

STANE PREMING RESILIENCE

SHANE BRENNAN, CHIEF EXECUTIVE 22<sup>ND</sup> AUGUST 2023

# **'TWO HATS'**









# WHAT I WILL COVER



THE COLD CHAIN FEDERATION

COLD CHAIN THROUGH CRISIS 2017-2022

**LEGACY** 

THE CRISES TO COME

**WHAT NEXT?** 

**QUESTIONS** 



# THE COLD CHAIN FEDERATION

















Lineage\*











**260 COMPANIES REPRESENTED** 















**500+ FACILITIES** 















>40 MILLION M<sup>3</sup> **STORAGE** 











































**SEAFAST** 





LANGDONS







HAULAGE





























# A CLEAR IDENTITY



THE NATIONAL COLD STORAGE FEDERATION







1911 1950s 2000s 2019



### WHAT WE DO







- EFFECTING CHANGE
- KEEPING MEMBERS INFORMED





NEW EVENTS

- EXPERT GROUPS
- REINVIGORATED COMMUNICATIONS

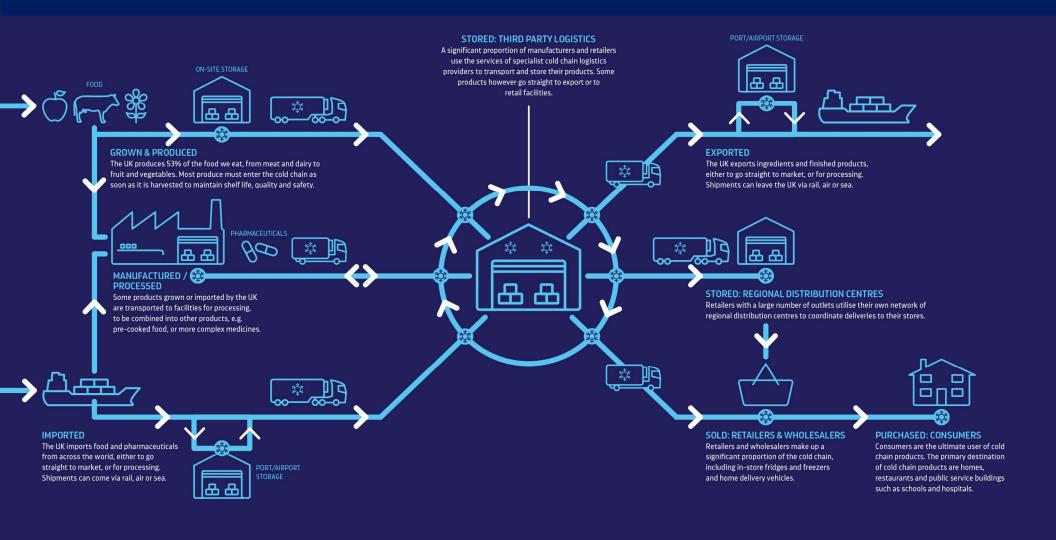


**NETWORKING** 



- ASSURED ADVICE
- TERMS AND CONDITIONS
- CLIMATE CHANGE AGREEMENT





# RIGHT VOICE, RIGHT TIME





#### Can cold chain survive global warming?

The UK's cold chain is vital to our food network: some 70% of our food enters it. But refrigeration is energy-intensive. Can the chain become sustainable

Brexit disruption

Parcel company DPD suspends road deliveries to Europe

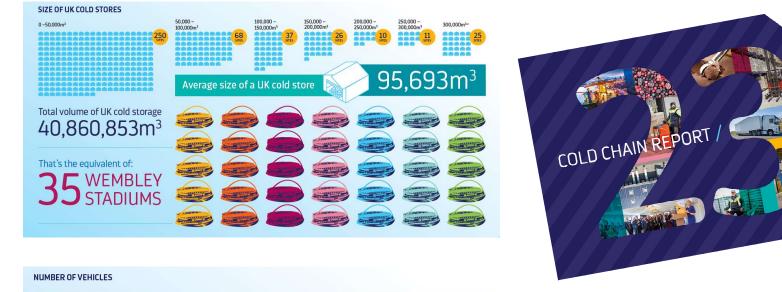
All arrivals to the UK will soon need to provide a negative Covid test



# **UK COLD STORAGE**



# COLD CHAIN IN THE UK - COLD STORES

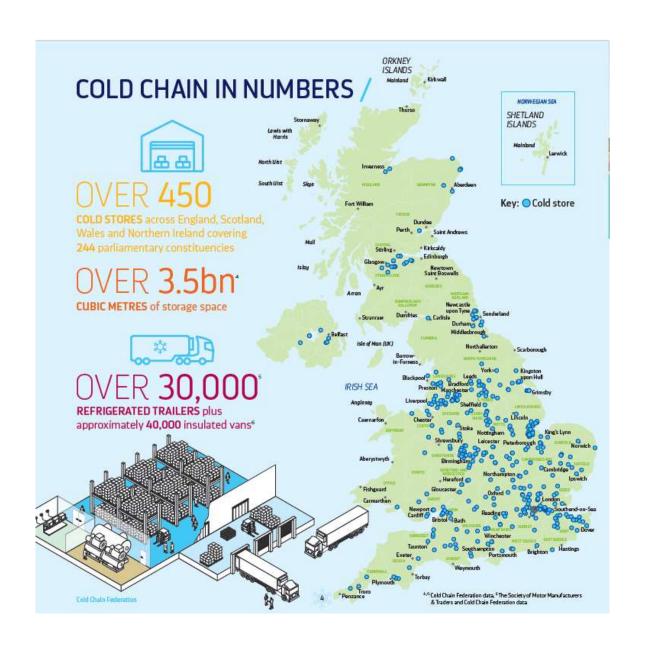








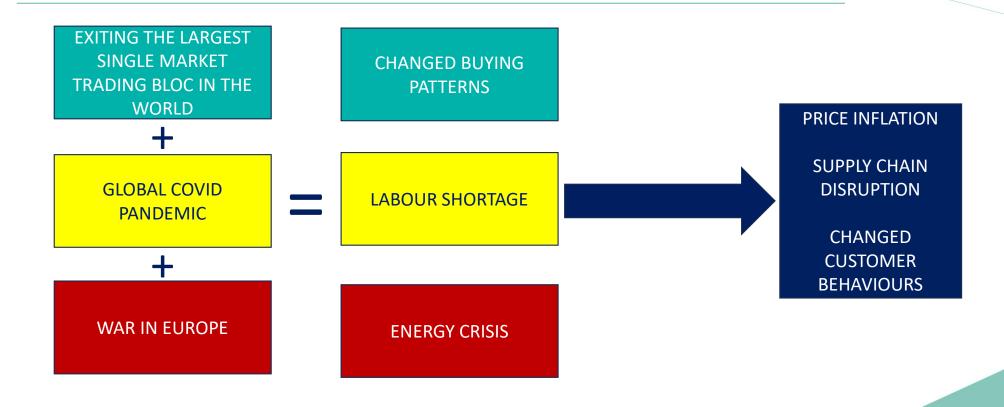




# COLD CHAIN THROUGH CRISIS



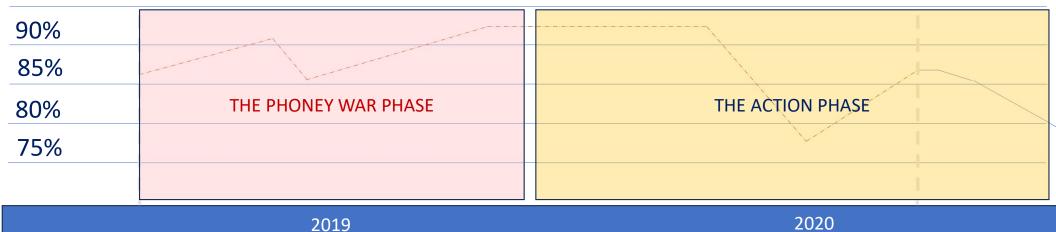








### THE CRISIS YEARS – AND FROZEN FOOD STOCKING



March 2017 UK starts formal process of exiting





Jan-Mar 2019 UK deadlock over withdrawal agreement take 1

Change of PM July – Dec 2019 UK deadlock over withdrawal agreement take 2

> Jan 2020 Reports coming in about a new coronavirus variant in Wuhan

Mar 2020 UK PM announces first ever national Jul 2020 Partial reopening Oct 2020 UK PM announces second national lockdown Dec 2020 Partial reopening for Christmas

Dec 2020

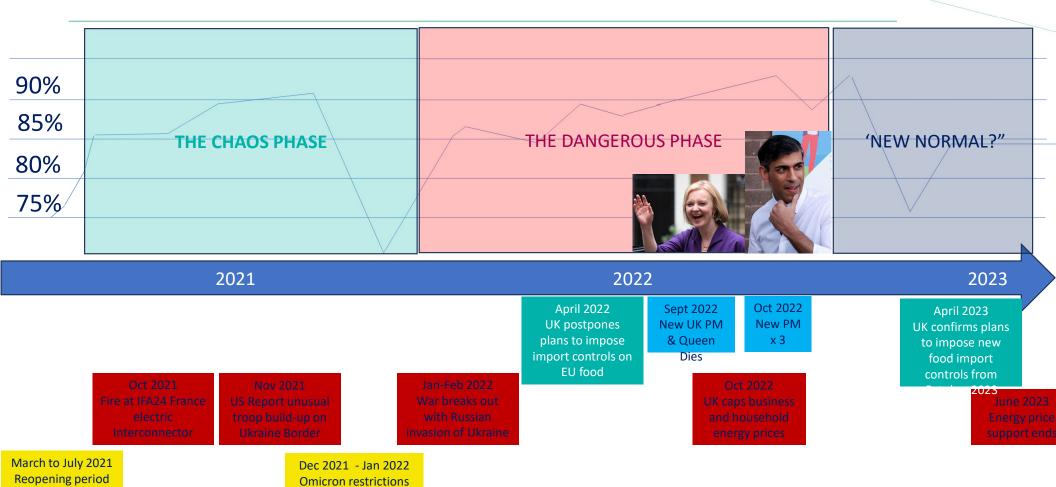
Brinkmanship over

UK/EU Free Trade

Agreement



## THE CRISIS YEARS – AND FROZEN FOOD STOCKING





# **COLD CHAIN'S MOMENT**

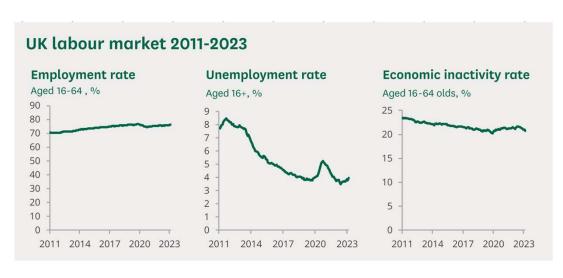


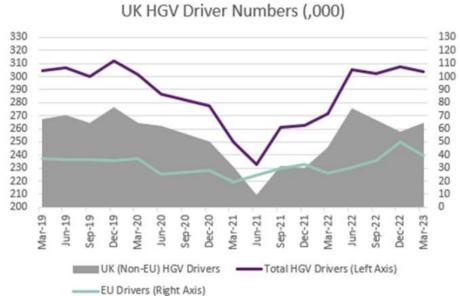


# LEGACY

### **LABOUR**





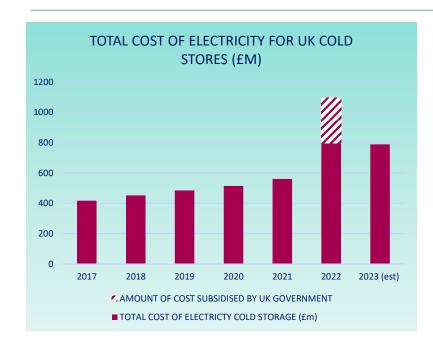


### **OUT OF THE WOODS?**









WHOLESALE ENERGY COSTS INCREASED BY 89% BETWEEN 2017 AND 2022



UK GOVERNMENT STEPPED IN IN OCT 2022 TO CAP ENERGY COSTS FOR BUSINESSES AND CONSUMERS

MAJOR STEP IN INVESTMENT IN RENEWABLES (MAINLY SOLAR)





SIGNIFICANT IMPROVEMENT IN ENERGY EFFICIENCY PERFORMANCE

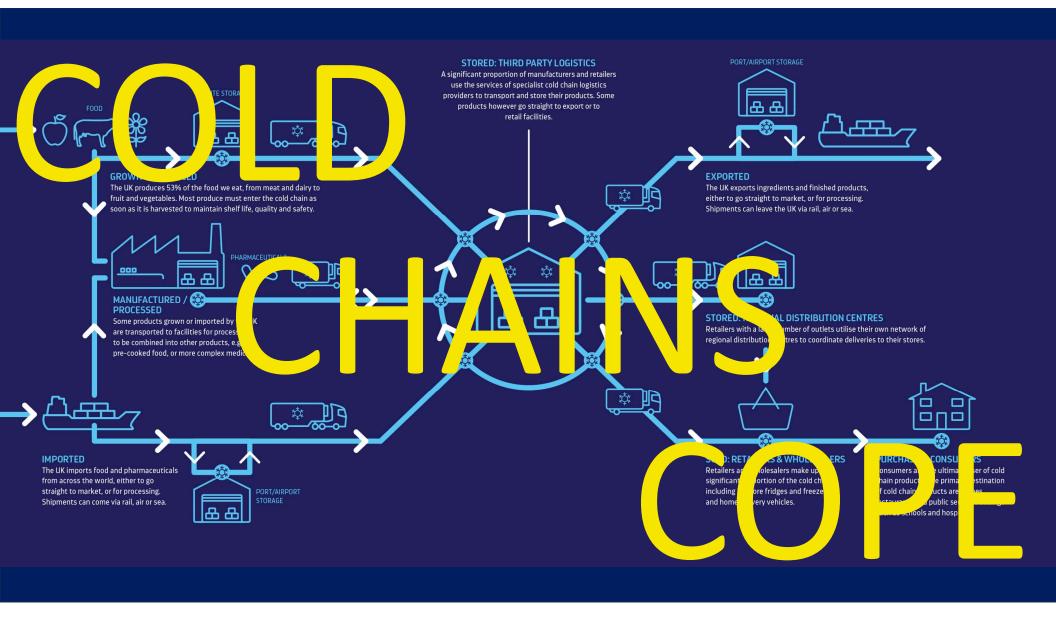






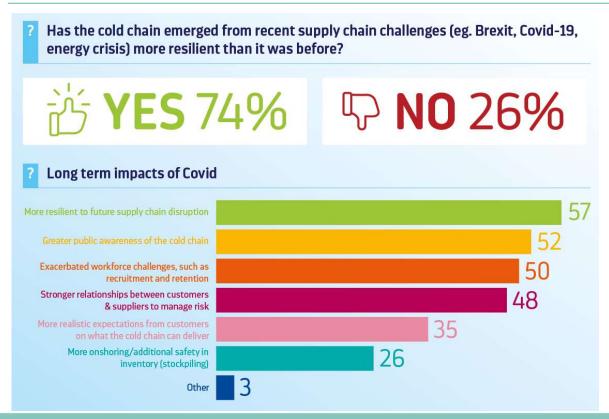


# WHAT HAVE WE LEARNT?



# HOW HAVE WE EMRGED FROM THE CRISIS YEARS?









# **COLLABORATION IS POSSIBLE**

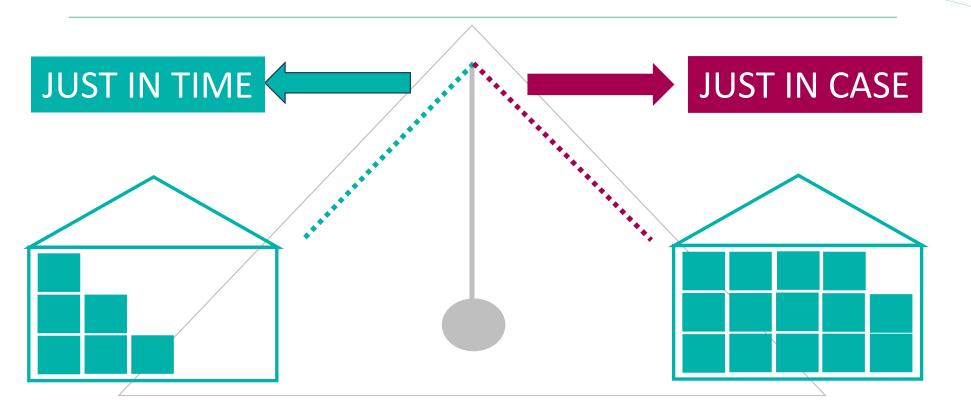


GOVERNMENT **KEY WORKER STATUS COVID BUSINESS ENERGY PRICE AND INTERRUPTION LOANS GUARANTEE FURLOUGH** COLLABORATION INDUSTRY **RE-PRIORITISATION OF INTERCOMPETITOR ENGAGEMENT WITH** PROBLEM SOLVING **NEEDS SUPPLIERS** 















ASDA		Morrisons		Ocado		Sainsbury's		TESCO		WAITROSE & PARTNERS	
TOTAL RANGE (average 10.8% decline)											
20135	-22.9%	19652	-6.20%	34103	-8.50%	25171	-14.50%	22558	-6.20%	15653	-6.50%





## **OUR LABOUR MARKET IS FRAGILE**





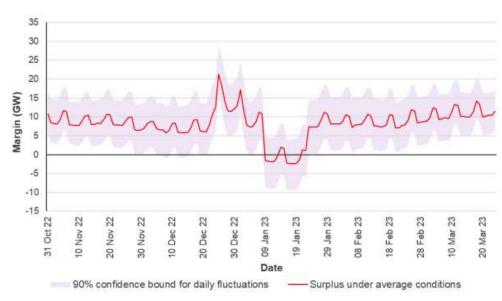


INVEST IN ALTERNATIVES
TO HUMAN LABOUR



# THE LIGHTS COULD GO OUT





UK national grid worst case scenario prediction for electricity capacity in winter 2022



- warning of rolling 3-hour blackouts
- UK cold stores not considered critical infrastructure
- investment in generators, renewables and batteries



# WHAT NEXT?

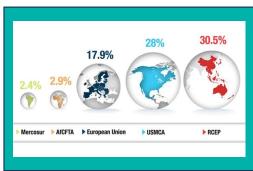
### THE GRAND CHALLENGES











# Al and AUTOMATION

- automation for more uses
- 'at a click' traceability
- digital twinning
- changing jobs/new skills

#### **AGEING SOCIETY**

- growth of e-commerce for older demographics
- single person households
- people working older

#### **CLEAN GROWTH**

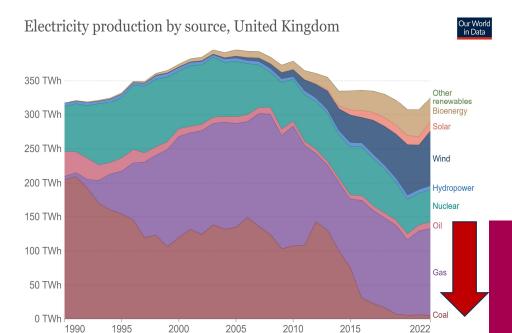
- net-zero ambition
- decarbonisation of energy
- mobility changes
- scrutiny of supply chains / food miles

#### **NEW WORLD ORDER**

- UK outside Europe
- Geopolitical Instability
- People Migration
- Resource competition
- Growth opportunities



### UK AND EUROPE ON ROAD TO NET ZERO



Source: Ember's Yearly Electricity Data; Ember's European Electricity Review; Energy Institute Statistical Review of World Energy Note: 'Other renewables' includes waste, geothermal, wave and tidal.

OurWorldInData.org/energy • CC BY



**ELECTRICTITY DEMAND?** 



### TAKE CONTROL OF THIS AGENDA





Cold Chain Federation's commitment to support our members to adapt to a low carbon future:

- Part One: Shaping the Cold Chain of the Future: The Road to Net Zero (published)
- Part Two: Defining a Net Zero Cold Chain (published)
- Part Three: The Journey Towards emission free temperaturecontrolled distribution on road vehicles (published)
- PART FOUR: THE COLD STORE OF 2050
- ➤ Part Five: The Cold Chain Ecosystem (2023): the connecting elements which will make up the cold chain of the future. eg. blockchain, advanced temperature monitoring etc.

https://www.coldchainfederation.org.uk/cold-chain-net-zero-project/





# FREE TO ACCESS HERE





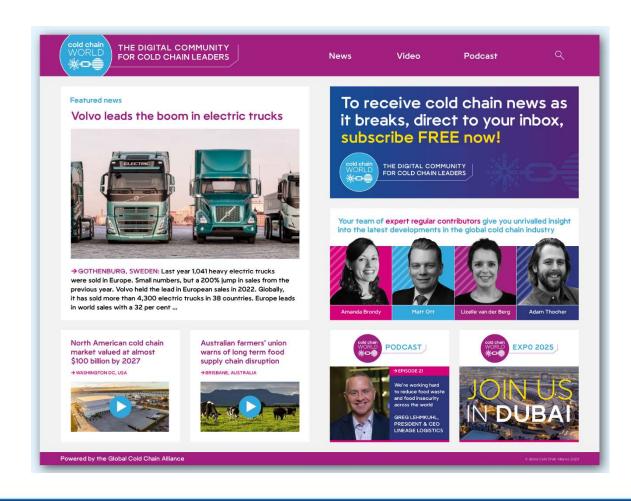
# HOW CAN WE WORK TOGETHER



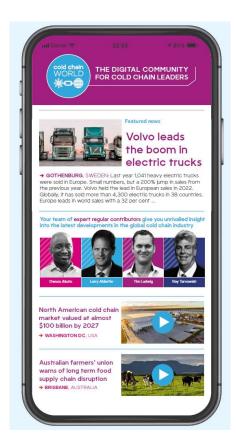


# THE DIGITAL COMMUNITY FOR COLD CHAIN LEADERS

- regular digital events
- social media focused delivery and promotion
- website / portal
- mixed media video, audio and written content





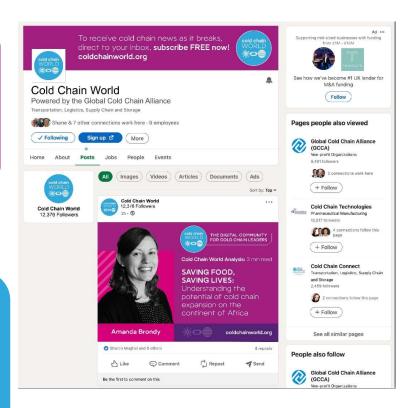


#### E-News

- Promise is 'first and best news' for (free) subscribers
- Syndicated to be region relevant
- New content and 'best of the rest' aggregation

#### Social Media

- Focus on capturing new subscribers
- Able to set agenda and capture feedback/ interactivity





## **SETTING THE AGENDA** THE 4 GRAND CHALLENGES













#### **CHANGING WORLD ORDER**



#### HARNESSING TECHNOLOGY REVOLUTION







## GLOBAL THEMES -> PRACTICAL ISSUES

#### **FEEDING PEOPLE**

- cold chain infrastructure
- development programmes
- food waste reduction programmes
- food safety regulations and initiatives
- labour challenges

• .....

#### TACKLING CLIMATE CHANGE

- sustainability initiatives
- energy resilience
- transport decarbonisation
- cold store construction
- supply chain efficiencies
- temperature regimes
- ....

#### **NEW WORLD ORDER**

- trade rules and regulations
- · digitisation of trade
- ports and infrastructure
- supply chain resilience planning
- international outreach
- · .....

#### AI REVOLUTION

- Automation
- Digitisation
- New rules and regulations
- Changing skills and people
- .....

National / regional contexts are different but the themes are universal







# **ANY QUESTIONS?**

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