

A nighttime photograph of a soccer game on a grassy field. The scene is illuminated by bright stadium lights, creating a high-contrast environment. The players are in motion, and the field is lit up against a dark background. The lights are positioned at the top of the frame, casting a glow over the scene.

ADVANCING SUSTAINABILITY IN SPORT: MATERIALS RECYCLING

UBC SEEDS RESEARCH PROJECT

INTRODUCTION



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WHY WE CHOSE THIS PROJECT?

WHAT IS "SUSTAINABILITY"



Social



Economic



Environmental

WHY SPORT AND THE ENVIRONMENT?



ADVANCING SUSTAINABILITY IN SPORT



WHAT IS GOING ON AT OTHER UNIVERSITIES?

GREEN SPORT ALLIANCE PARTICIPANTS

Emory University

Farmingdale State College, SUNY

Flathead Valley Community College

Florida International University

Florida State University*

Franklin Pierce University

George Mason University*

George Washington University

Georgetown University

Georgia Southern University

Gonzaga University

Grand Valley State University*

Indiana State University

Indiana University*

Inver Hills Community College

Jackson State University

Kent State University

Lafayette College

Lamar University

Lehigh University

Lewis University

Louisiana State University

Marquette University*

Marshall University

Miami University*

Middle Tennessee State University

Missouri State University*

Tennessee State University

Texas A & M University - Corpus Christi

Texas State University

Texas Tech University

Towson University*

University at Albany*

University of Akron

University of Alabama

University of Alabama at Birmingham

University of Arizona*

University of Arkansas*

University of British Columbia*

University of California, Los Angeles

University of California, Santa Barbara*

University of Central Florida

University of Cincinnati

University of Florida*

University of Georgia

University of Houston*

University of Idaho

University of Illinois

University of Illinois at Chicago*

University of Iowa

University of Kansas*

University of Louisiana at Lafayette

University of Maine

University of Maryland, Baltimore

University of Texas at Arlington

University of Texas at Austin*

University of the Pacific

University of Tulsa

University of Washington*

University of Waterloo

University of West Florida

University of Wisconsin, Eau Claire

University of Wisconsin, Green Bay*

University of Wisconsin, Madison

University of Wisconsin, Oshkosh*

Utah State University

Vanderbilt University

Villanova University

Virginia Commonwealth University*

Viterbo University

Washington State University

Weber State University*

West Virginia University

Western Carolina University

Western Kentucky University*

Western Michigan University

Winona State University

Winthrop University

Xavier University

Yale University*

Youngstown State University

Source: <http://greensportsalliance.org>

OHIO STATE UNIVERSITY



Source: <http://greensportsalliance.org>



GO PURPLE. 
BE GOLD. 



**GAMEDAY
RECYCLING
CHALLENGE**
WWW.GAMEDAYCHALLENGE.ORG

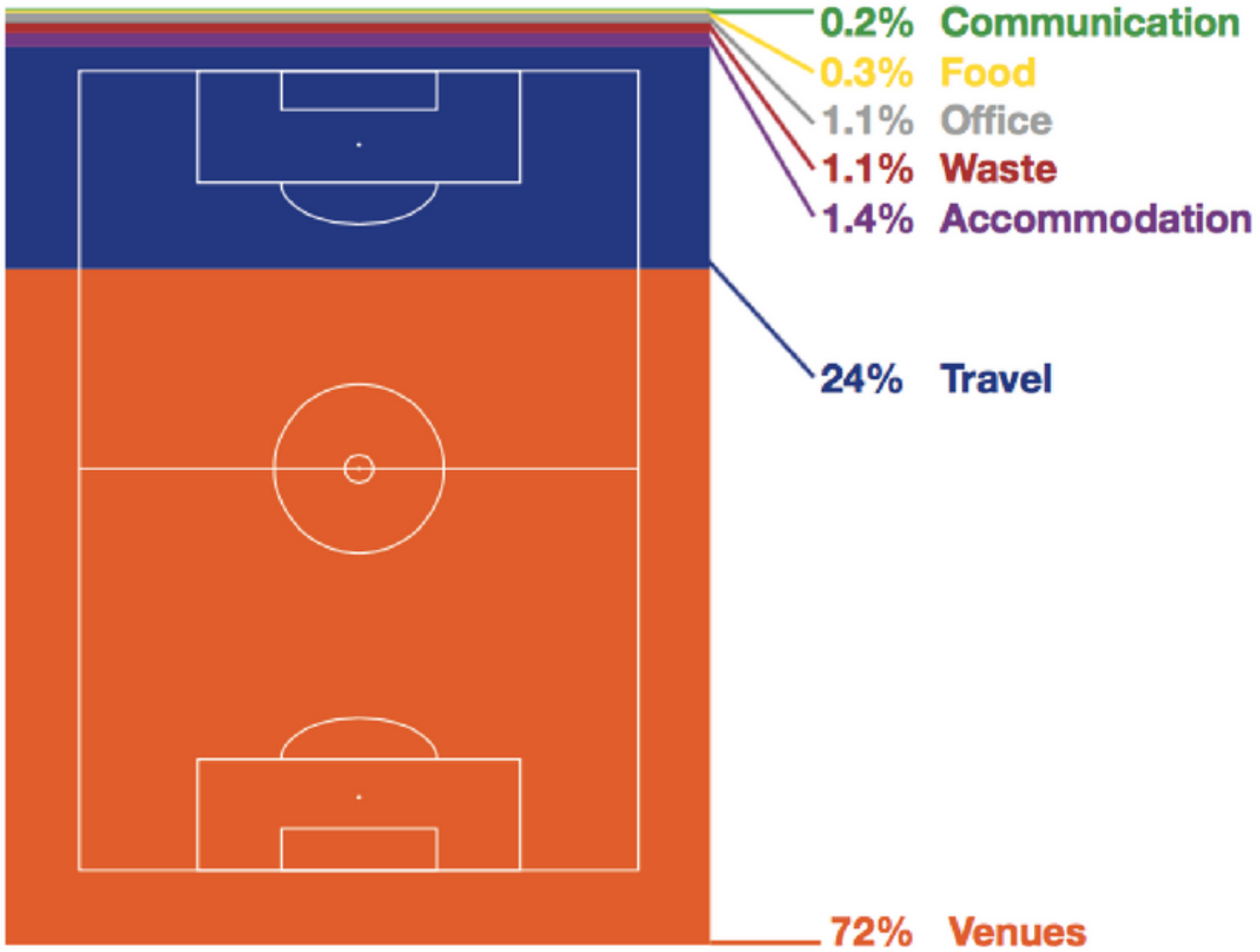
**UNIVERSITY
OF
WASHINGTON**

Source: <http://gohuskies.com>



WHAT IS GOING ON AT UBC?

Carbon Footprint of UBC Athletics & Recreation Thunderbirds teams, events, and venues for the 2011/12 season.



Source: Life Cycle Assessment, Matt Dolf



OUR RECYCLING PROJECT

Project Goals

- Implement a Recycling Program with 4 Varsity Teams
- Create a Survey to Assess Athlete's Understanding of Sustainability
- Spread Awareness to Student-Athletes, Coaches, and the Greater Community
- Make Recommendations for Future Research and Projects

TIMELINE

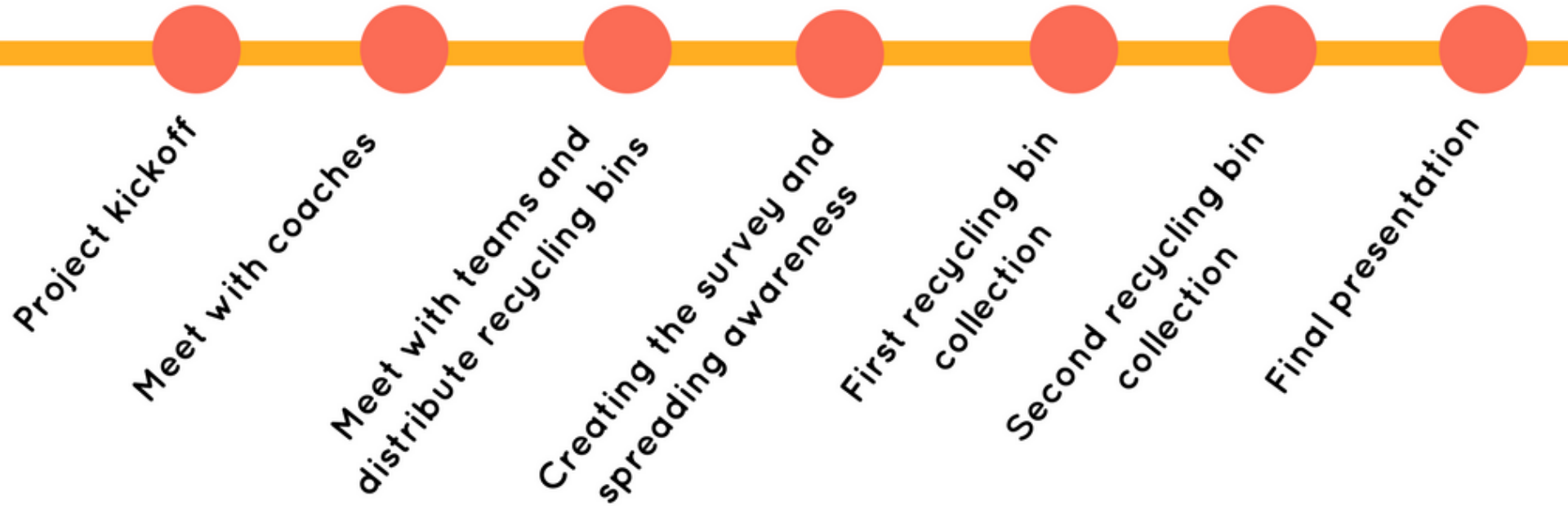
DEC

JAN

FEB

MAR

APR



UBC ATHLETICS GOALS



INCREASE PARTICIPATION



DELIVER EXCELLENCE ON THE NATIONAL AND
WORLDWIDE STAGE



BUILD SCHOOL SPIRIT



NUTURE A STRONG SENSE OF COMMUNITY



CULTIVATE AN INSPIRED WORKPLACE WHERE STAFF
ARE AT THEIR BEST

Source: <http://www.gothunderbirds.ca>

UBC ZERO WASTE GOALS



IMPLEMENT MULTI-STREAM RECYCLING STATIONS AND COMMUNICATIONS ACROSS CAMPUS BY END OF 2015, TARGETING FOOD SCRAPS COLLECTION BY MID-2015.



INCREASE OVERALL DIVERSION RATES TO 70 PER CENT DIVERSION BY 2016, AND 80 PER CENT DIVERSION BY 2020.



DECREASE OPERATIONAL WASTE DISPOSAL TO LANDFILL/INCINERATION STEADILY, DESPITE CAMPUS GROWTH, TOWARD THE LONG-TERM ASPIRATION OF A ZERO-WASTE CAMPUS.



MATERIALS RECYCLING

WHY TEXTILES RECYCLING?

Global Impacts

Local Impacts

MATERIALS RECYCLING



TRANS-CONTINENTAL
TEXTILE RECYCLING LTD

ADVANCING SUSTAINABILITY IN SPORT

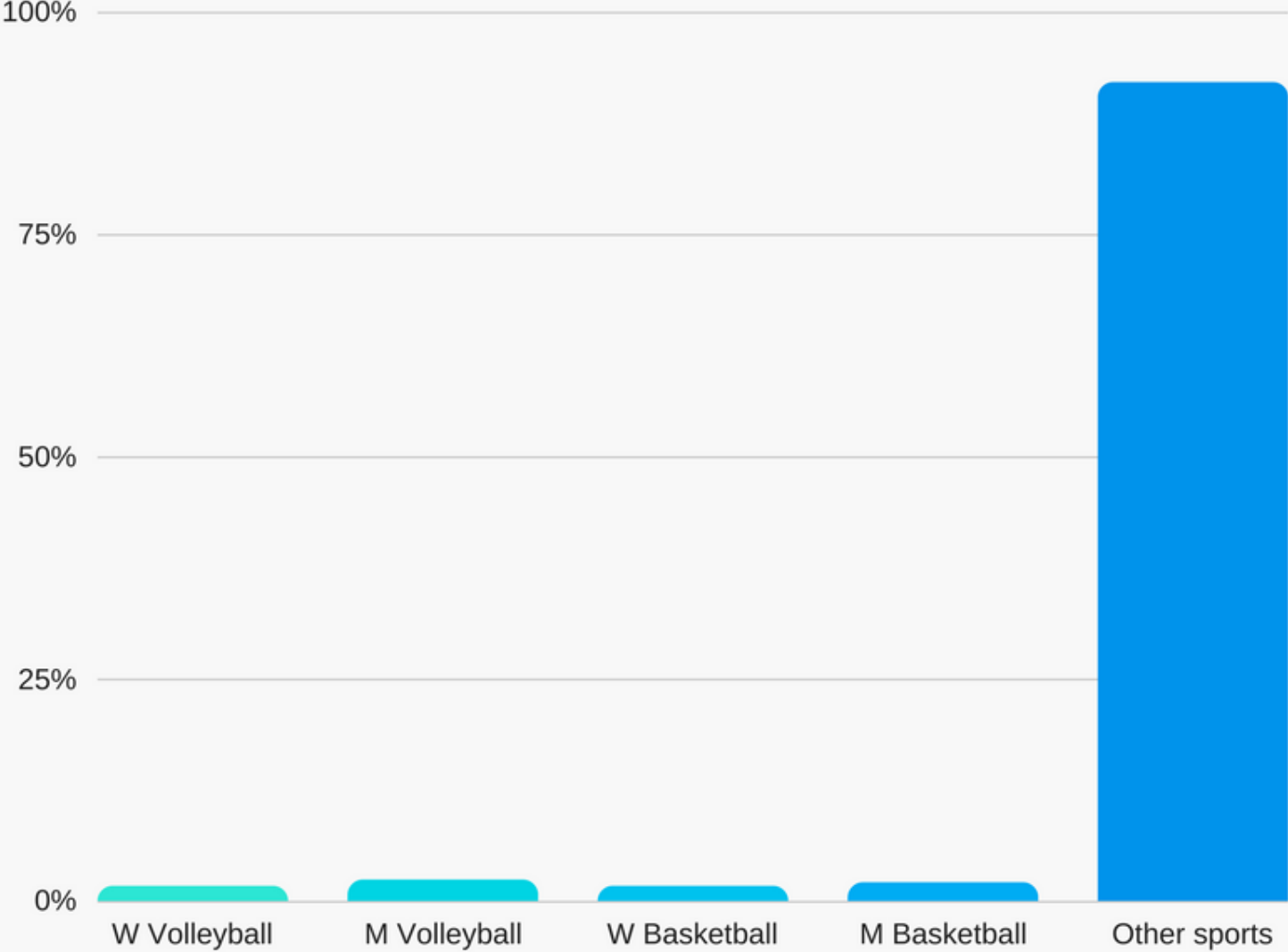
HOW ARE OUR TEXTILES RECYCLED?

Re-use

Down cycle

Upcycle

PARTICIPANTS



RECYCLING RESULTS

Women's Teams

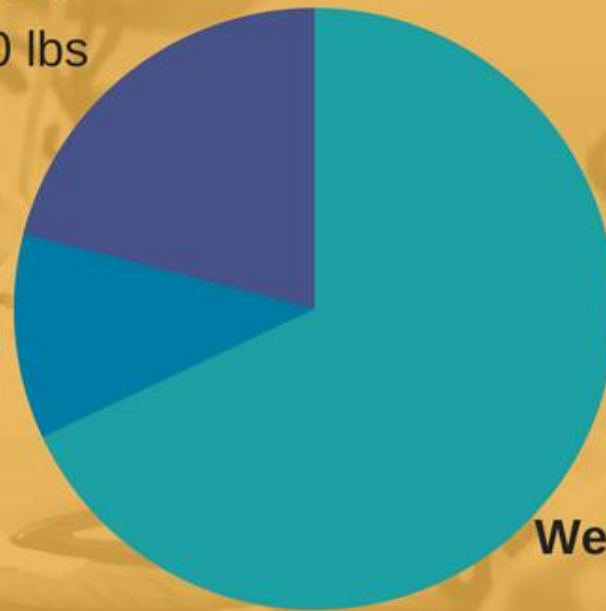
21%

30 lbs

Men's Teams

11%

16 lbs



Welcome Centre

68%

94 lbs



SURVEY

SURVEY...

Assesses the sustainability literacy of varsity athletes, to better understand how they view the environmental impact of their sport.

Asks...

- Athlete's understanding of sustainability
- Perception of team and venue's environmental impact
- Solutions to decrease environmental impact



Questions...

- When you hear the word sustainability, what comes to mind?
- How do you think your sports team impacts the environment?
- What suggestions do you have for your team to improve it's environmental impact?





SPREADING AWARENESS

SPREADING AWARENESS

UBC
SUSTAINABILITY
WEBSITE

TAC

GO
THUNDERBIRDS
WEBSITE

THE PROVINCE

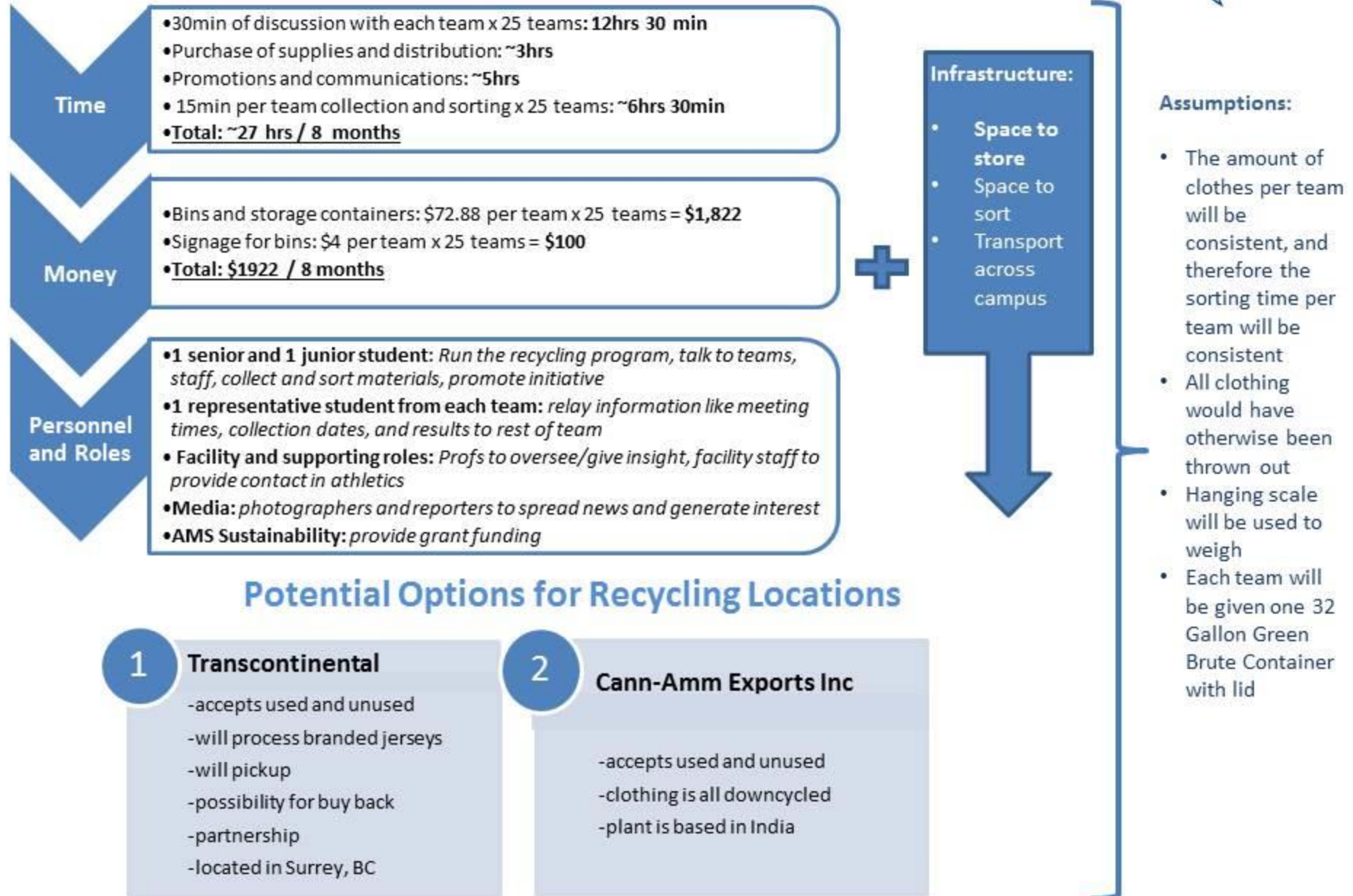
AMS
SUSTAINABILITY
MONTHLY
NEWSLETTER

UBC WEBSITE



RECOMMENDATIONS

UBC Recycling Implementation Model



2.2 lbs/athlete/semester

= 4.4 lbs/athlete/year (assume 8 month school year)

= 4.4 lbs/athlete/year * 762 athletes = 3,352.8 lbs/year

= 3,352.8 lbs/year * \$0.15/lbs = \$502.92/year

= \$502.92/year * 5 years = \$2,514.60/5 years

*Opportunities to include staff and coaches (approximately 100) and sport fans

Recommendations

- Create a position for an athletics sustainability coordinator (work learn/ paid)
- TAC sustainability representative
- Host zero-waste game day events
- Purchase recyclable and lower-impact gear
- Purchase "sort it out" bins for all athletics facilities
- Pursue LEED certification for new gym and stadium

**THANK
YOU!**

