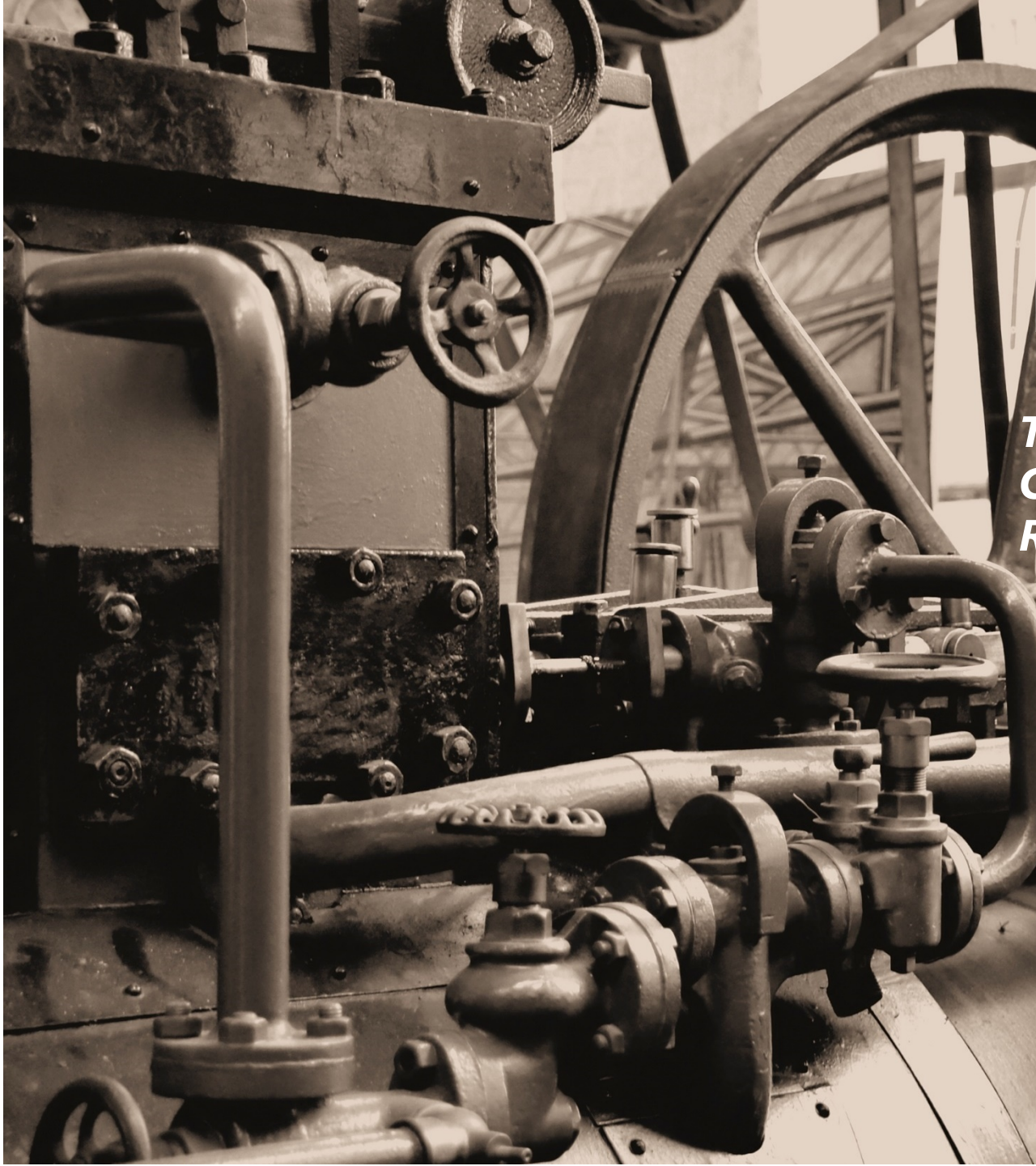


# Treasury in a Digital World

## Carl Sharman





***DIGITAL IS AN  
ERA***

# Digital

***THIS IS LARGEST ECONOMIC  
CHANGE SINCE THE INDUSTRIAL  
REVOLUTION***



## THE CHANGING FACE OF FINANCIAL MARKETS

1955

1965

1975

1985

1995

2005

2016

2026

89%

OF **FORTUNE 500** COMPANIES  
FROM 1955 ARE NOT ON THE  
LIST IN **2016**

IN THE NEXT 10  
YEARS

40%

OF THE FORTUNE 500  
COMPANIES WILL  
BE GONE



# WE LIVE IN TIMES OF UNPRECEDENTED CHANGE AND OPPORTUNITY...

## Technology is everywhere



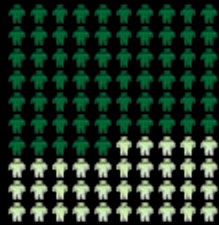
2.6 billion+

smartphones in the world

## Completely new jobs

65 %

of today's primary school children will work in jobs that don't yet exist



## Diversity & Generational Change



25%

global population from Africa by 2050

## Jobs vulnerable to Automation

35% UK

47% US

77% China



## Tsunami of data



9X more

In the last two years

## AI, Cognitive Computing, Robotics

\$500,000 in 2008

\$22,000 today



## Change in nature of a career



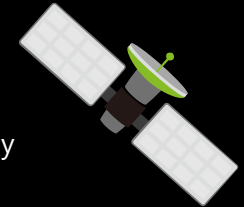
2.5-5

years half-life of skills

## Diverse Workforce

3 in 4

Millennials will make up half of all workers by 2020, and By 2025 they will comprise 75% of the global workforce



## Explosion in Contingent Work

40%

US contingent workers by 2020

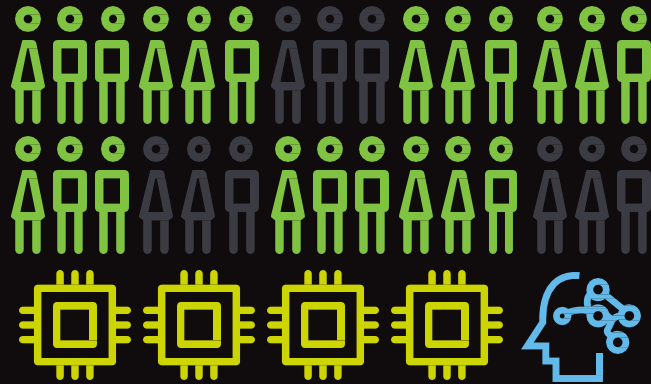


# *...AND THE NATURE OF THE WORKFORCE IS EVOLVING*

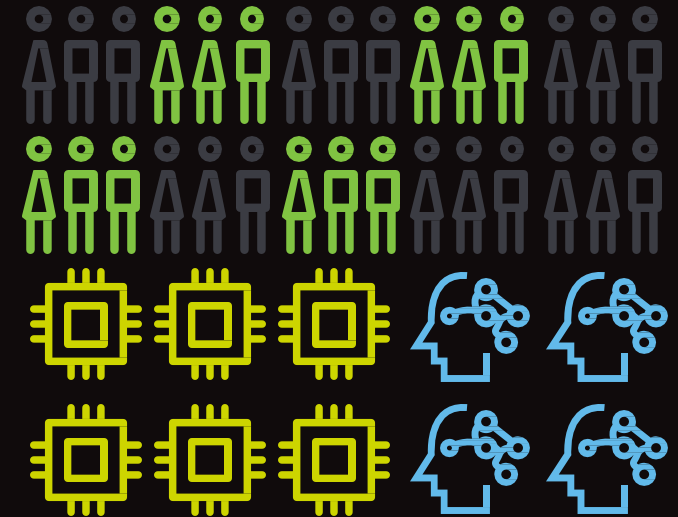
2017



2020



**FUTURE**



 Humans

 RPA

 AI

The background is a dark blue to black gradient, featuring a complex pattern of glowing blue lines and dots. These lines are wavy and flow across the frame, with many small, bright blue dots scattered along them, creating a sense of digital connectivity or data flow.

# Digital

WEAVES THROUGH EVERYTHING WE DO

**DIGITAL AS A  
DISRUPTOR**

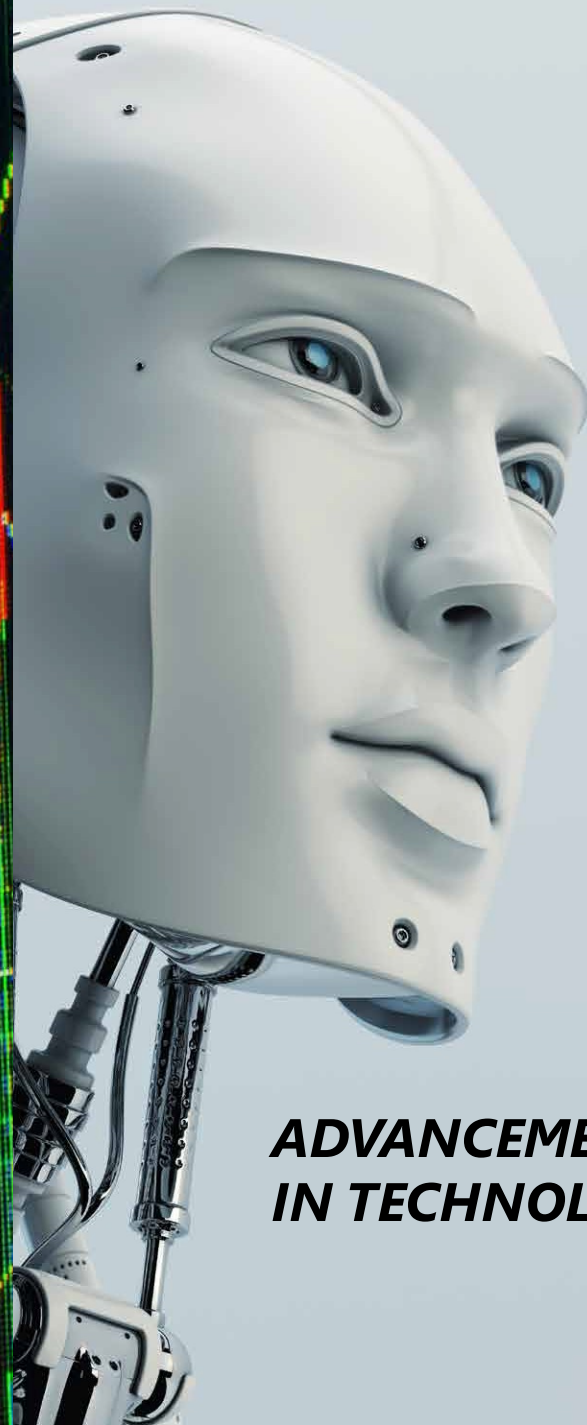


**FINANCE ORGANISATIONS HAVE LOTS  
EXPERIENCE IN DEALING WITH  
BUT DIGITAL REPRESENTS **OPPORTUNITIES**  
AND **CHALLENGES** WE HAVEN'T  
EXPERIENCED BEFORE. BASICALLY, WE NEED  
TO PREPARE OURSELVES TO MEET THE  
**DEMANDS** OF A  
BUSINESS WE **HAVEN'T EVEN SEEN YET** GROUP CFO, FORTUNE 100 **



***WHY IS DIGITAL  
IMPACTING TREASURY?***

***DATA, DATA, DATA***



***ADVANCEMENTS  
IN TECHNOLOGY***



***CHANGING BUSINESS  
MODELS***



# ENABLING TECHNOLOGIES

PROCESS ROBOTICS

CLOUD

VISUALISATION

HERE NOW...

EXPONENTIALS

...

ADVANCED  
ANALYTICS

BLOCKCHAIN

COGNITIVE  
COMPUTING

IN-MEMORY  
COMPUTING

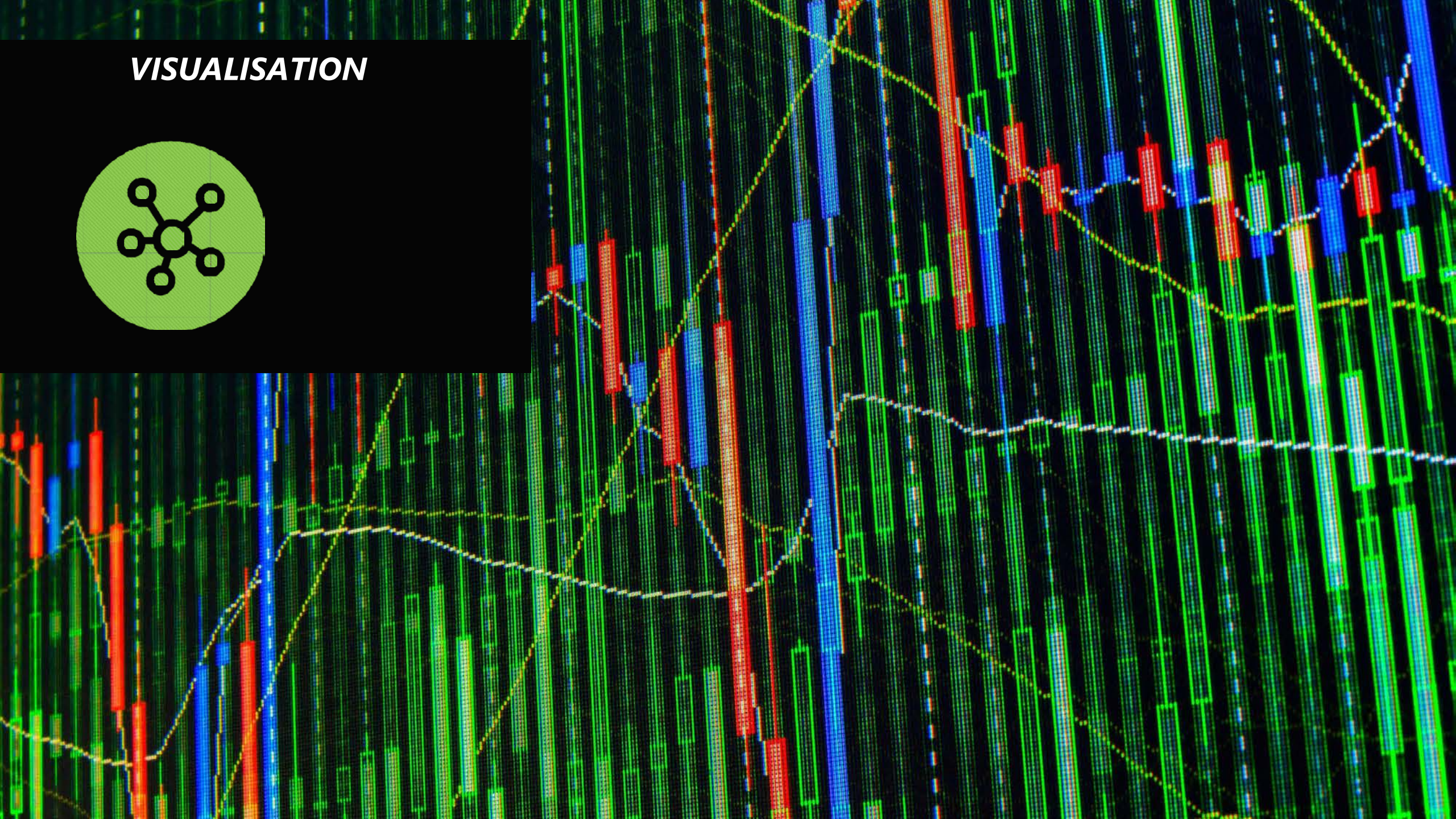


**CLOU  
D**



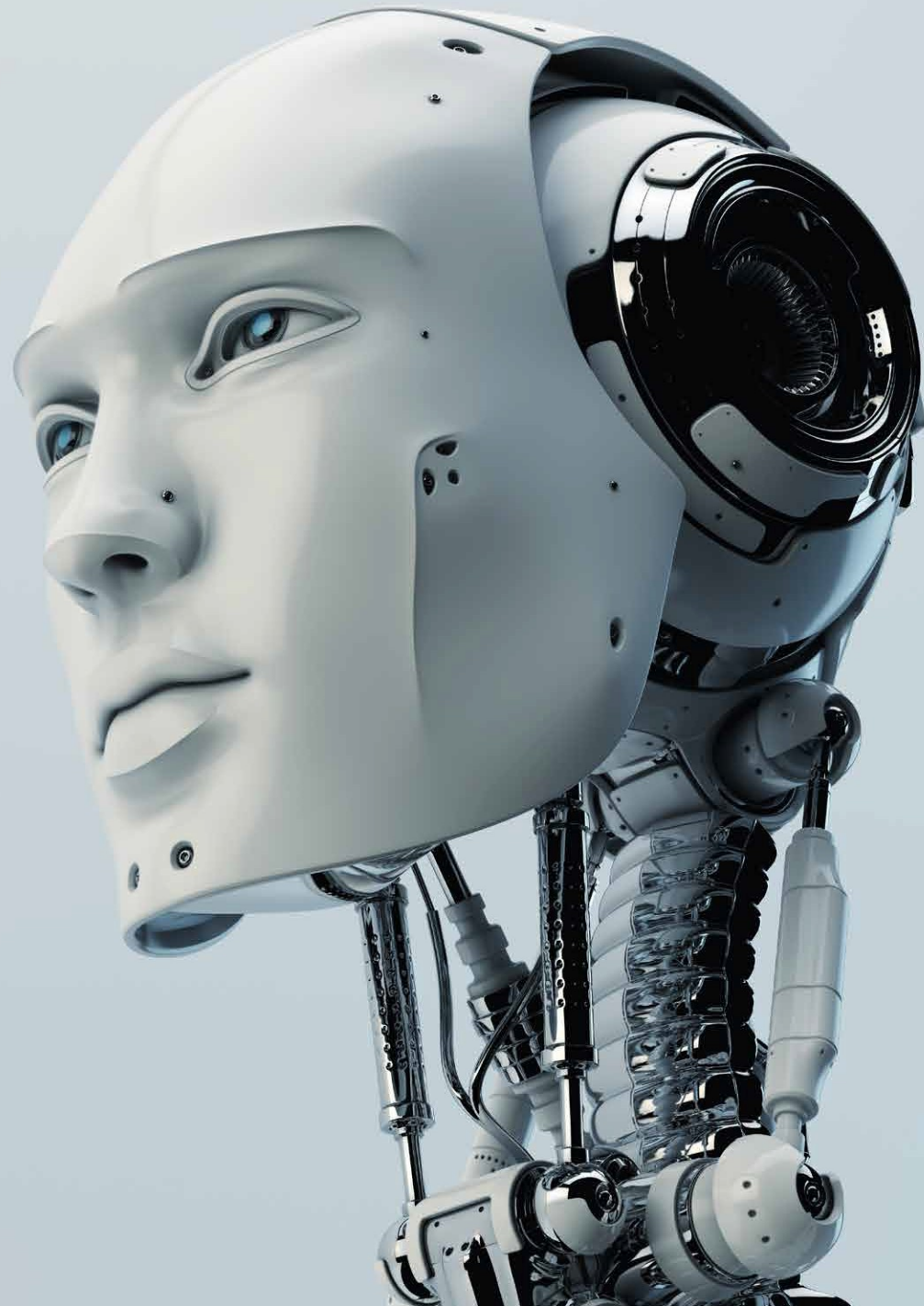


# ***VISUALISATION***





# **PROCESS ROBOTICS**

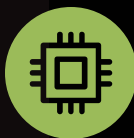


# EXPONENTIAL TECHNOLOGIES



> 10 years

Quantum computing



Virtual Reality / Augmented Reality



Blockchain smart Contracts



Sensors & The Internet of Things



Commercial drones



3D printing  
Additive manufacturing



Past 20 years

Social media & Digital platforms



Cloud computing



Enterprise systems



Human augmentation  
Brain-computer interfaces



Social robotics



Conversational Computing  
Virtual Assistance



Artificial Intelligence  
Cognitive Computing



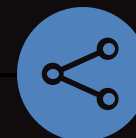
Driverless vehicles  
Autonomous things



Algorithmic automation



Big Data analytics



Mobile endpoint devices  
and Apps



Internet





## **COGNITIVE COMPUTING**



## **ADVANCED ANALYTICS**

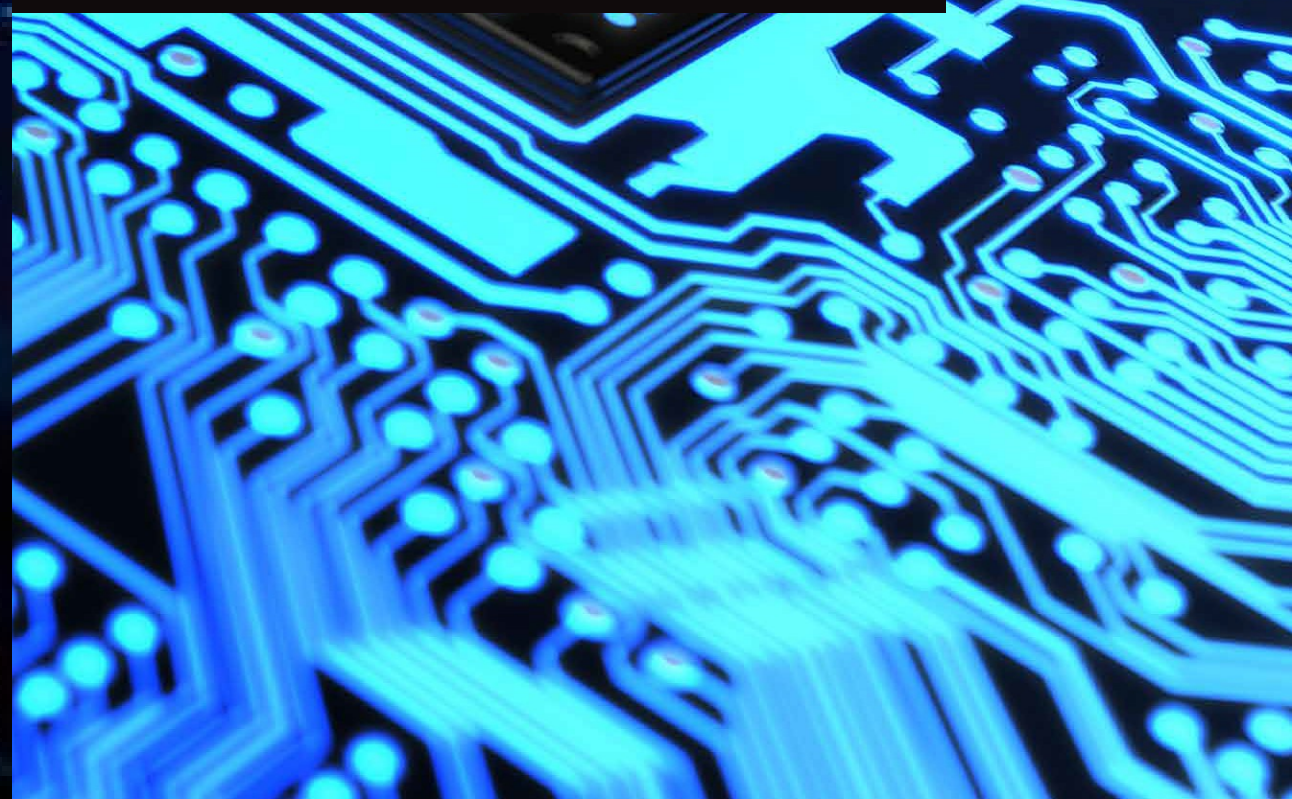




# BLOCKCHAIN



# IN-MEMORY COMPUTING





***COMPANIES TRY DIFFERENT APPROACHES TO BECOME  
DIGITAL***

***THESE DON'T WORK***


***DECLARE DIGITAL SUCCESS***



***ULTIMATELY, CFOS WILL NEED TO ADDRESS 2 KEY  
QUESTIONS***



***HOW CAN I  
HELP THE  
BUSINESS  
RESPOND IN  
A DIGITAL  
ERA?***



***HOW DO I  
DIGITISE MY  
TREASURY  
FUNCTION?***



# ***DIGITAL TREASURY***



**07:30 AM**

**THE NATURAL LANGUAGE GENERATOR  
ADDS IN NARRATIVES TO THE DASHBOARD**

**07:00 AM**

**THE DATA FROM THE ANALYTICS ENGINE IS STAGED ON A  
VISUALIZATION OR BI SERVER AND DASHBOARDS ARE  
REFRESHED**

**06:00 AM**

**AN AUTOMATED ROBOT BEGINS POPULATING THE NET CASH  
POSITION, FORECAST, FUNDING NEEDS AND INVESTMENT  
OPPORTUNITIES TO ITS ANALYTICS ENGINE**

# DIGITAL TREASURY

**08:00 AM**

THE TREASURER HAS ACCESS  
TO UPDATED REPORTS AND  
NARRATIVES AS SOON AS  
HE/SHE ARRIVES IN THE OFFICE

**08:10 AM**

THE TREASURER  
INTERACTS WITH THE  
CHATBOT IN NATURAL  
LANGUAGE TO DRILL  
INTO FUNDING,  
INVESTMENT AND  
HEDGING NEEDS

**08:15 AM**

THE TREASURER MAKES  
DECISIONS, TRADES  
ARE AUTOMATICALLY  
EXECUTED BASED ON  
POSITION IMPACT,  
LEGAL ENTITY/TAX  
STRUCTURES AND  
MARKET CONDITIONS



**ALL TECHNOLOGIES  
REQUIRED TO  
REALISE THIS VISION  
EXIST TODAY**

# ***THE IMPACT OF DIGITAL TRANSFORMATION***

***SPEED INCREASE***

***COST  
REDUCTION***

***QUALIT  
Y***

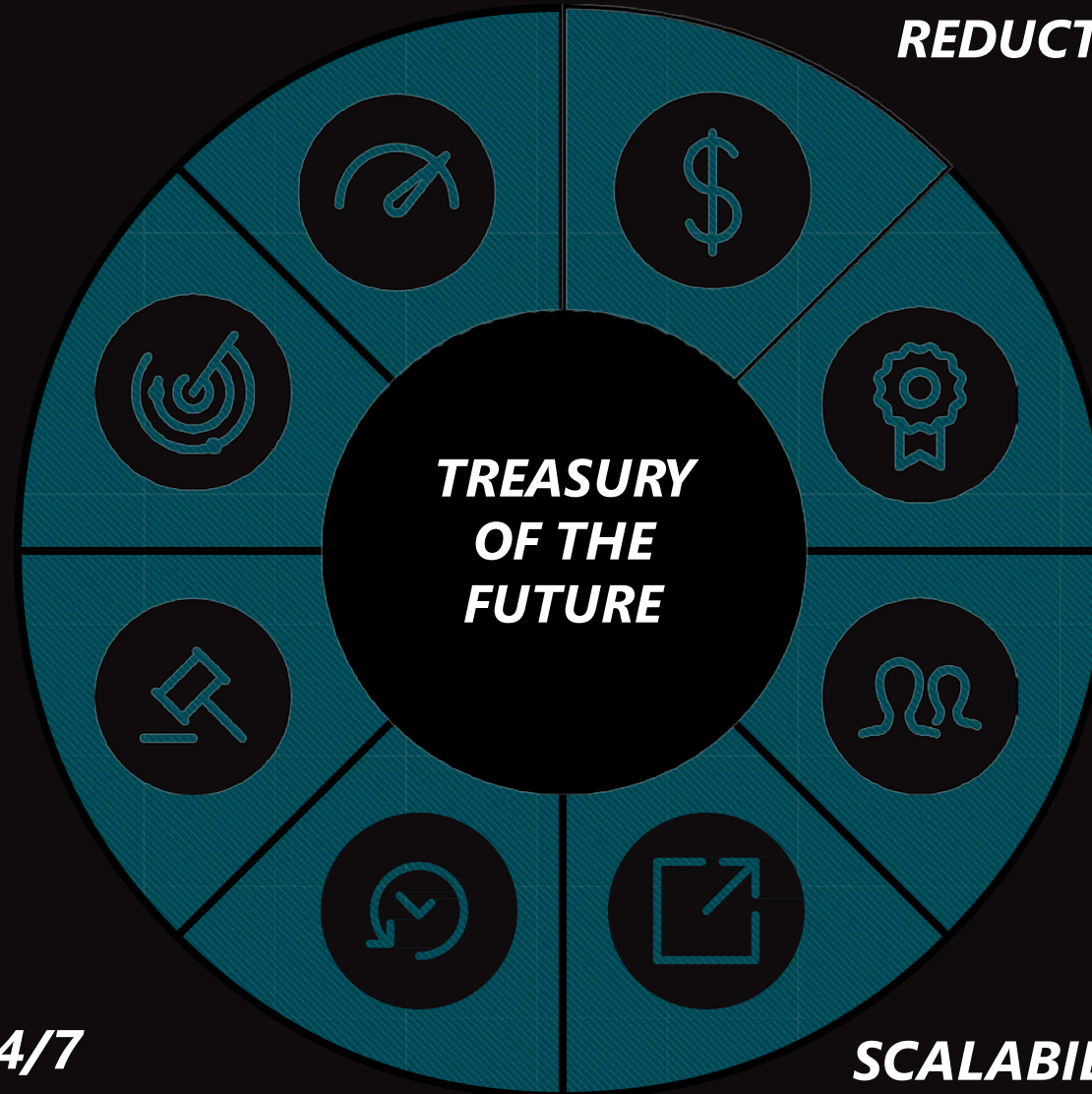
***EMPLOYEE  
ENGAGEMENT***

***SCALABILIT  
Y***

***24/7  
OPERATION  
S***

***INTERNAL  
CONTROL***

***DECISION  
MAKING***





## ***PROVING THE CASE BUILDS MOMENTUM***

