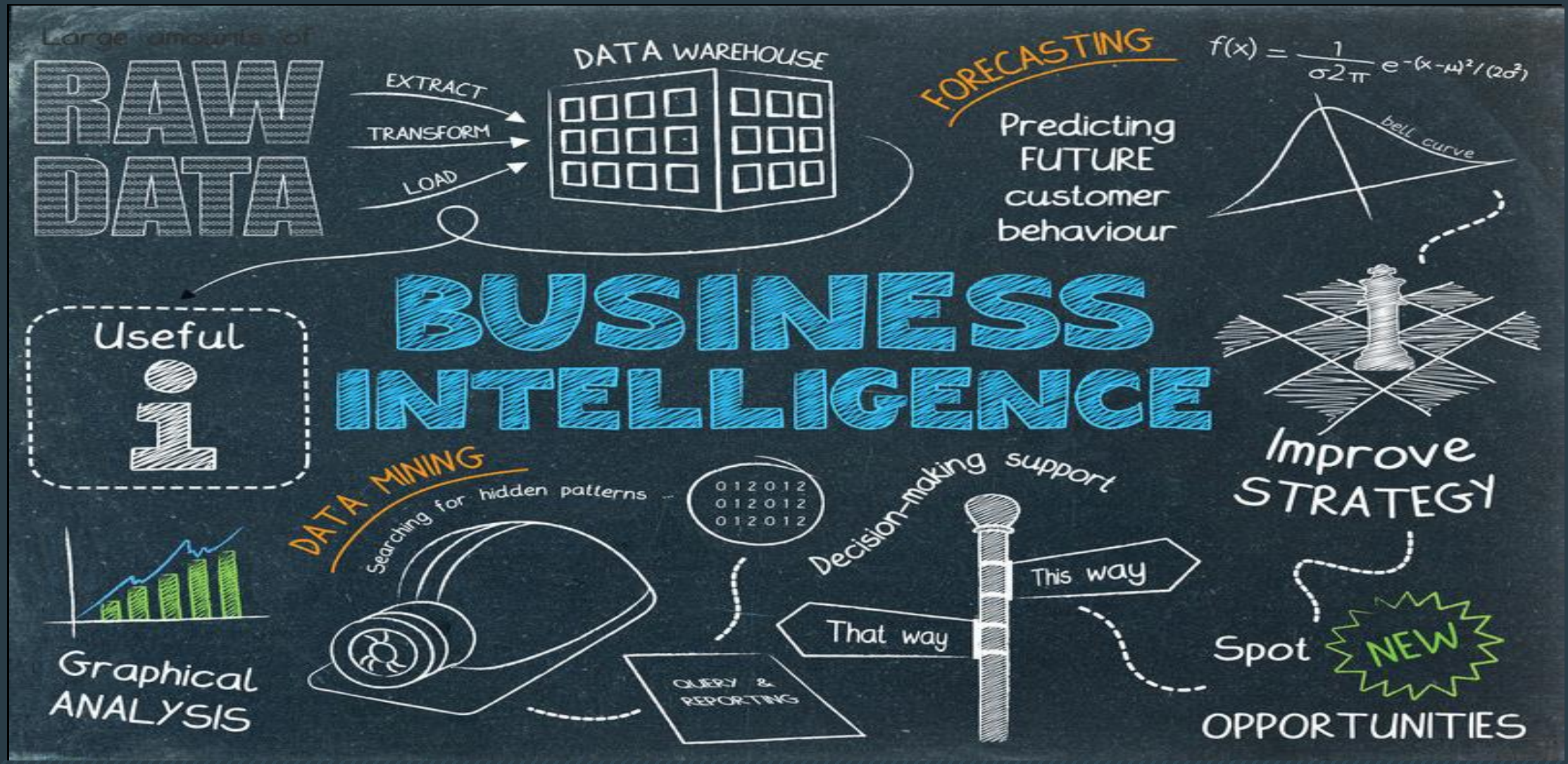
BIGDATA TECNOLOGIES

It is a set of technologies that enable the processing, storage and availability of large volumes of data at different speeds and of different types.

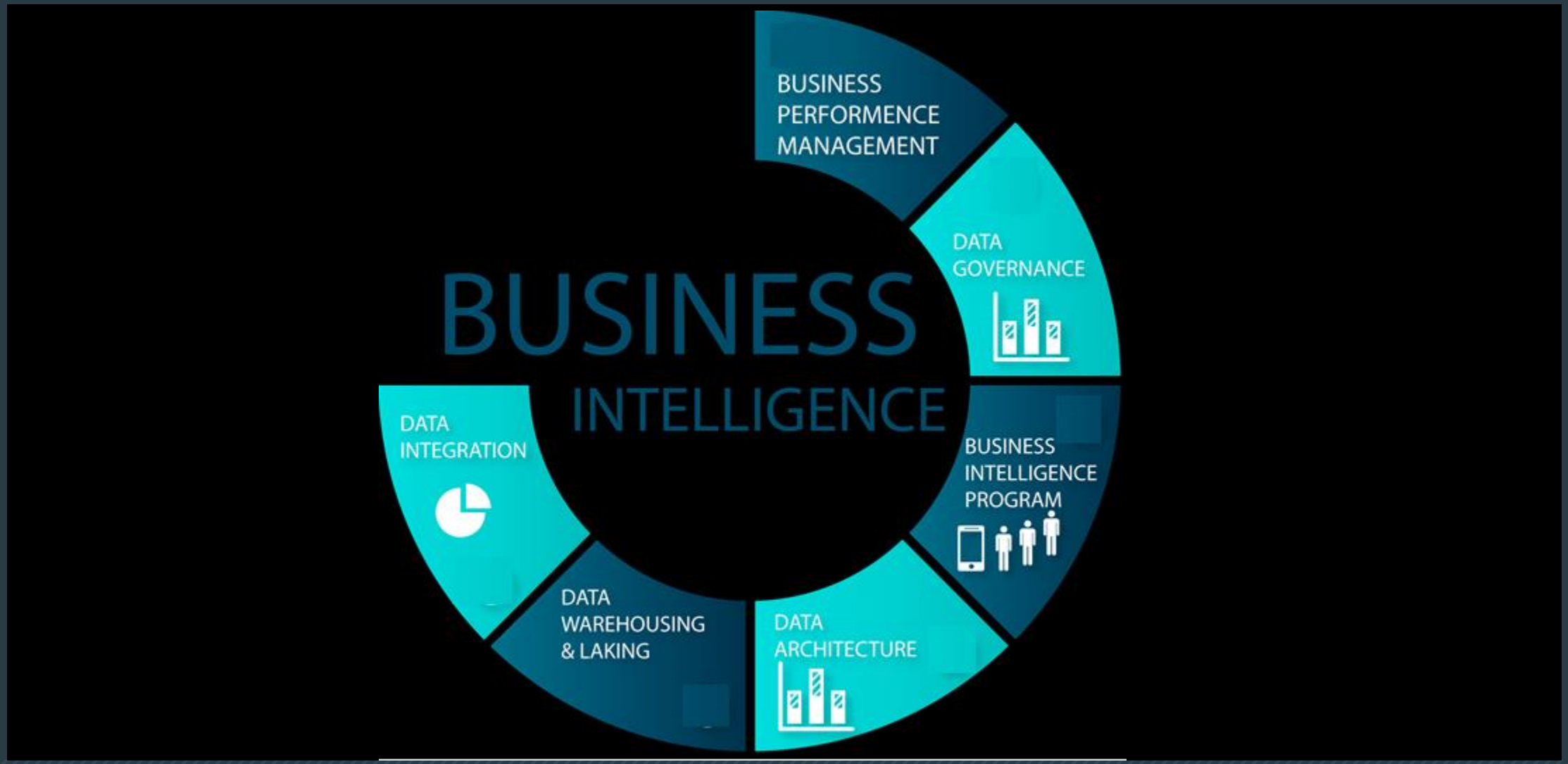
AGILE DATA

The Agile Data (AD) method defines a collection of strategies that IT professionals can apply in a wide variety of situations to work together effectively on the data aspects of software systems. This isn't to say that AD is a “one size fits all” methodology.

BUSINESS INTELLIGENCE



BUSINESS INTELLIGENCE

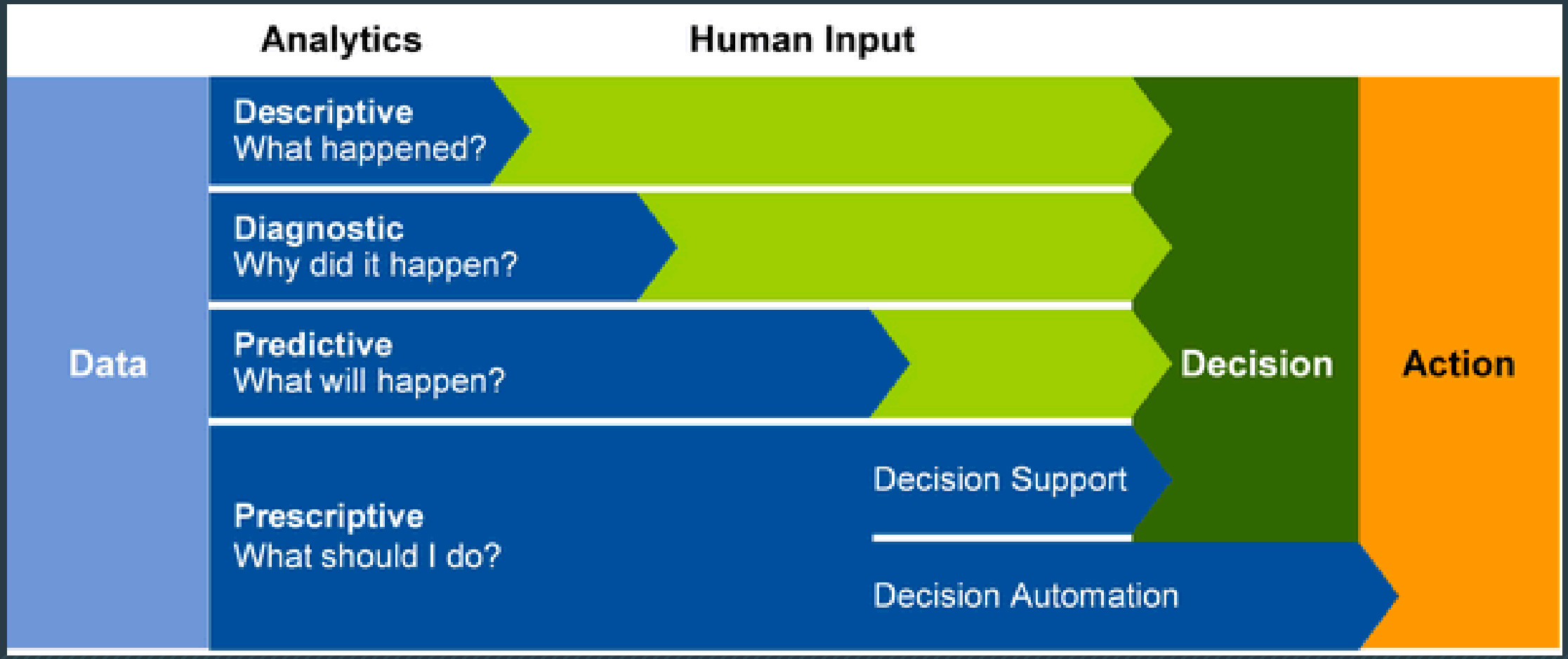


DATA ANALYTICS

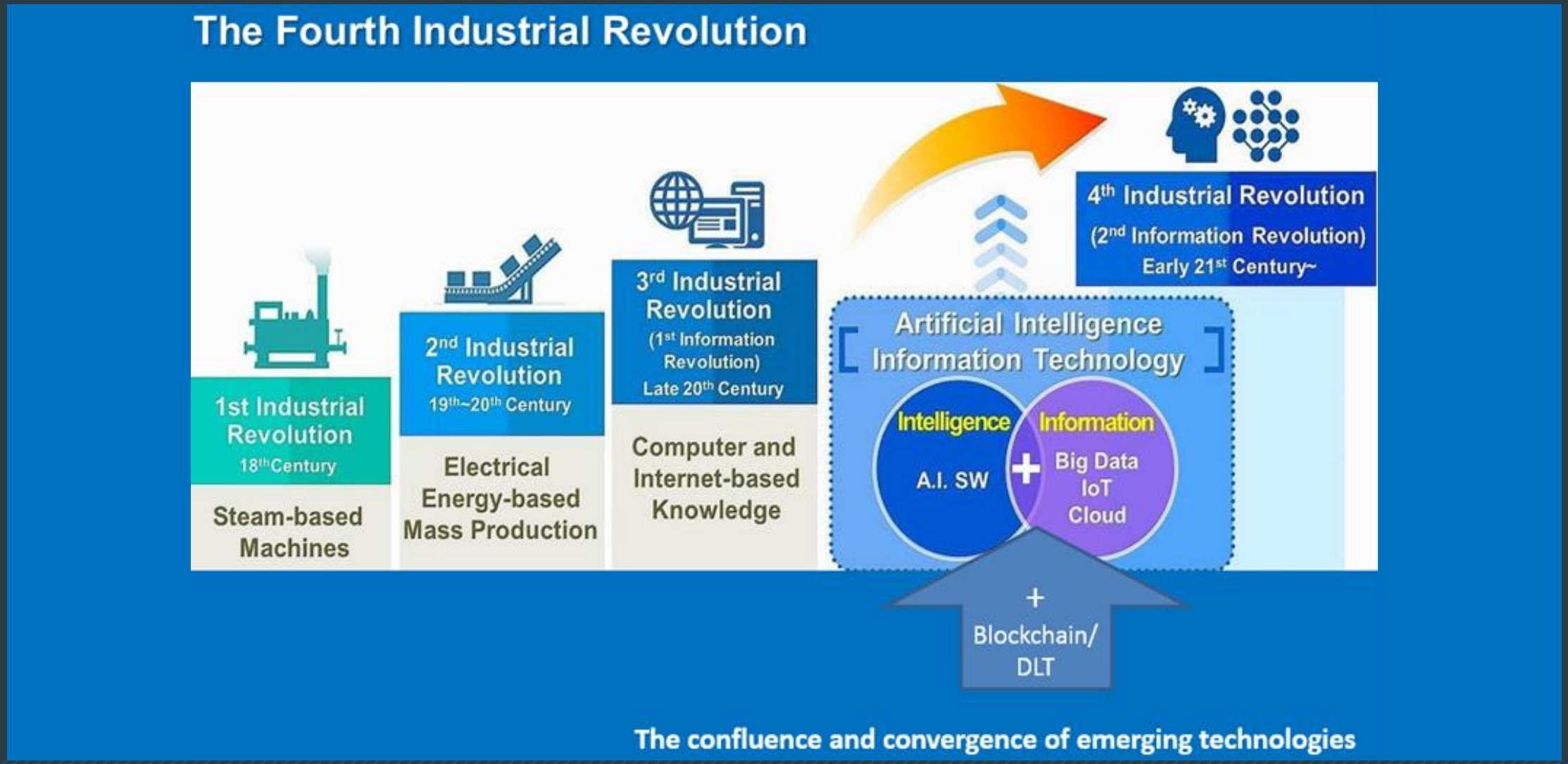
BI Tradicional

Advanced Analytics

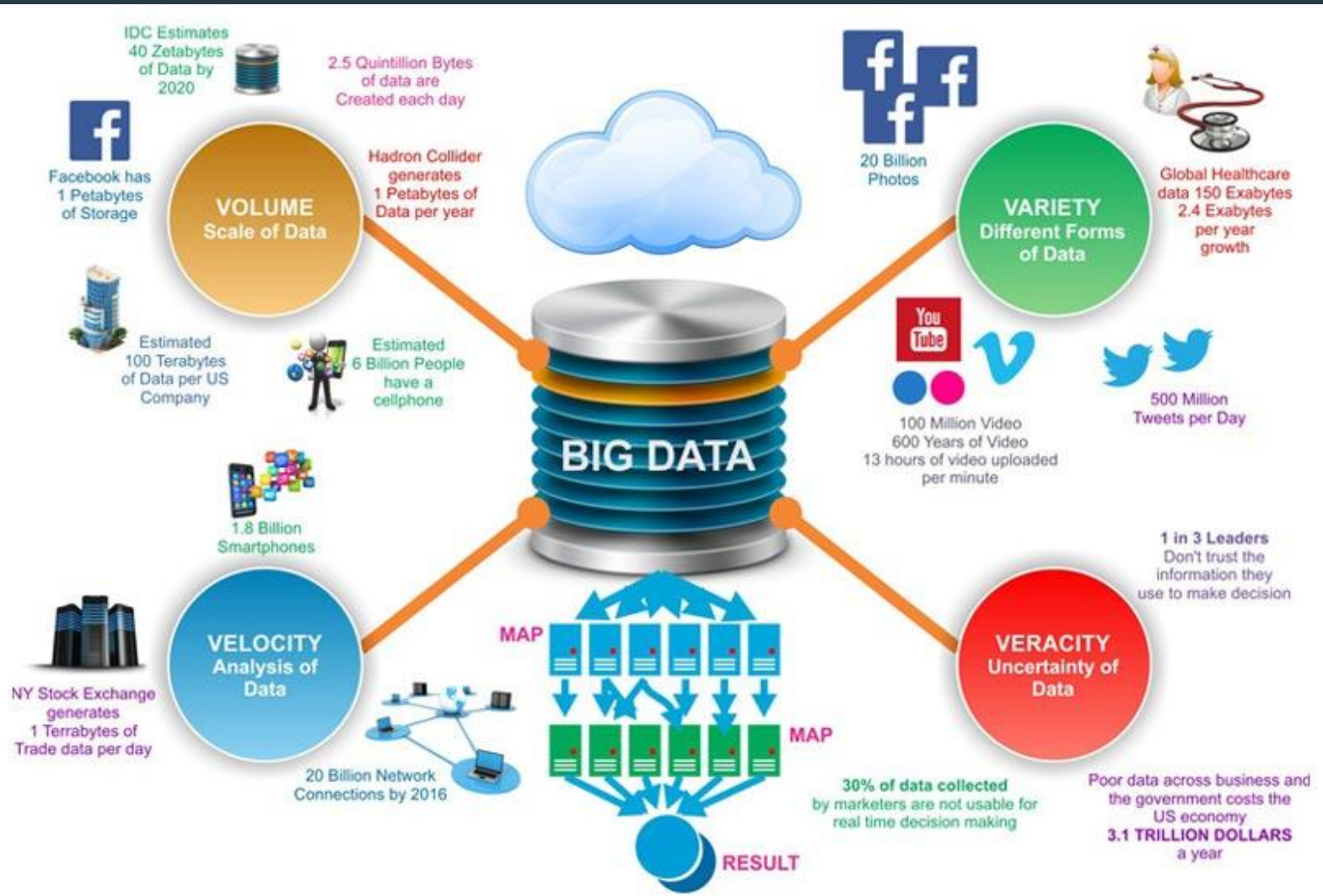
DATA ANALYTICS



BIG DATA

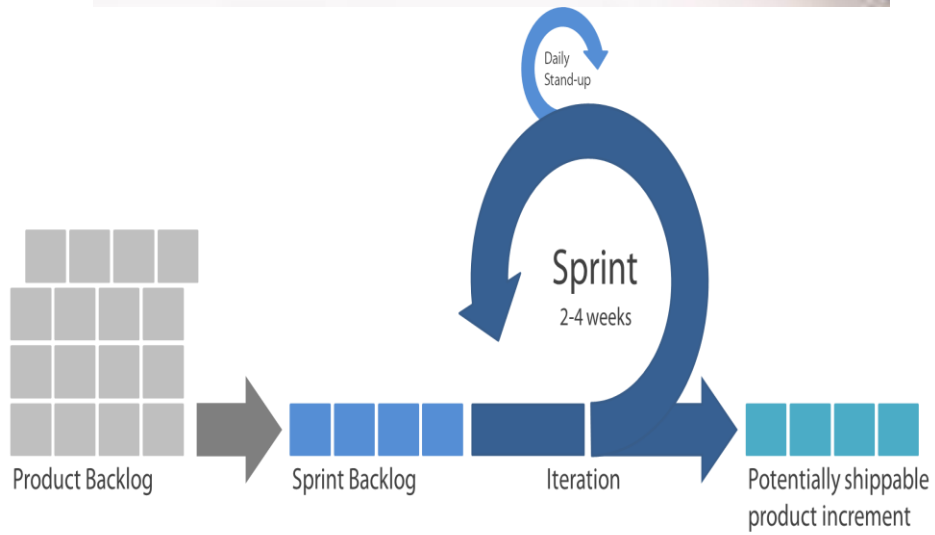

The Fourth Industrial Revolution
1st Industrial Revolution
18th Century
Steam-based Machines
2nd Industrial Revolution
19th~20th Century
Electrical Energy-based Mass Production
3rd Industrial Revolution
(1st Information Revolution)
Late 20th Century
Computer and Internet-based Knowledge
4th Industrial Revolution
(2nd Information Revolution)
Early 21st Century~
Artificial Intelligence
Information Technology
Intelligence
A.I. SW
Information
Big Data
IoT
Cloud
+
Blockchain/
DLT
The confluence and convergence of emerging technologies

BIG DATA


IDC Estimates
40 Zetabytes
of Data by
2020
2.5 Quintillion Bytes
of data are
Created each day
Facebook has
1 Petabytes
of Storage
VOLUME
Scale of Data
Hadron Collider
generates
1 Petabytes of
Data per year
Estimated
100 Terabytes
of Data per US
Company
Estimated
6 Billion People
have a
cellphone
1.8 Billion
Smartphones
BIG DATA
20 Billion
Photos
VARIETY
Different Forms
of Data
Global Healthcare
data 150 Exabytes
2.4 Exabytes
per year
growth
100 Million Video
600 Years of Video
13 hours of video uploaded
per minute
500 Million
Tweets per Day
1 in 3 Leaders
Don't trust the
information they
use to make decision
NY Stock Exchange
generates
1 Terrabytes of
Trade data per day
VELOCITY
Analysis of
Data
20 Billion Network
Connections by 2016
MAP
MAP
RESULT
VERACITY
Uncertainty of
Data
30% of data collected
by marketers are not usable for
real time decision making
Poor data across business and
the government costs the
US economy
3.1 TRILLION DOLLARS
a year

AGILE DATA

AGILE
Deploy
Test
Develop
Review
Requirements
Design


Daily
Stand-up
Sprint
2-4 weeks
Product Backlog
Sprint Backlog
Iteration
Potentially shippable
product increment

P Product owner
Chapter lead
Tribe
Squad
Squad
Squad
Squad
Tribe lead
Agile coach
Chapter
Chapter