Al Value & Business Case

Lesson 1: Introduction-Decision Making-Al

Topic 1: WHY, When, What, Where and Who



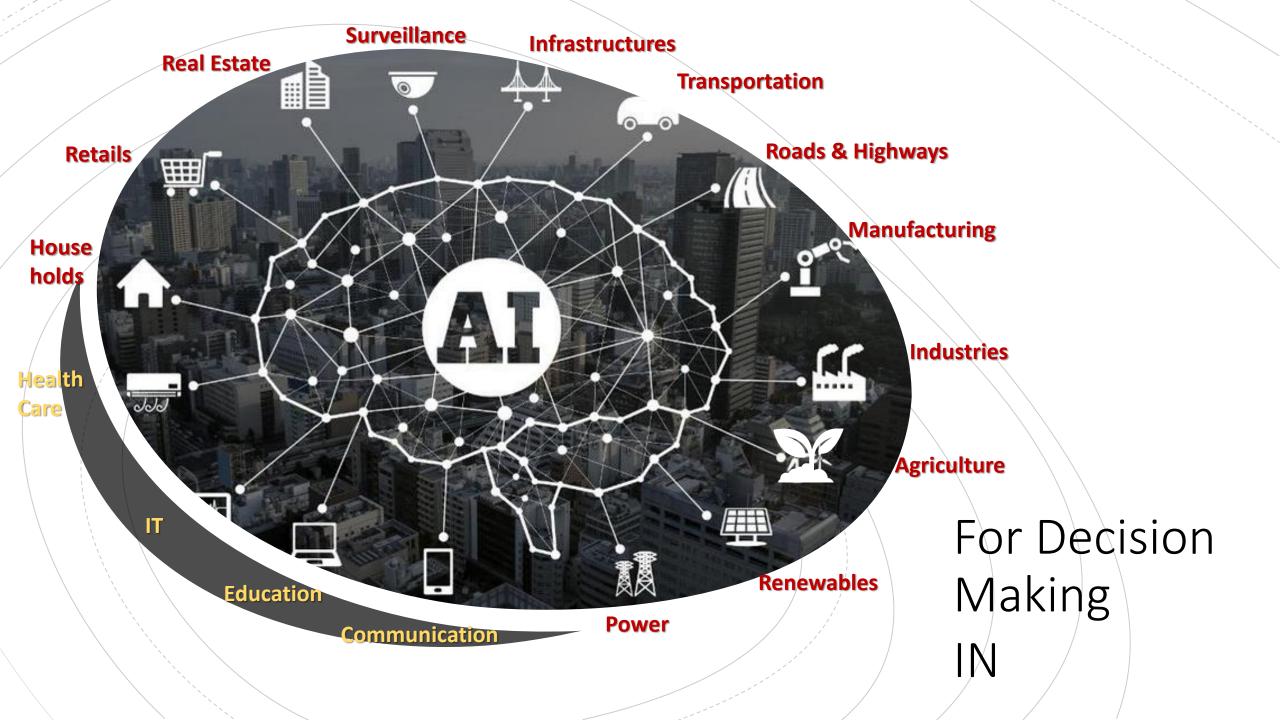
Why Artificial Intelligence Is Important?





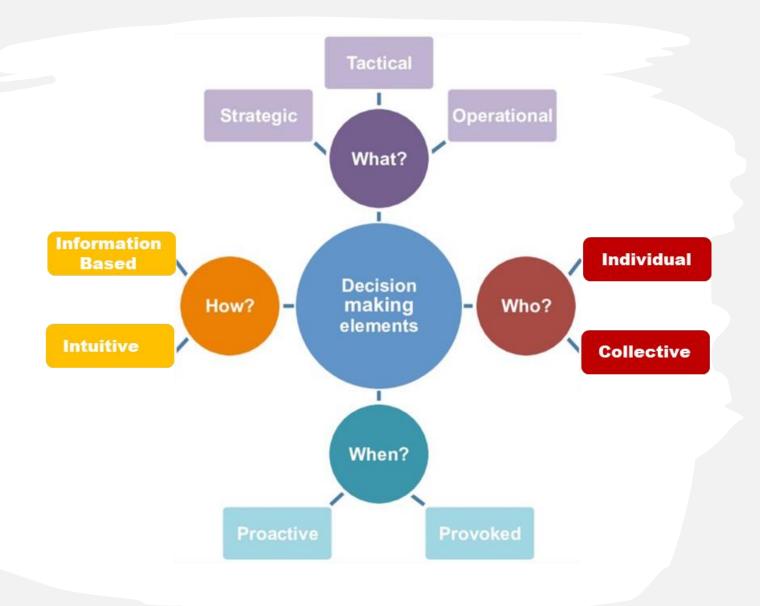
Where do we Run For Decision Making





Decision Making??

A Process of choosing between alternatives
To tackle a problem



Healthcare: Communicable Disease

Socio economic or Environmental Perspective

Targeted preventive measures in locations or beneficiaries

Monitor Disease Progression, Hospital Preparedness, Manage supplies etc



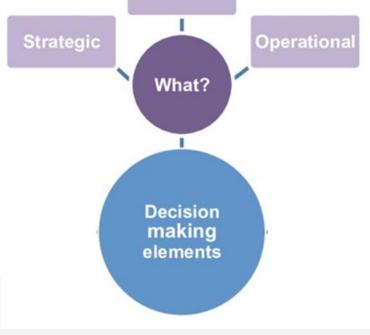
Football Capacity Improvement

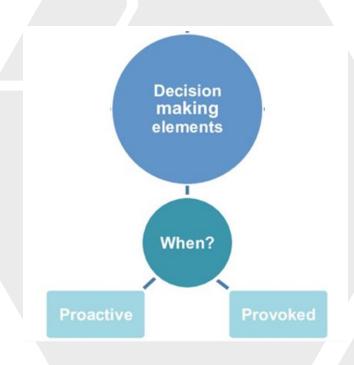
Location wise or Age wise soccer capacity development

Targeted Infrastructure development and fund distribution

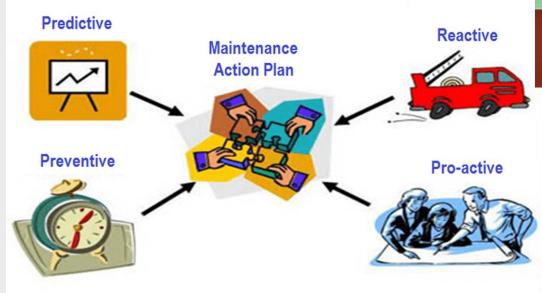
Monitor Progress, Diagnose Problem, solve and appropriate fund

What??



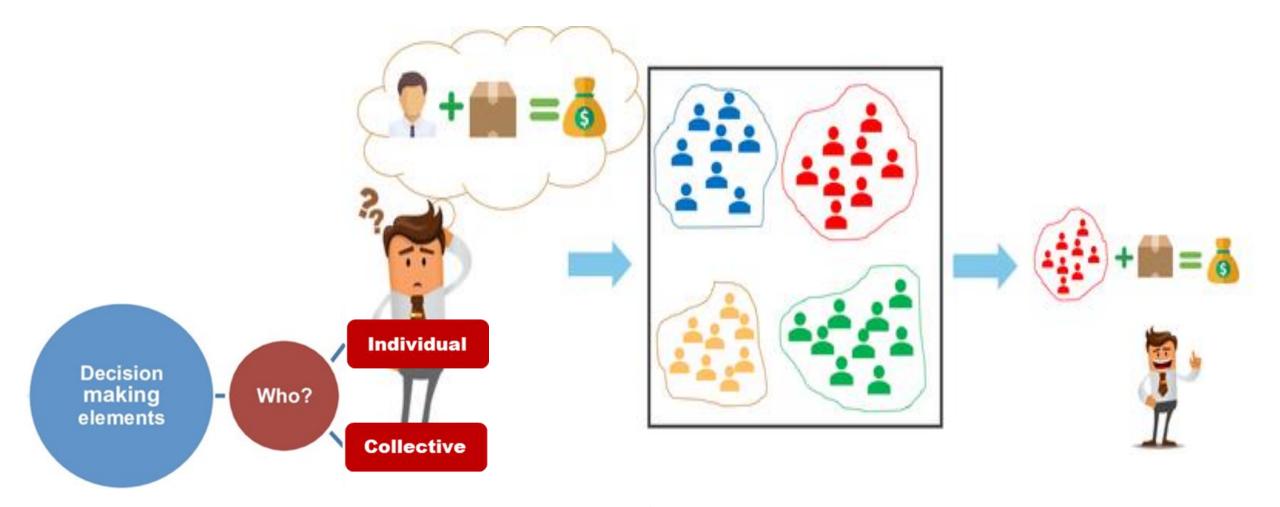


When??



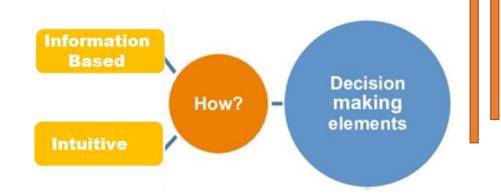






Who or Which??

How??



AI

- Processes information in a linear, sequential, logic al manner
- Uses information piece by piece to solve problem
- When reading/listening look for pieces to draw logical conclusions
- Decisions based on logical proof

- Use intuition
- Get right answer to math problem, but not sure how you arrived at answer
- Start with answer and work backwards
- Decisions based on feelings

Information Based

Intuitive

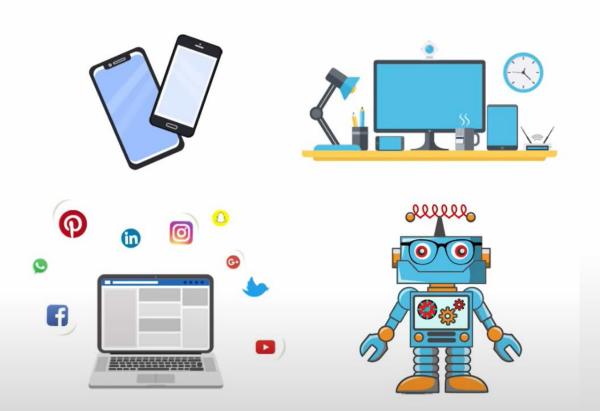
Decision Identify the Problem Making **Process** Evaluate Implement the Results the Action Decision Making Collect Information **Process** Choose from the Alternatives This common model has been modified to reflect the iterative flow by Rafiq Identify Elmansy. the Alternatives Weigh Designorate the Evidence 01 All caparight reserved to Designorate core and Rigity Eboards

Where Al Helps in Decision Making Process



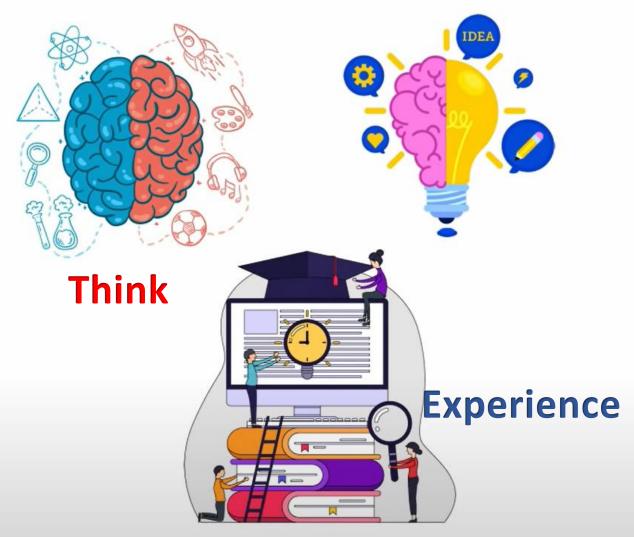
When Machine Does These We Call it

Artificial

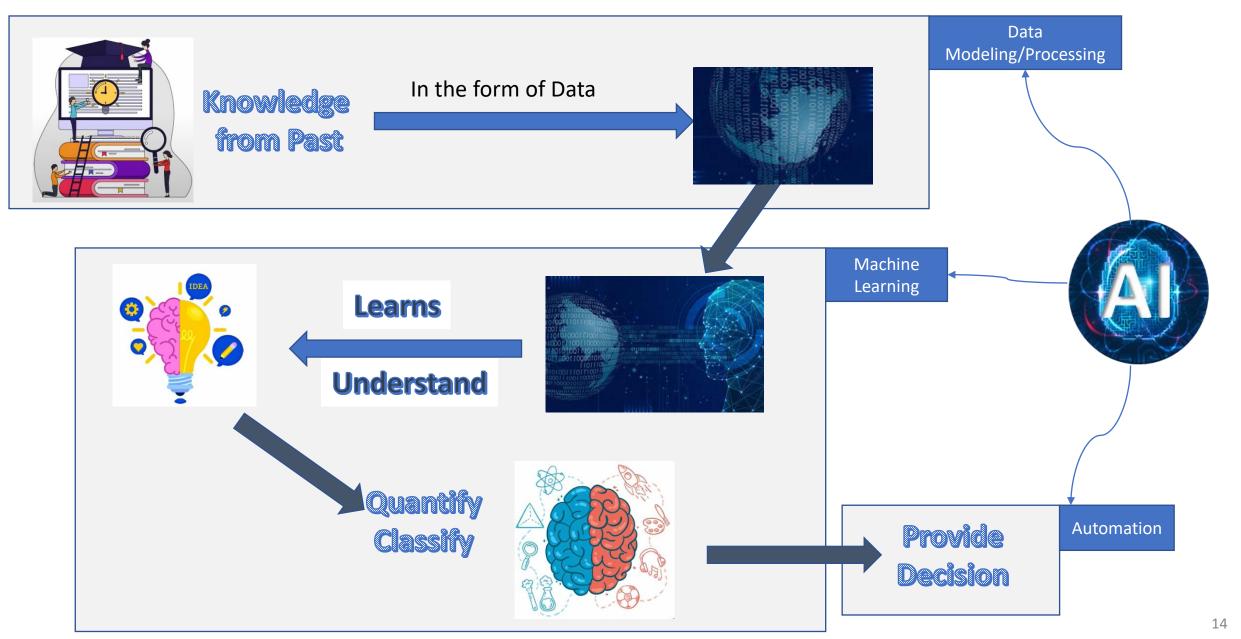


Intelligence

Understand



How Al Works!!

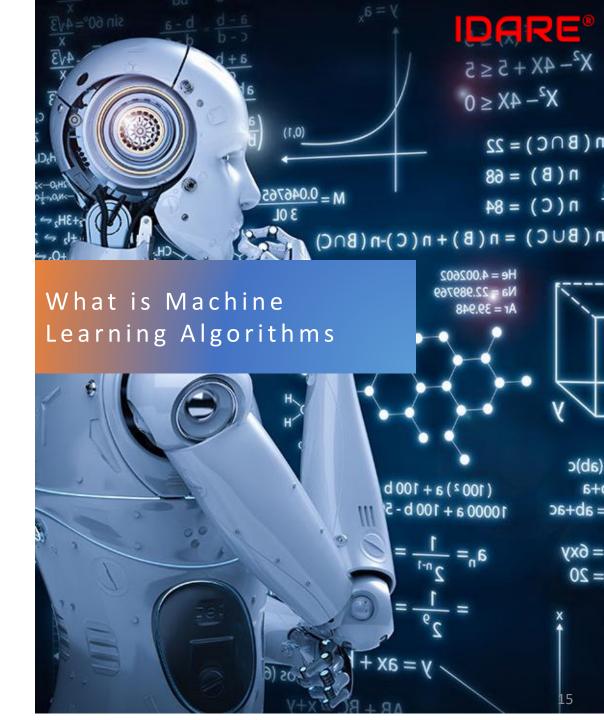


Artificial Intelligence

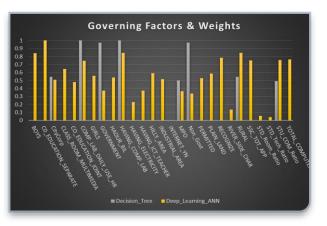
is a process of creating intelligence for decision making by extracting knowledge from history, where learning is done by machine instead of human

MACHINE LEARNING (Part of AI)

ARE MATHEMATICAL ALGORITHMS
THAT HELPS LEARNING FROM
HISTORY, EXTRACT KNOWLEDGE
THEN EITHER CLASSIFIES OR
QUANTIFIES



Machine Learnings are Mathematical Algorithm that works like Human thinking process Can do following.



Variable Importance/ Feature Importance

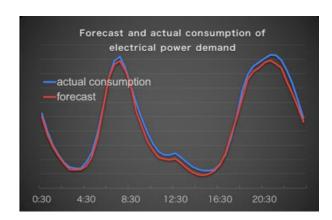
Identify important reasons/factors

Low pass rate, high power demand, disease progression

Classification

Classify or Categorization of Elements

Classifies or identifies behaviors, products, people etc. that are similar



Quantification or Regression

Predicts Number Or Forecasting

Demands, life-deaths, probability, performance

Pattern Recognition (Classification)

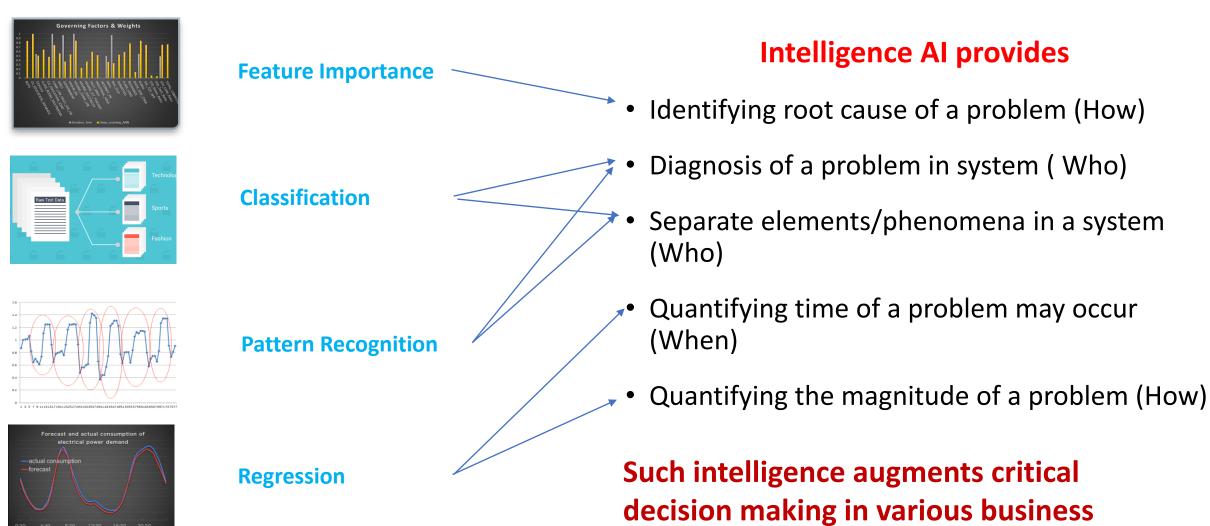
Recognizes from patterns from signal, images, videos or voices

Can detect anomaly in a signal or detect different patterns, Can recognize an object from image/video/voices





Machine Learnings are Mathematical Algorithm that works like Human thinking process





Information

Machine

Learning

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Summary: Al augments decision making process

