

Considering Cognitive Robotics?

Make Cognitive Robotics really work in your business.



THE CHALLENGE

Most organisations data is disorganised, unreadable and unstructured, which does not lend itself to Robotic Process Automation.

Cognitive Robotics will lever unstructured data & make it work by collating, extracting and classifying data ahead of structuring it into something useful. The process will continuously improve via various learning techniques.

OUR PROPOSITION

Stonefield will help you get **bankable results** out of your RPA journey using Cognitive Robotics

We will :

- A) Get you confident in using Cognitive Robotic tools
- B) Show you real results in 2-3 days in your own environment
- C) Design, implement and support your solution

1

STRUCTURED DATA:

Data structured into typically a data or formattable repository base that enables analysis

2

UNSTRUCTURED DATA:

Not organised in a pre-defined manner, in many forms. Often text or image heavy.

3

MACHINE LEARNING:

Performance of computer driven tasks by means of inference and patterns without specific instruction. Subset of AI.

4

STRAIGHT THROUGH PROCESSING:

Task completed end-end without human intervention. Coined by financial services industry.

5

NATURAL LANGUAGE PROCESSING:

Field of study to help computers process, analyse and interpret human language.

6

CONVOLUTED NEURAL NETWORKS:

Helps visualise and explain/classify images

7

GEOMETRIC HASHING:

An algorithm to assist with pattern recognition

8

PROOF OF CONCEPT:

Demonstration of a method to test its feasibility



KEY TERMS YOU NEED TO KNOW

WHY COGNITIVE RPA?

▲ It makes traditional RPA so much more effective

▲ Real Straight Through Processing (STP) rates are significantly improved

▲ Manually structuring unstructured data is typically time consuming & error prone— great place to drive efficiencies

▲ AI helps drive continuous improvement!

▲ Helps to drive efficiency across geographies using language recognition



THE 3 STEP APPROACH TO COGNITIVE ROBOTICS



- 1) **LEARNING ENVIRONMENT SET UP**
- 2) **BUILDING AND TRAINING OF BOTS**
- 3) **DEPLOYMENT TO PRODUCTION**

RPA STATS

- Spend expected to reach \$4b by 2021
- Near universal adoption estimated within 5 years - 53% of organisations embarked on the RPA journey
- 20% of FTE generated by Bots
- Payback period within 12months

PROCESSES THAT LEND THEMSELVES TO COGNITIVE RPA

- In short- manual & repetitive processes
- Processes based around stable legacy systems with low exception rates
- Data transformation, Data collection and population from unreadable formats (PRD, TIF, JPG)
- Finance processes across business units
- Reporting
- Underwriting and Claims in insurance companies

CAVEAT EMPTOR– WHERE IT DOES GO WRONG & WHY

- **Speed to implement** is too slow> poor methodology drives implementation
- **Scaling disappoints**> wrong processes selected
- **Lack of IT support**
- People are **not redeployed** to capture efficiency gained
- **Process standardisation issues**
- **Poor logic development**
- **Lack of post implementation support**

WHAT IT DOES WITH YOUR UNSTRUCTURED DATA?



- 1) **RECOGNISES**– using computer vision
- 2) **UNDERSTANDS & CLASSIFIES**- natural language processing
- 3) **ENRICHES**– fuzzy logic etc
- 4) **ORGANISES & STRUCTURES**

WHY COGNITIVE ROBOTICS BEATS OCR



STP RATES ARE JUST SO MUCH HIGHER! DRIVEN BY THE LACK OF LEARNING CAPABILITY IN OCR TOOLS.

- 1) **BASIC OCR: 0% STP**
- 2) **INTELLIGENT OCR: <30%**
- 3) **COGNITIVE ROBOTICS WITH IQ BOT: >60%**



Contact Stonefield to find out more about making Cognitive Robotics work in your business