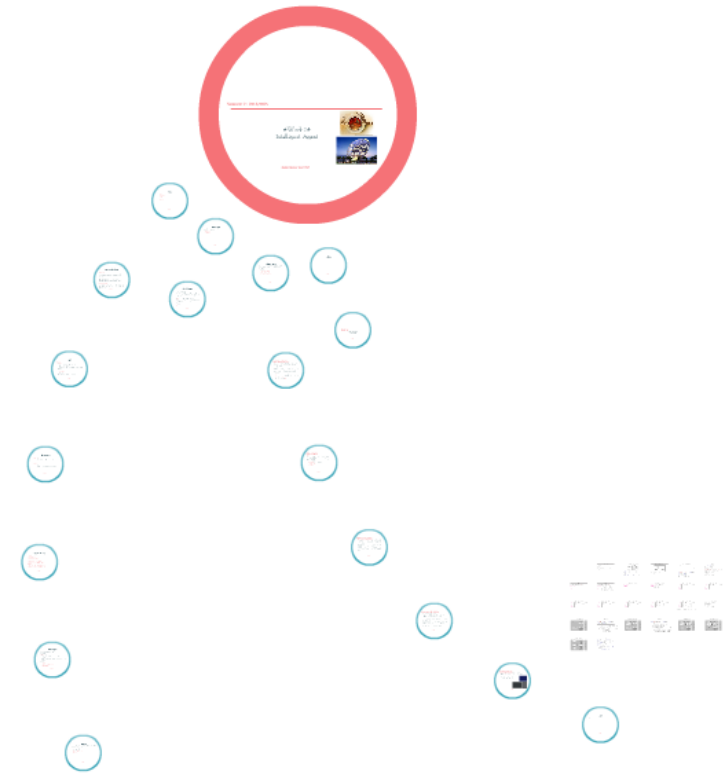
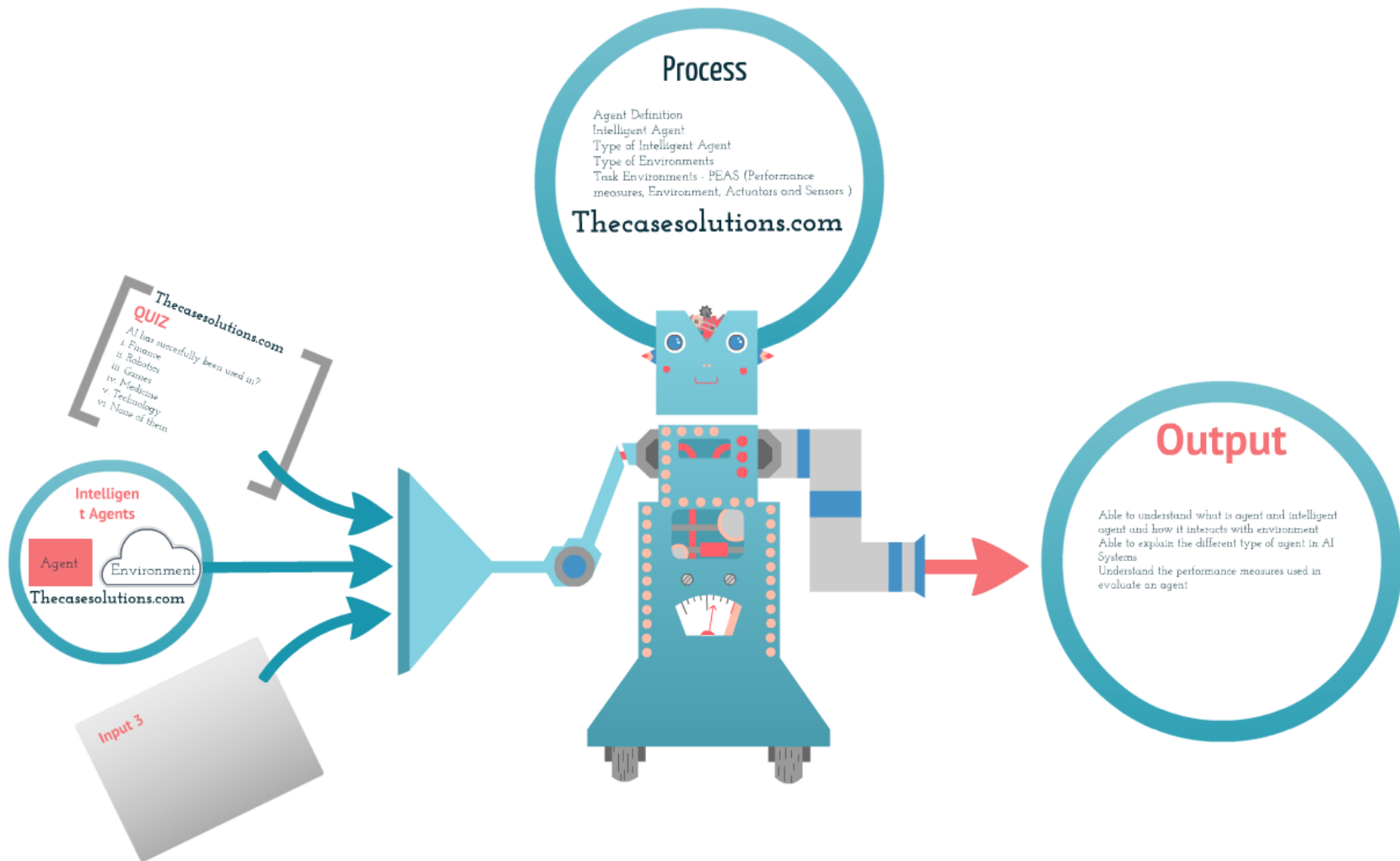


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Ockham Technologies (A): Building the Team





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QUIZ

AI has successfully been used in?

- i. Finance
- ii. Robotics
- iii. Games
- iv. Medicine
- v. Technology
- vi. None of them

Intelligent Agents



The diagram features a large teal circle that frames the central content. Inside this circle, on the left, is a solid red square. To its right is a white cloud shape with a dark grey outline. A horizontal teal line extends from the right side of the cloud, passing through the circle's boundary. At the bottom of the circle, the website address 'Thecasesolutions.com' is written in a dark teal, serif font.

Agent

Environment

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Process

Agent Definition

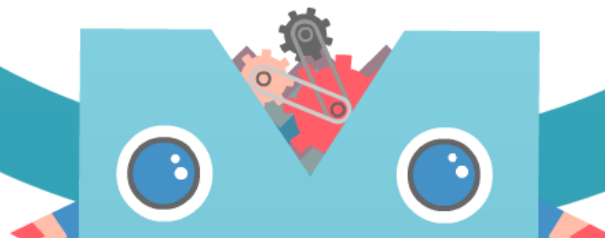
Intelligent Agent

Type of Intelligent Agent

Type of Environments

Task Environments - PEAS (Performance measures, Environment, Actuators and Sensors)

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OUTPUT

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Able to understand what is agent and intelligent agent and how it operates with the environment

Able to understand the different type of agent in AI systems

Understand the performance measures used in evaluate an agent

Abdul Rahman Mat, FCSIT

Agent & Intelligent Agent

What is an Agent?

Is an entity that can be viewed as perceiving its environment through sensors and acting upon its environment through effectors [Russel & Norvig, 1995]

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What is Intelligence Agents?

Are software entities that carry out some set of operations on behalf of a user or another program with some degree of independence or autonomy, and in doing so, employ some knowledge or representation of the user's goals or desires [IBM White Paper, 1995]

Abdul Rahman Mat, FCSIT

Agent

Example:

i. Travel Agency

Task: Booking a flight ticket & facilities in order to go for vacation oversea.

Initial goal: Go for Umrah, Mekah, Saudi Arabia

Act independently, booking everything (flight to-fro, hotel, transportation, etc) - need to communicate with other agent & recommend anything (related Umrah's tasks) where appropriate

ii. Agent for do shopping

Goal: Buy some carrots

Act independently, communicate with other agents, modify what it is doing in response to what it sees and hears

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Intelligent Agent

Software Agents

Operate within the confines of the computer / computer network.

Physical Agents

i.e. robots

Operate in the physical world & can perceive & manipulate objects.

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