

# Climate MRV for Africa – Phase 2 Development of National GHG Inventory Waste Sector Characteristics



**NIRAS**  
Lead partner

GreenStream

**TÜVRheinland**<sup>®</sup>  
Precisely Right.

**camco**  
clean energy

## Project of the European Commission DG Climate Action

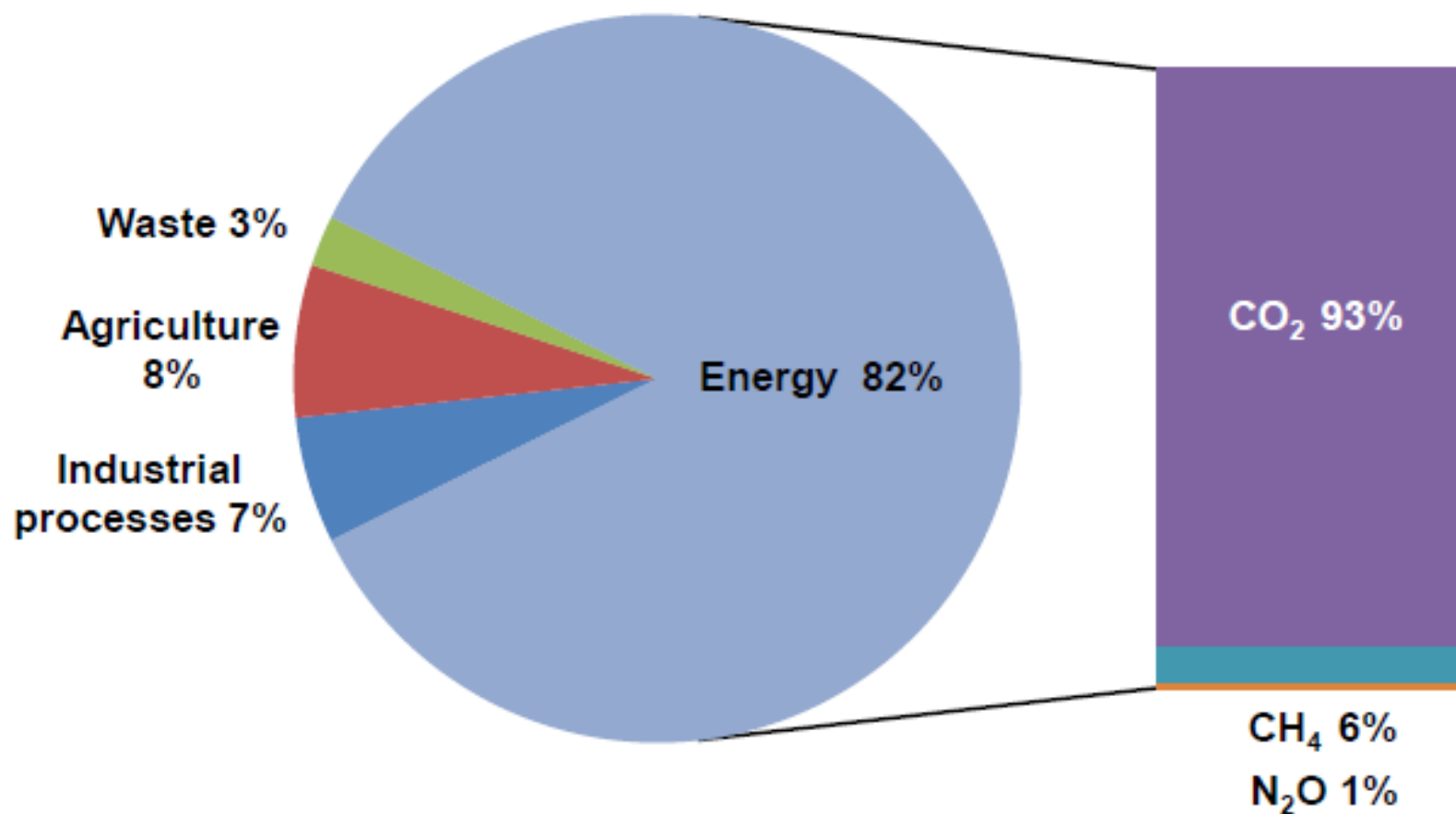
EuropeAid/136245/DH/SER/MULTI

Amr Osama Abdel-Aziz, Assen Gasharov, Mike Bess  
and Laura Lahti

Team Leader and Key Experts

January 2017

# Waste in the overall GHG matrix



*Source: UNFCCC - based on Annex I countries for 2012*

# Emissions from Waste Sector



**Solid Waste Disposal Sites  
(SWDS)**

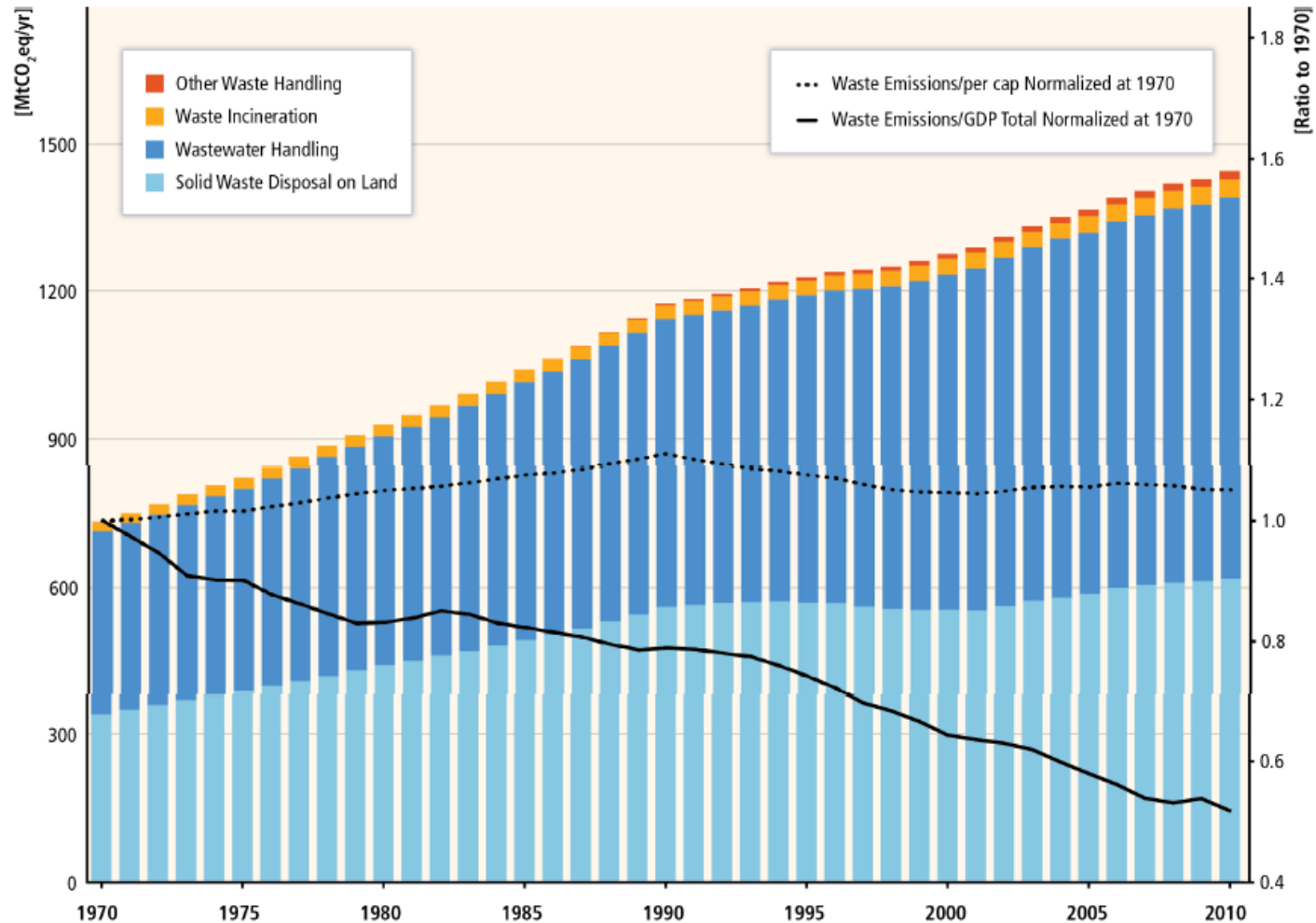


**Wastewater Treatment**



**Incineration**

# Waste GHG Emissions



**Figure 10.17.** Global waste emissions MtCO<sub>2</sub>eq/year, global waste emissions per GDP and global waste emissions per capita referred to 1970 values. Based on (JRC/PBL, 2012). (See Annex II.9)

# Thank you!

Amr Osama Abdel-Aziz, Assen Gasharov, Mike Bess and Laura Lahti