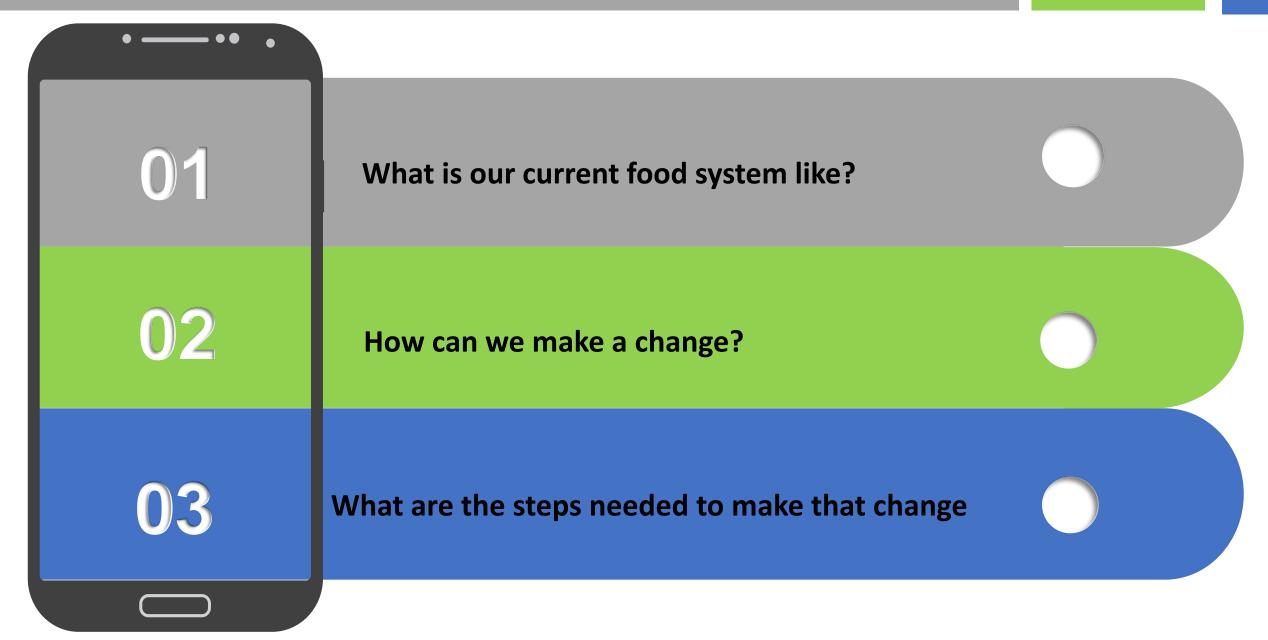
Cities, Food and Circular Economy

NCRD Special Sessions on 3R and Circular Economy (29 November 2023) and IPLA- a SDG Partnership (30 November 2023) - Hybrid, Mumbai

PARAMITA DATTA DEY

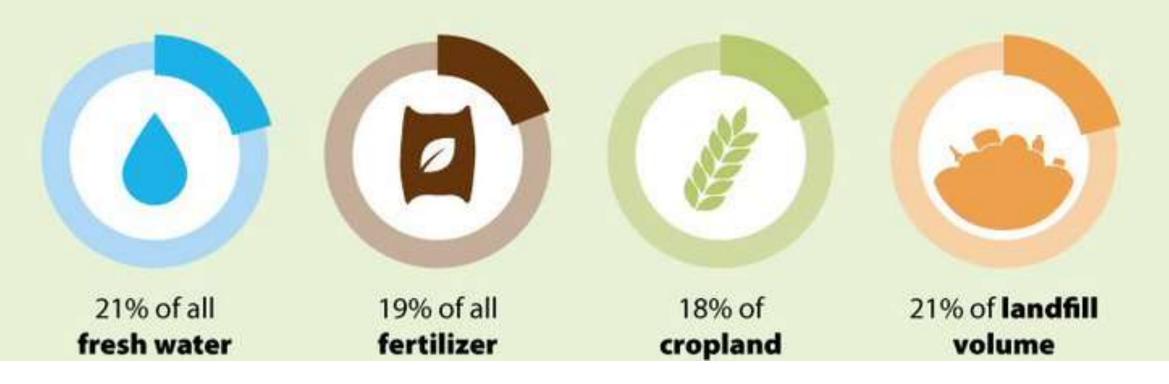
Head (Resource and Waste)
NIUA

PRESENTATION OUTLINE



RESOURCE-INTENSIVE AND EXTRACTION-DEPENDENT

Food waste consumes



PRODUCES A LOT OF WASTE



CAUSES ENVIRONMENTAL POLLUTION



DEGRADES OUR NATURAL RESOURCES



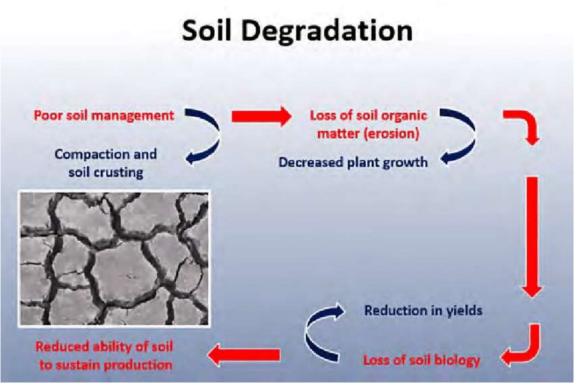
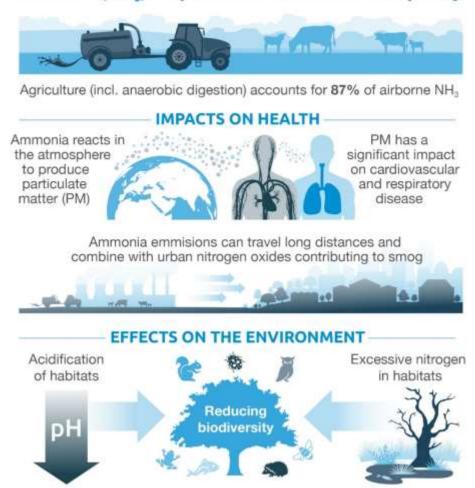


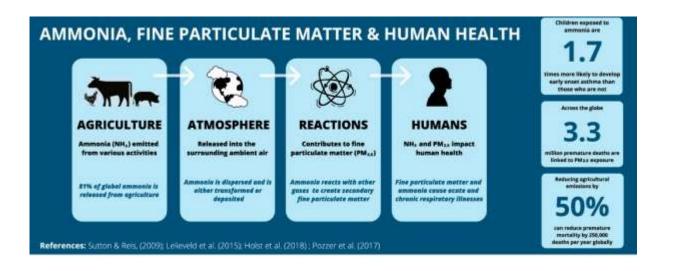
Photo: IRRI. Creative Commons CC BY-NC-SA 2.0(cropped).

Link: Food waste in the catering sector | Umweltbundesamt

CAUSES ANTI-MICROBIAL RESISTANCE AND AIR POLLUTION

Ammonia (NH₃) - a pollutant that affects air quality





Source: 1-s2.0-S0301479722018588-ga1 lrg.jpg (2213×882) (els-cdn.com)

Environmental impacts of food waste (per 100 persons)

Greenhouse gas emissions







42,500 km car drive

Agricultural land use











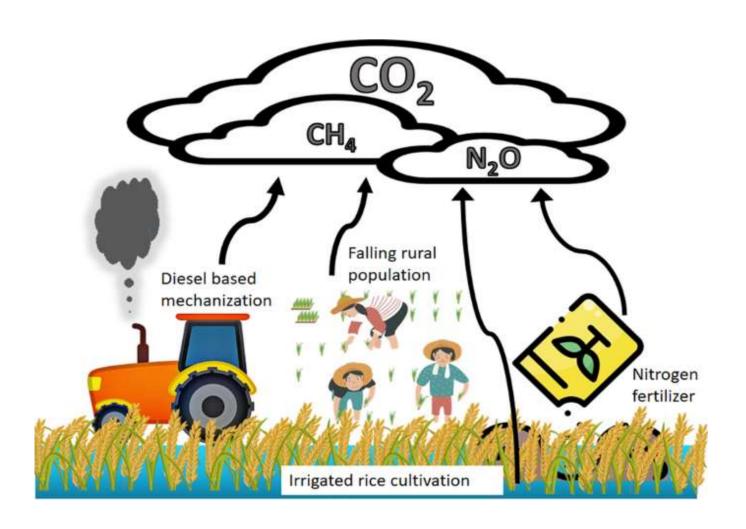
3 soccer fields

Agricultural water consumption





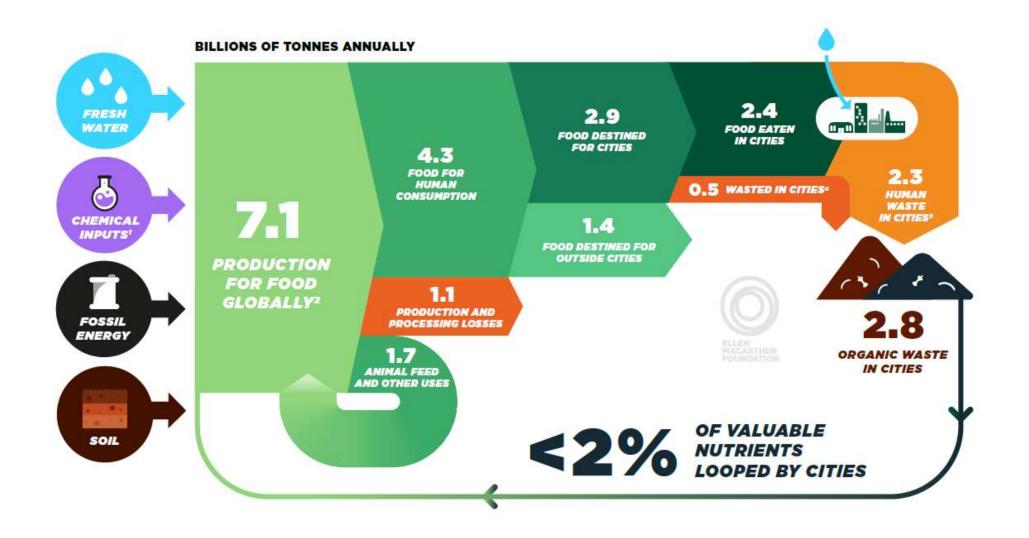




SO THE CURRENT WAY
OF GROWING FOOD
WILL NOT ONLY LEAD
TO A LOSS OF LIVES, IT
WILL ALSO LEAD TO
GROWING GHG
EMISSIONS.

Source: https://link.springer.com/article/10.1007/s10668-022-02224-7

OUR CURRENT LINEAR FOOD SYSTEM



THERE IS HOPE AND CITIES CAN BE THE CATALYSTS FOR CHANGE

- A food system based on the principles of a circular economy is one that is healthy for people and natural systems.
- The three principles of circular economy are



Design out waste and pollution emissions

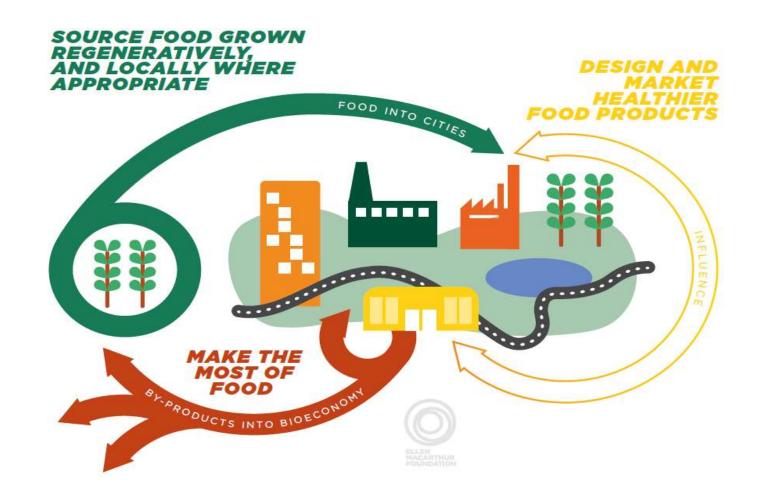


Keep products and materials in use longer



Regenerate natural systems

CIRCULAR FOOD SYSTEM



STEPS THAT CITIES SHOULD TAKE UP TO TRIGGER THE CHANGE



- Map the system
- Reduce Food waste: Develop infrastructure, and digital tools and increase awareness
- Gather and consolidate funds to encourage and speed up innovations
- Leverage buying power and ensure shorter supply chains to minimize the carbon footprint of food
- Collaborate with all actors brands, retailers, city officials, and policymakers through the 'whole of govt. approach'





Address:

1st, Core 4B, India Habitat Centre, Lodhi Road, New Delhi- 110003

Contact Number:

+91-9717707119 +91-9650718472

E-mail Address: pdey@niua.org