

# Cool Chain Association

## **CCA & WASTE**

Opening Remarks

By

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# What is Waste?

- **According to Wikipedia;**
  - Waste is an unwanted or undesired material of substance, also called rubbish, trash, garbage or junk.
  - Biodegradable waste, such as food waste or sewage, is broken down naturally by microorganisms.
  - **But biodegradable waste is of specific concern because it breaks down in landfills to form methane, a potent greenhouse gas – and one of the really bad ones!**
  - **As such, it contributes to climate change.**

# What is Waste?

- Paper, packing material, cardboard
- Plastic – food & beverage containers, packing materials
- Metals – cans, high tech waste, scrap
- Glass – bottles
- Food waste and organic material
- Human and animal waste
- Wood – pallets, boxes
- Although most of this waste is recyclable, very little of it makes it to the recycling facilities. Plastic, metals and glass can remain in landfills for millions of years before they break down. And when incinerated, they release toxic fumes.

# What is Waste?

- **It's estimated that 20% of GHG emissions in the UK come from producing, transporting, preparing and storing food and drinks; this equals to a CO2 emission of 1 out of every 5 cars in the UK.**
- **The US generates more waste than any other nation in the world with 4.5 pounds of municipal solid waste per person per day, 55% of which is contributed as residential (house hold) garbage.**

# What is Waste?

**Food waste comprises a sizeable portion of domestic waste;**

**Total household waste (UK) - 30,468MT/yr**

**Total food waste (UK) - 5,375MT/yr**

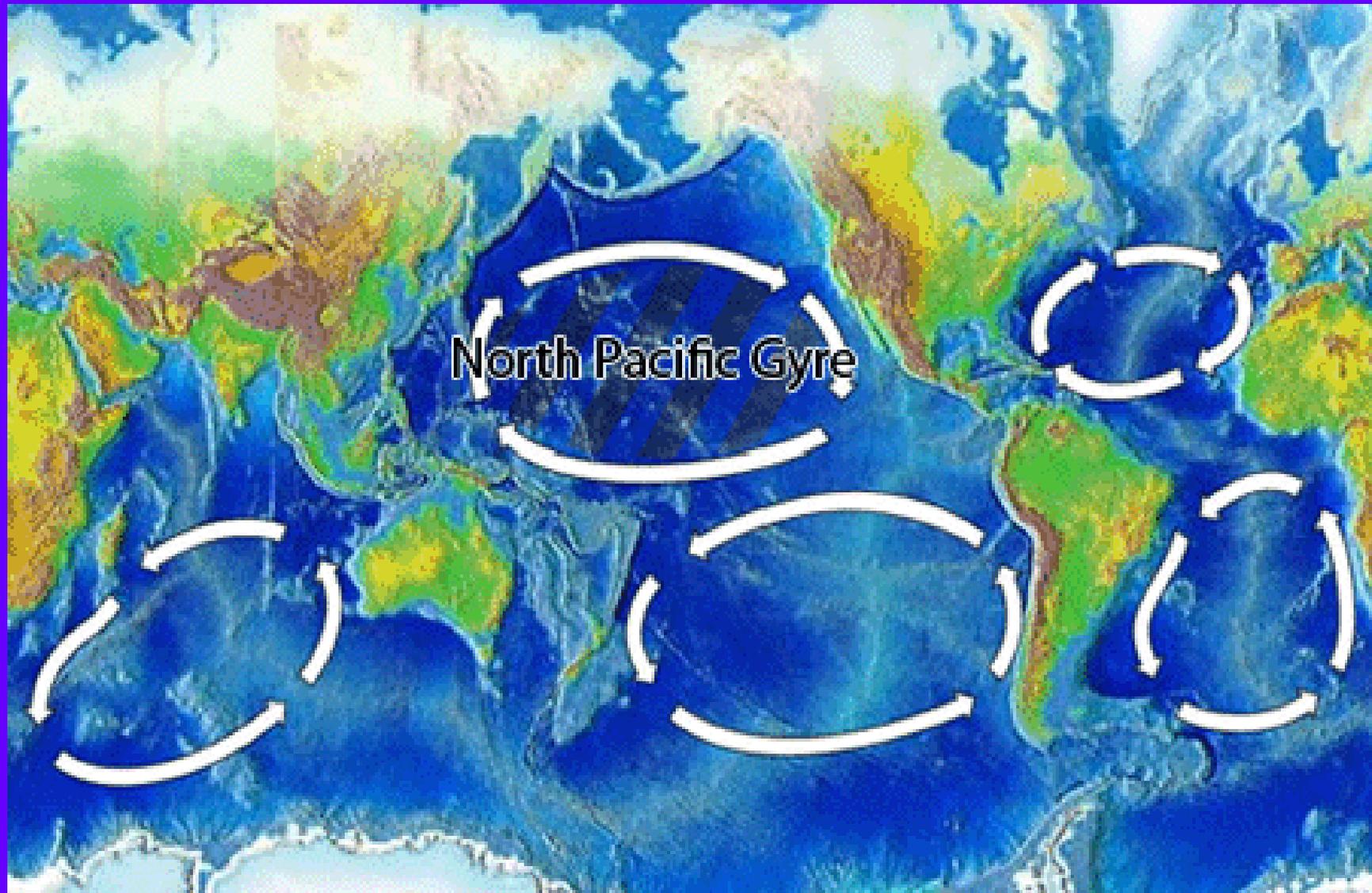
**Total food waste value (UK) - 11.5B €/yr**

**Total food waste value (US) - 32.3B €/yr**

# The worst Waste of all!

- Marine debris – also known as marine litter – is human-created waste that has been either deliberately dumped, or **accidentally** become afloat in lakes, seas, oceans or waterways.
- **Though it was originally assumed that most oceanic marine waste stemmed directly from ocean dumping, it is now thought that around four fifths of the oceanic debris is from rubbish blown seaward from landfills, and washed seaward by storm drains.**

# The worst Waste of all!



# Waste Management by CCA

- In view of the before mentioned, CCA should take a leading role in guiding the PTSP industry towards a reduction in Waste within our industry – and in cooperation with other organizations (such as WRAP)
- The savings and quality improvements are sizeable.
- And it shall have an important contribution to reducing global pollution.
- Consequently, I suggest that we form a CCA Work group that focus on this issue.

# What is WRAP?

- **WRAP stands for – Waste and Resource Action Program (in the UK).**
- **What does WRAP do?; it helps individuals, businesses and local authorities to reduce waste and recycle more, making better use of resources and helps tackling climate changes!**
- **An interesting partner for CCA!**

# back to What is Waste?

- **As such, I suggest we come back to this issue later today after we have heard the presentations of –**
- **Judith Kreyenschmidt of the Cool Chain Management of the University of Bonn – on “What is Waste”? – and**
- **Christian Helms of CCG on “CCA refuses to accept Waste” – and**
- **Eelco de Jong of Ambient Systems on “Waste and the Cool Chain”**

**Thank you**