CRAFT BREWERS CONFERENCE

& BrewExpo America®

Track & Yield: A Winner's Guide to Safety and Sustainability Key Performance Indicators

May 3

1:30 AM-2:30 PM CT





MATT GACIOCH

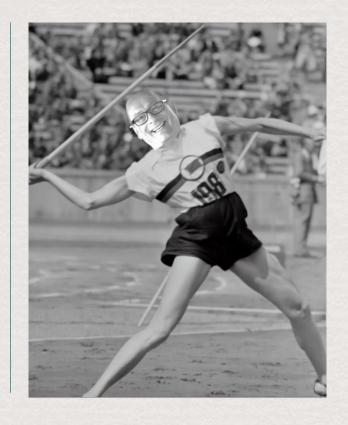
Sustainability Ambassador

BREWERS ASSOCIATION

MATT STINCHFIELD

Safety Ambassador

BREWERS ASSOCIATION



AGENDA



AGENDA

"SaSu" means SAFETY and SUSTAINABILITY

Introduction

- SaSu commonalities
- Focus: high impact/low investment improvements
- Applicable to all sizes
- Examples
- Your participation
 - Slido Polls
 - Q&A

Indicators Primer

- All About Indicators
 - What are they?
 - Why use them?
 - How to use them?
- Types of Indicators
 - KPIs, OKRs, SMART
- Indicator Selection
 - Choices, pitfalls
 - Behavior modification

Examples and Resources

- Safety Indicators
 - Cultural/behavioral
 - Process monitoring
 - Cost/injury control
- Sustainability Indicators
 - Utilities
 - Environmental footprint
 - Cost
- Additional Resources
 - Downloads



ALL ABOUT INDICATORS



What Are Indicators?

Performance Managing Indicators

Metrics that reflect how well stated goals and objectives are being achieved

Qualitative

Leading

Inward

Quantitative

OR Lagging

Outward



Why Use Indicators?

Scientists Say So

- In manufacturing (Batti, et al. 2014)
- In NGOs (<u>de Waal, et al. 2011</u>)
- In corporate responsibility (<u>Lyon 2004</u>)

Low- to No-Cost

Co-Benefits

- Workforce Motivation
- Efficiency Improvement
- Quality/Big Picture Performance
- Corporate Image



How to Use Indicators?



- Measure human performance
- Track resource usage
- Assess progress towards goals
- Help improve business decision-making
- Building strategy for the future

Types of Indicators

	KPI	OKR	SMART
Acronym	Key Performance Indicators	Objectives & Key Results	Specific, Measurable, Attainable, Realistic, Time- Bound
Timeline	Annually	Quarterly	Annually
Outcome	Understanding Performance	Team Goals	Company or Dept Goals
Order of Operations	First	Following	Following
Who Creates Them?	Teams	Managers	CEO



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INDICATOR SELECTION



Defining Sustainability

Brundtland Commission

Meeting the needs of the present without compromising the ability of future generations to meet their own needs

Defining Safety

US Department of Defense

Freedom from those conditions that can cause death, injury, occupational illness or damage to or loss of equipment or property, or damage to environment.

MIL-STD-882C ¶3.2.13

Data Quality Objectives

Think backwards from future decisions:

- Business decision-making
- Demonstrate achievement

What Indicators Should I Use?

What inputs (data) will answer my question?

AND

Are those inputs obtainable, reliable, trackable, durable?



Selecting Meaningful Metrics

Common Pitfalls

- Quantity: too much vs too little
- Complexity: easy vs difficult
- Bubble: insufficient involvement
- Value: relevance, recording zero values
- One-Track: ex. only fiscal
- Static: not tracking over period

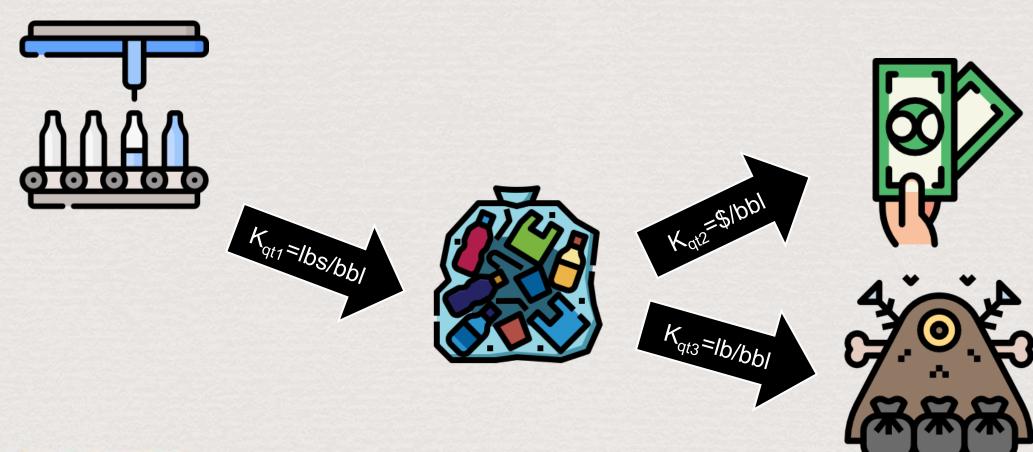
Behavioral Measurement Challenges

- Subjectivity
- Measurement design
- Behavior is product of beliefs, values, perceptions, experience, socialization

Use both Leading & Lagging Indicators, but Emphasize Leading When Possible

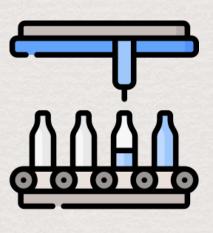


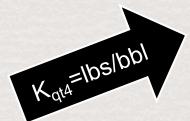
Visualizing KPIs

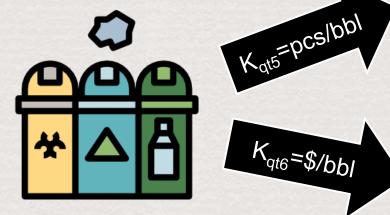


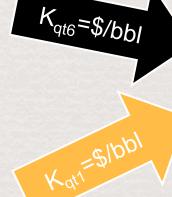


Ex: Track a New Process





















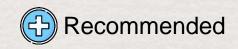


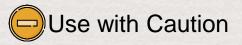
EXAMPLE SAFETY INDICATORS

	LAGGING	LEADING
QUALITATIVE	OSHA citations	Preventive maintenance schedule
	Missed training deadlines	Near miss reports
		Employee perception of management commitment
QUANTITATIVE	Sick rate or overtime rate Tatal recorded to initiate rate (TDID)	Training investment per capita, i.e., Total training hrs/yr x pay rate
	Total recordable injury rate (TRIR) Worker's comp premiums (EMR)	Frequency of safety meetings, toolbox talks
		Percent of management with safety training







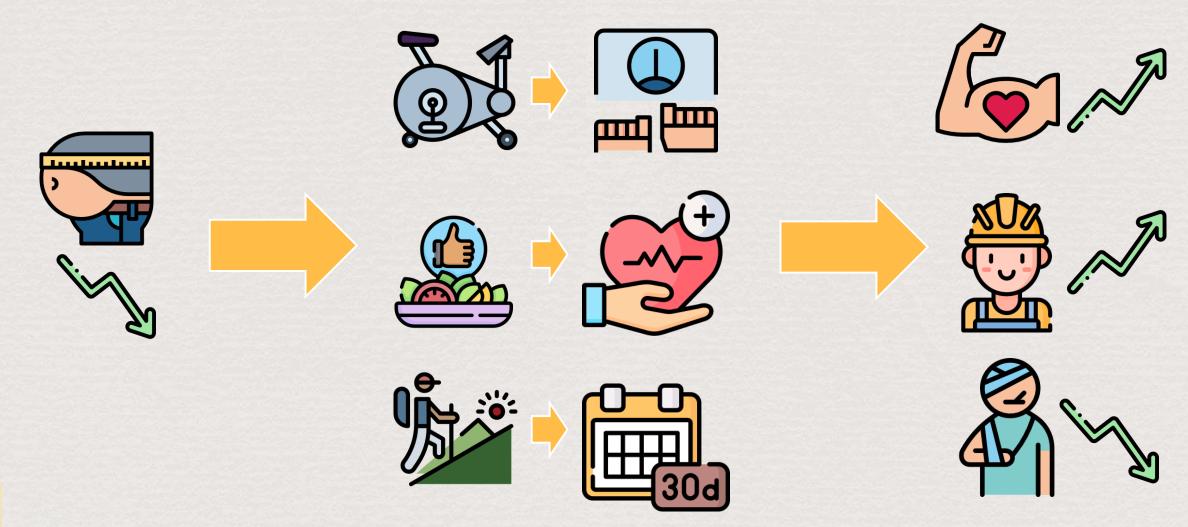




Wellness to Wellbeing Relationship



Wellness to Wellbeing Relationship





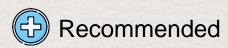


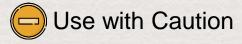
SUSTAINABILITY INDICATORS

	LAGGING	LEADING
Utility Indicators	 Normalized Utility Usage (monthly) Electricity (kWh/bbl) Natural Gas (therms/bbl) Water (bbl/bbl) CO2 Usage (lbs/bbl) Solid Waste (lbs/bbl) 	One point of contact to collect data, plug into analysis tool, and report out Regular Green Team analysis meeting



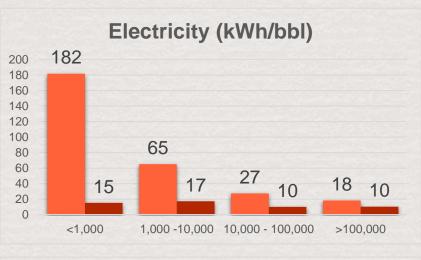


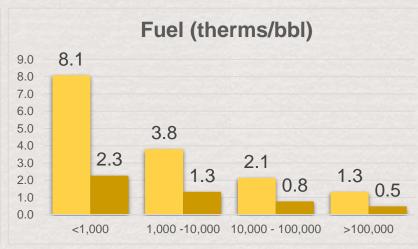


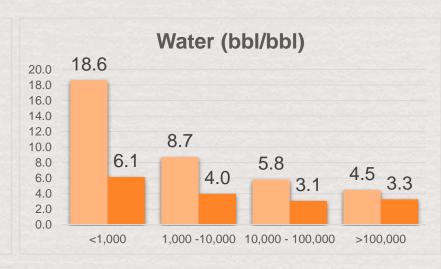


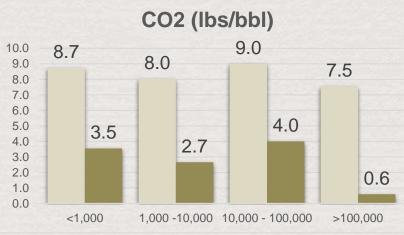


SUSTAINABILITY INDICATORS













Source: 2014-2021 BA Benchmarking Data



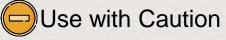
SUSTAINABILITY INDICATORS

	LAGGING	LEADING
Direct Environmental Indicators	GHG Emissions (CO ₂ e) • Scope 1: Direct • Scope 2: Indirect • Scope 3: Supply Chain Wastewater • Volume (gal) • Strength (BOD,COD,TSS)	Supply chain miles CO ₂ recapture
Cost Indicators	 Utility Fees (Normalized & Actual) Energy Fees Water/Wastewater Fees CO₂ Fees Waste Disposal Fees 	Investment/reinvestment in sustainability projects Contributions to environmental partners









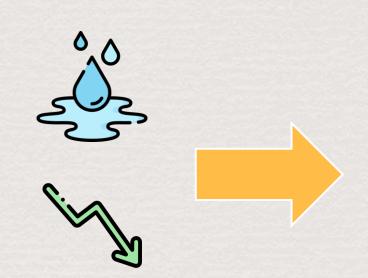


Water Use to Efficiency Relationship



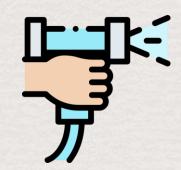


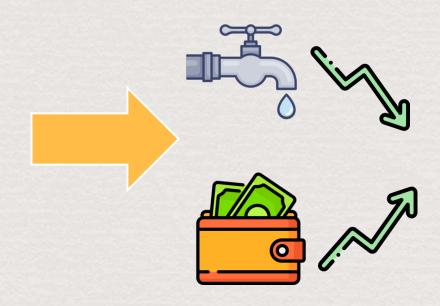
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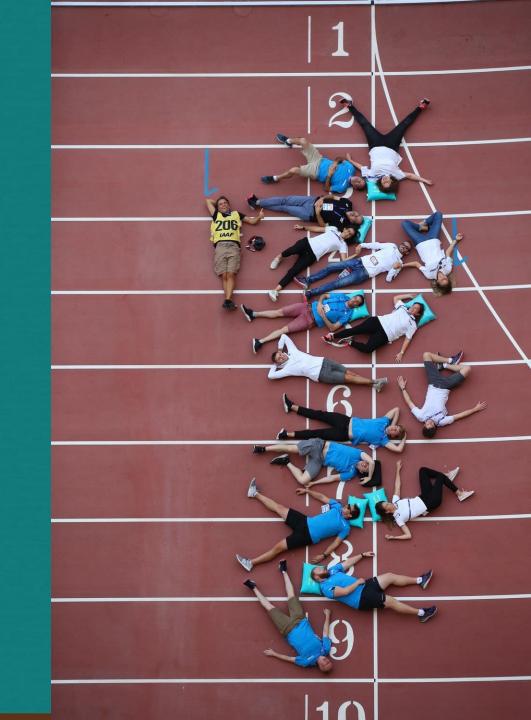








WRAPPING UP



BA Resources



BrewersAssociation.org

- Presentations
- Guidance
- Manuals
- Benchmarking
- Videos
- BA Forum
- More!





Other Industry Groups

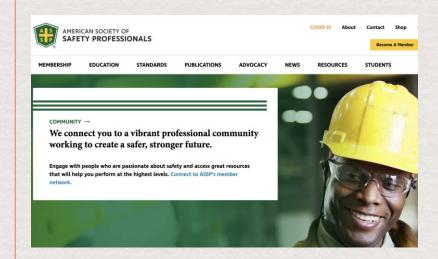


Sustainability - Trade Groups

- National Barley
 Growers Association
- Hop Growers of America
- MBAA Sustainability

Safety - Trade Groups

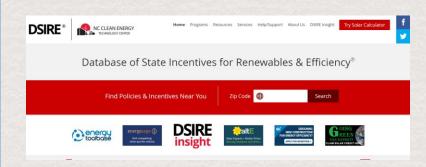
- National Safety Council
- American Society of Safety Professionals
- MBAA Safety
- ASBC Lab Safety

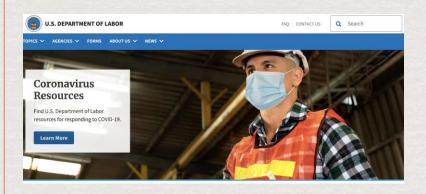


Government Resources

Sustainability – Government Resources

- <u>Database of State</u>
 <u>Initiatives for</u>
 <u>Renewables &</u>
 <u>Efficiency</u> (DSIRE)
- Pollution Prevention Institute (SBEAP)
- Local Utility Incentives





Safety – Government Resources

- OSHA
 - Safety and Health Programs Bulletin
 - Find Free OSHA Consultation
- NIOSH/CDC
 - Well-Being Tools
 - PPE Resources



SUMMARY



KPI Review

- Setting the Baseline
- All About Indicators
 - What, Why, & How
- Types of Indicators
 - KPI vs. OKR vs. SMART
- Indicator
 Selection
 - Quantity, Complexity, Bubble, Value, One Track, Static

- Safety Indicators
- Sustainability Indicators
- Resources

Come meet us at the BA Booth!

Matt G: Tue 3-4 PM & Wed 11 AM – Noon

Matt S: Wed 2:30-3:30 PM & Thu 1-2 PM

THANK YOU!

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