

Setting the Stage for Positive Outcomes:

Three Ways to Structure a Sustainability Charrette

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Course / Learning Objectives

1. Review three different frameworks for organizing a sustainability charrette and setting project goals.
2. Understand how a sustainability charrette can be used as a tool for broad team education and buy-in.
3. Learn how to develop and track project sustainability goals that are ambitious, measurable, and achievable.
4. Learn how to elevate the importance of measurable sustainability metrics in your design process, practice, and projects.

On Charrettes

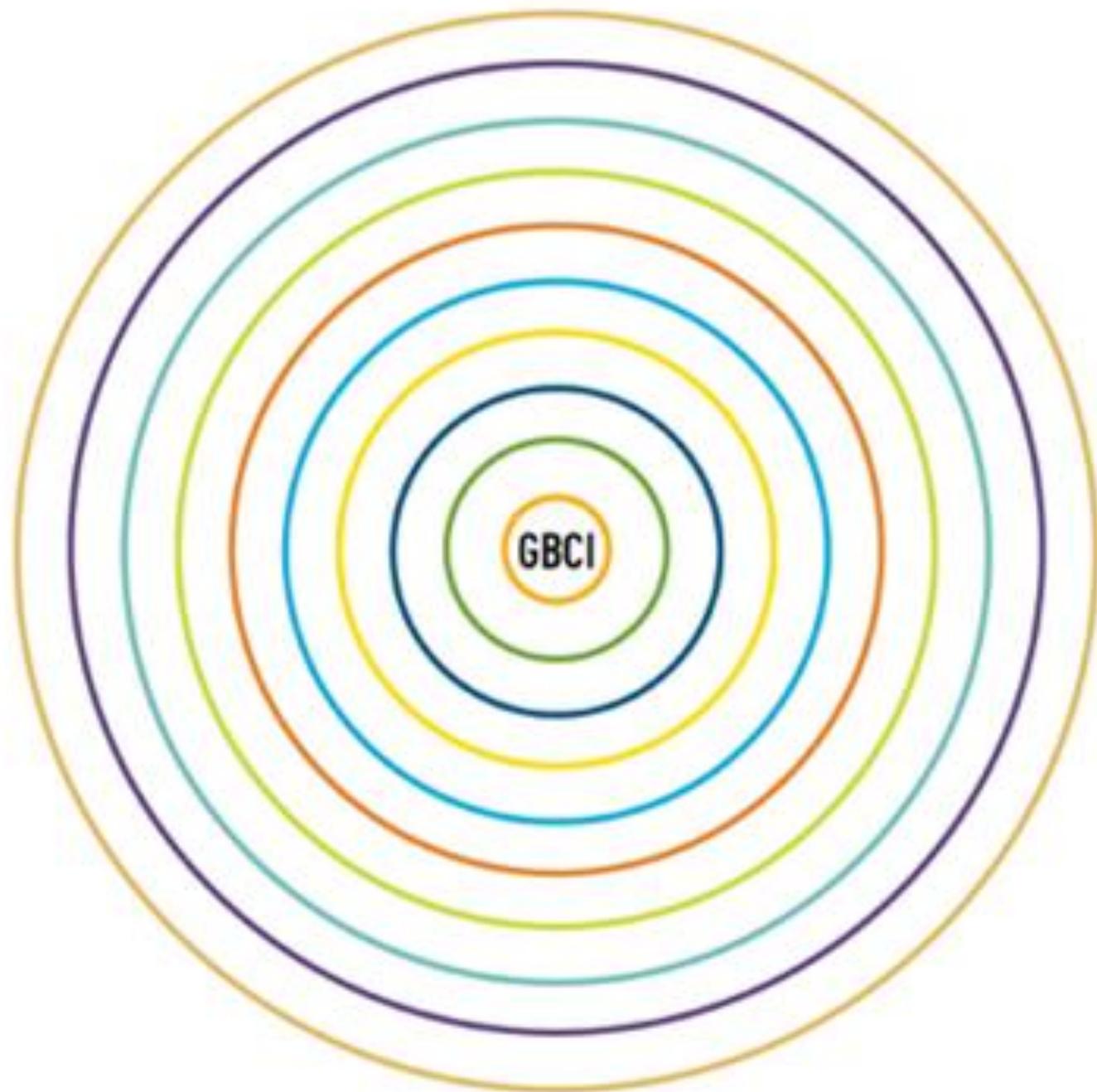


Setting the Stage



Charrette Goals & Desired Outcomes

What each program is and how it determines Charrette Outcomes



LEED

WELL

PEER

GRESB

SITES

EDGE

PARKSMART

ZERO WASTE

ICP

BUILDING DESIGN AND CONSTRUCTION



A'18 AIA Conference on Architecture 2018
June 21-23, New York City

LEED ○ **LBC** ○ **COTE**

LEED® Facts
Building size 12,000 square ft
Type of building
LEED for Core & Shell Development
Certification awarded July 27, 2006
Platinum
Sustainable Sites 13/15
Water Efficiency 5/5
Energy & Atmosphere 12/15
Materials & Resources 6/9
Indoor Environmental Quality 10/13
Innovation & Design 3/5
*Out of a possible 62 points

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Charrette Goals & Desired Outcomes



Vision >

Goals >

Strategies>

Performance Metrics

Verification Methods

LEED Targets

Charrette Goals & Desired Outcomes



Build a engaged,
cohesive team

Draw out key drivers of
owner and stakeholders

Deepen understanding of
site and program

Seek out synergies

Test drive Integrative
Process



Instead of a world that is merely a less bad version of the one we currently have, we ask a simple and profound question—

WHAT DOES GOOD
LOOK LIKE?



BREAKING PARADIGMS,
CREATING NEW MODELS

IT'S TIME TO
IMAGINE A
LIVING FUTURE
AND A WORLD OF
LIVING BUILDINGS



**LIVING
BUILDING
CHALLENGESM
3.1**

**A Visionary Path to a
Regenerative Future**

PETALS

PLACE

WATER

ENERGY

HEALTH &
HAPPINESS

MATERIALS

EQUITY

BEAUTY



**LIVING
BUILDING
CHALLENGE**

LIVING CERTIFICATION

All imperatives are
mandatory

Certification is
based on actual
performance



PETAL CERTIFICATION

Three Petals or more

One of which must
be either Water,
Energy or the
Materials Petal

As well as imperatives
01: Limits to Growth
20: Inspiration +
Education



ZERO ENERGY CERTIFICATION

Zero Energy
(100% only)

Charrette Goals & Desired Outcomes

- Understand holistic systems-thinking approach of the Living Building Challenge
- Build an interdisciplinary, interactive team
- Get buy-in for the challenge of achieving the LBC
- Identify challenges and opportunities

COTE is not what you think it is.

'18

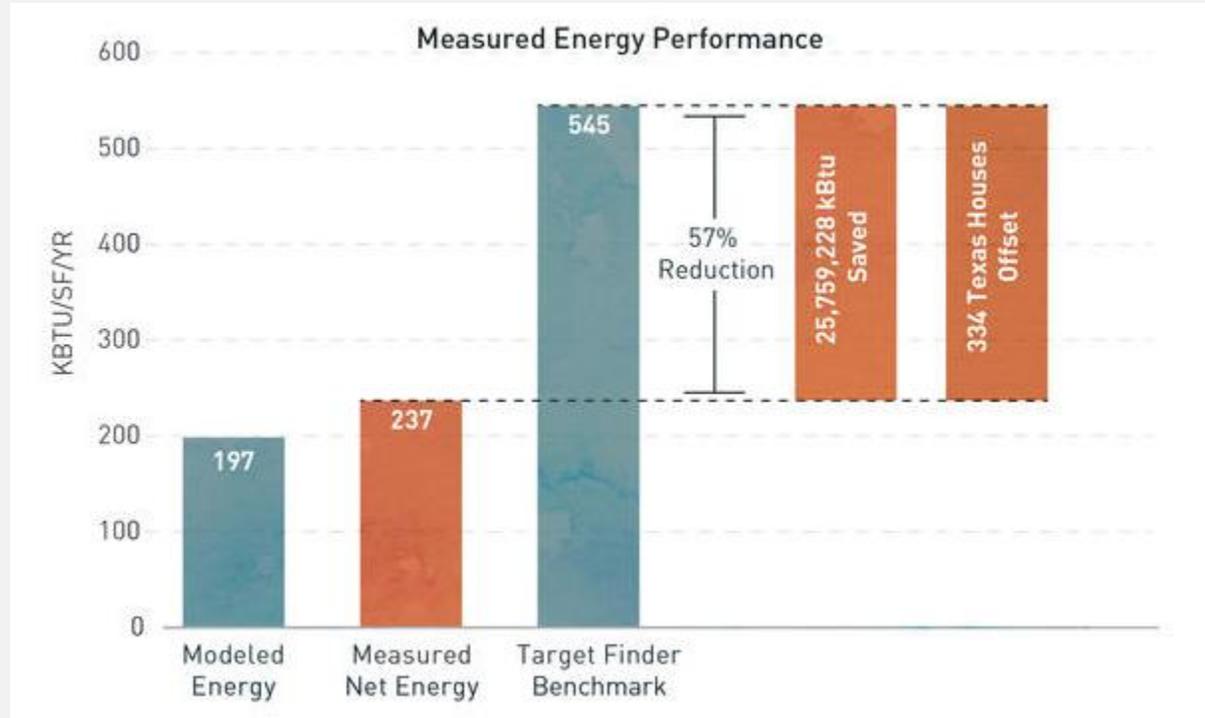
LEED ○ LBC ○ COTE

COTE Top Ten is a Framework That Can Guide Any Project Towards High Performance

'18

LEED ○ LBC ○ COTE

Metrics & Benchmarks



Narratives



With the goals of supporting the revitalization efforts of downtown San Antonio, minimizing negative environmental impact through adaptive reuse, and creating a space that inspires collaboration within its firm, the design team transformed the warehouse into an innovative yet functional architectural studio.

Images



Charrette Process

Best Practices for putting together a successful sustainability charrette

Leading up

Day of

Follow up

Charrette Process

Throw open the doors!

Invite design team, users, builder, operators, stakeholders, community....

Know your guests

Be prepared to meet them where they're at.

Develop your menu

Assign research and presentations to team, prepare, plan, practice

Set the mood

Plan and back up plan location(s), seating, props, timing and flow

Charrette Process

- A. Introductions and Setting the Tone
- B. Goals of the Exploration
- C. Immersion Exercise
- D. Explore Context
- E. Investigate Living Building Challenge
- F. Connect the Discoveries into the Project
- G. Integration Exercise
- H. Outline Project Roadmap

TIPS:

- Bring a natural object
- Include team building
- Make time to connect to the place

Leading up →

Day of →

Follow up →

Post-Charrette Process

If all went well,
you've walked away agreeing on something

There are three ways this could go...

Let the charrette goals guide the team towards a realization of the original vision.

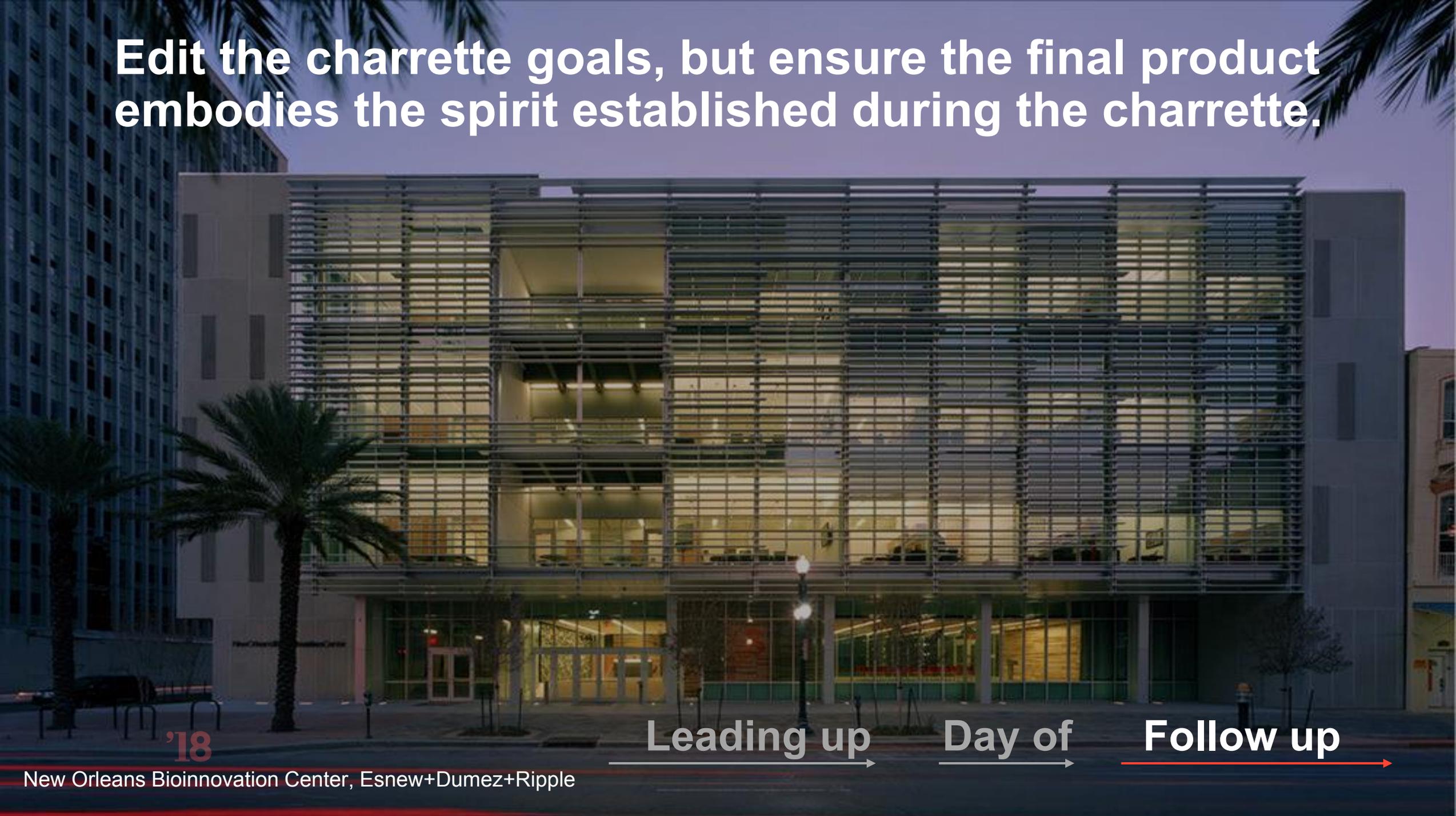


Leading up

Day of

Follow up

Edit the charrette goals, but ensure the final product embodies the spirit established during the charrette.

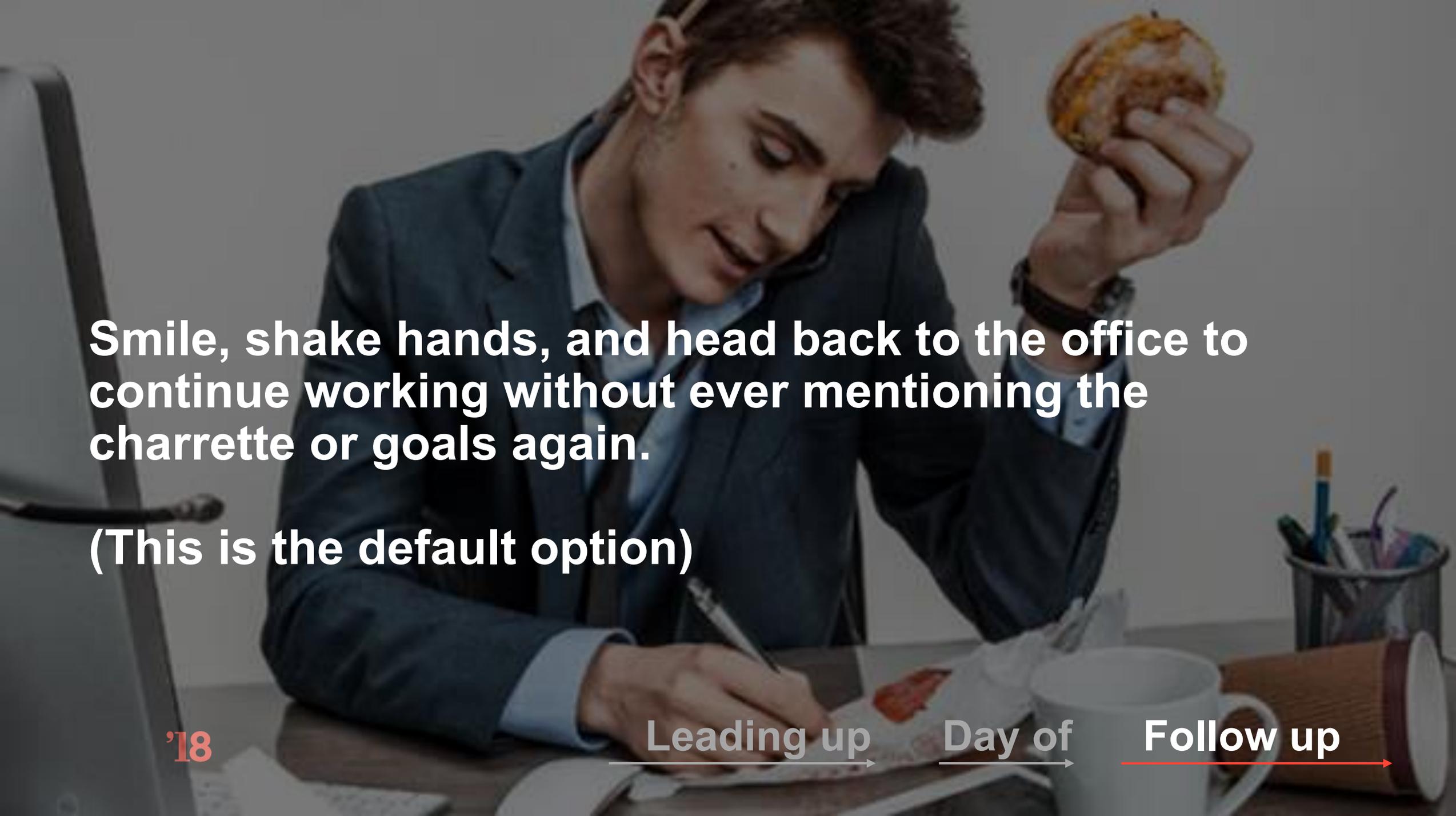


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Leading up →

Day of →

Follow up →

A man in a dark blue suit and light blue shirt is sitting at a desk. He is holding a burger in his left hand and talking on a mobile phone. He is looking down at a document on the desk with a pen in his right hand. On the desk, there is a white mug, a pen holder with various pens, and a brown cylindrical object. The background is a plain, light-colored wall.

Smile, shake hands, and head back to the office to continue working without ever mentioning the charrette or goals again.

(This is the default option)

'18

Leading up →

Day of →

Follow up →

Setting the stage for follow through

- Set the right goals - **Interesting, design based, measurable**
- A team member needs to own goal tracking.
- Goals should be thought about daily by those implementing them.
- Kick off an integrated design process - **Plan more face to face team meetings**

Performance Goals v Prescriptive Goals



Phipps Center for Sustainable Landscapes,
The Design Alliance

Leading up

Day of

Follow up

If something changes, refine the goal

- **Carry the spirit of the goal through the project**
- **Get full team buy-in on any goal changes**

Celebrate Success!



Josey Pavilion, Lake|Flato

Leading up

Day of

Follow up

Charrette Content

What content is essential to get across for each framework

Charrette Content

Set the Table: Background of Site, Project, Sustainability and LEED

Share the Menu

LEEDv4 Site Assessment

Topography, Soils, Vegetation, Habitat, Hydrology, Human Use

LEEDv4 Integrative Design

Early Energy Modeling Siting, Massing, Envelope, Lighting needs, Thermal Comfort needs

Early Water Balance

Water Sources, Interior, Exterior and Process Water Demand

Balance technical analysis with deeper story of energy, water, and site

Balance technical presentations (receiving) with experiential (doing)

Charrette Content

Develop a deep understanding of climate, culture, and community.

Strong community starts with the project team.

Seek synergies between systems.

Look for simple, passive strategies.

COTE Top Ten Framework

COTE Top Ten Toolkit



AIA COTE MEASURES OF SUSTAINABLE DESIGN



Measure 1
DESIGN FOR INTEGRATION



Measure 6
DESIGN FOR ENERGY



Measure 2
DESIGN FOR COMMUNITY



Measure 7
DESIGN FOR WELLNESS



Measure 3
DESIGN FOR ECOLOGY



Measure 8
DESIGN FOR RESOURCES



Measure 4
DESIGN FOR WATER



Measure 9
DESIGN FOR CHANGE



Measure 5
DESIGN FOR ECONOMY



Measure 10
DESIGN FOR DISCOVERY

Best Practices

“Studs are placed 16” on center, window are is kept below 40%”

So what does everyone think?

Let's get in the charrette spirit and discuss some ideas.

With those sitting by you, respond to the following questions...

Charrette Goals & Desired Outcomes

For five minutes, discuss:

- 1) Which charrette framework seems most compelling?**
- 2) What are the most important outcomes of a charrette?**

And then five minutes to report back

Charrette Process

For five minutes, discuss:

- 1) Which charrette elements seems most important to get right?**
- 2) How would you judge the success of charrette day?**

And then five minutes to report back

Charrette Content

For five minutes, discuss:

- 1) What information seems most important to get across?**
- 2) What will you bring to your next charrette or kick off?**

And then five minutes to report back

Thank you!