

The new “Campus Carbon Calculator”/CarbonMAP



November 3, 2016

SUNY New Platz

Tracking Campus Impact: Why Do We Do It?



- 1. To manage and plan**
- 2. For accountability**
- 3. For recognition**
- 4. To communicate, tell stories, educate and engage!**

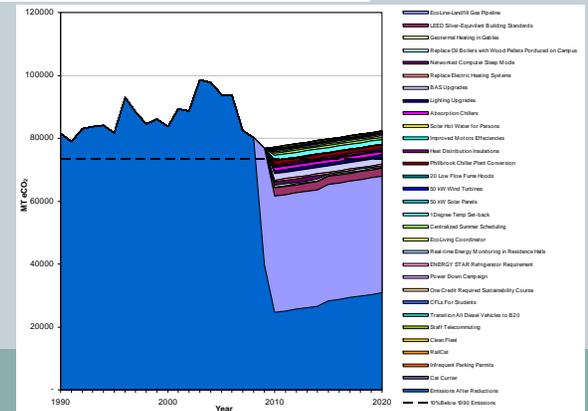
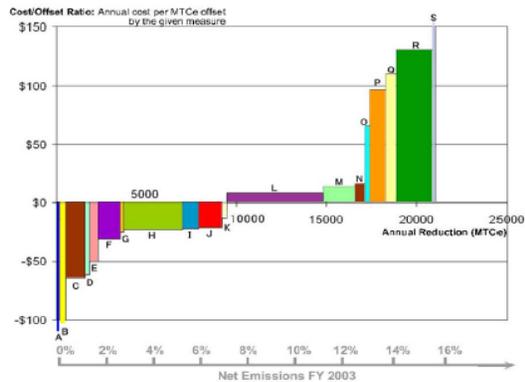
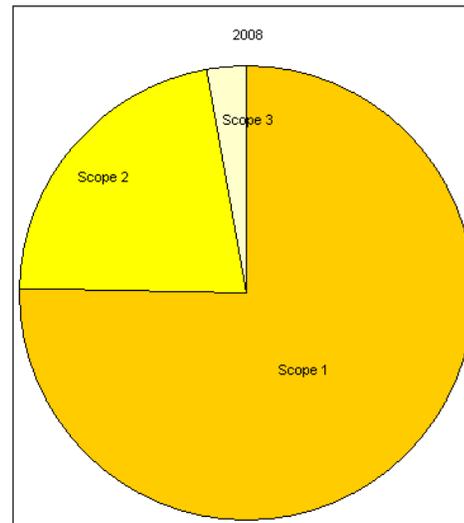
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Spreadsheet Map Input Worksheet

On this worksheet: Summary information from an inventoried year, a pie chart showing a breakdown of sources, and a graph displaying the amounts of each gas emitted.

MODULE Summary						
WORKSHEET Overview of Annual Emissions						
UNIVERSITY Please enter university name on 'Introduction' sheet						
Select Year -->	2008	Energy Consumption	CO ₂	CH ₄	N ₂ O	eCO ₂
		MMBtu	kg	kg	kg	Metric Tonnes
Scope 1	Co-gen Electricity	286,324.0	15,105,211.5	1,510.4	30.2	15,148.9
	Co-gen Steam	316,110.0	16,676,587.8	1,667.5	33.3	16,724.8
	Other On-Campus Stationary	225,957.8	12,774,776.7	1,415.8	46.2	12,821.0
	Direct Transportation	28,809.7	1,927,633.2	264.6	91.7	1,960.9
	Refrigerants & Chemicals	-	-	-	-	856.9
	Agriculture	-	-	35,034.8	977.2	1,095.0
Scope 2	Purchased Electricity	172,238.0	13,971,390.7	113.8	196.8	14,032.3
	Purchased Steam / Chilled Water	-	-	-	-	-
Scope 3	Faculty / Staff Commuting	-	-	-	-	-
	Student Commuting	-	-	-	-	-
	Directly Financed Air Travel	-	-	-	-	-
	Other Directly Financed Travel	-	-	-	-	-
	Study Abroad Air Travel	-	-	-	-	-
	Solid Waste	-	-	19,841.9	-	456.4
	Wastewater	-	-	-	-	-
	Paper	-	-	-	-	-
	Scope 2 T&D Losses	17,034.5	1,381,785.9	11.3	19.5	1,387.8
	Additional					(659.3)
Non-Additional					34.2	
Totals	Scope 1	857,201.6	46,484,209.1	39,892.9	1,178.7	48,607.5
	Scope 2	172,238.0	13,971,390.7	113.8	196.8	14,032.3
	Scope 3	17,034.5	1,381,785.9	19,853.2	19.5	1,844.2
	All Scopes	1,046,474.1	61,837,385.7	59,859.9	1,394.9	64,483.9
	All Offsets					(625.2)
Net Emissions:						63,858.8



CarbonMAP



University of
New Hampshire

The Sustainability
Institute

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CarbonMAP

Carbon Management and Analysis Platform (CarbonMAP)
sustainable decision-making made simple.

- create a greenhouse gas baseline
- benchmark your performance
- set goals
- and analyze your progress.

Get started today!

Integrated Platform: Overview



Return to roots in understanding true institutional—and sectoral—impact; communicate and engage

Also, provide user-friendly, cost-effective, sustainable resource for the community so individual schools and programs can continue to assist in recognition, accountability and management

Be part of a larger data universe

Integrated Platform: Why N?

1 Broader picture of **environmental impacts**, including local impacts



Smog



Eutrophication

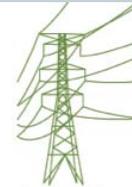


Climate change

2 Win-win for most **reduction strategies**



Expand Composting & Food "Recycling"



Reduce Energy Consumption



Substitute Non-Meat Proteins

3 Reduced data entry and analysis

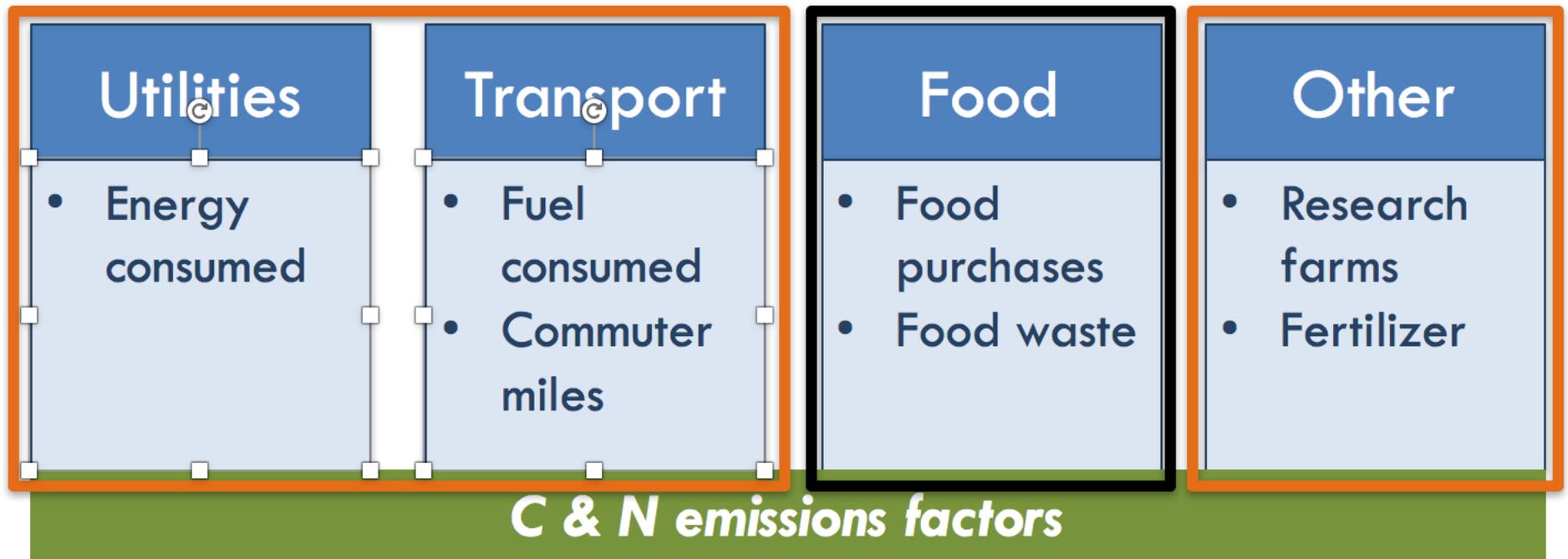
Carbon

Nitrogen

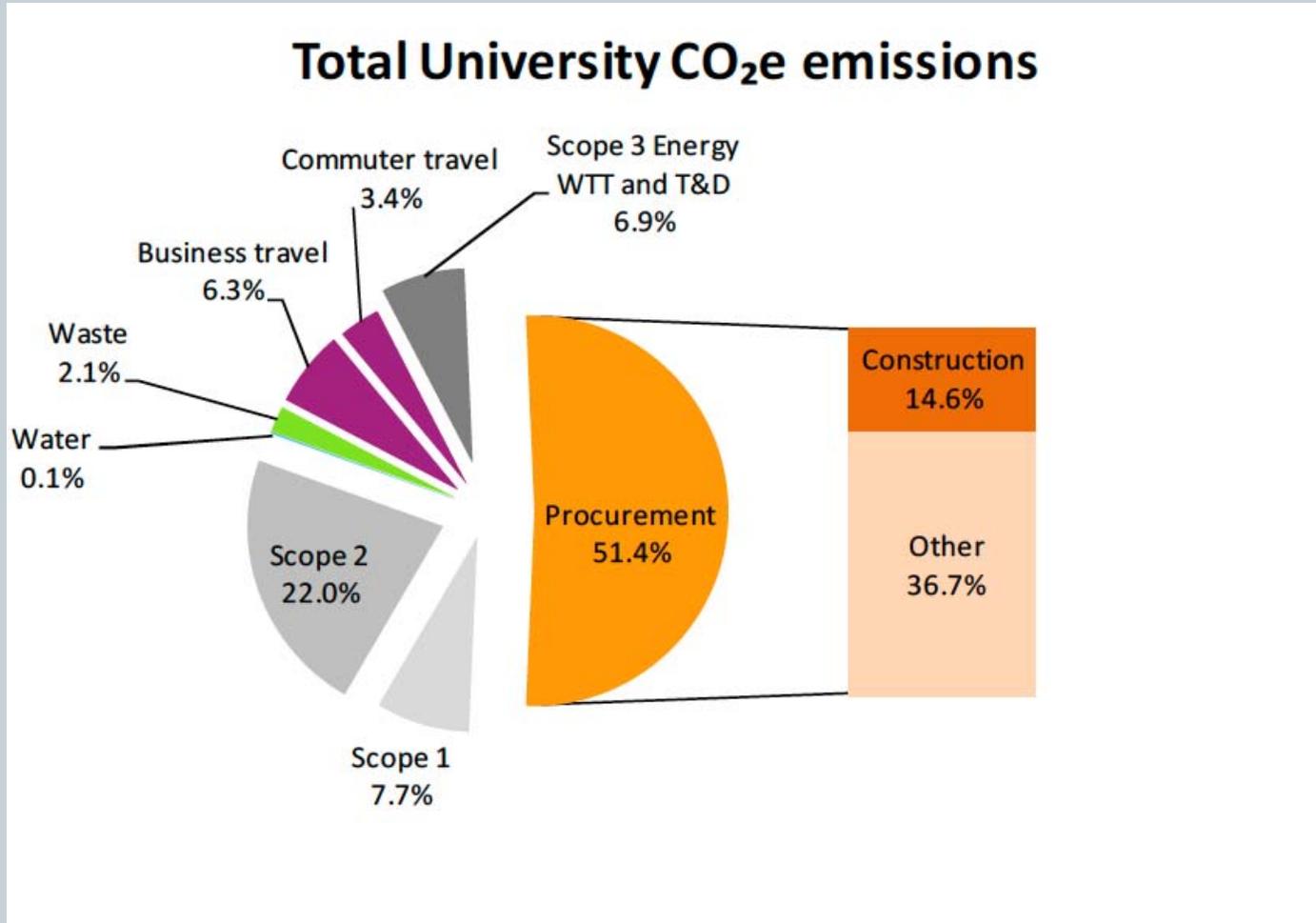
Food
Utilities
Transport
Research

Integrated Platform: N Data Needs

Data Required:



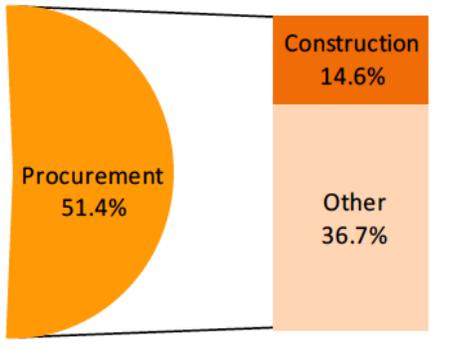
Integrated Platform: Why Scope 3



Integrated Platform: Why Scope 3



University of Cambridge



Year	2011-2012
	Tonnes CO ₂ e
Business services	11,271
Paper products	4,900
Other manufactured products	16,114
Manufactured fuels, chemicals, and gases	10,190
Food and catering	9,962
Construction	35,918
Information and communication technologies	12,272
Waste and water	2,532
Medical and precision instruments	14,269
Other procurement	5,806
Unclassified	2,711
Total	125,943

Integrated Platform: Other Benefits



Additional User Features

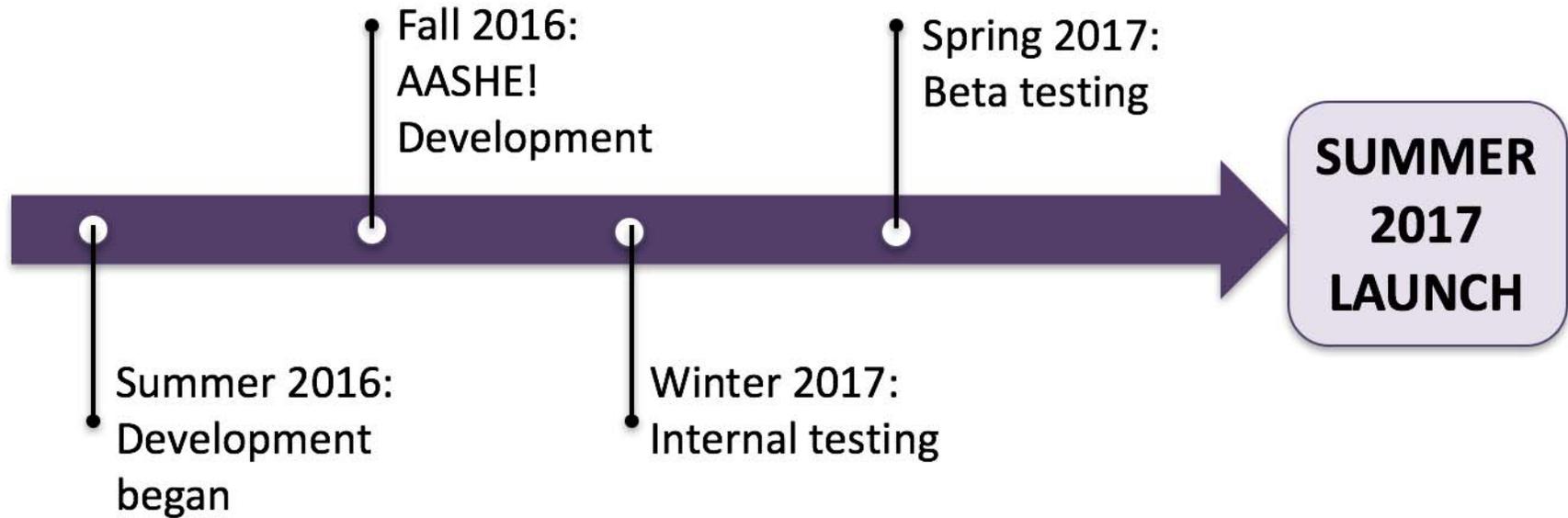
- Import/Export
- Customized EF's
- Basic QA/QC features
- Dedicated user support

What Else Will Change?

- “Freemium” model
- Data available for research, contextualization

Integrated Platform: Timeline

TIMELINE:



Questions?



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