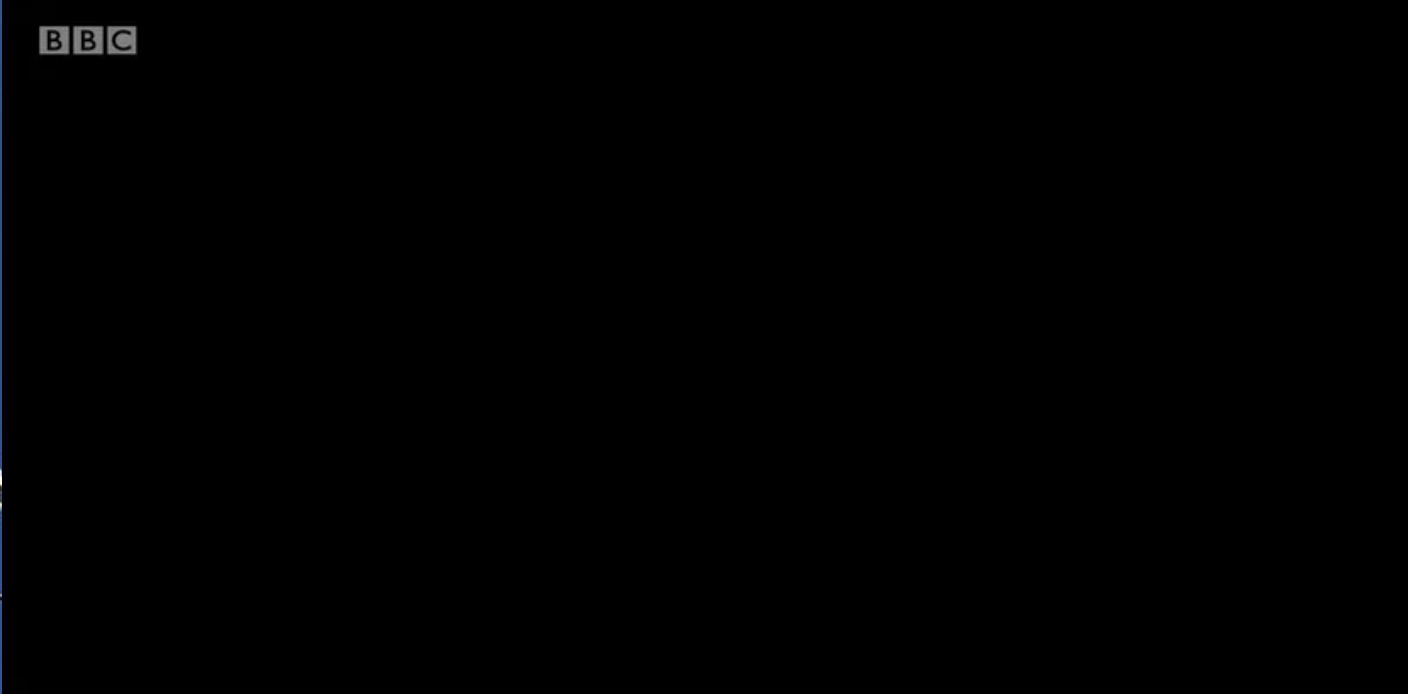
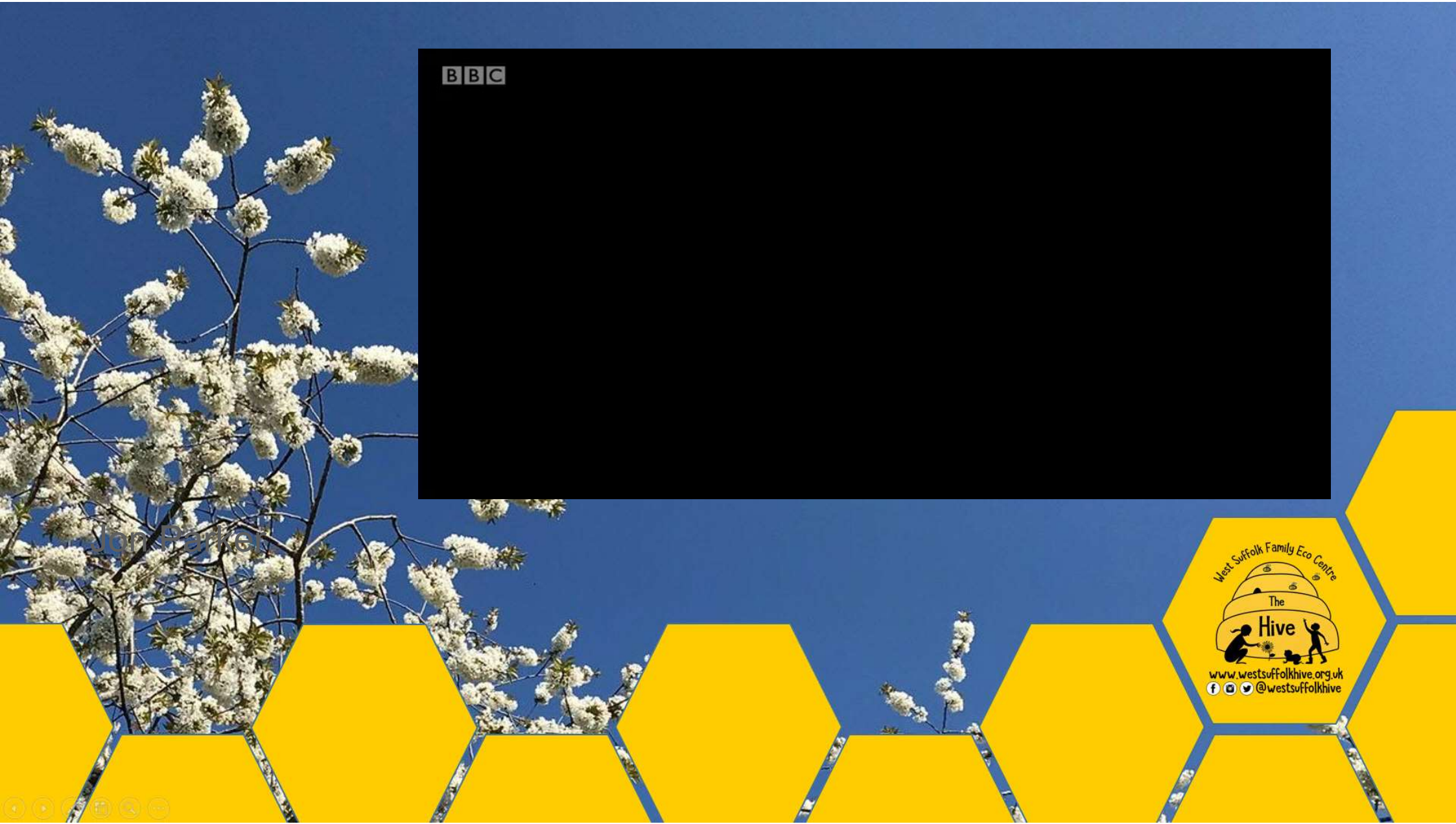


# Climate Change

- CAUSES
- EFFECTS
- SOLUTIONS

Ian Miles





West Suffolk Family Eco Centre



The  
Hive

www.westsuffolkhive.org.uk  
 f y i t @westsuffolkhive

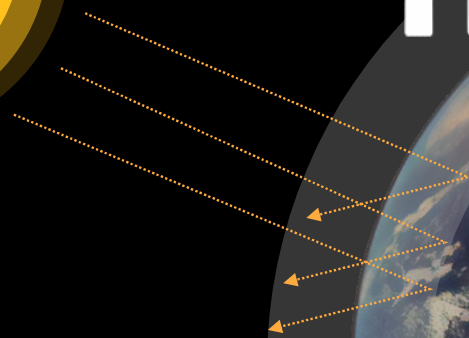
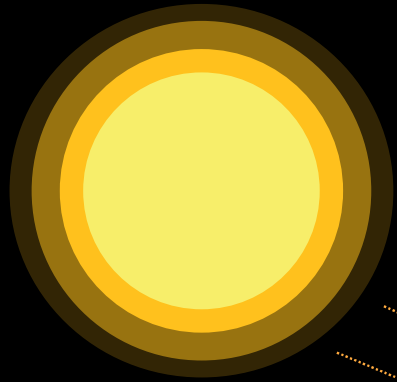
- **DAVID ATTENBOROUGH 2019**
- **WARMING**
- **HUMAN ACTIVITY**
- **FOSSIL FUELS**
- **2030**
- **URGENT ACTION**
- **STILL TIME**
- **'PEOPLE MUST UNDERSTAND WHAT'S HAPPENING**



# CAUSE ? 'THE WAY WE LIVE'

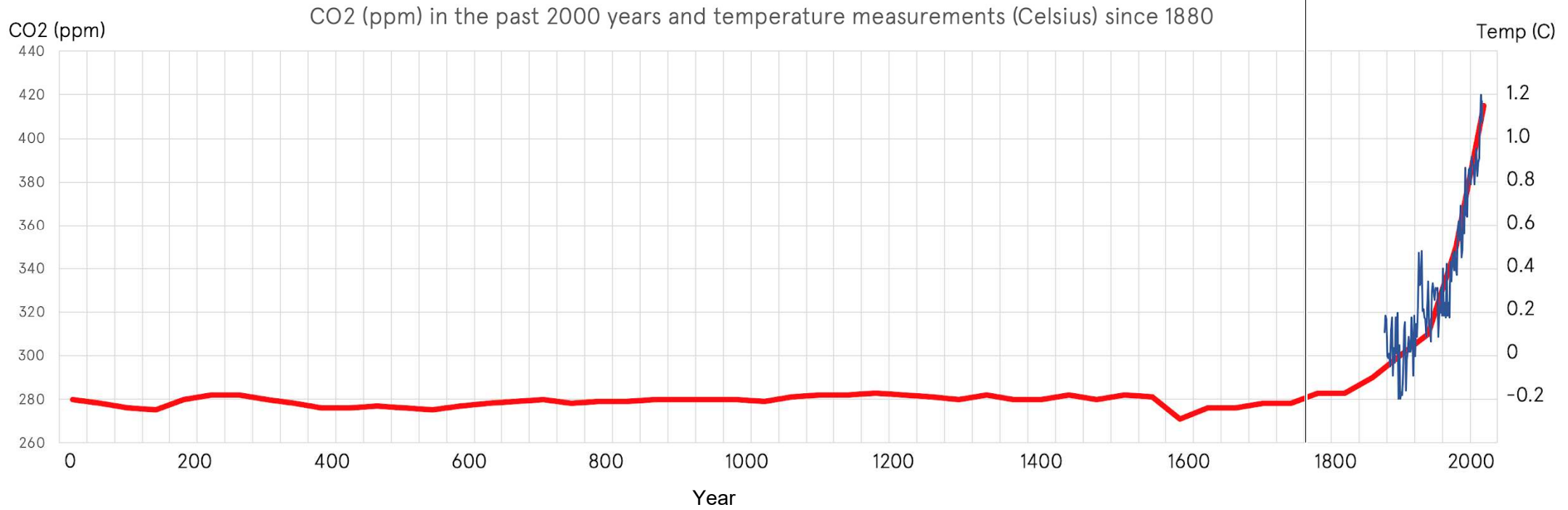


# GREENHOUSE GASES KEEP THE EARTH WARM



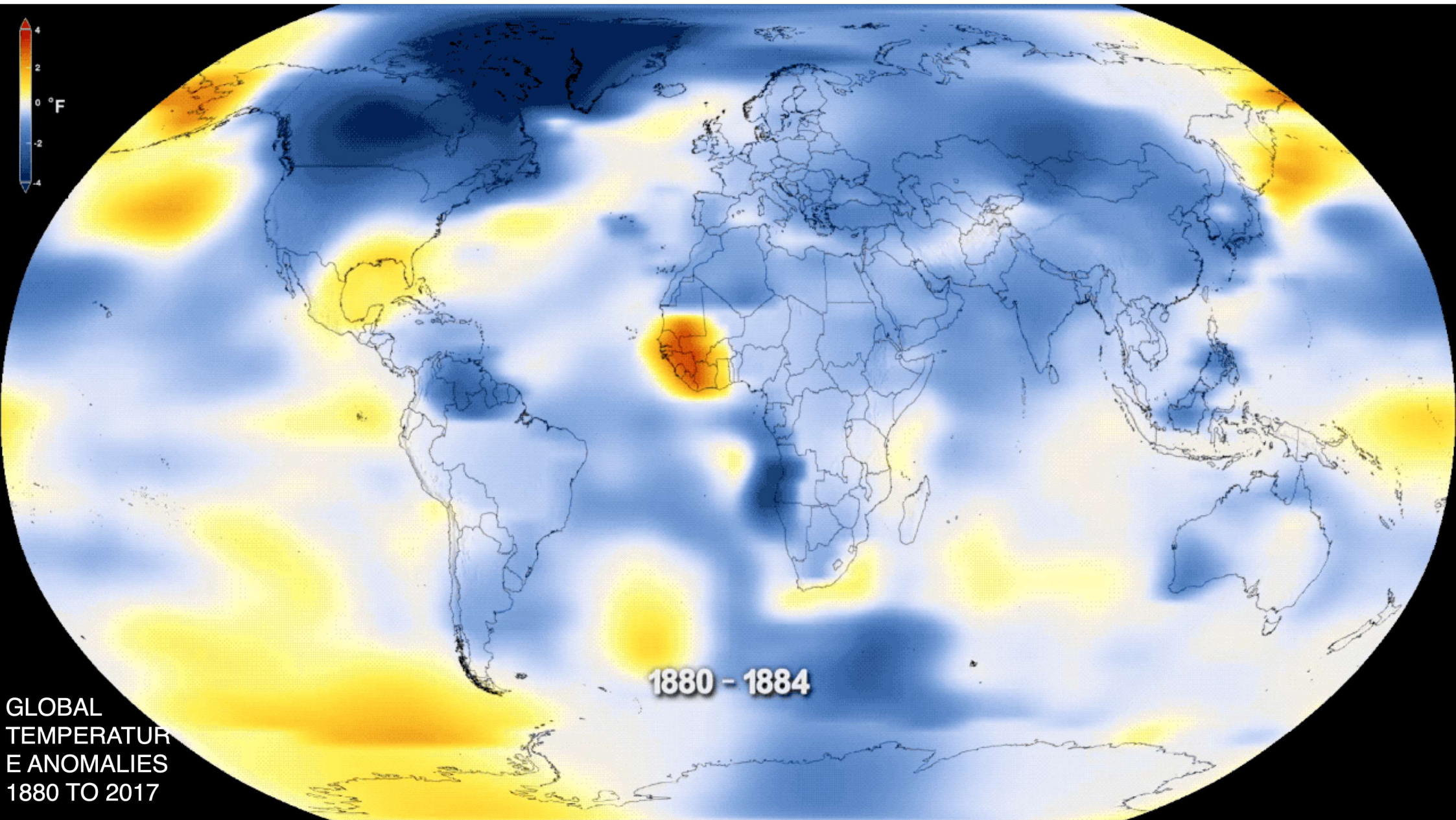
**Skyrocketing CO<sub>2</sub> concentration**  
causes *temperature rise*

**INDUSTRIAL  
AGE BEGAN**



# EFFECTS





GLOBAL  
TEMPERATURE  
ANOMALIES  
1880 TO 2017



# GLOBAL HEATING

1.1°C

# THE EFFECTS



# CLIMATE CHANGE - HUMAN NEEDS:-

- WATER
- FOOD
- AIR
- WARMTH
- SHELTER

# LIFE SUPPORT

- **CLIMATE** The long-term average of weather that regulates the conditions of our environment.
- **ECOLOGY** The study of the relationships between organisms and their natural environment.



**CLIMATE  
DESTRUCTION**

**ECOLOGICAL  
DESTRUCTION**

West Suffolk Family Eco Centre



www.westsuffolkhive.org.uk  
f @westsuffolkhive

# FEEDBACK LOOPS & TIPPING POINTS

*Feedback  
Loops*

Heating

**Hothouse  
Earth**

*Tipping  
Points*





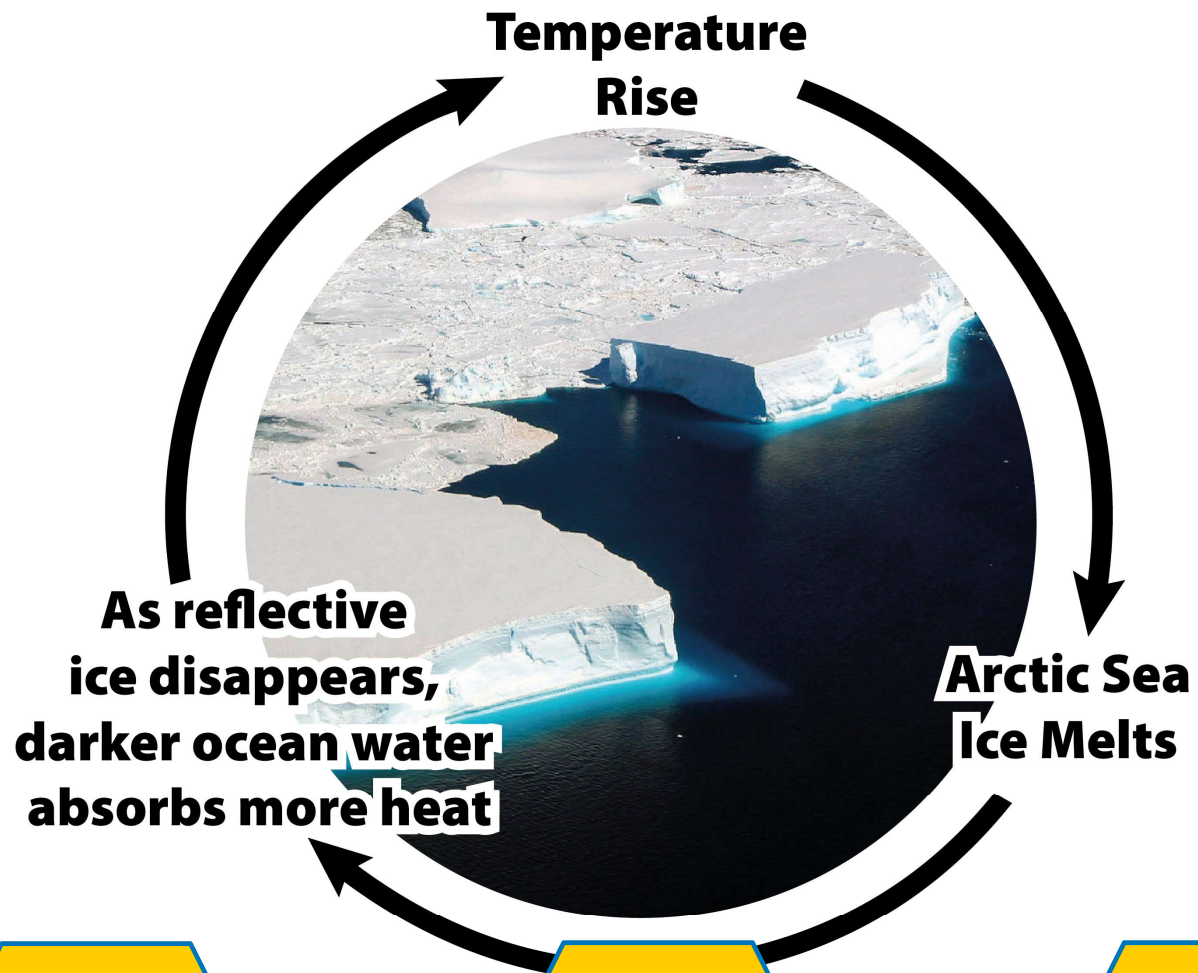
METHANE

WHAT  
HAPPENS  
IF WE  
CARRY ON  
WARMING  
THE  
EARTH?



ICE LOSS





West Suffolk Family Eco Centre



www.westsuffolkhive.org.uk  
f t @westsuffolkhive

HUMAN CHANGES CAN FLIP ENTIRE  
ECOSYSTEMS FROM CARBON SINKS TO  
CARBON SOURCES

DEFORESTATION

RAINFOREST TO SAVANNAH

West Suffolk Family Eco Centre



[www.westsuffolkhive.org.uk](http://www.westsuffolkhive.org.uk)  
f o t @westsuffolkhive



*“Outbreaks [such as the coronavirus] are manifestations of our dangerously unbalanced relationship with nature.*

*They all illustrate that **our own destructive behaviour towards nature is endangering our own health** – a stark reality we’ve been collectively ignoring for decade.”*

Elizabeth Maruma Mrema is executive secretary of the UN Convention on Biological Diversity; Maria Neira is director of the World Health Organization department of environment, climate change and health



# SPECIES THREATENED WITH EXTINCTION



41%



34%



33%



25%



14%



41%



***Over 80% of farm land*** is used for animals,  
providing ***just 18% of our calories***

# SPREAD OF AGRICULTURE



“The world population is expected to grow to almost **10 billion** by 2050.

With 3.4 billion more mouths to feed, and the growing desire of the middle class for meat and dairy in developing countries, global **demand for food** could increase by **between 59 and 98 percent.**”



**820,000,000 DO NOT  
HAVE ENOUGH TO EAT**

West Suffolk Family Eco Centre



[www.westsuffolkhive.org.uk](http://www.westsuffolkhive.org.uk)  
f o t @westsuffolkhive

# OCEANS ARE EQUALLY VITAL TO OUR SURVIVAL



# SOLUTIONS ?



# Forty-Eighth Session of the IPCC and First Joint Session of Working Groups I, II and III

1-5 October 2018 | Incheon, Republic of Korea



Forty-Eighth Session of the IPCC and  
First Joint Session of Working Groups  
I, II and III

Forty-Eighth Session of the IPCC and  
First Joint Session of Working Groups  
I, II and III



West Suffolk Family Eco Centre



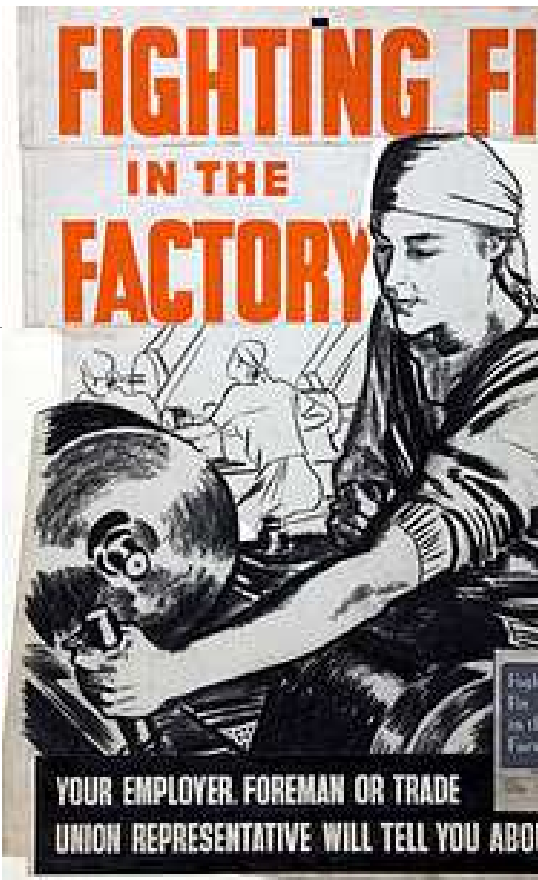
www.westsuffolkhive.org.uk  
f @westsuffolkhive



SO.....WHAT'S TO BE DONE?

---

**CHANGE HOW WE LIVE!**



## A War Effort



# CURRENT ECONOMIC MODEL

---

- **PRODUCTION** FOR PROFIT
- ACCUMULATION OF MATERIAL WEALTH. THE 'GOD' OF GDP!
- GROWTH. IE PRODUCTION OF MORE AND MORE THINGS TO BUY

## RESULTING IN:

- EXPLOITING NATURAL RESOURCES
- DANGEROUS WARMING OF THE PLANET

# A 'BUILDING BACK BETTER' MODEL

---

- PRODUCTION FOR NEED

- FOLLOWING THE GOD OF GPI !

**'The Genuine Progress Indicator (GPI) measures whether the environmental and social costs of economic production and consumption in a country are negative or positive factors in overall Health and Well Being'**

- DE-GROWTH

- SUSTAINABLE LIVING

- **REUSE RECYCLE REDUCE REBUILD REPAIR RESELL**

# Things are Changing. Many Examples in:

---

- ENERGY
- AIR QUALITY
- CLOTHING
- **PLANNING**
- **TRANSPORT**
- **EDUCATION**
- **WATER**
- **FOOD**



.. FOSSIL FUEL BURNING HAS TO BE NET ZERO...SO THIS IS URGENT!!!!

---

## ME

- **Get informed: read, watch, reflect**
- **Share with friends, relatives and others**
- **Change your lifestyle: focus on 'Re-use, Recycle, Reduce, Rebuild, Repair, Resell.**
- **Get involved/Take action: sign up to petitions, write to governing representatives, support/join 'green' organisations, take part in protests**



# WAYS FORWARD:-

---

- ME
- ME AND FRIENDS
- ME AND FAMILY
- ME AND OTHERS
- ME AND COMMUNITY GROUPS, LOCAL ORGANISATIONS. LOCAL ACTION GROUPS
- ME AND LOCAL, NATIONAL, INTERNATIONAL AND GLOBAL GOVERNMENTS



---

# **TOWARDS A POSITIVE 'TIPPING POINT'**



# Questions?

