

The background features a large, stylized yellow pyramid structure with several parallel diagonal lines, set against a solid teal background.

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Harvard University & Alliance4Ai

SETTING YOUR BIG PICTURE aGENDa

POLICY, INNOVATION, HARDTECH

EXPERIENCE AT DEPARTMENT OF ENERGY
WASHINGTON D.C.

Government, Industry and
Academic partnerships

+5

Programs on innovation
and hard tech



DATA SCIENCE, PRODUCT

BIG DATA, GEOSPATIAL
DATA ANALYSIS,
PRODUCTION

NORWEGIAN, AMERICAN
40+ PERSON STARTUP

unacast.



Human mobility insights

Understanding how people move around the planet leads to better products and stronger business decisions. We combine location data, map data, and strategic intelligence to provide clients with the best possible picture of real-world human activity.

ECOSYSTEM BUILDING

FUTURE OF WORK, POLICY,
ADVISORY FOR
COMPANIES/STARTUPS/GOVERNMENTS

30+ communities on
continent



Get Involved:
www.alliance4ai.org/what-is-ai

QUESTIONS ON DIFFERENT TIERS

Building a world-class
practice requires thinking
on different scales



Your Company

Culture, Organization,
Problem Statement,
Team

Community, Nigeria

Data Science Nigeria
(DSN), Talent, Pipeline,
Collaboration

Ecosystem

Partnerships,
Alliance4Ai

DEFINITIONS

Artificial Intelligence

Intelligence demonstrated by machines, in contrast to the natural intelligence displayed by humans

Machine Learning

Perform a specific task without explicit instructions, relying on patterns and inference

Data Science

Extract knowledge from structured and unstructured data

THE case FOR BIG Data



Data
created:
Past 2 years



Ignored:
value



Companies with
decreased
expenses

2 Quintillion bytes every day

Sources: IBM Marketing
Cloud, PC Mag

SCALE FOR YOUR COMPANY

Examples (not comprehensive)



Customers



Data Volume



Data Velocity



Data Variety

Leveraging Data & AI AFFECTS:

Cost

- Operational efficiency
- Informed decision making
- Quasi-real time

Revenue

- Actionable insights
- New product offerings
- Optimizations (e.g. dynamic pricing models)



ACKNOWLEDGE CURSE OF
KNOWLEDGE AND
OVERCOME INCUMBENT
INERTIA.



BECOME A DATA
COMPANY FIRST.



ARTIFICIAL INTELLIGENCE

- A.I/ML require data
- Produce Data as a byproduct



BUILD COMPLEMENTARY
CAPABILITIES AND
PROCESSES.

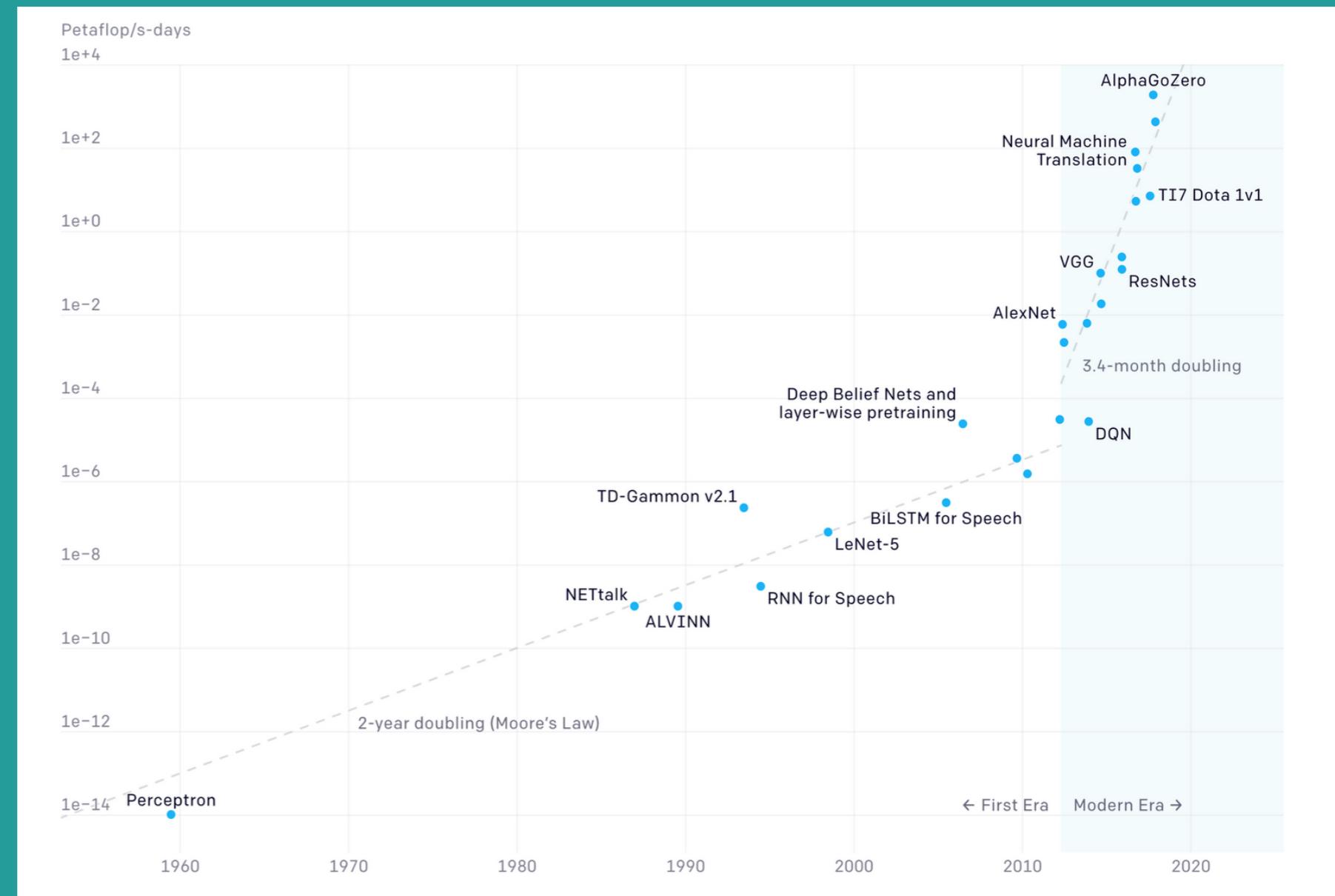
DATA, COMPUTE & AI

Big Data

- Enabled by cheaper storage
- Increased pace of data generation (e.g. 50B IOT devices by 2020)
- Ubiquitous compute

AI

- Feeds on Data
- Moore's Law allows training of models

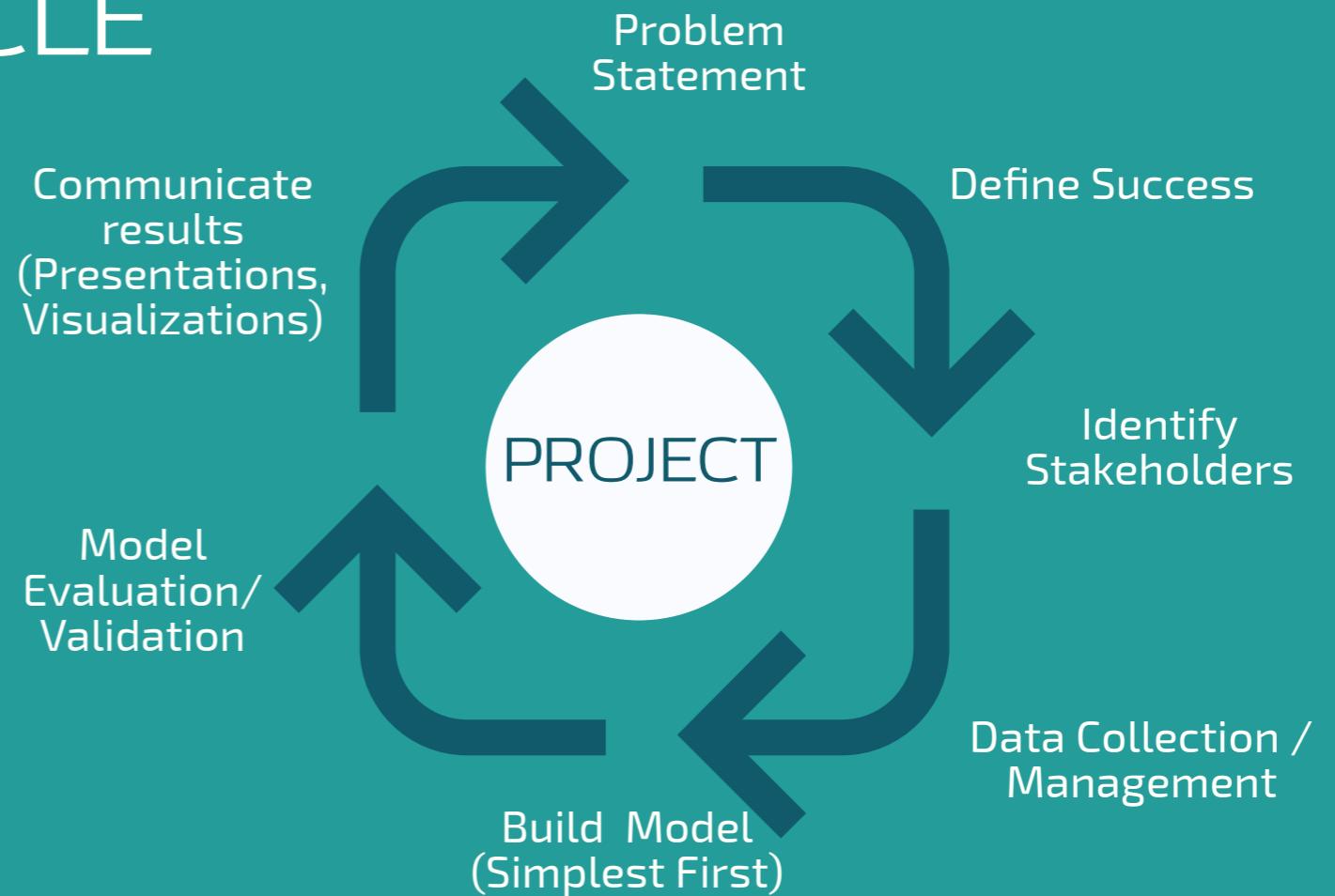


Source: OpenAI

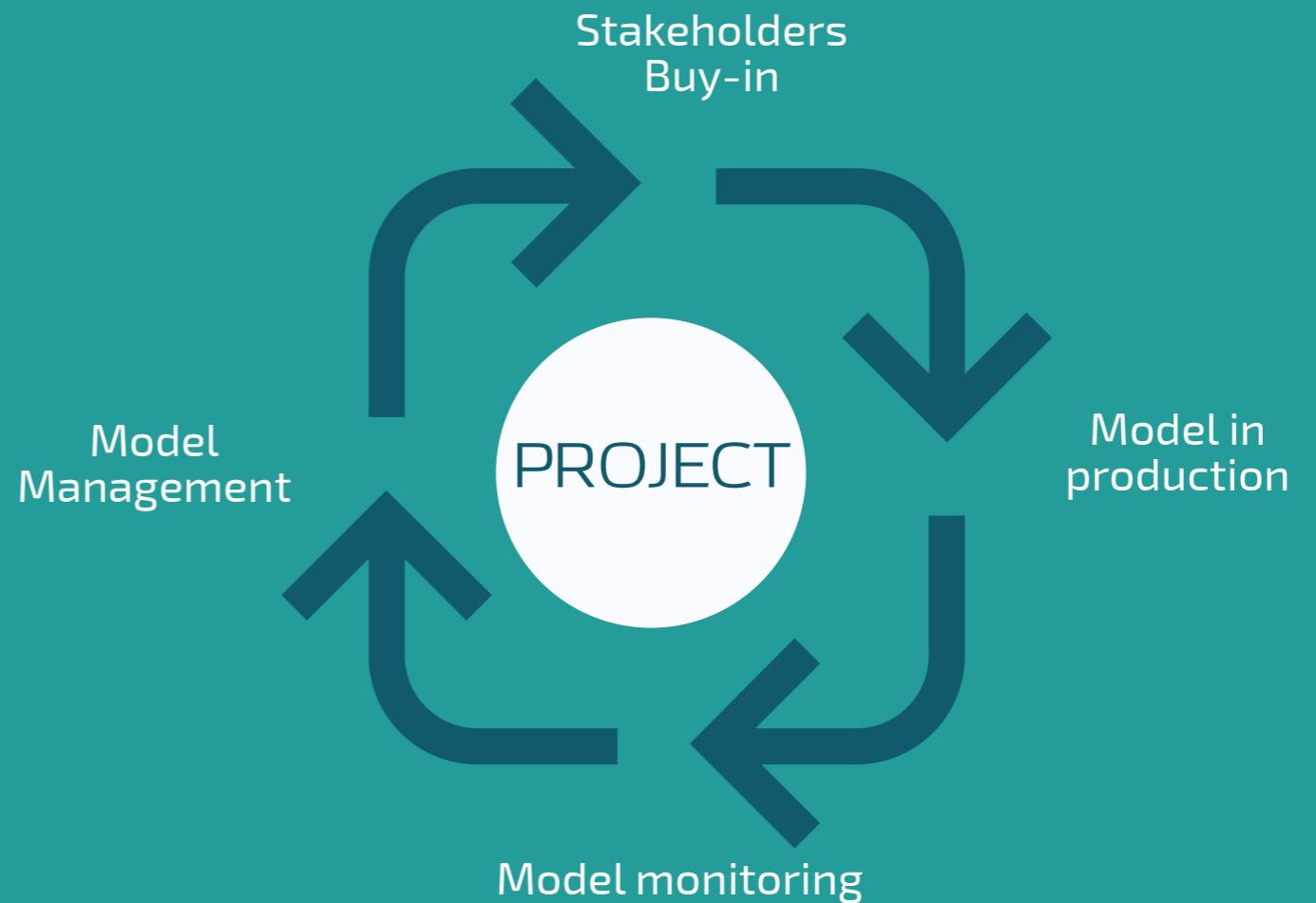


DEVELOP CLEAR PROJECT
LIFECYCLES AND
WORKFLOWS.

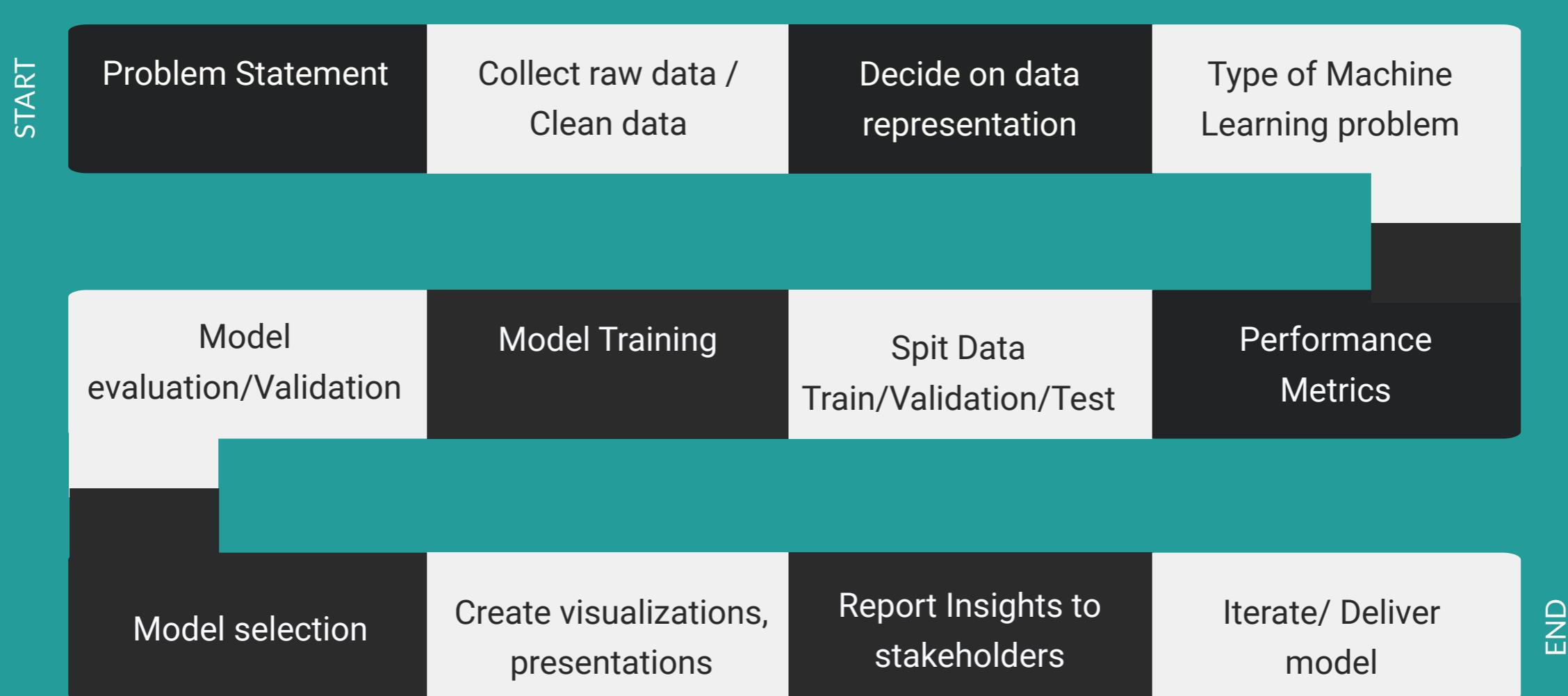
PROJECT LIFECYCLE



ENDGAME



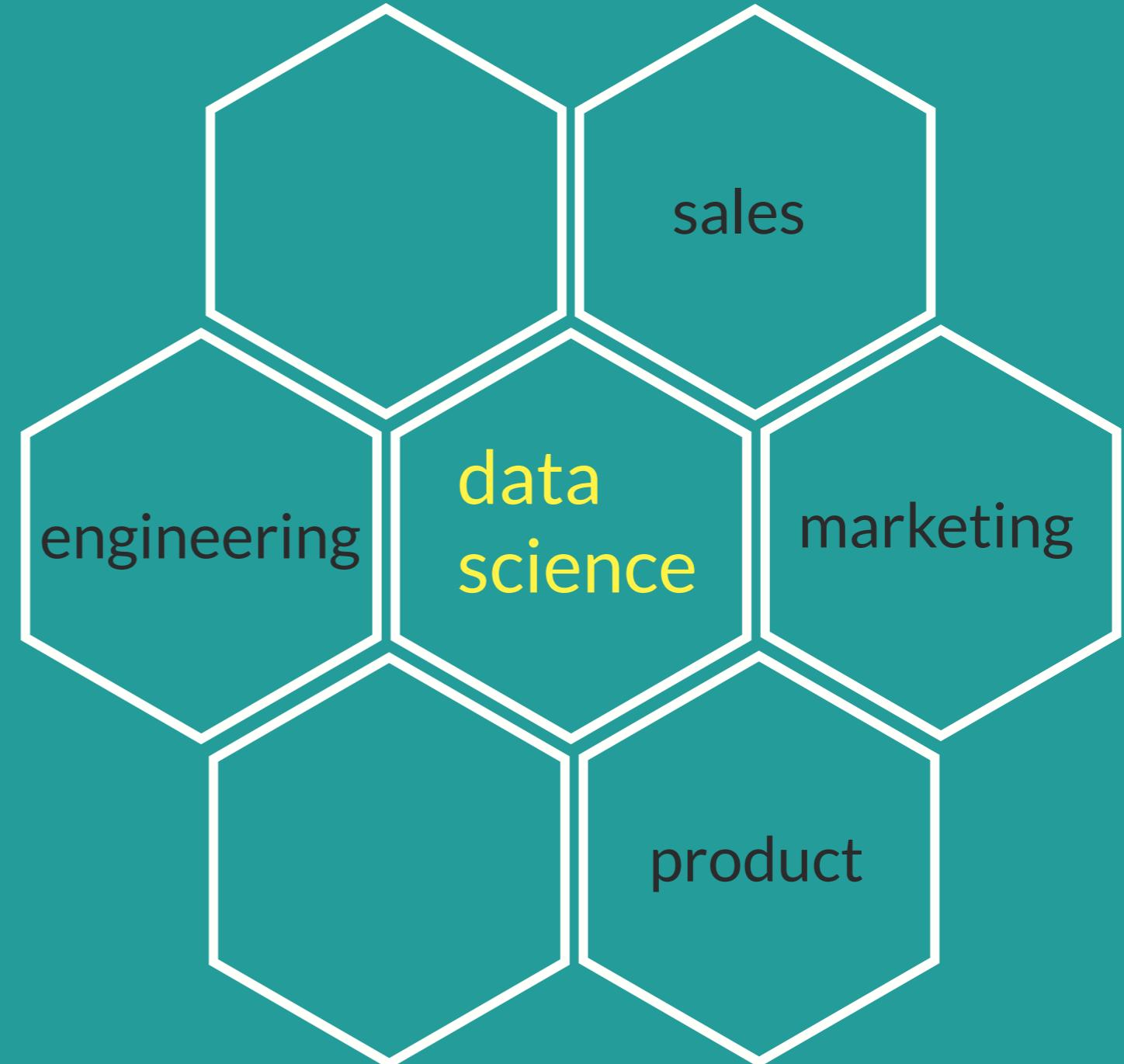
ANALYSIS LIFECYCLE





STRATEGICALLY POSITION
DATA SCIENCE IN YOUR
ORGANIZATION.

CONSULTING



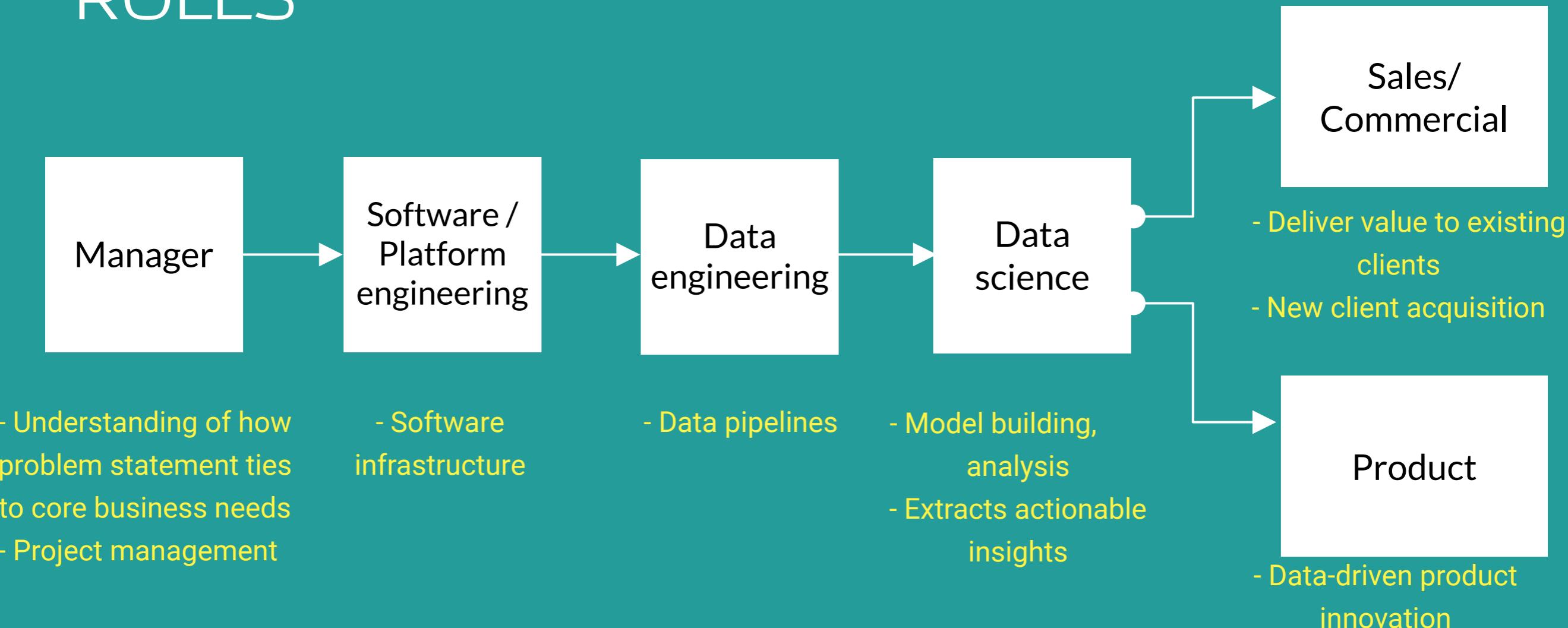
EMBEDDED





OUTLINE TEAM ROLES
AND THEIR
DEPENDENCIES.

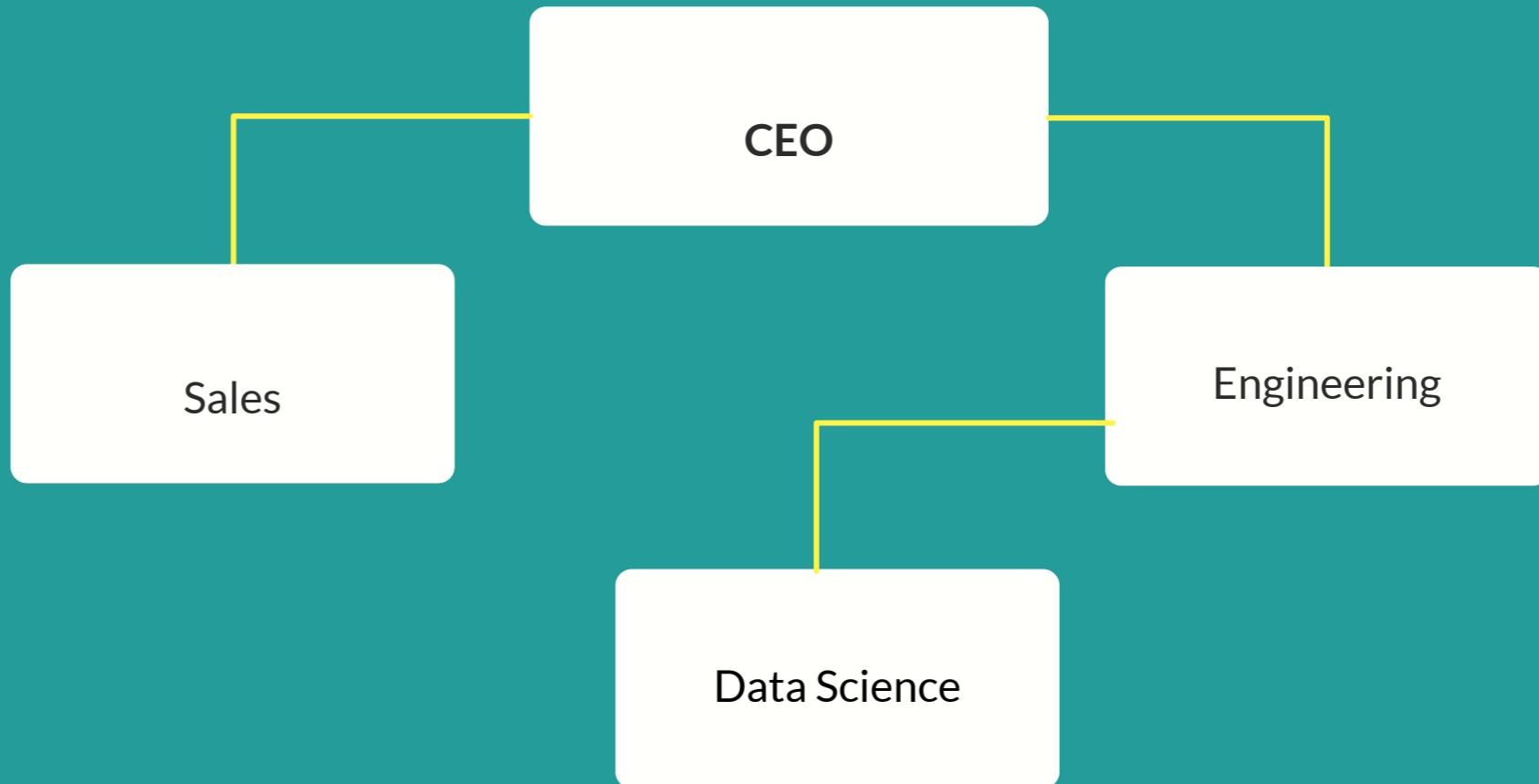
ROLES



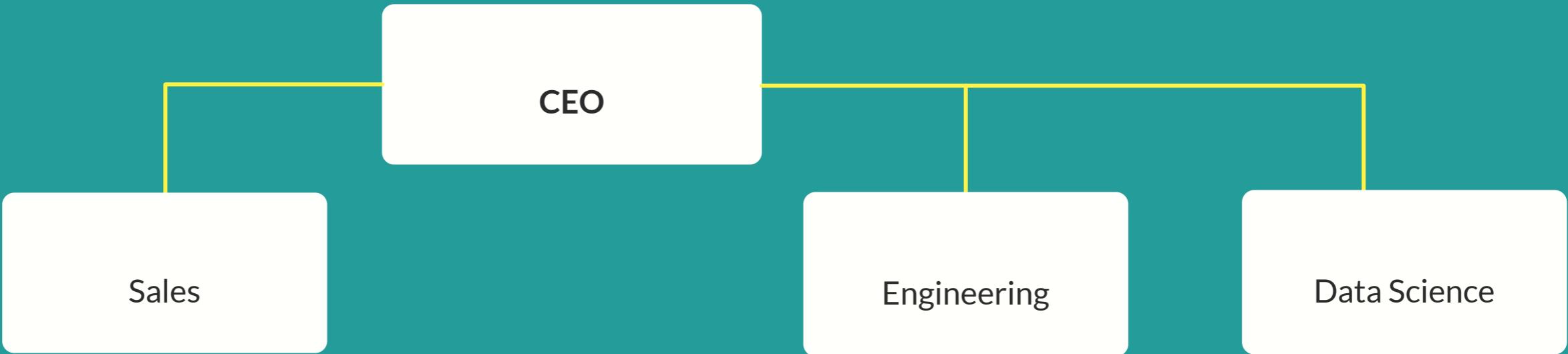


DATA SCIENCE IS
AMPLIFIED WITH
MANAGEMENT BUY-IN.

ACCESS



ACCESS





FOSTER CULTURE OF
DATA LITERACY AND
INNOVATION.

LEADERSHIP

Define



Metrics that convey temperature of the business

Communicate



Key metrics communicated openly with org.

Cascade



Transparent sub-org metrics feed into top-level metrics

Decisions



Decisions made should be data-driven

SET GOALS ON DIFFERENT TIME HORIZONS

Short Term



1

Strategy

What can be done today?
Take advantage of low hanging fruits.

Medium Term



2

Strategy

Build data-driven culture,
and an appetite for innovation

Long term



3

Strategy

Requires vision in the face of uncertainties. Great people get you here!

FUTURE OF WORK

AFRICAN CONTINENT
MEDIAN age 19.4Y. NEED
TO PREPARE THE YOUTH
FOR ECONOMIC
COMPETITIVENESS

A.I. as a GPT

Pervasive and crosscutting use of A.I. across industries, scales and problems

Across a variety of data types, quality and volume, A.I. is being applied

Common to all are the people and talent driving these innovations. A.I. enhances what we can do and so should be empowering not overpowering

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(DSN), Talent, Pipeline,
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Ecosystem

Partnerships,
Alliance4Ai



BECOME AN ECOSYSTEM
BUILDER.

GUIDING PRINCIPLES

AT every scale
PUT TALENT &
INNOVATORS FIRST



GUIDING PRINCIPLES

AT every scale
GENDER INCLUSION
and DIVERSITY



GUIDING PRINCIPLES

AT every scale
PARTNERSHIP AND
COLLABORATION



ECOSYSTEM BUILDING

CONVENING KEY PLAYERS ACROSS
AFRICA FOR CONTINENTAL
COLLABORATION TO LEVERAGE
EXPONENTIAL TECHNOLOGIES IN
ALLEVIATING POVERTY.FINANCE.
AGRICULTURE. HEALTHCARE

30+ communities on continent
AU 4IR Strategy Document
SA 4IR Strategy Document
AI Startups in Africa Database
Newsletter



Get Involved:
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