



COLD CHAIN 4 LIFE

WHAT IS THE COLD CHAIN AND WHY DOES IT MATTER?



The **Cold Chain** is the series of actions and equipment applied to maintain a product within a specified low temperature range from harvest/ production to consumption, including farming/ fishing, food processing, cold storage, transportation, food services, and domestic uses, as well as special products like medicinal products and vaccines.



THE COLD CHAIN SAVES LIVES



50% OF MEDICATIONS MUST BE STORED AND TRANSPORTED UNDER CONTROLLED TEMPERATURES



40% OF THE WORLD'S VACCINES ARE UNUSABLE DUE TO LACK OF RELIABLE COLD CHAIN IN MANY PARTS OF THE WORLD



THE COLD CHAIN REDUCES HUNGER



The world's population is estimated to increase by **2 BILLION** by 2050



MORE THAN **800 MILLION** PEOPLE ARE UNDER NOURISHED

50% OF ALL FOOD SHOULD BE KEPT COLD BUT CURRENTLY ONLY 25% IS



Eliminating food loss and waste can feed up to **950 MILLION PEOPLE**



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THE COLD CHAIN'S ROLE IN SDGs AND WHAT YOU CAN DO TO HELP

EXAMPLES OF COLD CHAIN CONTRIBUTION TO SUSTAINABLE DEVELOPMENT GOALS (SDGs)



Efficient Cold Chain systems and operation reduces food loss
➔ **Feeding more people**



Proper preservation and transportation of medications
➔ **Saving more lives**



Expanding cold chain services to preserve food
➔ **Offers more job opportunities and supports economic growth**



Responsible food storage and retail practices
➔ **Reduction of food waste**



Use of energy efficient systems and low global warming potential refrigerants
➔ **Minimize emissions to atmosphere to help mitigate climate change**

HOW CAN YOU REDUCE YOUR FOOD WASTE



Make sure that food is stored at the right temperature

Monitor expiry dates of food products



Buy only the necessary quantities

Reduce time between purchase and storage



WHAT A GOVERNMENT NEEDS TO CONSIDER

Establish/ enforce codes and regulations for best preservation practices

Promote national awareness and training campaigns amongst public and specialists

Introduce incentive programs to promote sustainable practices and technologies

WHAT CAN COLD CHAIN PROFESSIONALS DO?



Consider most efficient and lower-GWP technologies when purchasing or replacing equipment or components

Ensure that operation and servicing of equipment is professionally conducted and logged

Monitor temperatures of storage, transport, and retail equipment

