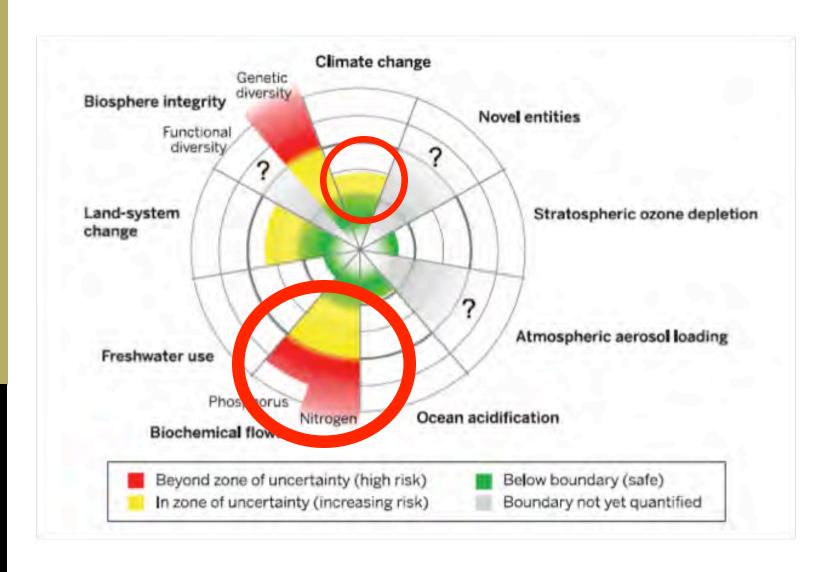
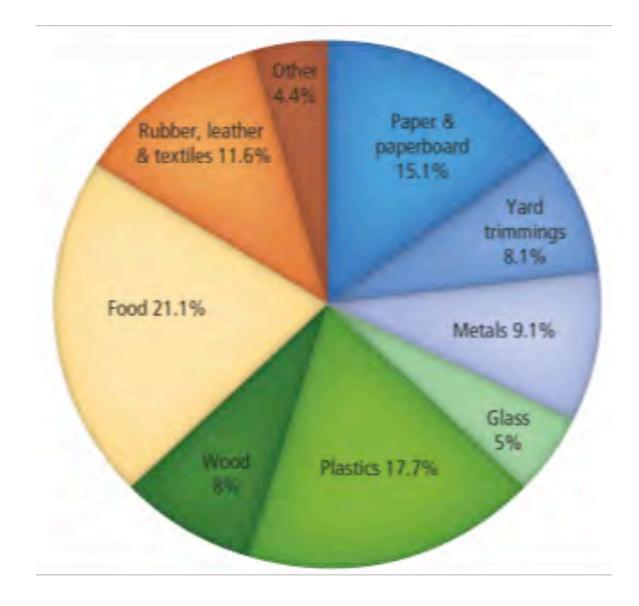
# Can We Have High Quality Compost and Zero Waste? 2015 Conference on Canadian Stewardship/ **RCA** Waste Reduction Conference

# **Planetary Boundaries**

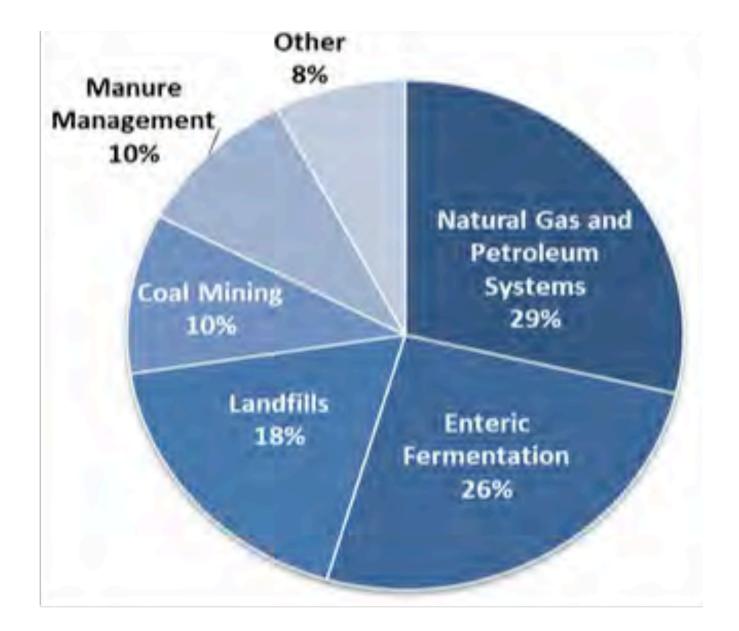


Source: W. Steffen et al., Science (347), 2015





Advancing Sustainable Materials Management: Facts and Figures 2013

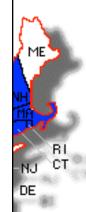


Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2013.



## MAJOR US UPDATE:

50% Reduction in Food Scraps by 2030



USDA and US EPA
Establish National Goal to
Reduce Food Scraps

# Food Scraps: Perception vs. Reality







# **Programs Everywhere**

- Big companies
- Big haulers
- Kids with bikes







### Should you accept:

- Food Scraps?
- Compostable Plastics?
- Everything that comes along with those?











 Most municipal food scraps programs are INCLUSIVE (meat, dairy, food soiled paper, pizza boxes, etc.)

# **Compost Manufacturing**

#### **Quality Improvement:**

- Larger investments in prevention drive even larger savings in quality related failures and appraisal efforts.
- Most composters get paid more on the raw material side. Thus less incentive to try to remove contaminants at the back end.
- Plus, not all composters are connected to the collection side.



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### A densimetric what?



# This is Going to Take Some Time





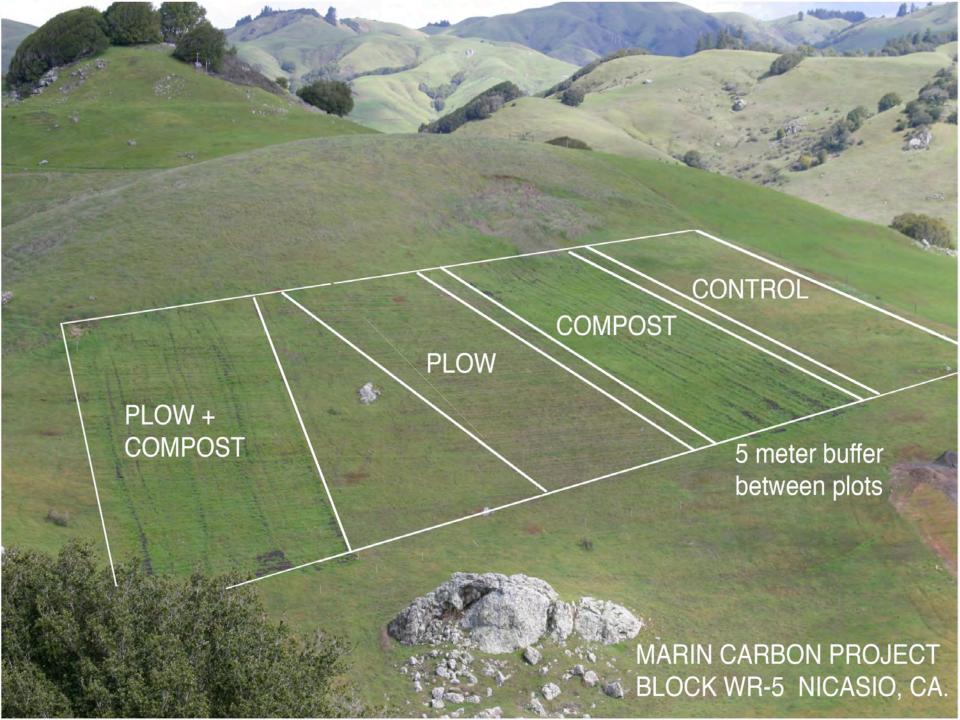


**And Money** 

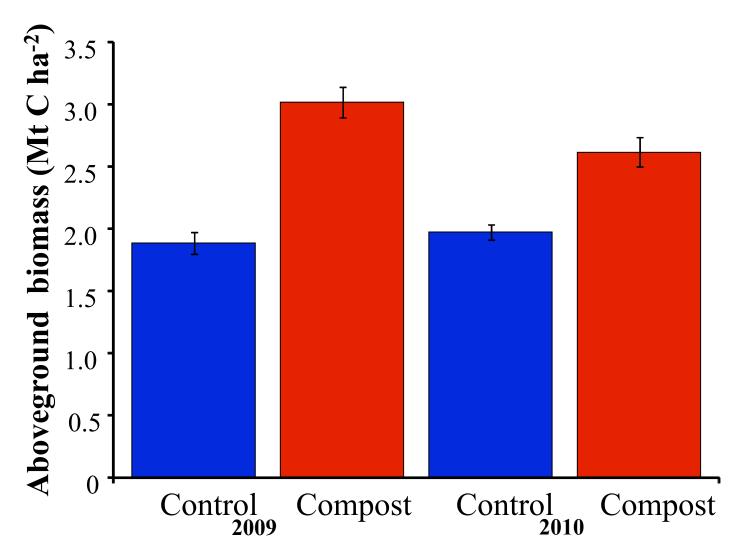
# Zero Waste and Soil are Connected

- Climate Action Plans (CAPS) are the mechanism through which we can balance carbon pools and restore overall system health and function. This is the impact that we have control over.
- Local Governments have the role of embracing this opportunity and providing leadership through strategic incentives.
- Organics Don't Belong in Landfills!



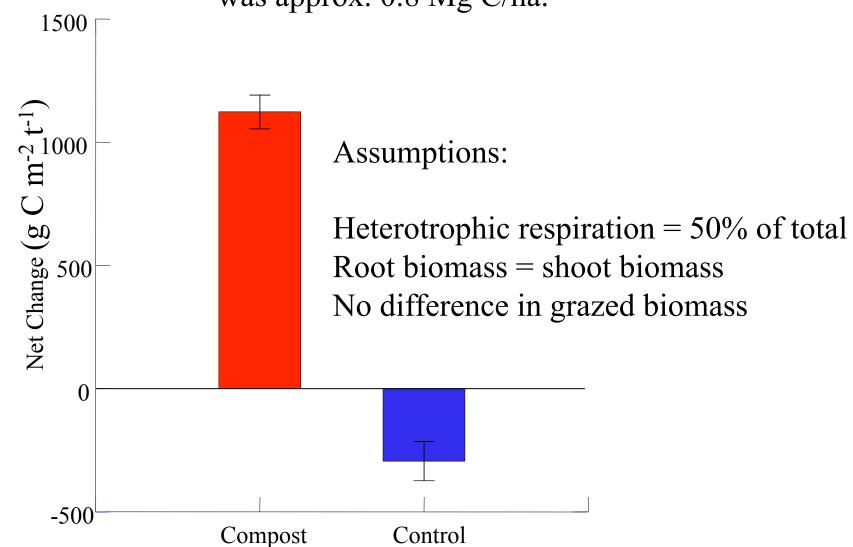


#### Compost significantly increased plant and forage production

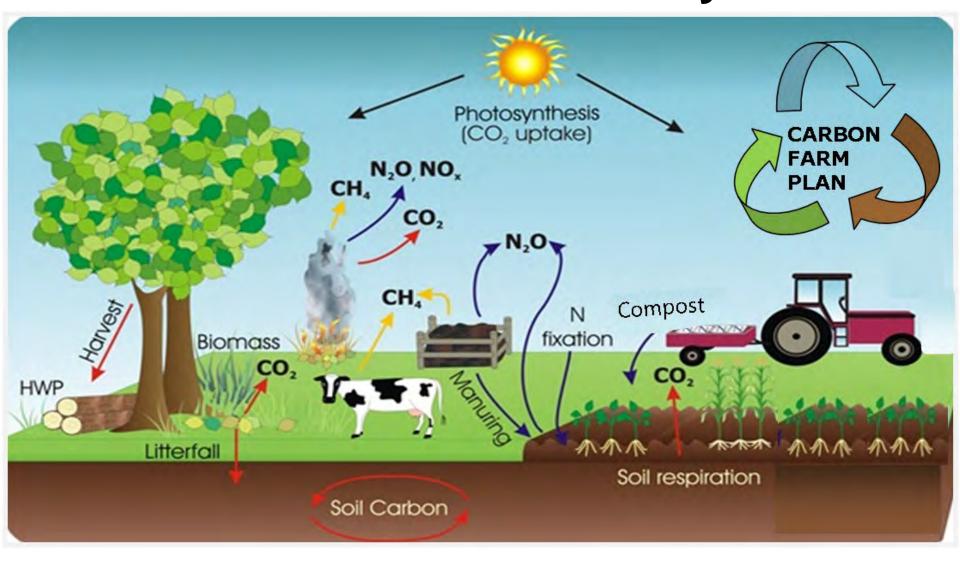




Organic amendments increased system carbon by over 14.8 Mg C/ha in year 1; net gain, **beyond compost additions** was approx. 0.8 Mg C/ha.



## MARIN CARBON PROJECT



http://www.marincarbonproject.org/