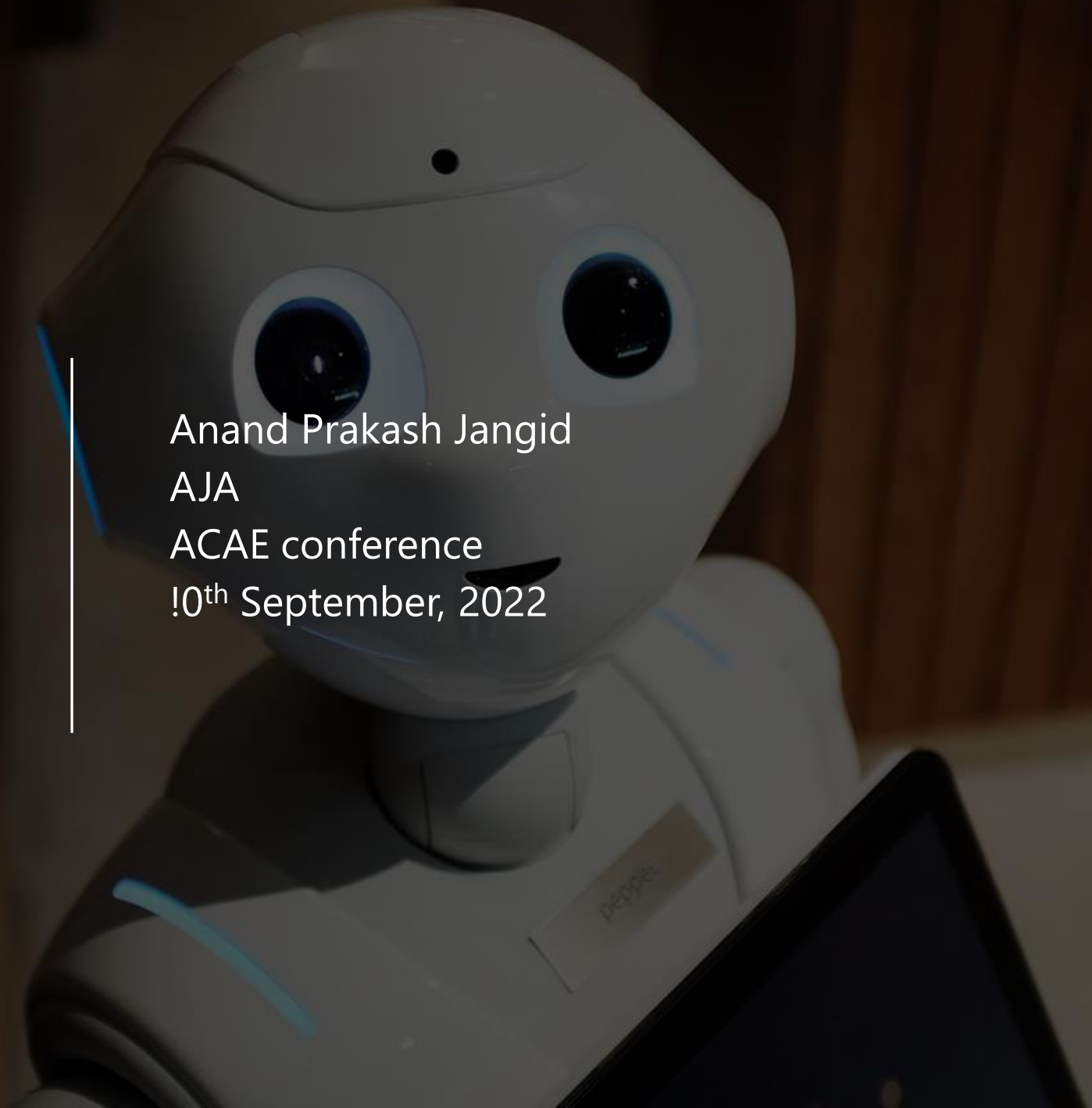


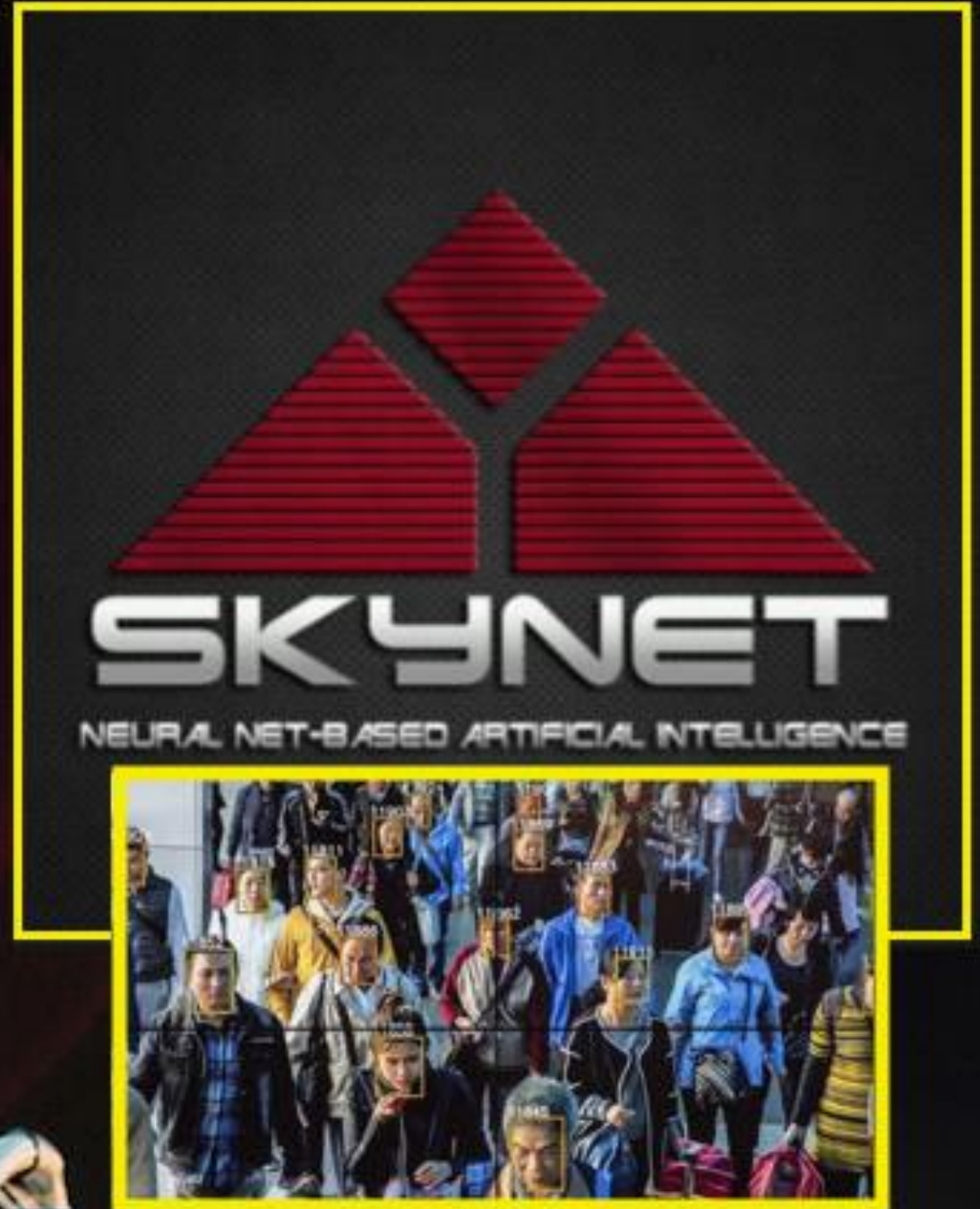
Building Skynet for Forensic Accounting

Anand Prakash Jangid
AJA
ACAE conference
10th September, 2022



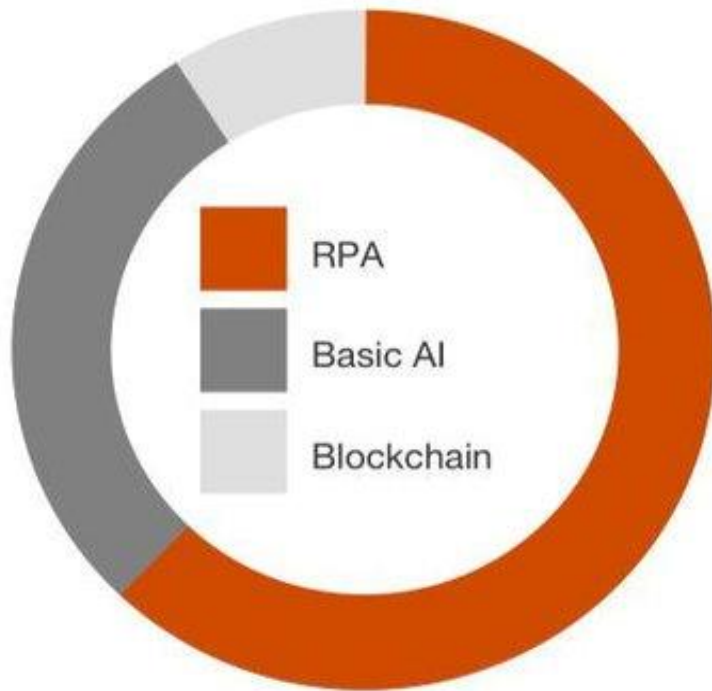
SKYNET – INTRO

- Artificial Intelligence software developed for commanding the defense system of the country.
- It is the powerful tool that allows computers to reason like human beings and mimic our behavior.
- Driving cars, Identifying cats, reading, etc. are some abilities of humans unlocked by AI. And the scene being AI is not magic, but math.

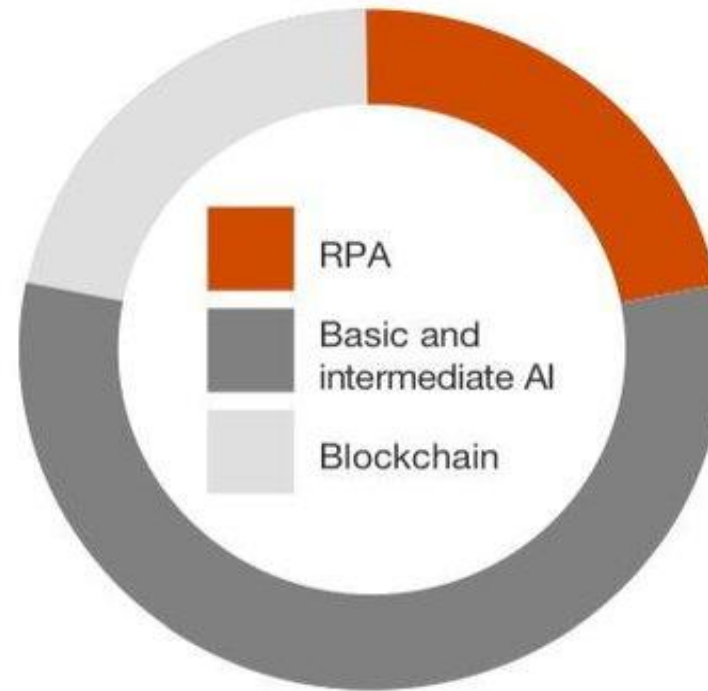


Which technologies will have the biggest impact on finance?

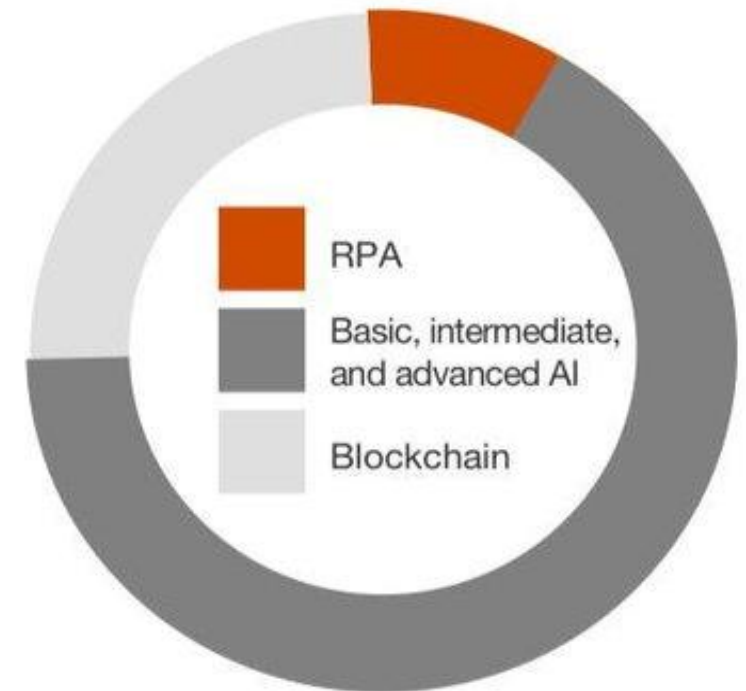
Near term
(Today)



Mid term
(2 to 3 years)



Longer term
(3 to 5 years)

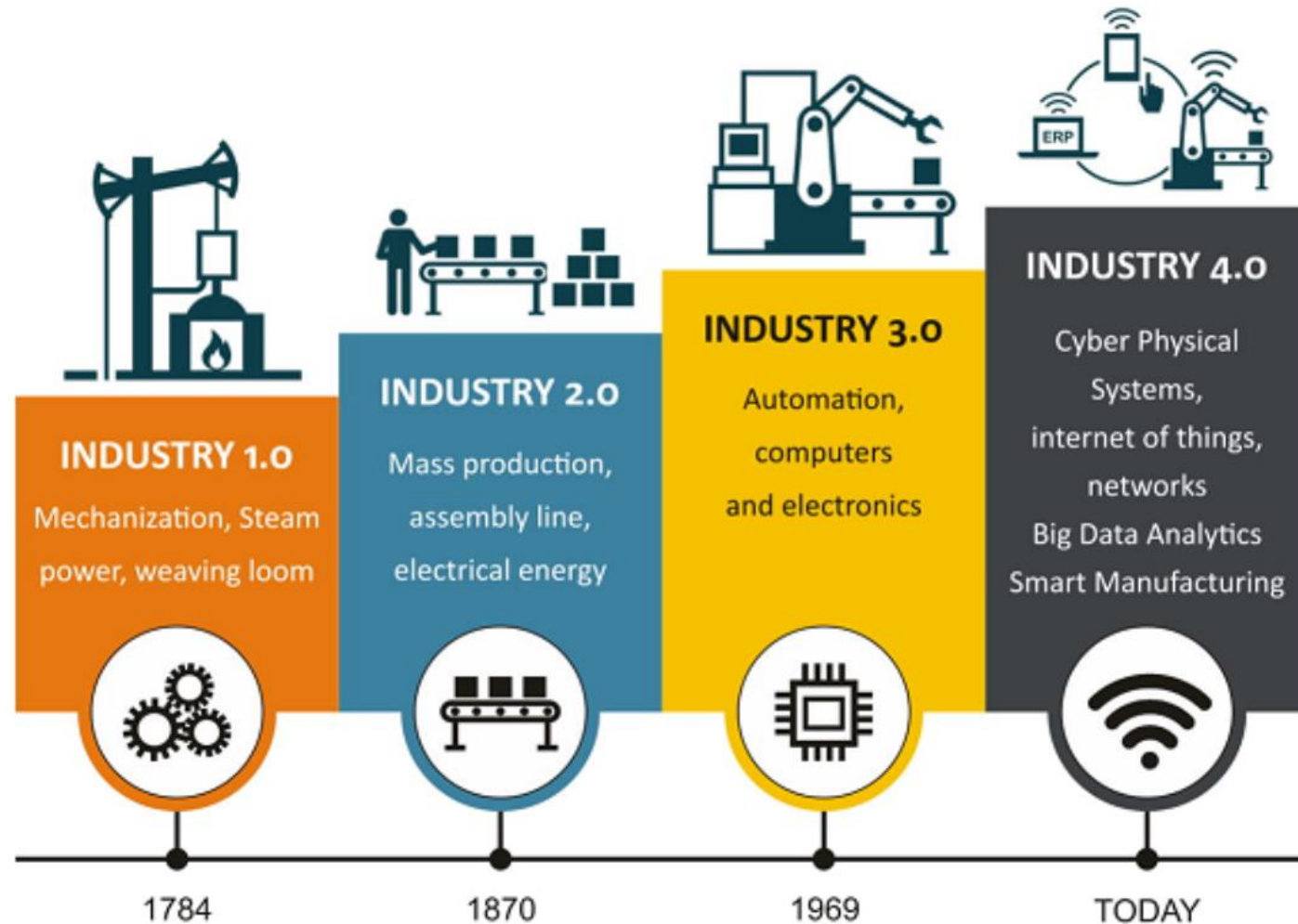


Relative impact of each technology in the finance function for a typical enterprise

source pwc via @mikequindazzi

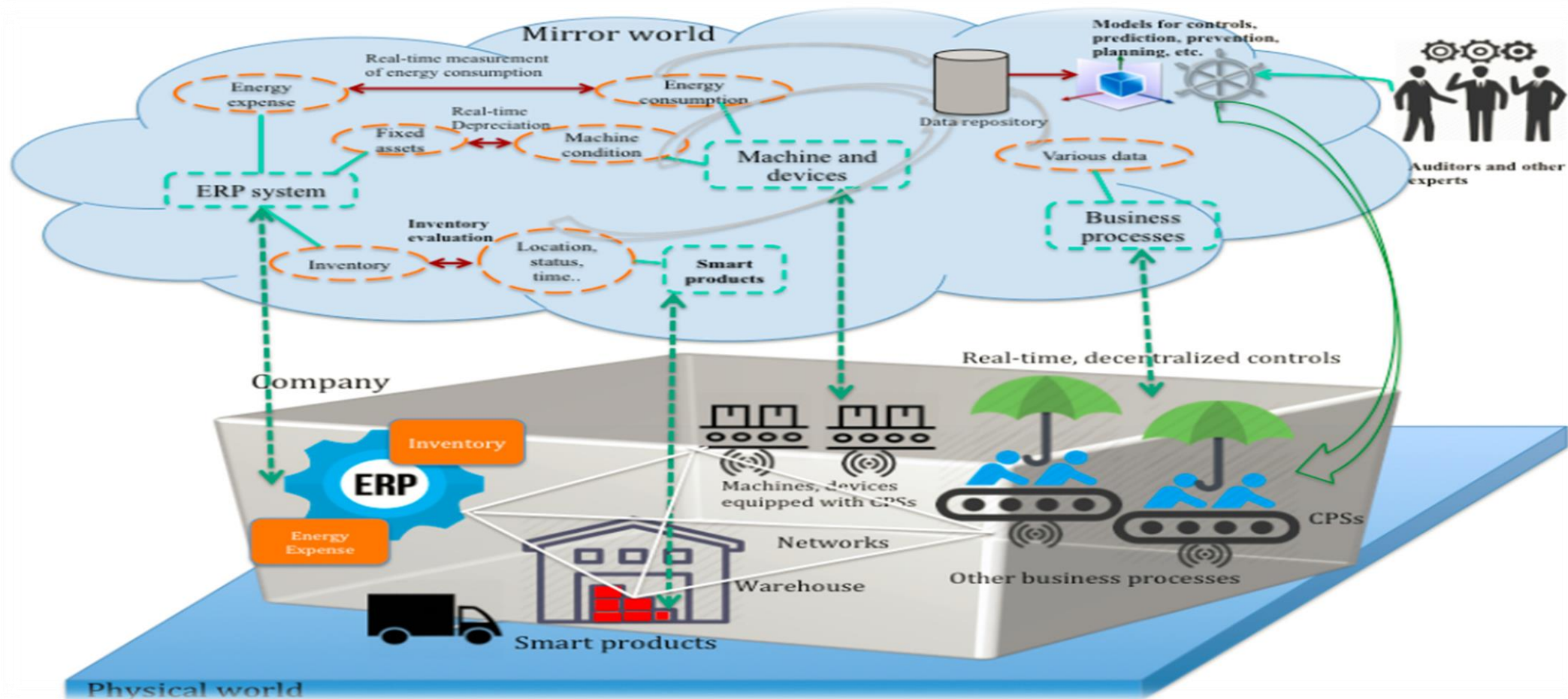
HOW AI IS HELPING AUDIT



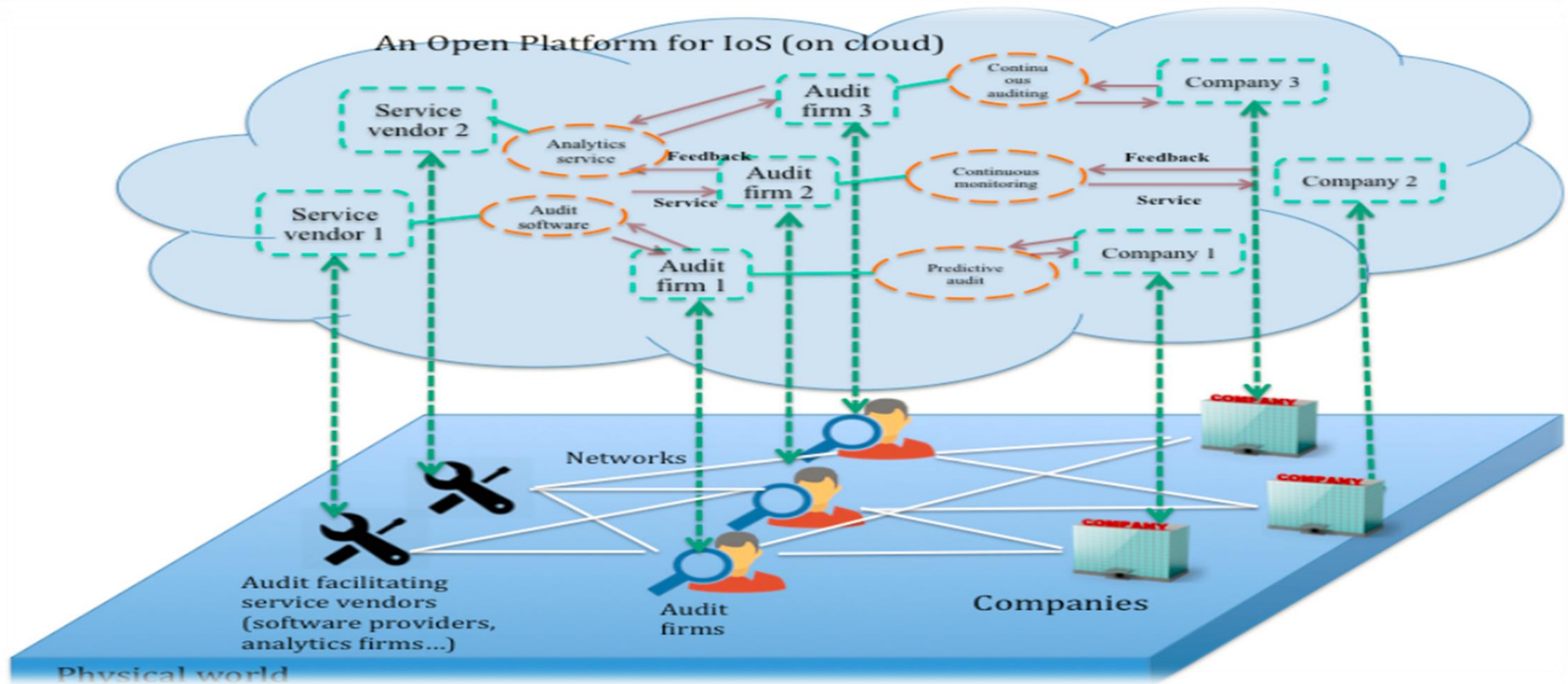


AUDIT 4.0 – The Genesis

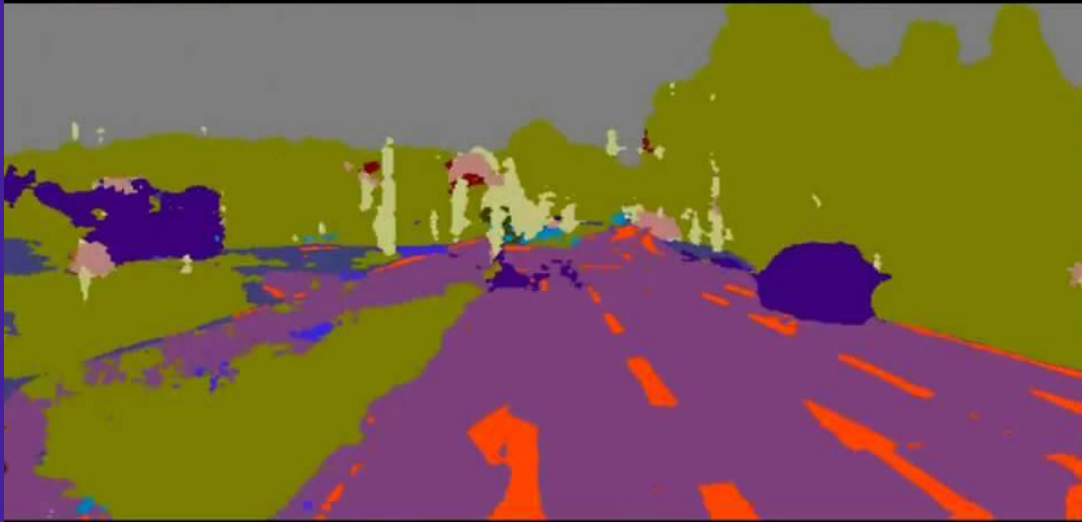
AUDIT 4.0 in BUSINESS PARTIES



AUDIT 4.0 as BUSINESS SERVICE



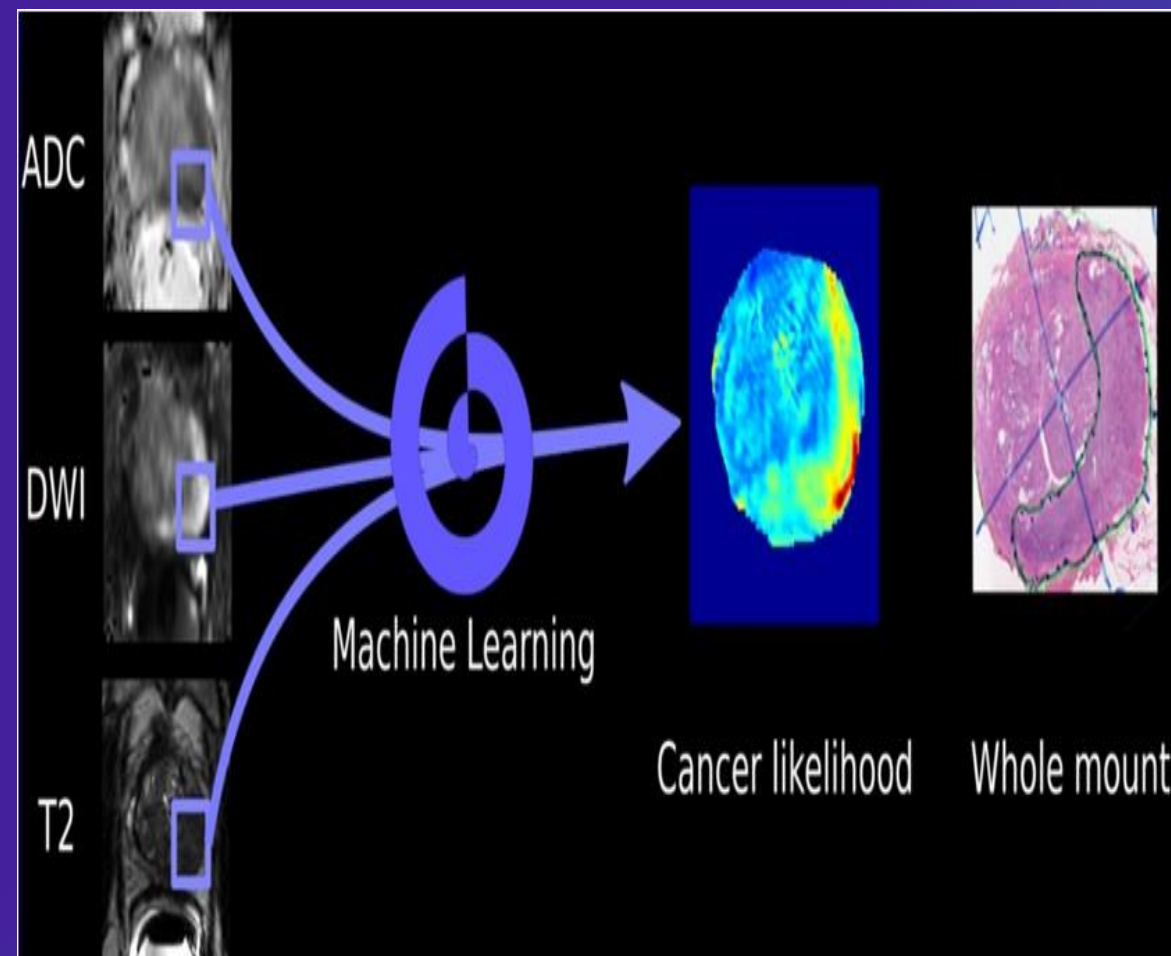
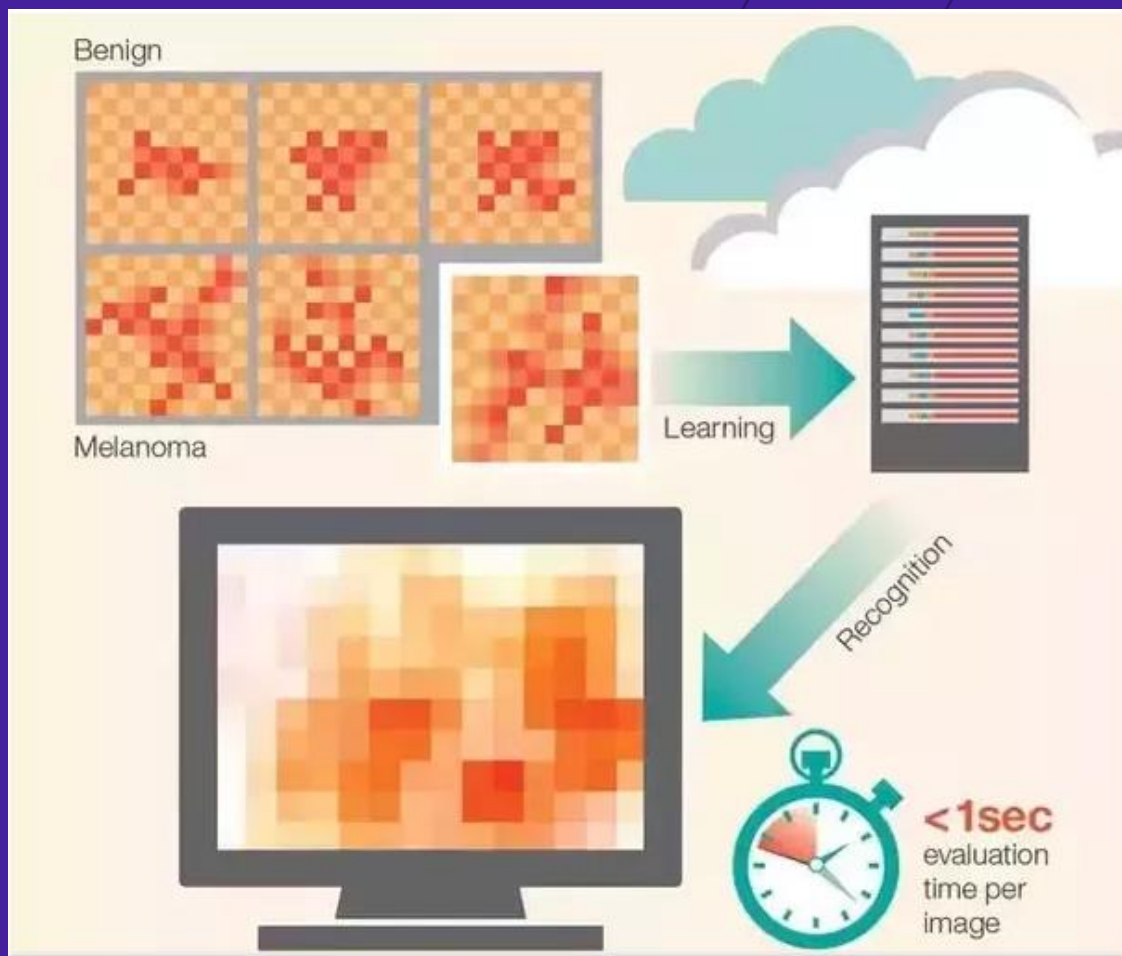
SELF DRIVING CARS



- Sky
- Building
- Pole
- Road Marking
- Road
- Pavement
- Tree
- Sign Symbol
- Fence
- Vehicle
- Pedestrian
- Bike

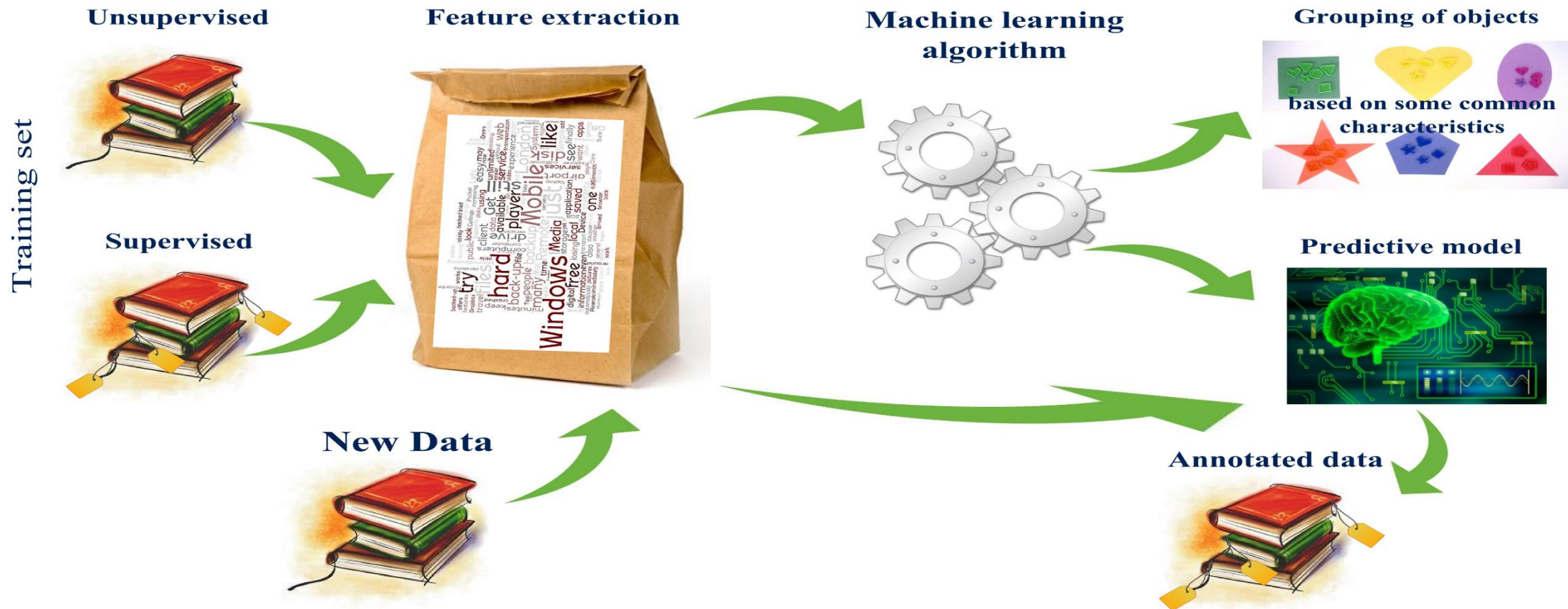


MEDICAL IMAGE ANALYSIS AND DISEASE PREDICTION



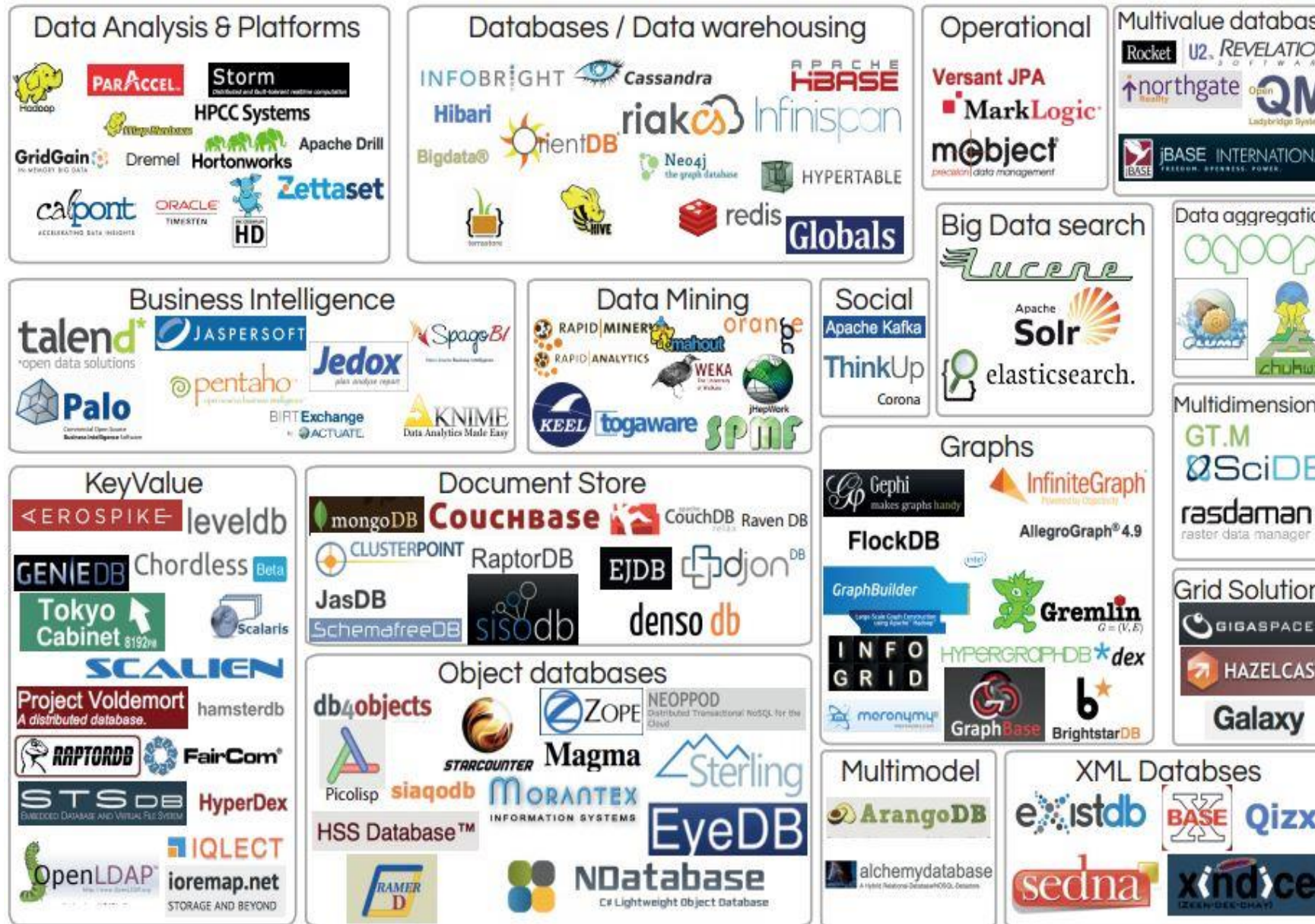
Privileged and Confidential

10



TOOLS & TECHNIQUES

- Large volume of data
- External data
- Un-structured data
- Statistical modeling
- Machine Learning
- Real-time analysis
- Interactive visualization



Success stories

Area	Success stories
Accounts Payable	Identification of fraud and revenue leakage
Bad debts	Prediction of Customer defaults
Spend Analysis	Detailed insight into procurement spends using machine learning
General Ledger Code review	Real-time automated review of GL code using machine learning
Contract Award	Identify collusion with Vendors
Banking	Predicting non-Performing Assets and analyzing the root cause
Travel & Expenses Claims	Identification of fraud in T&E claims

Real-time automated review of GL code using machine learning

The company	company is one of the Fortune 100 companies
The Challenge	<ul style="list-style-type: none">About 20-30% of transactions are booked to the wrong GL code at the time of data entry. This may be manually reviewed and corrected during month-end reviews
The Solution	<ul style="list-style-type: none">Check GL Code using pre-built models and business rulesReview cases where automated audit is “Doubtful”
The Outcome	<ul style="list-style-type: none">Near Real-time audit when the transaction is entered

Forensic review of non-performing assets for Banks



- ### performance in production

[illegible]

Auditing AI and ML

- The audit baseline
- Close inspection of the data and a review of the code.
- Reproduction of (parts of) the model training, testing, scoring and performance measures
- Development of suitable alternatives to the model can be advantageous to highlight deficiencies and how they can be prevented.



THANK YOU

Q&A

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