

22ND GCCA EUROPEAN COLD CHAIN CONFERENCE 20-22 MARCH 2019 | BRUSSELS

Artificial Intelligence – A Myth, or Reality in Temperature-Controlled Logistics ? *Kevin Françoisse, CEO, Sagacify*

Presented by

ALLIANCE®

Al is the new electricity It is changing our society

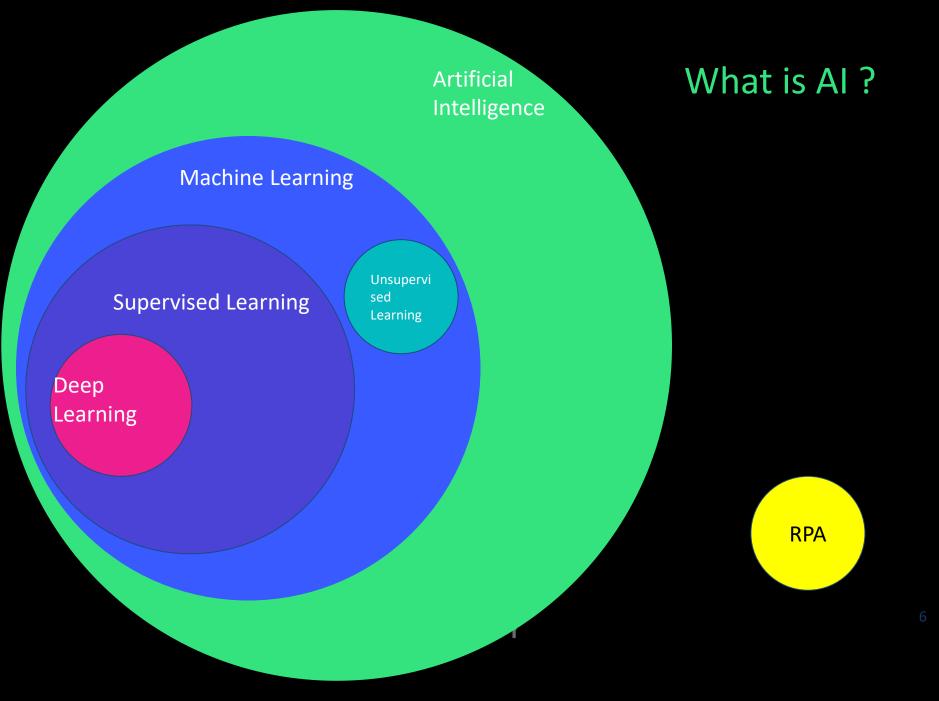


















"orange"

"apple"

"banana"



Can you write a computer

program that does that ?









"apple"

"orange"

"banana"

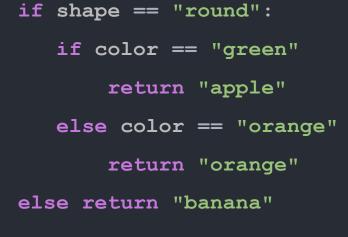
"apple"











"apple"

"orange"

"banana"

"banana"















SAGACIFY

"apple"

"orange"

"banana"

"banana"

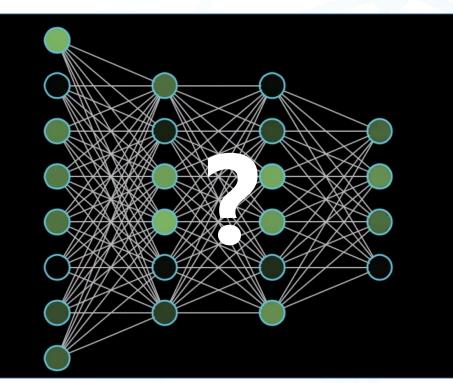












SAGACIFY

"apple"

"orange"

"banana"

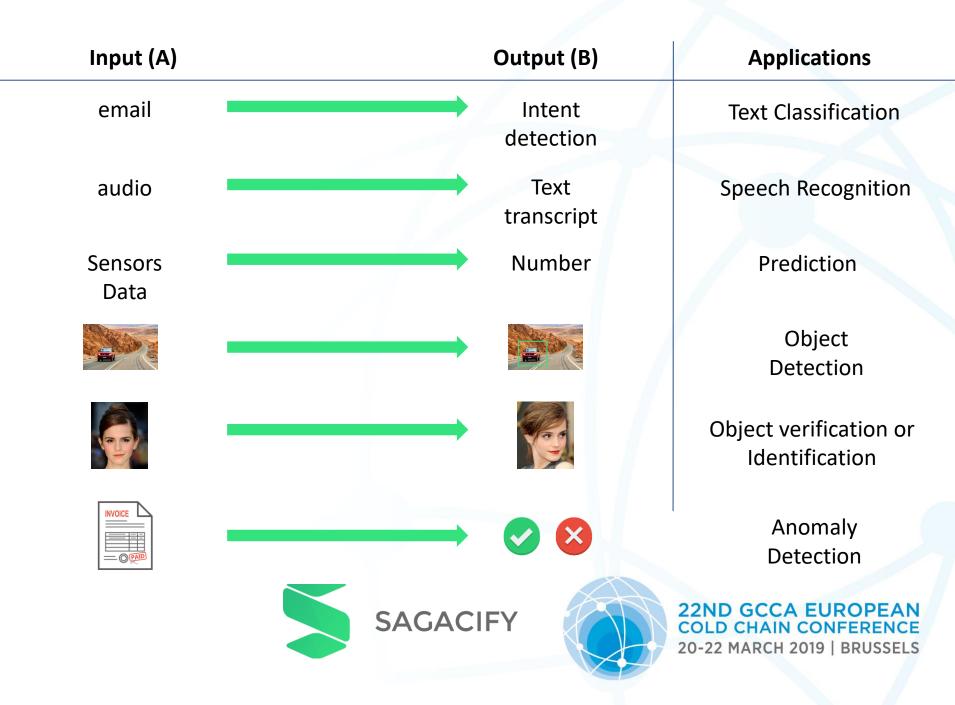
"consie"



What can AI do or cannot do ?







Anything you can do with 1 second of thought, can probably be automated today

Think about automating tasks rather than automating jobs!

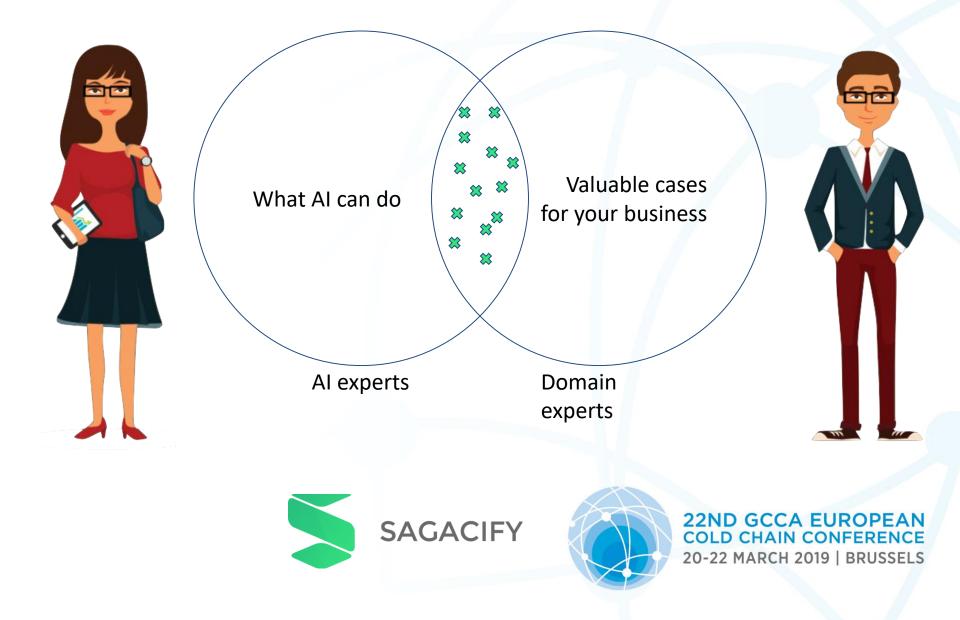


the most time consuming ones



Tasks that no longer required human level cognition

Cross-functional team



Brainstorming Framework

- Think about automating tasks rather than jobs!
- What are the main drivers of business value?
- What are the main pain points in your business ?
- How much data is needed ? Is my data clean ? Are we mature in terms of data ?



Potential AI application for the Cold Chain Logistic industry

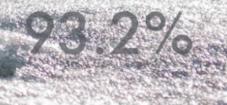




Object Detection



Heineken



Visual Inspection Quality Control



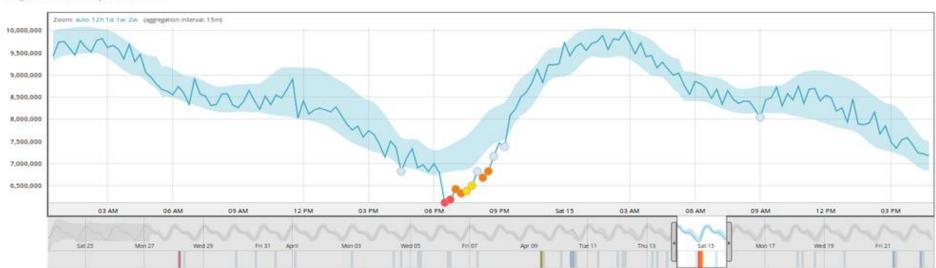
Industrial Process Optimisation Using Reinforcement Learning

Anomaly Detection from Sensor data

- [

Detector: non_null_sum(total)

Single time series analysis of sum total



Anomalies

Severity threshold: 🔺 warning + Interva	at Auto -						
time =	max severity =	detector 0	actual n	typical 0	description =	job ID =	
 April 14th 2017, 18:00 	A 90	non_nuil_sum(total)	6121070	7074770	↓ 1.2 x lower	total_requests	
 April 14th 2017, 19:00 	ao 🔒	non_null_sum(total)	6331620	7206080	+ 1.1x lower	total_requests	
 April 14th 2017, 20300 	<u>A</u> 52	non_null_sum(total)	6681540	7702430	+ 1.2x tower	total_requests	
 April 14th 2017, 21:00 	<u></u> ▲<1	non_null_sum(total)	7377020	8029500	+1.1x lower	total_requests	
 April 15th 2017, 09:00 	▲ <1	non_null_sum(total)	8040300	8446230	↓ 1.1 × lower	total_requests	
 April 14th 2017, 16:00 	<u>▲</u> <1	non_null_sum(total)	6824380	7210790	+ 1.1 x lower	total_requests	





Container Optimisation



Predictive Maintenance

4

0

IJ

0

XX-XX-XXXX

XX:XX

WW25D76

Customer

Status

Scale

World

Work

MAX

Temp Min Temp Max

Temp Ambient

-

Invoice 00567 **Financial Fraud Detection** 123 Customer ID: D Invoice Number: Jan15, 2015 Reference Number: Line Total Date: \$230.0 Quantity \$320 Unit Price - AC 00

Possibilities are endless

Let us help you predict your next success





