RESOURCE COUNCIL
Minutes for September 23, 2021
(12:50pm-2:50pm)
Via Zoom

Meeting Participants:

Committee Members Present

Esmeralda Abejar, Mike Angeles, Courtney Buchanan, Michael Collins, Sheri Cologgi, Teresa Friedrich Finnern, Steve Marshall, Gustavo Oceguera, Edwin Romero, Makenna Ashcraft (ASNC Rep)

Committee Members Not Present

Andy Aldasoro, Jim Rossum

Guest(s)

Ana Molina, Alex Zadeh, Mahdi Afkhami, Hussain Agah, Maria Romero-Tang, Mehran Mohtasham, Max Murphy DLR: Linsey Graff, Lindsey Peres, Isheanesu Tendayi, Christopher Lawrence, Prem Sundaram, C. Flynn and Shona O'Dea.

1. Call to Order

1.1 12:51pm

1.2 Public Comments (M. Collins)

- None

2. Action Items

2.1 Approval of Agenda (M. Collins)

- MSC (Marshall/Buchanan)

2.2 Approval of Minutes from August 26, 2021 (M. Collins)

- MSC (Romero/Marshall)

3. Information Items

3.1 Norco College Sustainability Project "VALUES" Workshop (DLR Group)

- Introductions of DLR Group Team and District Representatives (Agah/Mohtasham)
- The Norco Sustainability Project overview was presented and expectations as stakeholders was discussed.
    - There are 9 various workshops that will take place throughout the Fall semester and everyone is encouraged to participate and spread the word.
    - Volunteers for the Norco Sustainability Task Force was requested and it was noted that Teresa Friedrich Finnern offered to join.

- Breakout groups were assigned and the “Values” workshops commenced.
    - Group 1 comments and discussions:
        - Local sourcing importance
        - Health, economic, decarbonization, etc.
        - Outdoor climate concerns and utilization (Wind/shade structures/etc.)
        - Sustainability and renewable energy
        - Resiliency and to make sure adequate emergency planning are in place for natural disasters/pandemics/etc., while addressing the financial aspects that happen during emergencies.
        - Equity and inclusion to remain at the forefront of planning
    - Group 2 comments and discussion:
        - Inclusivity and maintain a welcoming environment for both Students and the Community.
        - Carbon reduction goals
        - Energy reduction issues and goals
        - Automobile charging stations needs
        - Transportation ideas were discussed (reduce heat from pavement by adding parking structures for shade/solar/etc.)
        - Grow the City of Norco partnership and improve relationships for potential joint sustainability projects moving forward
        - Eco-system services / incorporate nature in future planning and development of the campus
        - Improvement for air quality for indoor spaces
        - Biological sustainability

4. Good of the Order

- N/A

5. Adjournment

- MSC (Buchanan/Friedrich Finnern)
- 2:19pm

Next Meeting:

- October 28, 2021

Meeting Minutes

DLR Group
Architecture Engineering Planning Interiors

1650 Spruce Street, Suite 300
Riverside, CA 92507

Meeting Date	09.23.2021
To	Hussain Agah, Mehran Mohtasham, Myra Nava
From	DLR Group
Location	via ZOOM
Project	RCCD: Sustainability and Climate Action Plan
Project No.	N/A
Attendees	Linsey Graft, Lindsey Perez, Shona O'Dea, Prem Sundharam, Chris Flynn, Hussain Agah, Majd Askar, Mahdi Afkhamiaghda, Isheanesu Tendayi, Mehran Mohtasham, Michael Collins, Courtney Buchanan, Christopher Lawrence, Esmeralda Abejar, Mike Angeles, Ana Molina, Steven Marshall, Alex Zadeh, Teresa Friedrich.
Purpose	Norco Resource Council VALUES Session

Agenda:

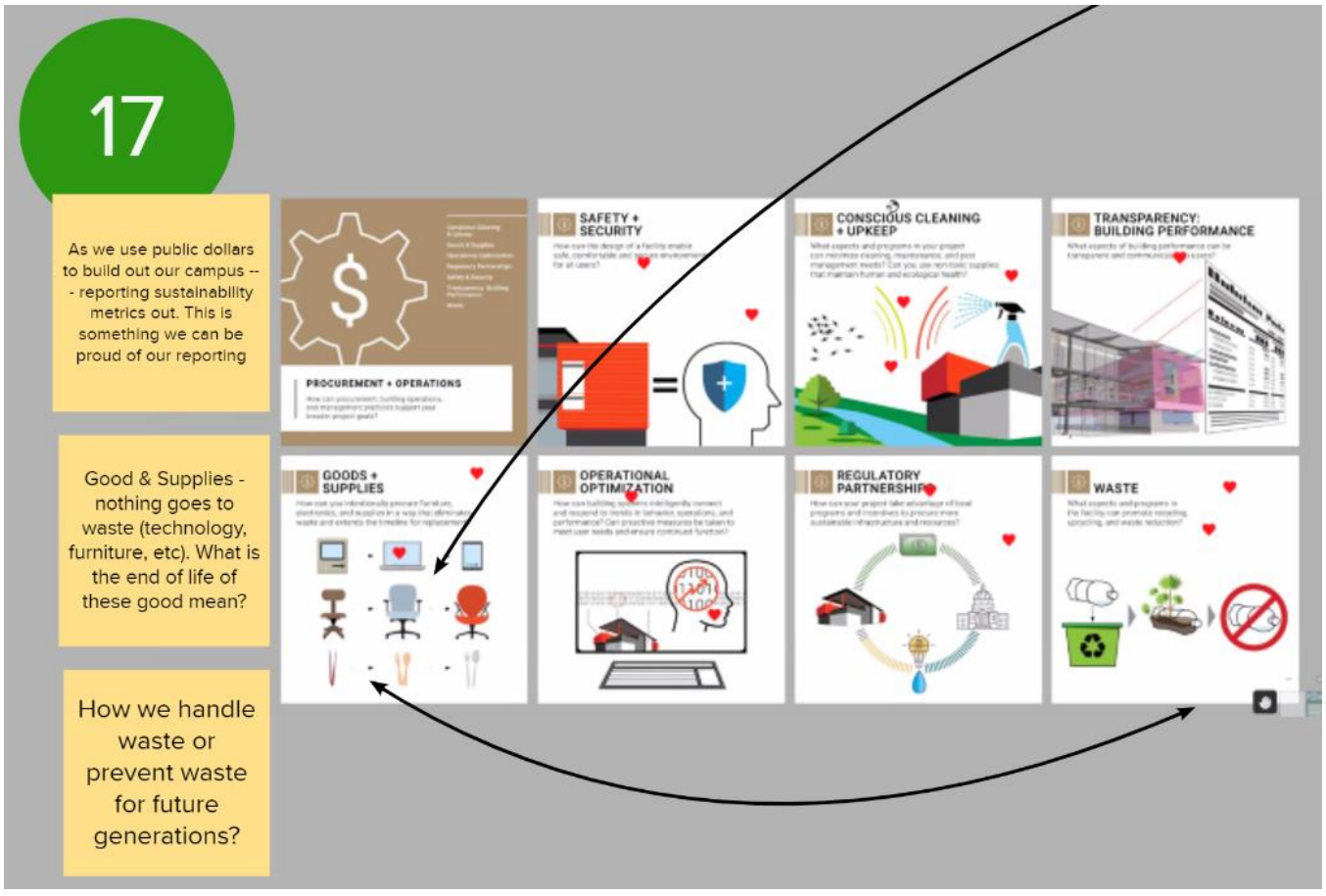
- **Welcome: Introduction of the project (10 min)**
- **Activity: Prioritize your VALUES (60 mins)**
- Breakout: Prioritize VALUES themes (50 min)
  - *What does each group value?*
  - *What themes matter most?*
- Regroup: Share out and Reflections (10 min)
  - VALUES SHARE: 4 min
  - REFLECTIONS: 6 min
    - *What did you hear that surprised you, excited you, made you think?*
    - *Now that you've heard everyone else, did you have any thoughts?*

Link to Mural for Activity for Viewing only:
https://app.mural.co/t/firstworkspace3639/m/firstworkspace3639/1632261792237/dec26a4d12bf0b2e19f5dc3d323907c0e88587d2?sender=lperez9220

Minutes:

- Welcome (**See attached slides**, 1-10)
  - All meetings will be recorded, and minutes posted for anyone unable to attend sessions.
  - DLR Group provided a brief overview the Integrated Planning Process, how the deliverables of this project will speak to other plans such as the District Strategic Plan, College's Strategic Plan, etc.
  - DLR Group described the deliverables of this project and denoted this process will have a lot of terminology we will review.
  - DLR Group introduced stamp features of Zoom to allow attendees to participate and engage in the VALUES activity.

- Activity (**See Notes from each breakout group**)
  - Attendees were divided into three groups and sent out into breakout rooms to learn more about the VALUES topics and prioritize which VALUES is where the District Sustainability Committee believes the district priorities around Sustainability and Climate Action should be invested.
- **Group 1**
  - STEP 1: Group 1 reviewed all 12 VALUES topics and stamped a heart of a card resonated with them and a question mark if they wanted more information. Group 1 drew many connections between the cards.



DLR Group
Orlando, Florida
o: 407/648-1331 f: 407/648-1433

STEP TWO: DISCUSS *Using the cards that resonated with the group in this step we will spend time prioritizing. Now imagine you were investing budget in 6 goals that would connect Sustainability to User Experience.* ***Which VALUE would have the most impact for your investment?***

CLOS
15 M

TOP 6 CARDS

Holistic Procurement - vendor transparency as it relates to boarder goals (health, economy, decarbonization)

Outdoor Environment - Land Use connected to Historical Context of Place and how to make outdoor environments more comfortable.

sustainable and renewable energy and decarbonization

resilience and emergency planning

equity and inclusion

7

7

9

9

12

10

10

12

9

17

11

9

more shade at outdoor spaces

solar panels double as shade

As we use public dollars to build out our campus – reporting sustainability metrics out. This is something we can be proud of our reporting

Good & Supplies - nothing goes to waste (technology, furniture, etc). What is the end of life of these good mean?

How we handle waste or prevent waste for future generations?

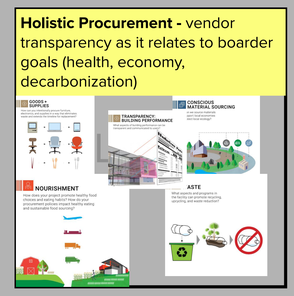
- STEP 2: Group 1 discussed the cards that resonated the most with the group.
- Group 1 spent time connecting many of the cards into boarder themes including Holistic Procurement, Outdoor Environment, Renewable Energy and Decarbonization, Resiliency and Emergency Planning, and Equity and Inclusion.

DLR Group
Orlando, Florida
o: 407/648-1331 f: 407/648-1433

CLOSING
15 MINS

TOP 6 CARDS

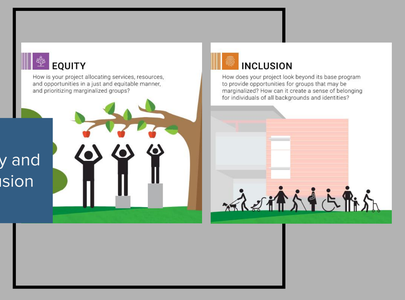
Holistic Procurement - vendor transparency as it relates to boarder goals (health, economy, decarbonization)



Outdoor Environment - Land Use connected to Historical Context of Place and how to make outdoor environments more comfortable.

sustainable and renewable energy and decarbonization

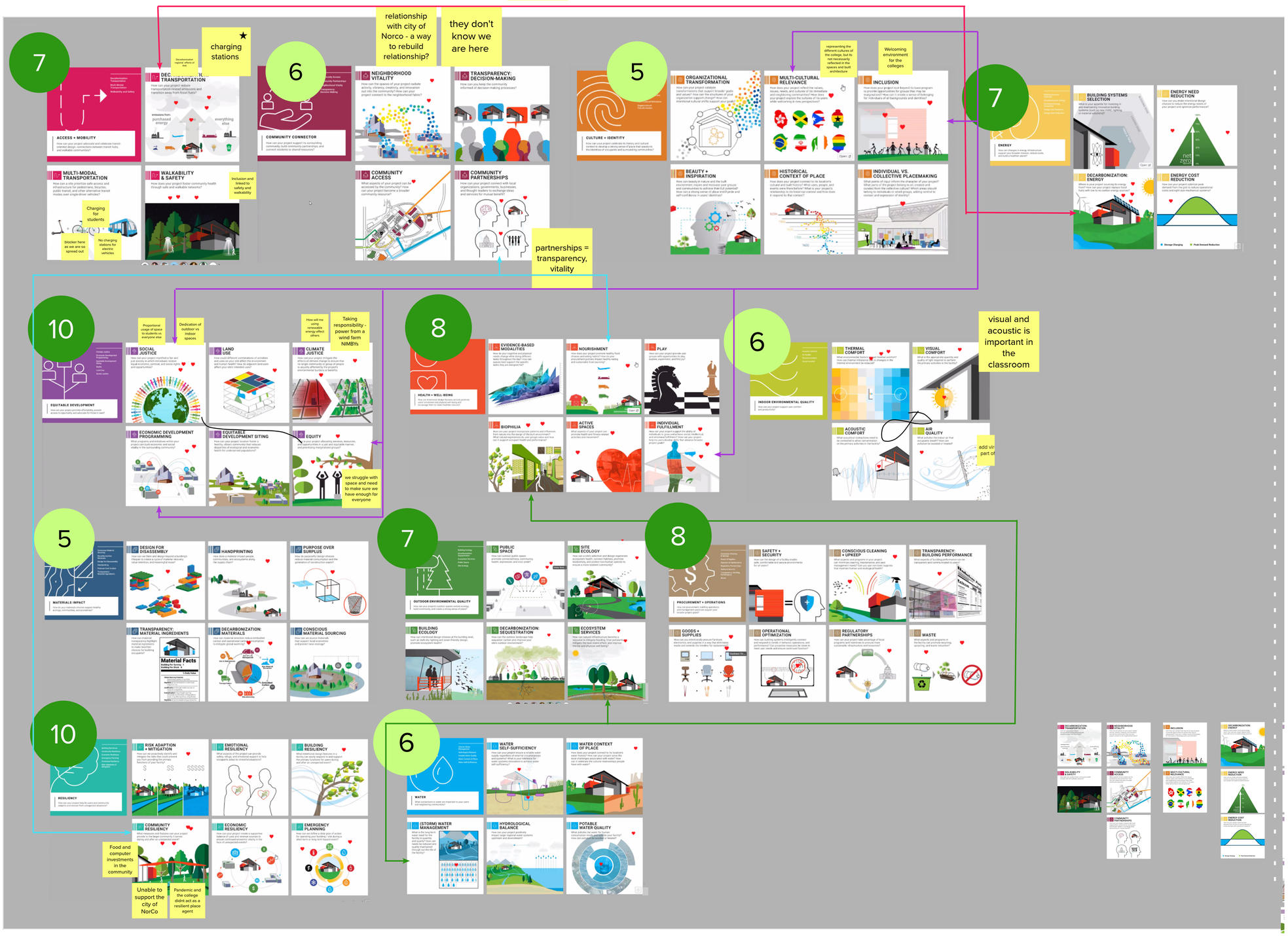
resilience and emergency planning



equity and inclusion

- **Group 2**
    - STEP 1: Group 2 reviewed all 12 VALUES topics and stamped a heart of a card resonated with them and a question mark if they wanted more information. Please review the mural link for a clearer view of this group's initial reactions. They spent time drawing connections between the cards as part of their discussion.

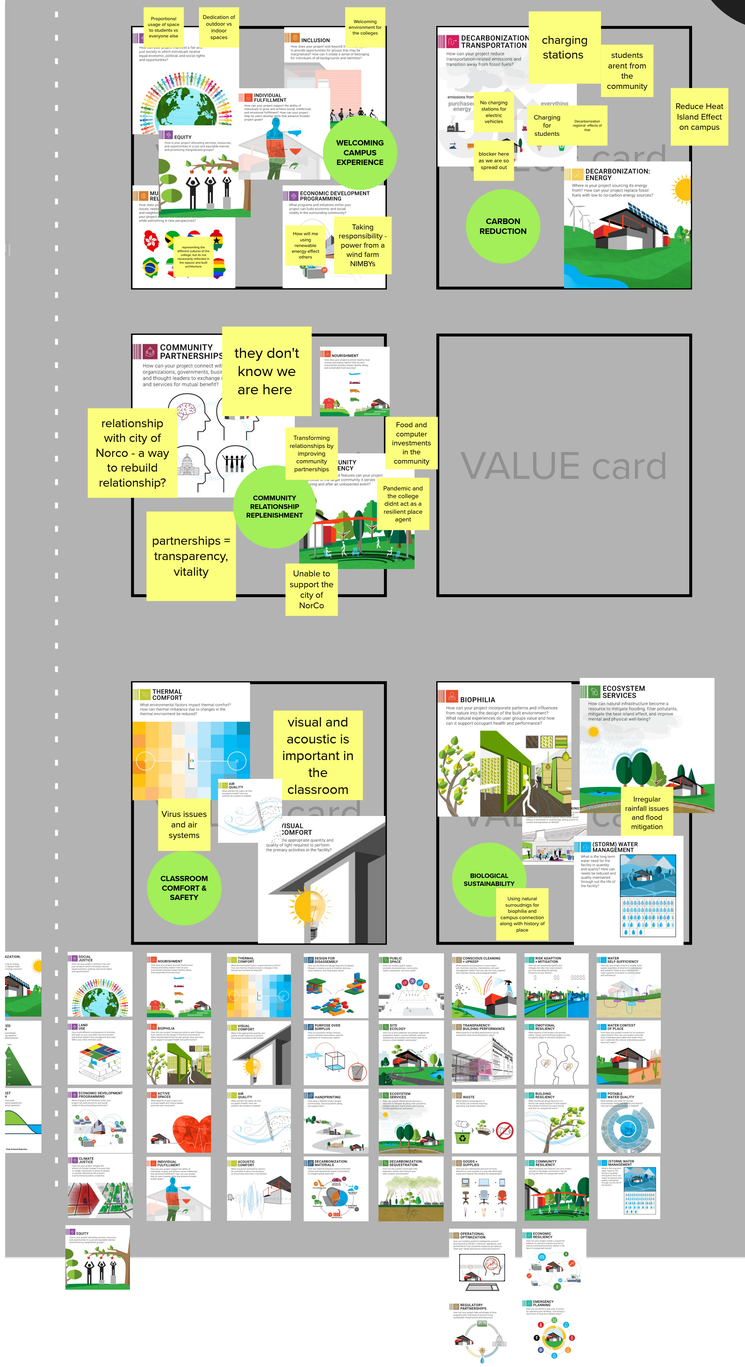
STEP TWO: DISCUSS *Using the cards that resonated with the group in this step we will spend time prioritizing. Now imagine you were investing budget in 6 goals that would connect Sustainability to User Experience.* ***Which VALUE would have the most impact for your investment?***



- STEP 2: Group 2 discussed their top VALUES: Group 2 has a robust conversation on many of the card topics, creating their own themes like Group 1. Welcoming Campus Experience, Carbon Reduction, Community Relationship Replenishment, Classroom Comfort and Safety, Biological Sustainability

CLOSING
15 MINS

TOP 6 CARDS



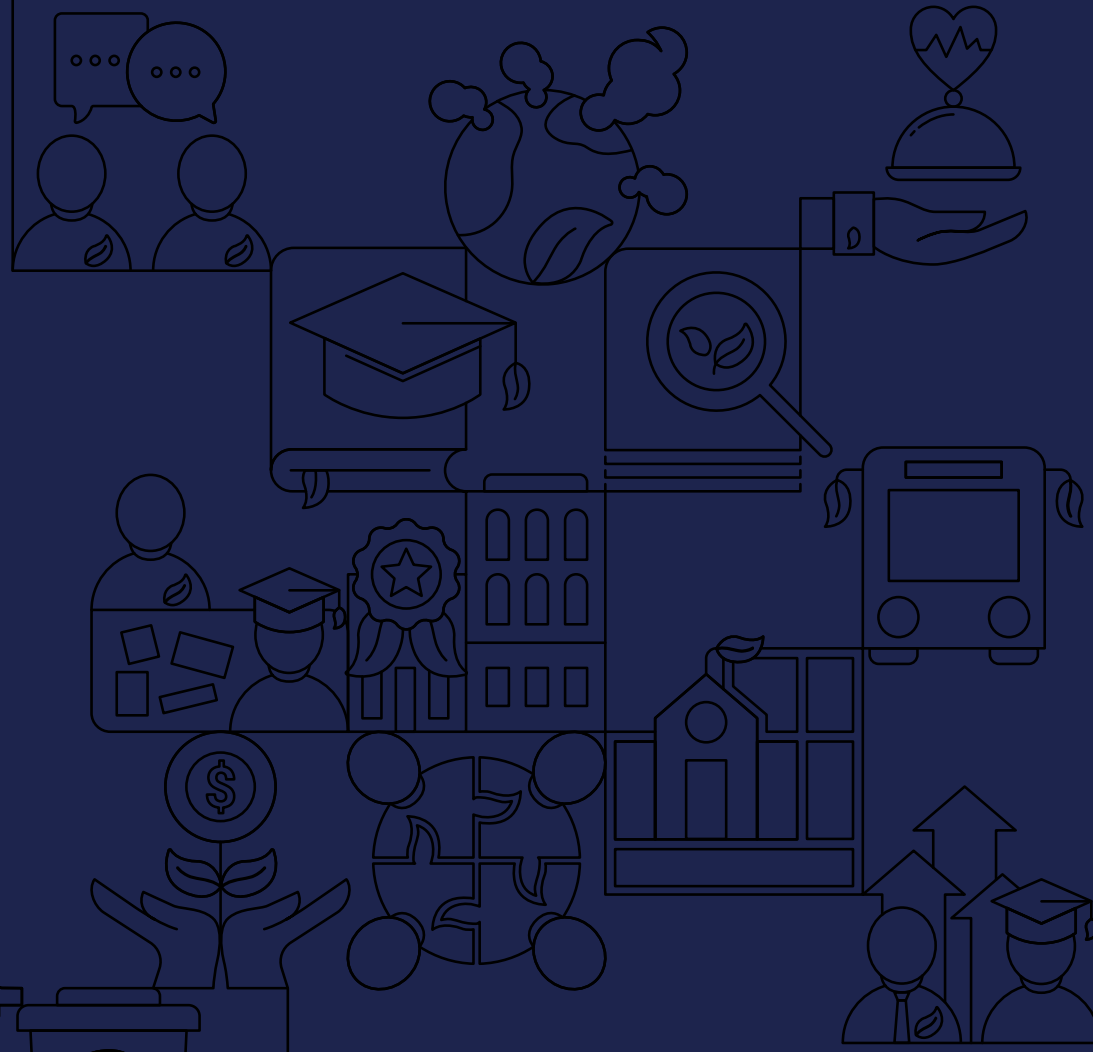
Session Conclusion:

- DLR Group will share out more about all the other VALUES sessions the next time we meet. We will uncover what is rising to the time so we can start to discuss goal setting around your VALUES.

DLR Group
Orlando, Florida
o: 407/648-1331 f: 407/648-1433

2021

SUSTAINABILITY AND CLIMATE ACTION PLAN



RCCD | RIVERSIDE COMMUNITY COLLEGE DISTRICT

Your Team

Leigh Anne Jones
Principal in Charge

Lindsey Perez
Sustainability and Climate Action Plan Leader

Prem Sundharam
Total Cost of Ownership Leader

Chris Lawrence
Project Manager

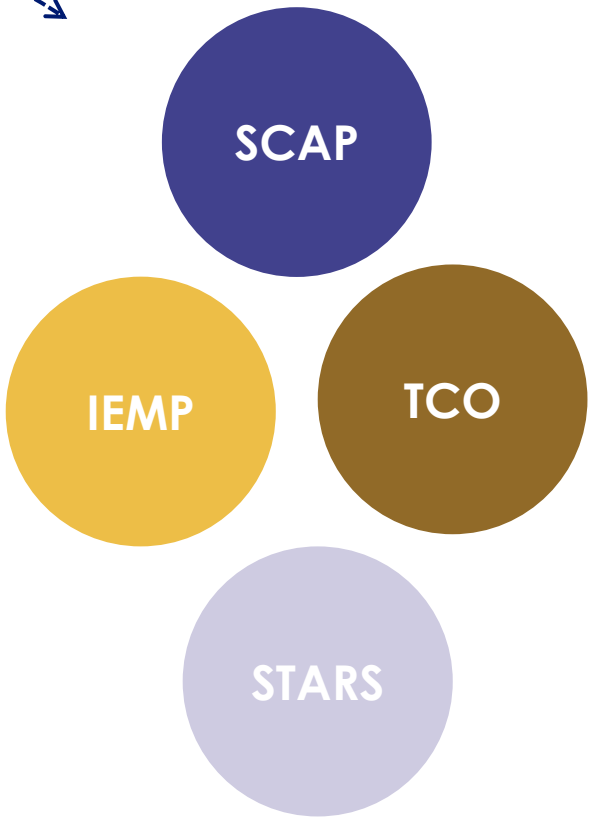
Linsey Graff
Engagement/STARS Leader

Shona O'Dea
Integrated Energy Master Plan Leader

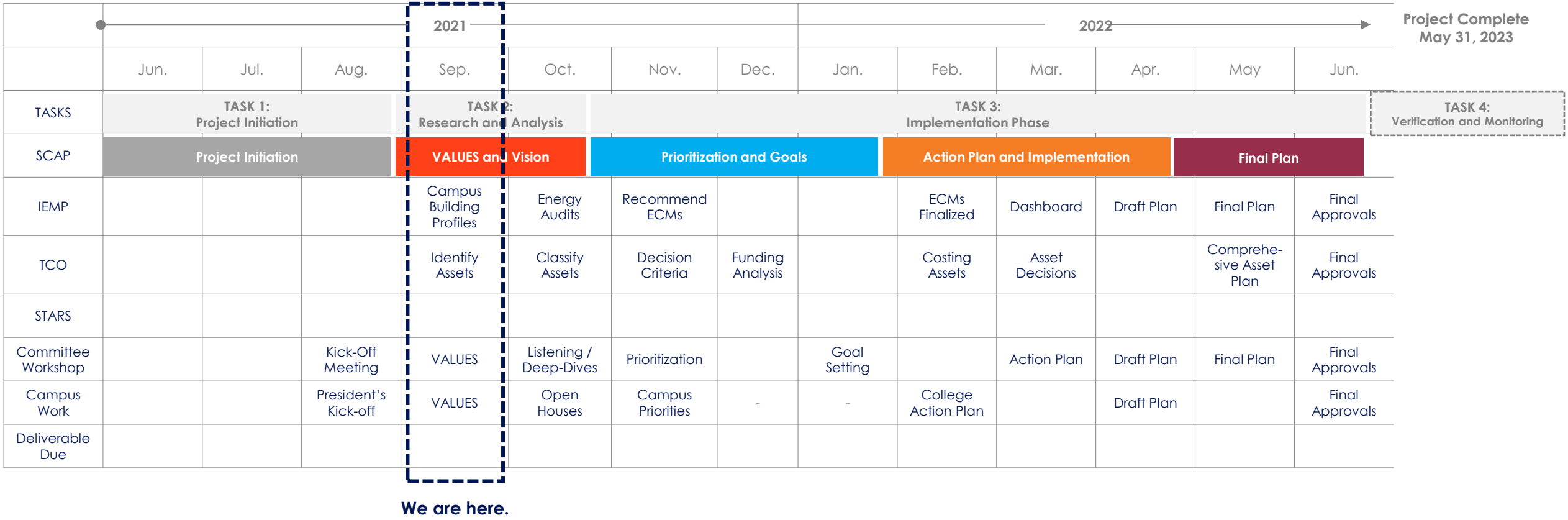
Integrated Planning Approach

CONNECTING TO OTHER PLANS:

- District Strategic Plan
- College's Strategic Plan
- College's Educational Master Plan
- College's Facilities Master Plan
- District Five-year Capital Construction Plan
- College's Operational and Maintenance Plan
- Fiscal Plan
- Solar Planning Initiative



Project Schedule



Sustainability Committee Members

District Office

- **Hussain Agah** - Associate Vice Chancellor
- **Mehran Mohtasham** - Director of Capital Planning
- **Bart Doering** - Facilities Development Director
- **Marisa Yeager** - Director, Government Relations
- **Myra Nava** - Classified Representative

Moreno Valley College

- **Fabian Biancardi** – Professor, Academic Senate
- **Kemari Wofford** – Student Representative, College Students Association
- **Majd Askar** - Interim Vice President, Business Services
- **Ron Kirkpatrick** - Director, Facilities M&O
- **Pending** – Classified Representatives

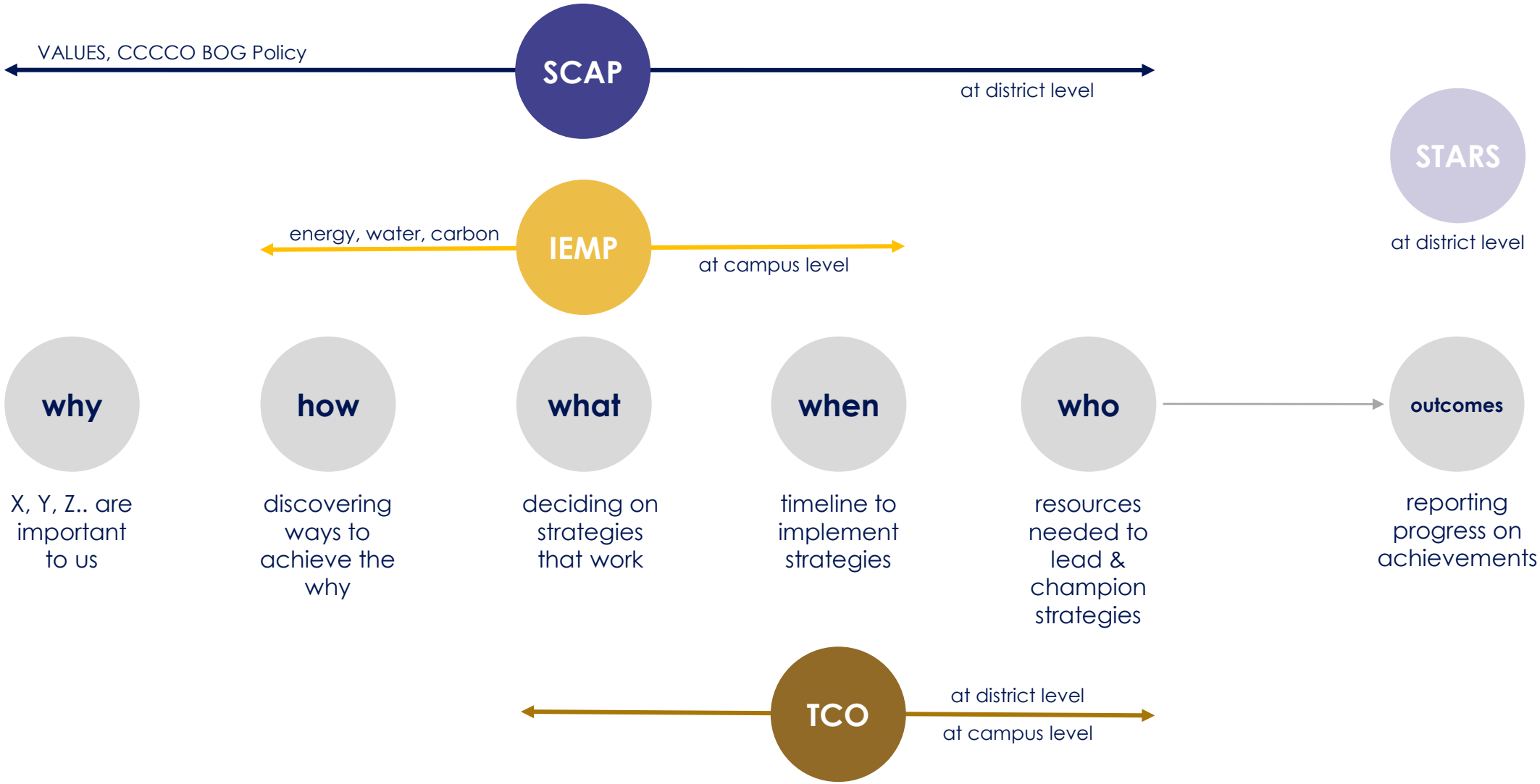
Norco College

- **Maxwell Murphey** - Associate Faculty, Academic Senate
- **Isaac Nunez** - Student Representative, College Students Association
- **Michael Collins** - Vice President, Business Services, Business Services Office
- **Steven Marshall** - Director, Facilities M&O
- **Andy Aldasoro** - Classified Representative

Riverside City College

- **Garth Schultz** – Associate Professor, Faculty Association
- **Tonya Huff** – Assistant Professor, Academic Senate
- **Jordyn Villanueva** - Student Representative, College Students Association
- **Albert Jaramillo** – Student Representative, College Students Association (Alternate)
- **Chip West** - Vice President, Business Services, Business Services Office
- **Robert Beebe** - Interim Director, Facilities M&O
- **Peter Lomas** - Classified Representative

Connections



One goal of the Sustainability and Climate Action Plan is to identify ways for **environmental, social and financial sustainability** to be fostered at each campus in the district.

Defining Sustainability

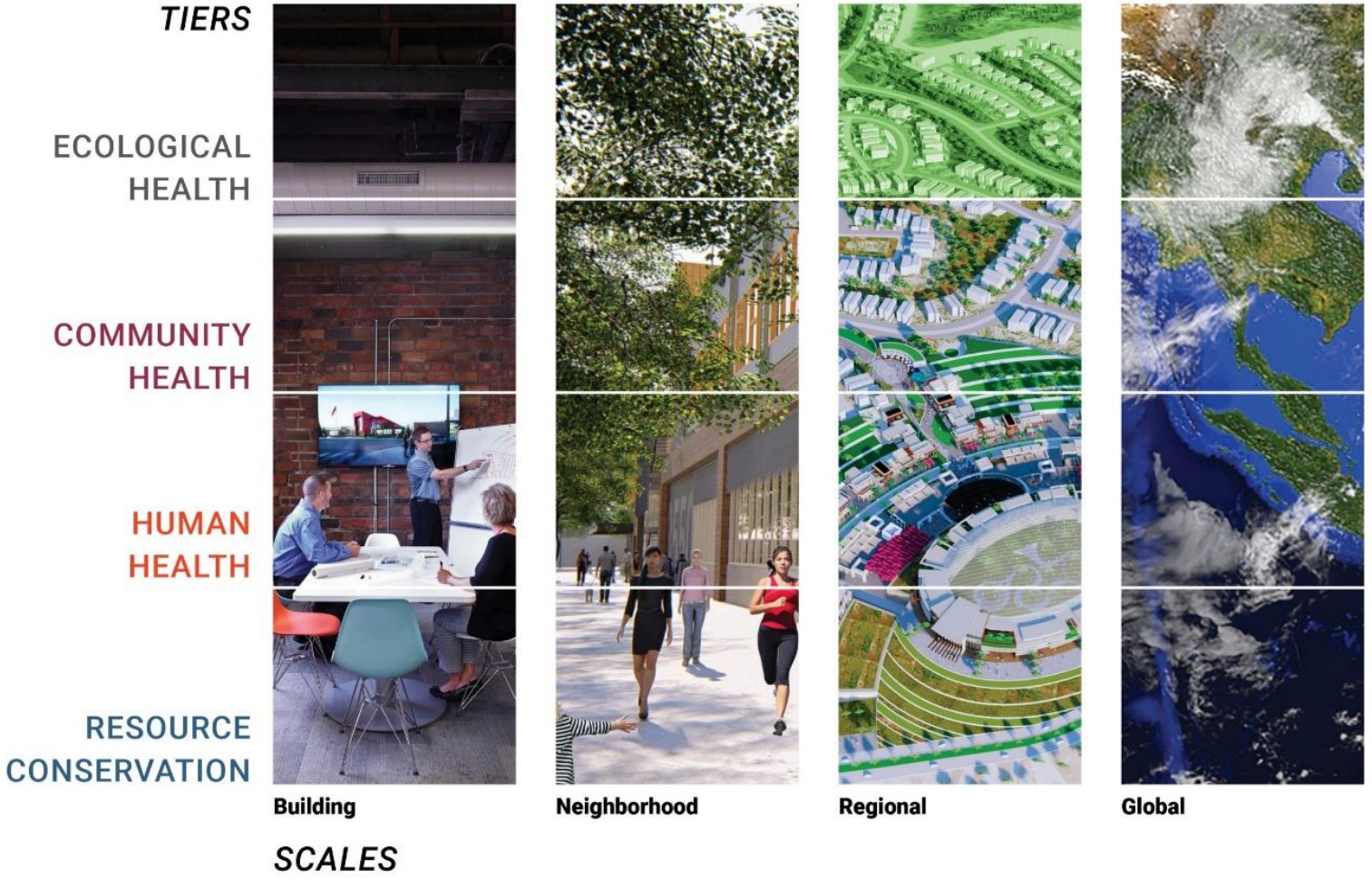
Planning & Sustainability

Our choices have an impact at all scales.

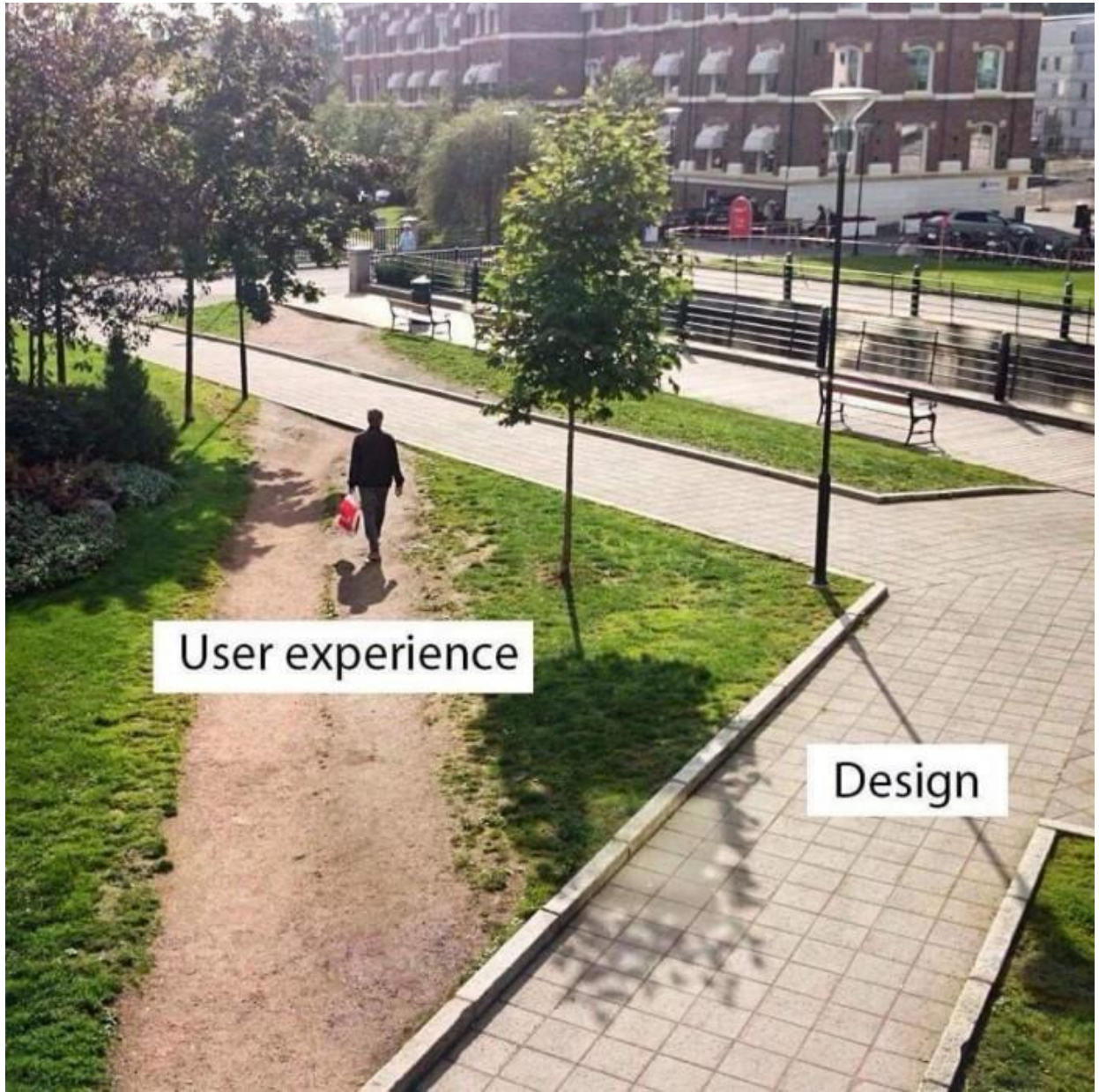
Our choices impact all categories

Environment is everything around us including us while the ecology describes how all those work.

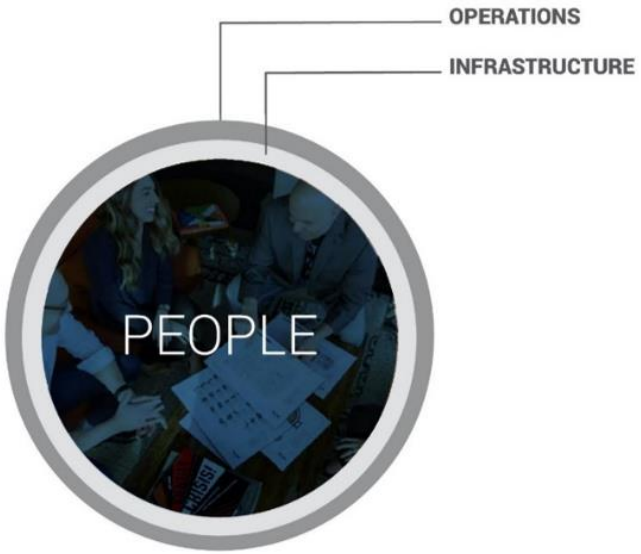
Ecology looks at the interaction between everything.



User Experience + Performance

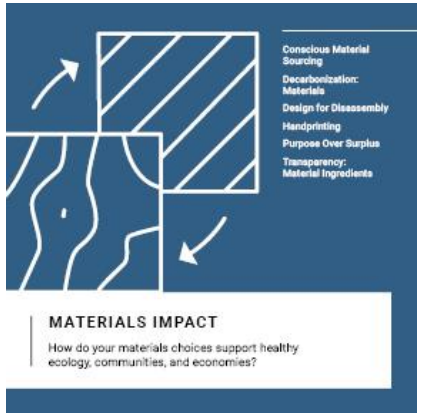


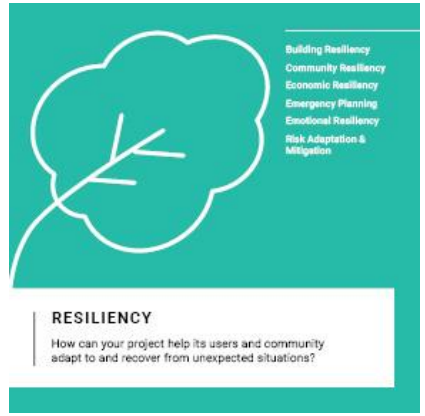
Design Solution

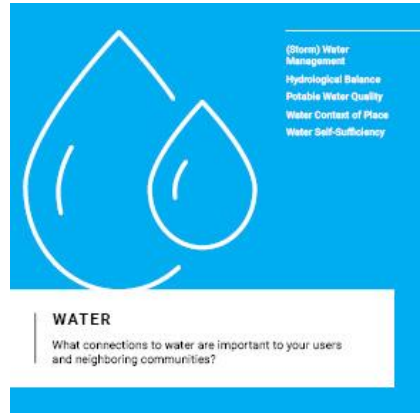


Holistic design thinking maximizes opportunities for optimal design impact on people, operations, and infrastructure.

Comprehensive Sustainability Language







DLR Group

VALUES

WORKSHOP FLASHCARDS

Comprehensive Approach to Resiliency & Sustainability

Higher Education institutions are uniquely positioned to make worldwide impact in terms of the environment, society, and the economy, but most audiences have difficulty connecting all three comprehensively. **Sustainability at DLR Group focuses on the connections between people, the economy, and the environment and how those connections work together to achieve long-term prosperity and continued quality of life.**

VALUES WORKSHOP

VALUES stands for Viewing Architecture through the Lens of User Experience and Sustainability. Understanding the challenges, needs and aspirations of a planning project from your stakeholders through a series of engagement sessions is a critical the first step in our process. When we discover diverse aspirations, we use a unique framework we developed called VALUES to help stakeholders prioritize, set targets for goals and metrics for success. The set of VALUES developed through various sessions become the guiding principles for the planning process against which, every major decision is filtered.

VALUES WORKSHOP SUMMARY EXAMPLE

TABLE OF CONTENTS

INTRODUCTION

What is sustainability?

Sustainability is centered around the core idea of meeting current needs while preserving the ability of future generations to do the same.

It goes beyond ecological health and resource conservation to incorporate human health and community health; sustainability cannot be achieved without ecological, social, and economic balance. The VALUES exercise is organized into twelve themes that address this holistic definition of sustainability.

ACCESS + MOBILITY

Encompasses transit-oriented design, providing transportation options, decarbonizing transportation, and improving walkability and safety.

EQUITABLEDEVELOPMENT

A project can ignite change in communities by providing equitable access to programs, resources, and opportunities, promoting affordability, and advocating for those in need.

OUTDOOR ENVIRONMENTAL QUALITY

Projects can use their outdoor spaces to restore ecology, build community, and create a strong sense of place.

COMMUNITY CONNECTOR

A project can support its community by providing public resources and programs, encouraging neighborhood vitality, forging partnerships, and involving the public in decision-making processes.

HEALTH+WELL-BEING

A project's design can promote mental, physical, and emotional well-being and support users in accomplishing their personal goals.

PROCUREMENT + OPERATIONS

Projects can establish practices that support safety and security, efficient operations, and responsible procurement and disposal.

CULTURE+IDENTITY

A project can use design to celebrate its history and context and develop a strong sense of place that speaks the identities of occupants and surrounding communities.

INDOOR ENVIRONMENTAL QUALITY

Acoustic comfort, air quality, thermal comfort, and visual comfort support occupant health and well-being, cognitive function, and performance.

RESILIENCY

Intentional design can support the ability of buildings, sites, individuals, and communities to respond to, withstand, and recover from stressful or adverse situations.

ENERGY

Generating renewable energy, reducing energy consumption and cost, modeling how a proposed building design will perform in the future, and intentionally selecting building systems.

MATERIALS IMPACT

Building materials impact human well-being, carbon consumption (both embodied and operational), and cost over the course of their lifetimes.

WATER

Water encompasses water quality, water and stormwater management practices, hydrological balance, and water's cultural context in a community.

INTRODUCTION

How do I read the cards?

Each "card" within a VALUES theme has a front and a back.

The front of each VALUES card contains a graphic and a prompting question. As you read the question, think about how it may apply to your project and if you see potential to investigate it further.

Holistic sustainability solutions consider not only the impacts of a decision on the natural environment, but on the economy, communities, and human beings. The back of each card describes the benefits of that topic as related to the following categories:

human health

A state of complete physical, mental, and social well-being that goes beyond merely the absence of disease or infirmity.

resource conservation

The responsible management and protection of natural resources to benefit the current generation while maintaining capacity to meet the needs of future generations.

ecological future

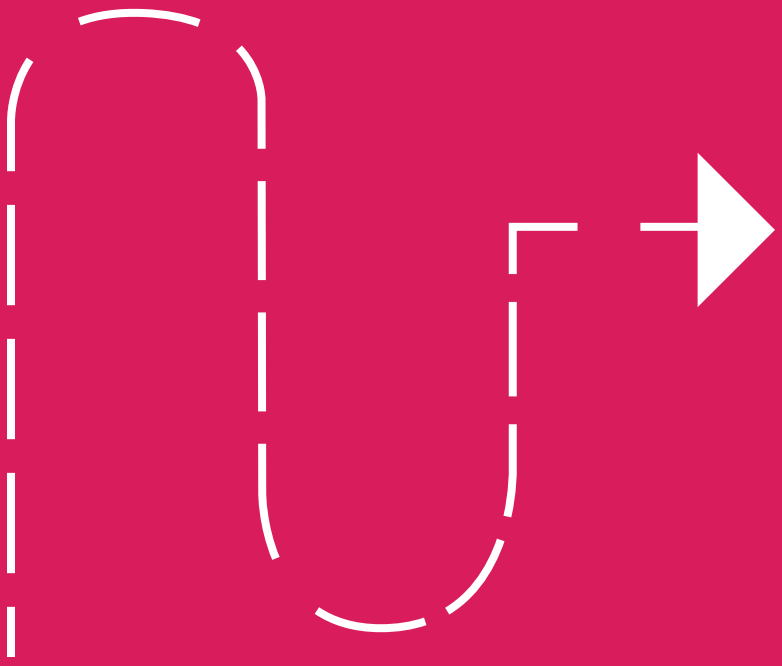
The ability of ecosystems and their non-human inhabitants to maintain balance, be healthy, and thrive for generations to come.

community health

The availability of environmental, social, and economic resources to sustain emotional and physical well being among communities.

behavior awareness

An individual's understanding of how their behaviors impact the health of people, communities, and the environment.

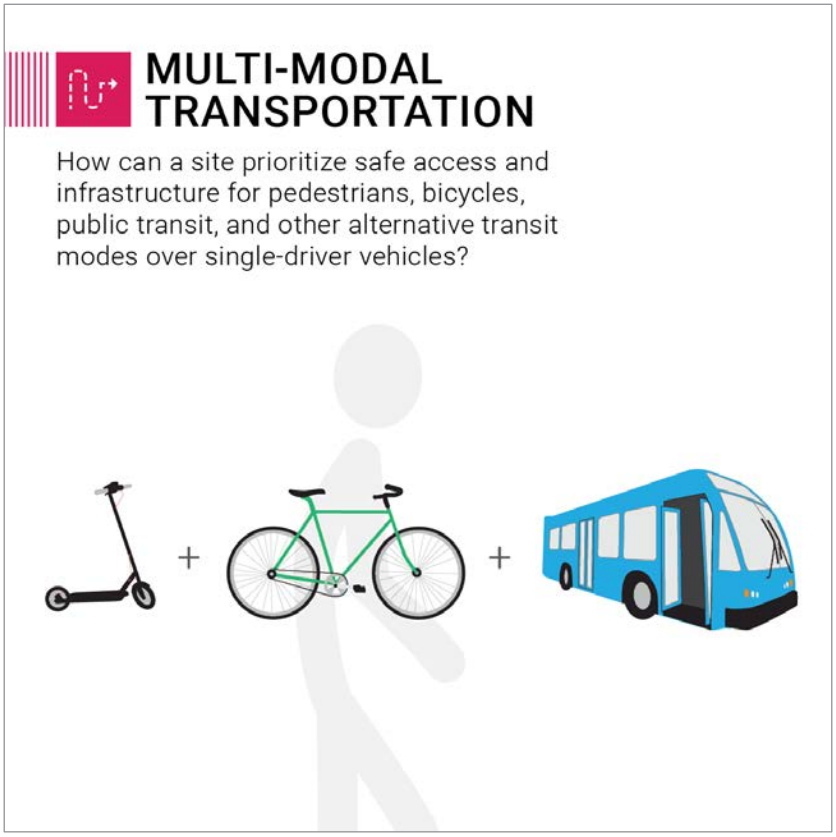


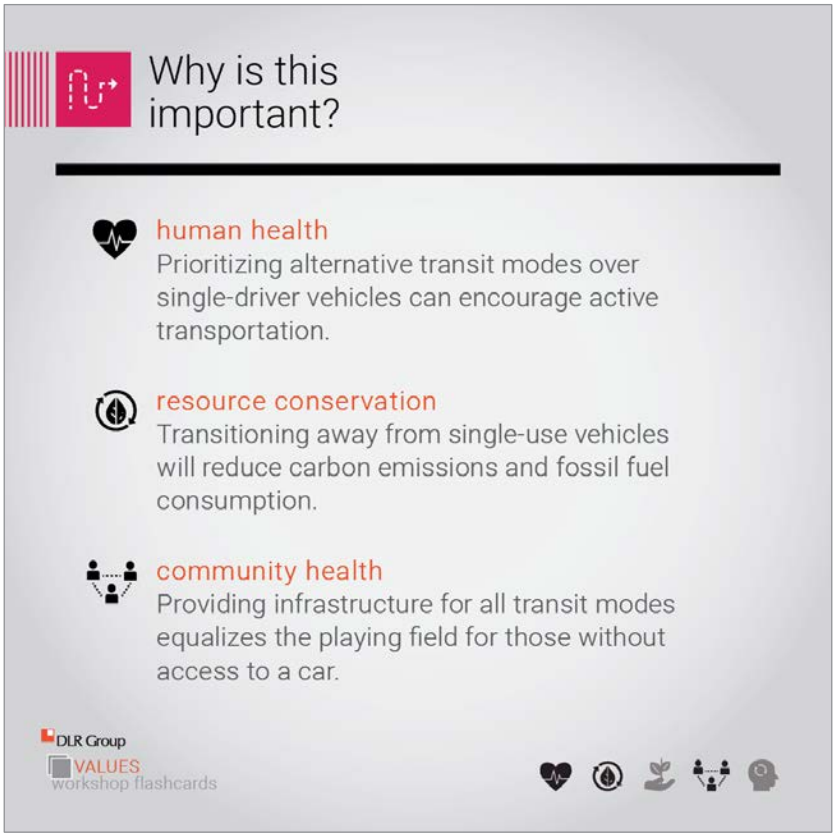
ACCESS + MOBILITY

How can your project advocate and celebrate transit-oriented design, connections between transit hubs, and walkable communities?

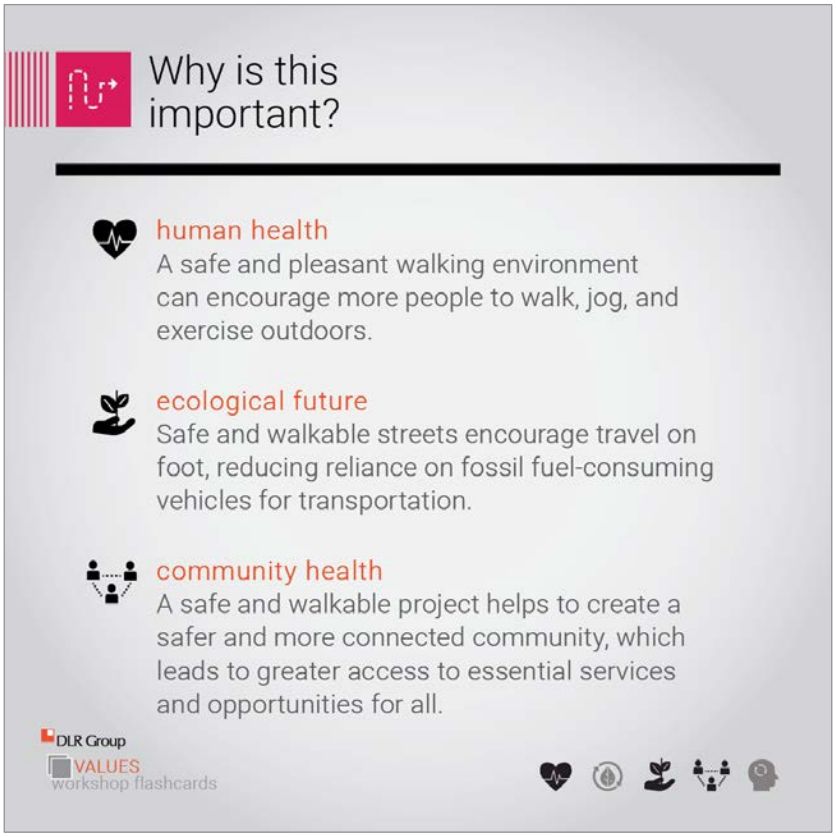
DECARBONIZATION: TRANSPORTATION

MULTI-MODAL TRANSPORTATION





WALKABILITY & SAFETY



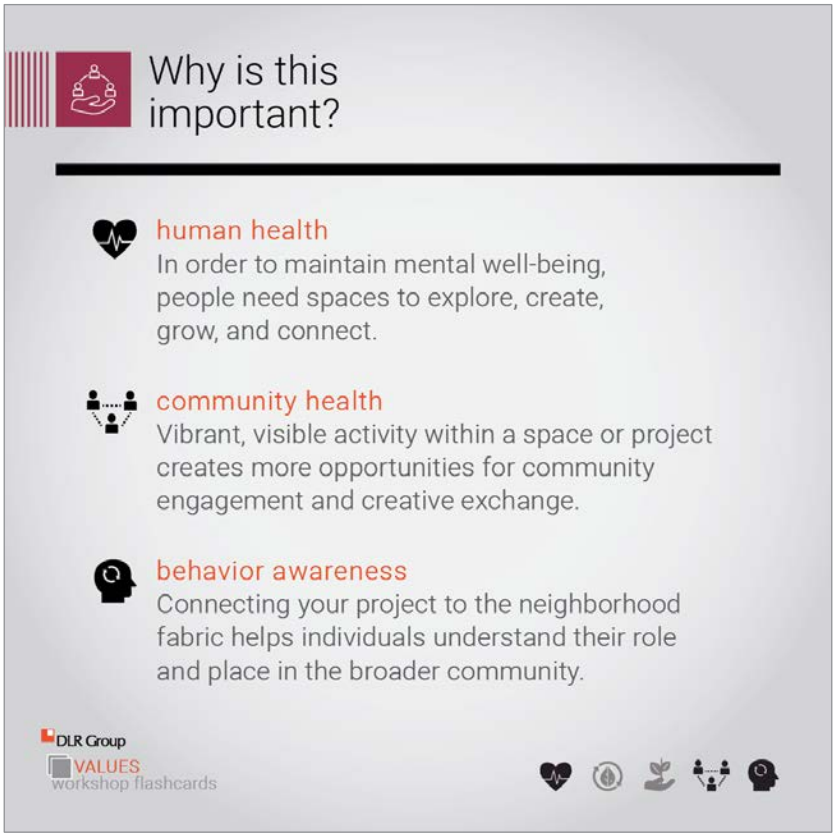
COMMUNITY CONNECTOR

How can your project support its surrounding community, build community partnerships, and connect residents to shared resources?

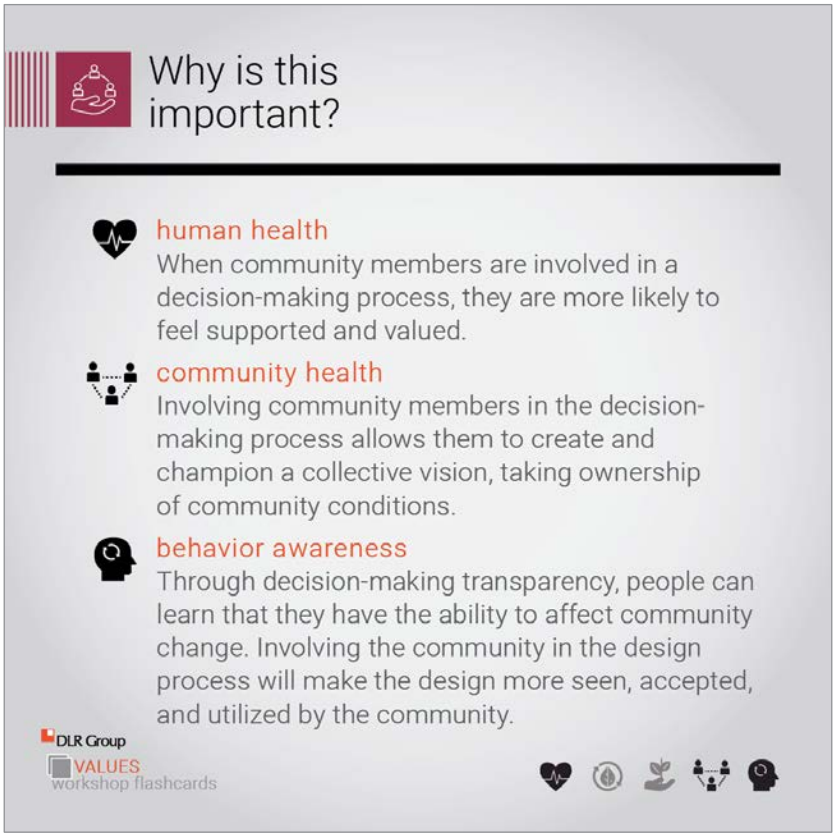
COMMUNITY ACCESS

COMMUNITY PARTNERSHIPS

NEIGHBORHOOD VITALITY



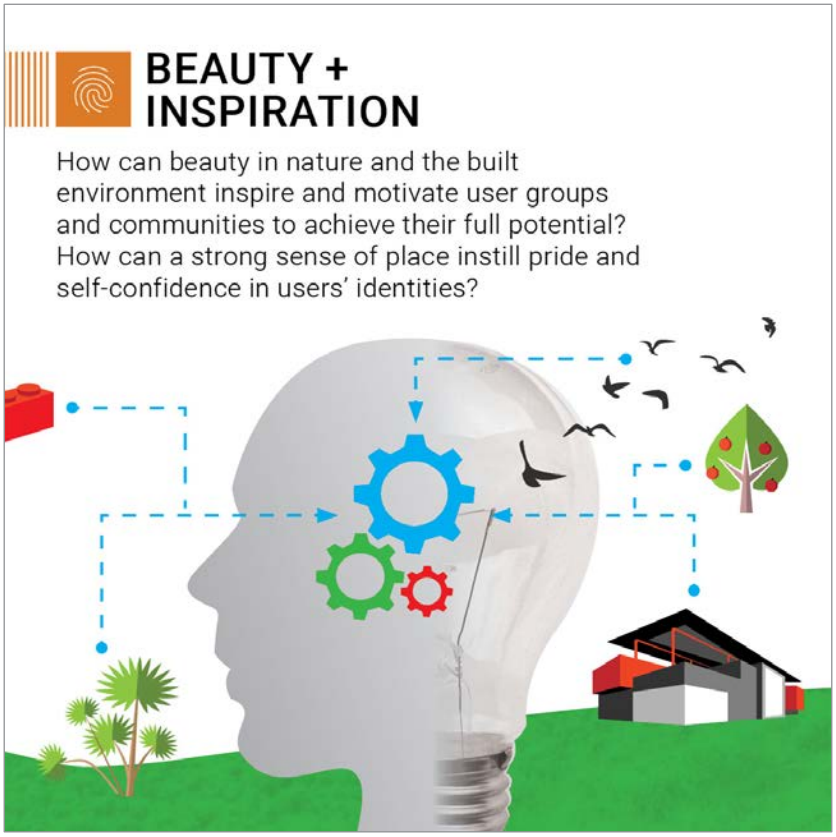
TRANSPARENCY: DECISION-MAKING



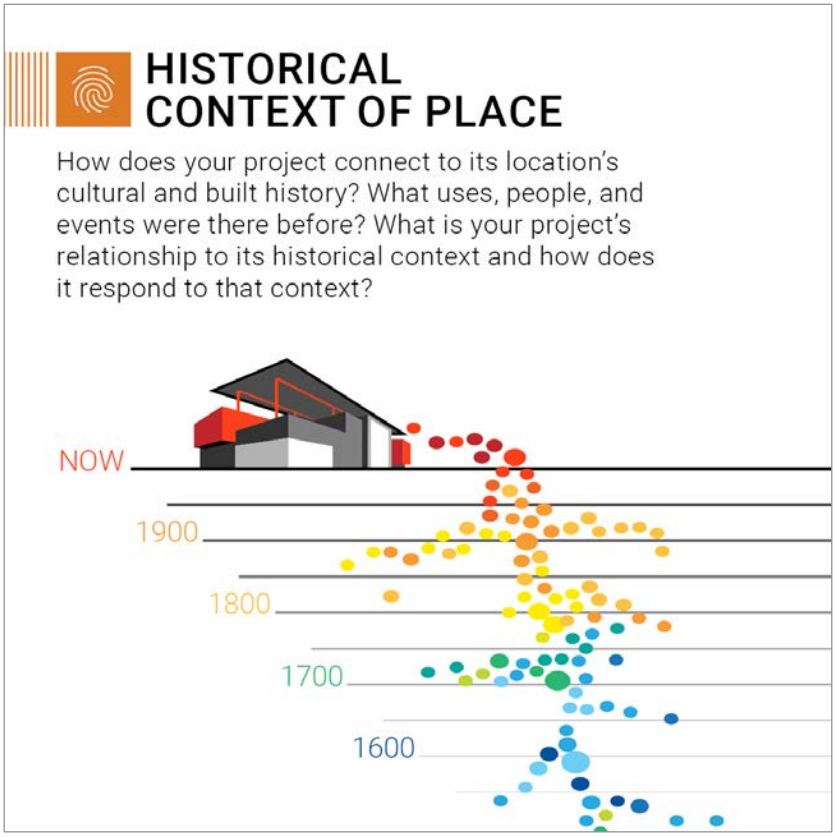
CULTURE + IDENTITY

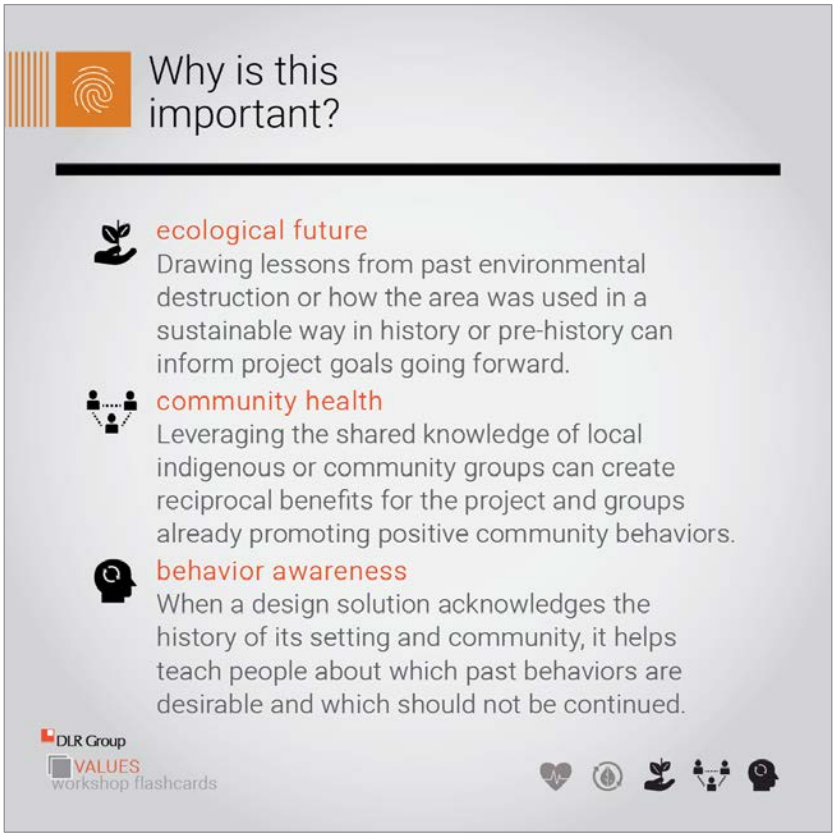
How can your project celebrate its history and cultural context to develop a strong sense of place that speaks to the identities of occupants and surrounding communities?

BEAUTY + INSPIRATION



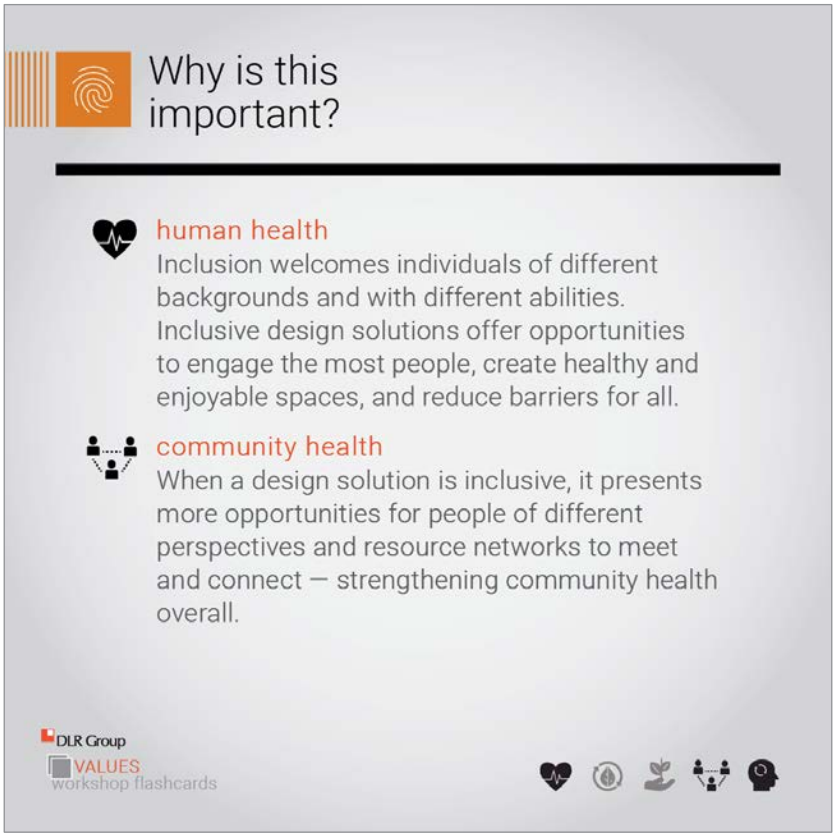
HISTORICAL CONTEXT OF PLACE



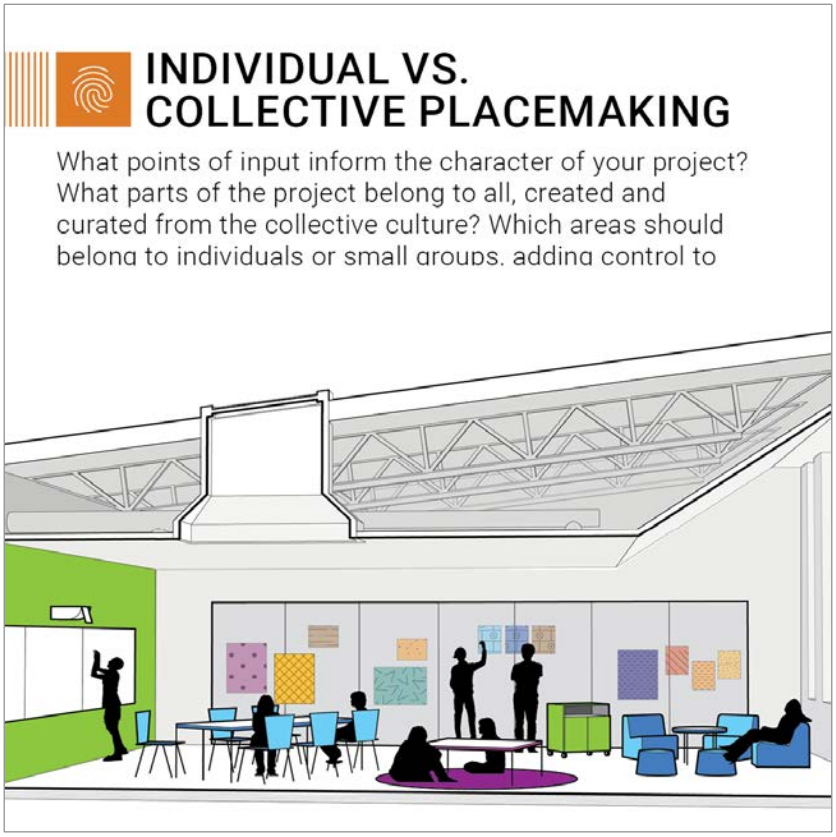


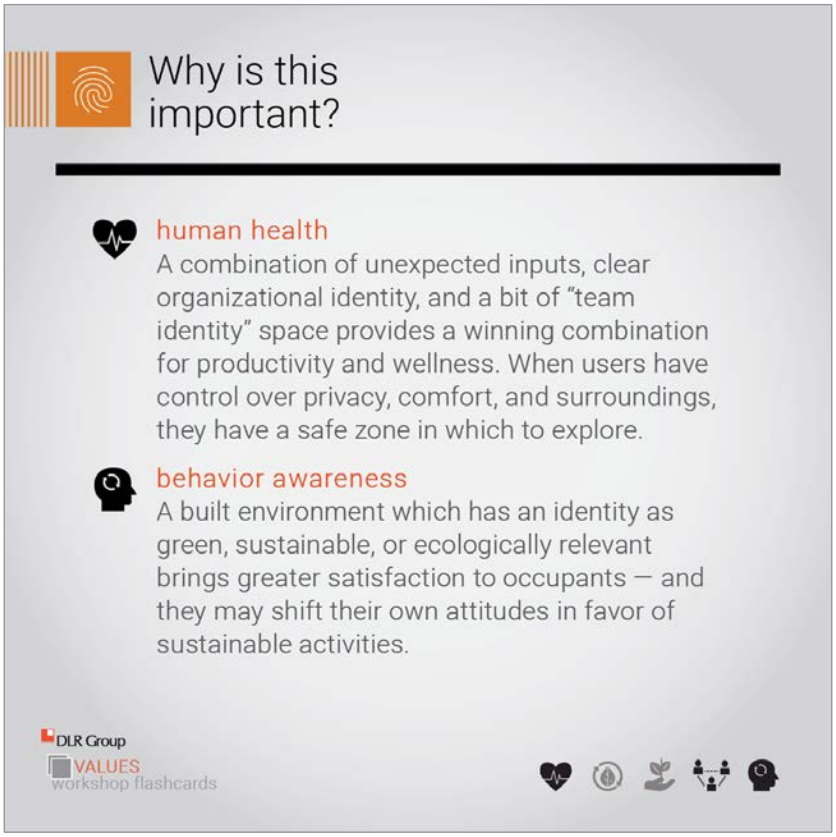
INCLUSION


INCLUSION
How does your project look beyond its base program to provide opportunities for groups that may be marginalized? How can it create a sense of belonging for individuals of all backgrounds and identities?

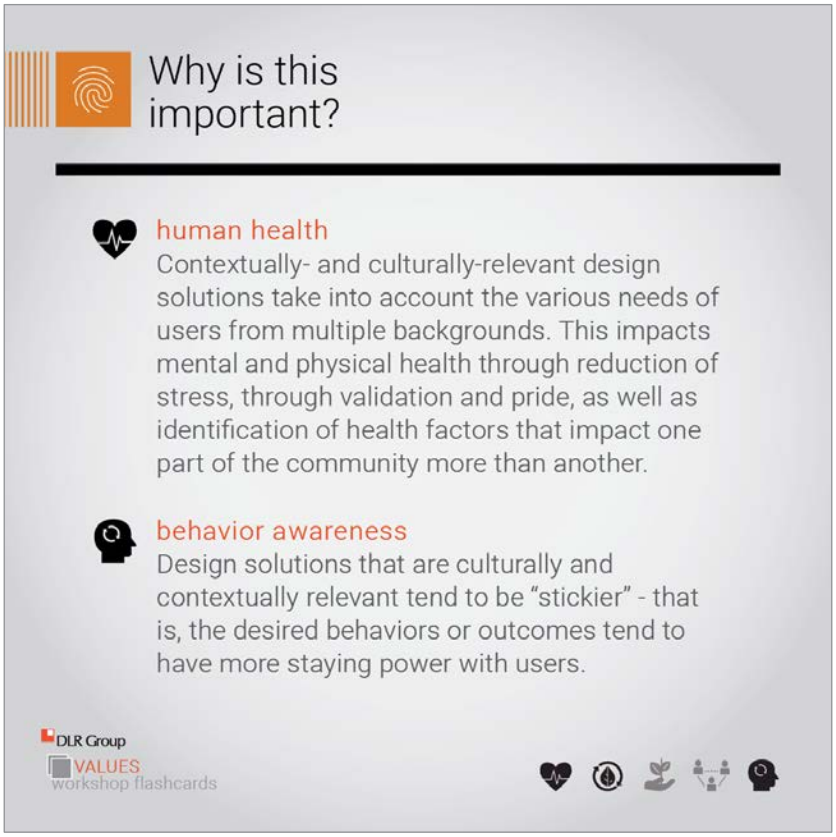

Why is this important?
human health
Inclusion welcomes individuals of different backgrounds and with different abilities. Inclusive design solutions offer opportunities to engage the most people, create healthy and enjoyable spaces, and reduce barriers for all.
community health
When a design solution is inclusive, it presents more opportunities for people of different perspectives and resource networks to meet and connect — strengthening community health overall.
DLR Group
VALUES
workshop flashcards

INDIVIDUAL VS. COLLECTIVE PLACEMAKING

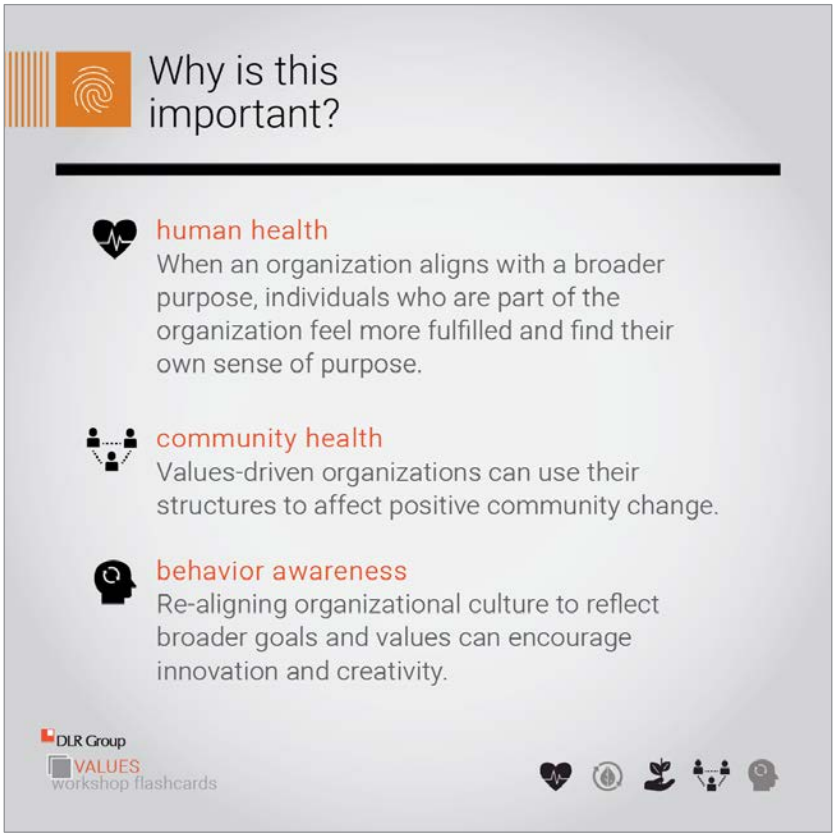


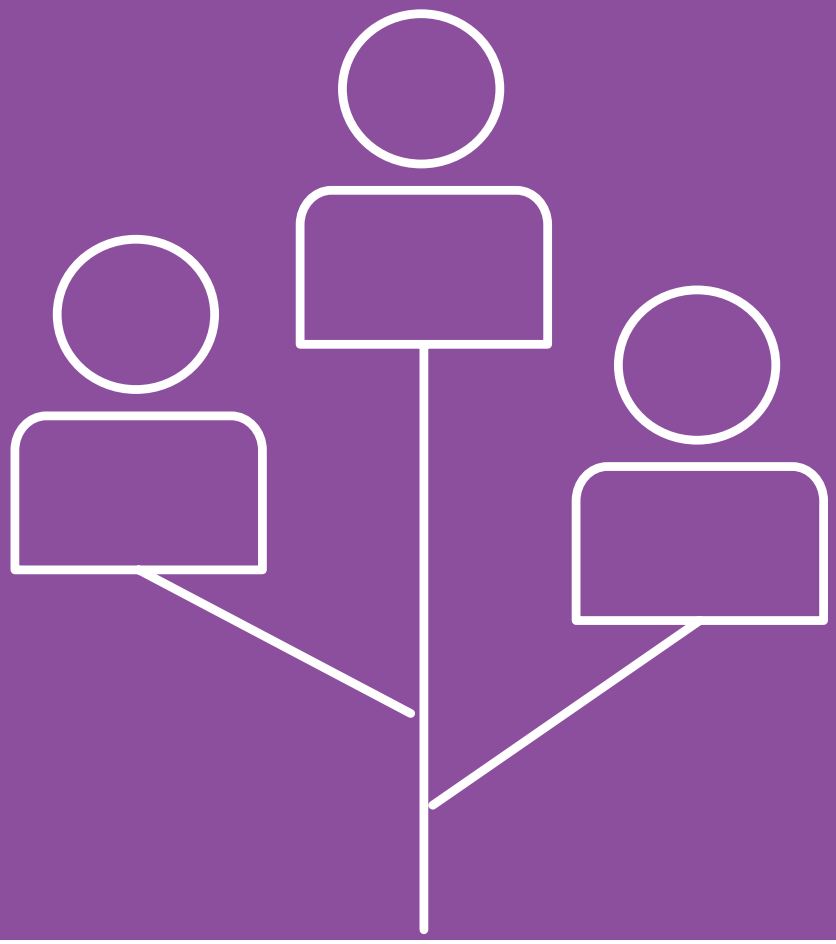


MULTI-CULTURAL RELEVANCE



ORGANIZATIONAL TRANSFORMATION

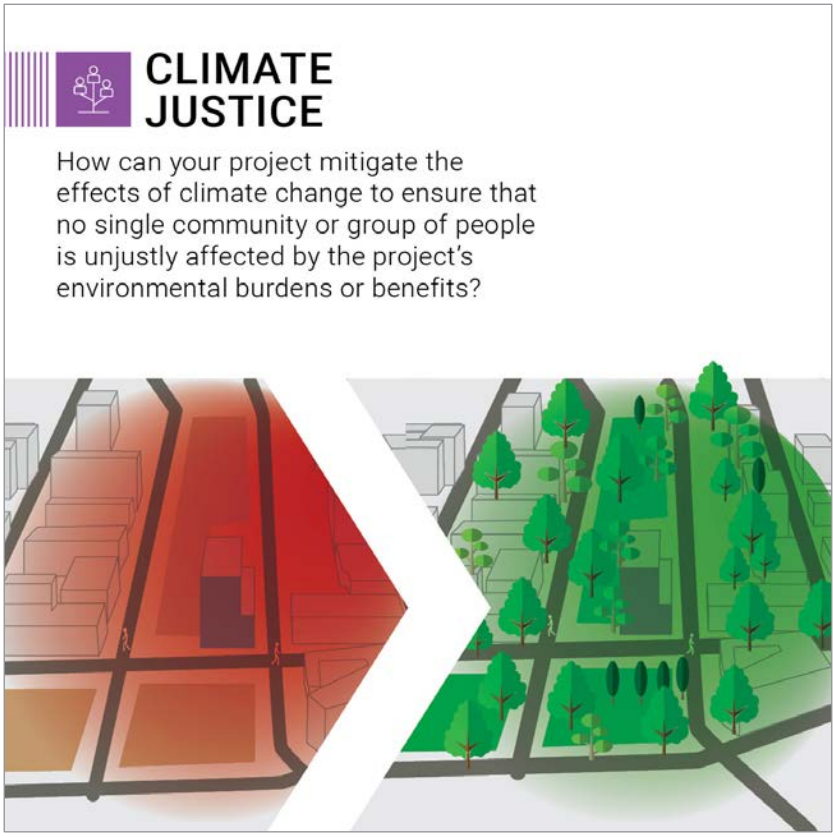




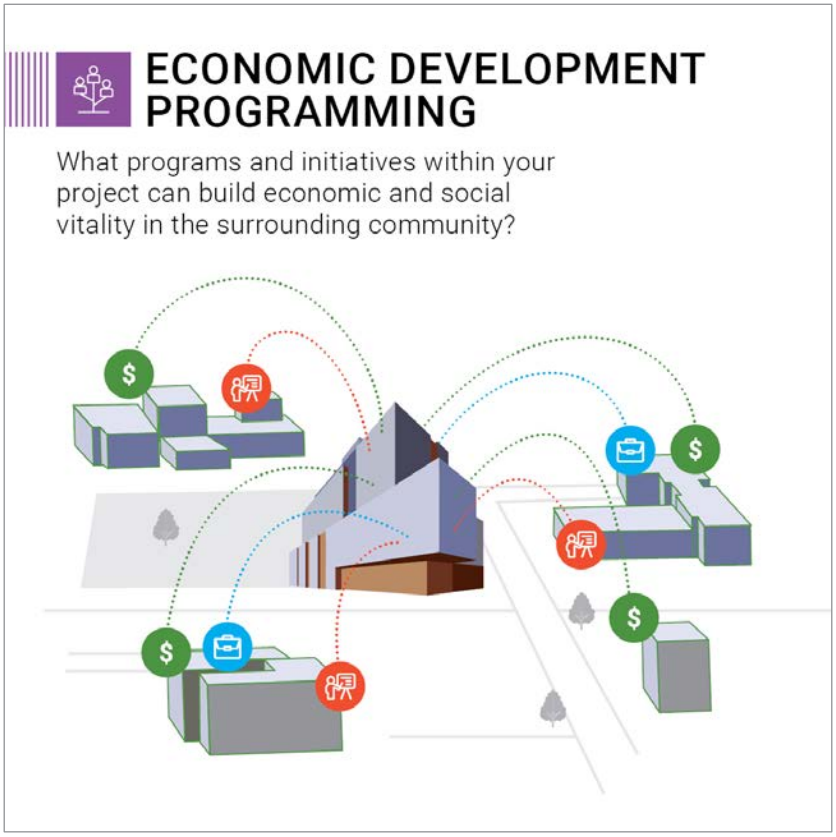
EQUITABLE DEVELOPMENT

How can your project promote affordability, provide access to opportunity, and advocate for those in need?

CLIMATE JUSTICE



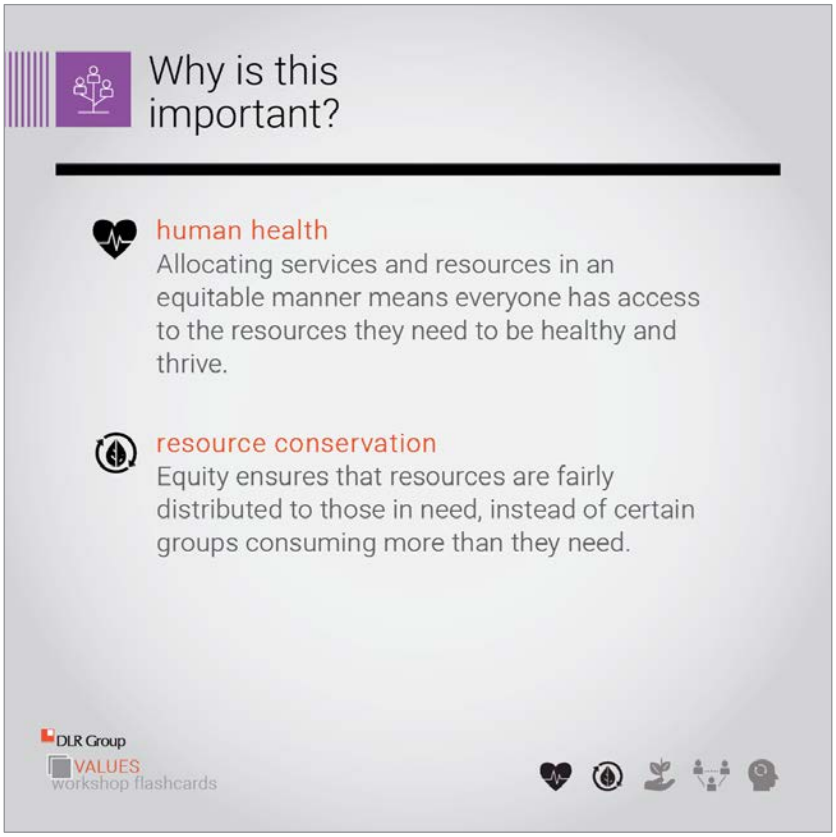
ECONOMIC DEV'T PROGRAMMING



EQUITABLE DEVELOPMENT SITING

EQUITY

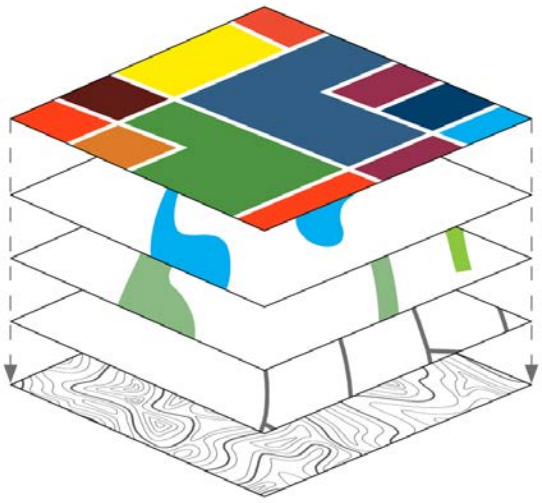

EQUITY
How is your project allocating services, resources, and opportunities in a just and equitable manner, and prioritizing marginalized groups?


Why is this important?
human health
Allocating services and resources in an equitable manner means everyone has access to the resources they need to be healthy and thrive.
resource conservation
Equity ensures that resources are fairly distributed to those in need, instead of certain groups consuming more than they need.
DLR Group
VALUES
workshop flashcards

LAND USE

LAND USE

How could different combinations of activities and uses on your site affect the environment and human health? How do adjacent land uses affect your site's intended uses?



Why is this important?

human health

Land use impacts where we live, work, and play and our overall quality of life. It affects public health including air quality, water quality, physical activity, social and mental health and wellness.

ecological future

Smart growth, compact development, and a mix of land uses integrated with multi-modal transportation can reduce sprawl that encroaches on agricultural land, forests, and biodiversity.

community health

Land use planning and community development impact the community's ability to make healthy choices, have a healthy living environment, and achieve economic vitality.

DLR Group
VALUES
workshop flashcards

SOCIAL JUSTICE

SOCIAL JUSTICE

How can your project manifest a fair and just society in which individuals receive equal economic, political, and social rights and opportunities?

Why is this important?

human health
Social justice includes creating equal opportunities for health outcomes and reducing health disparities. Providing people with equal rights and opportunities helps them achieve individual fulfillment and reach their potential.

community health
Social support systems and freedom from discrimination are necessary for positive community health outcomes.

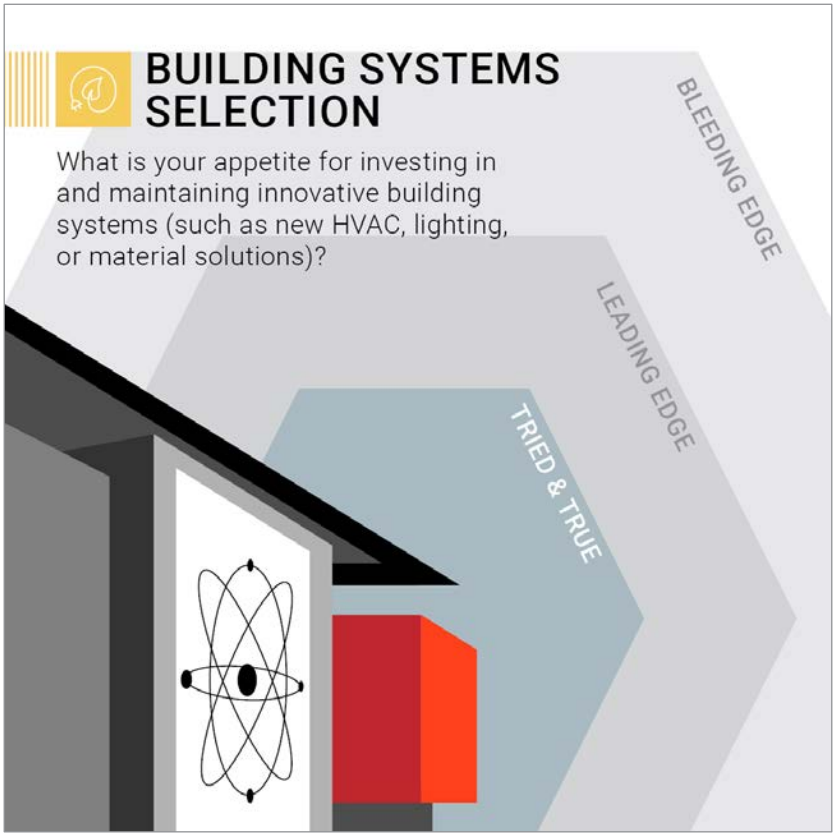
behavior awareness
Social justice can help individuals consider their own biases and the role they play in perpetuating or dismantling unjust systems.

DLR Group
VALUES
workshop flashcards

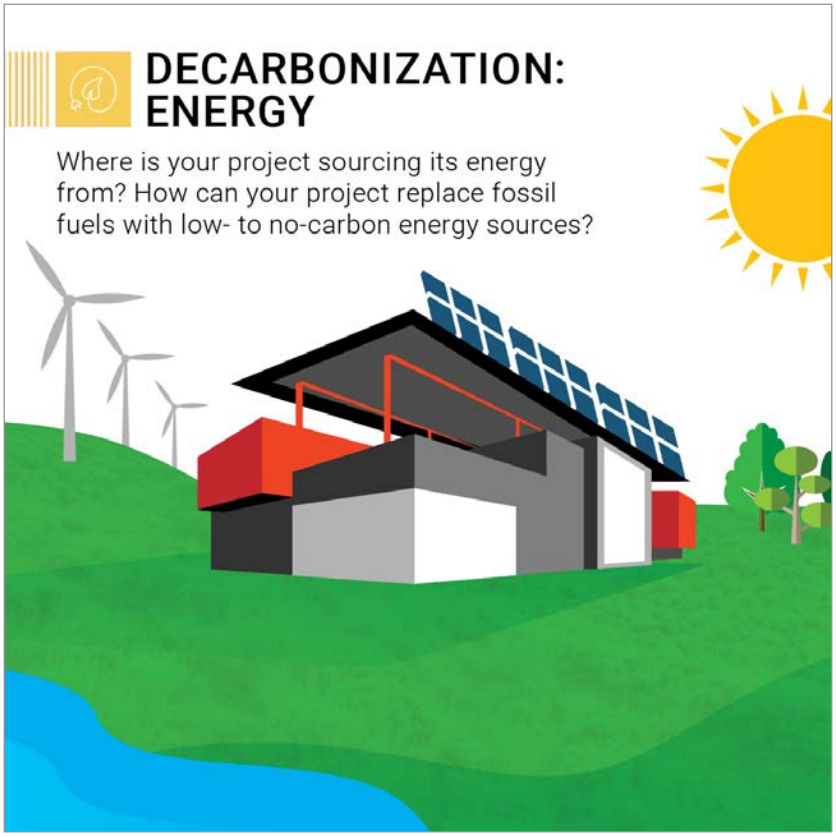
ENERGY

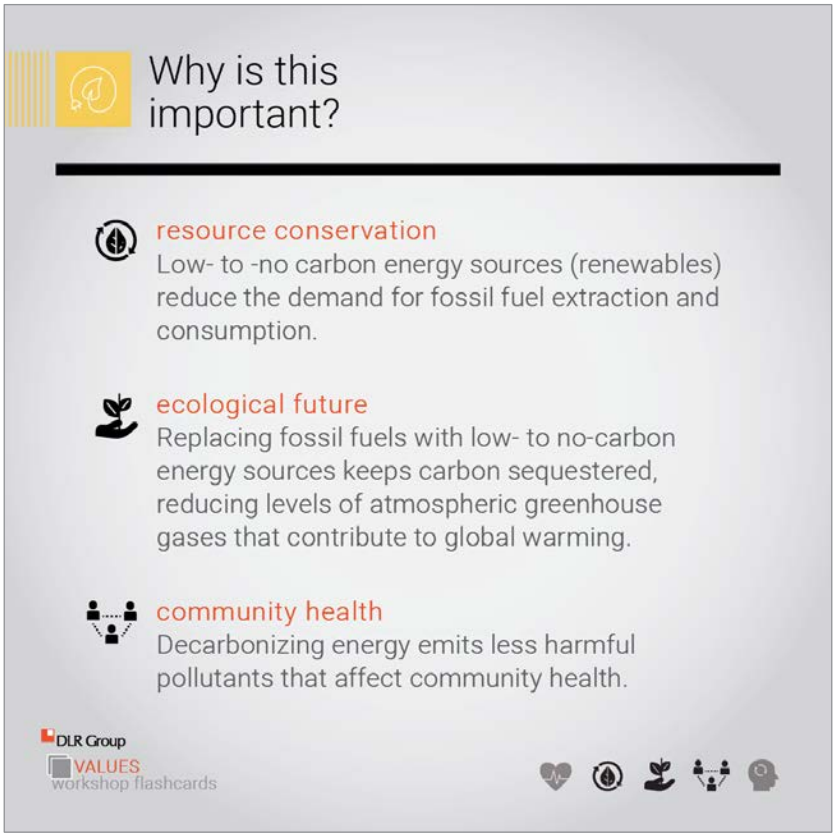
How can changes in energy infrastructure support your broader mission, reduce costs, and build a healthier planet?

BUILDING SYSTEMS SELECTION

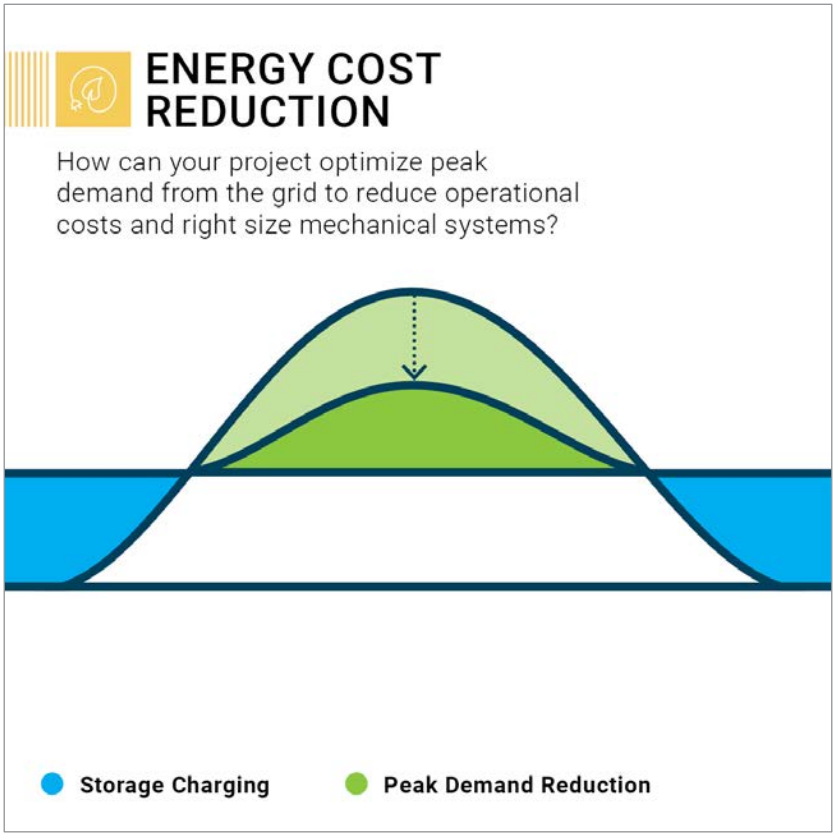


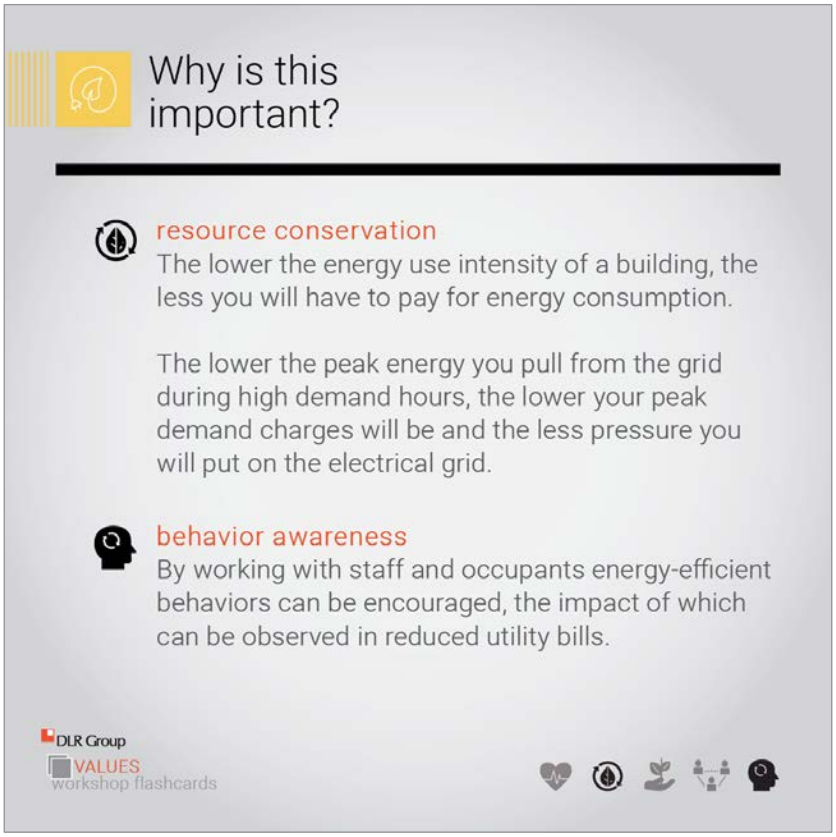
DECARBONIZATION: ENERGY



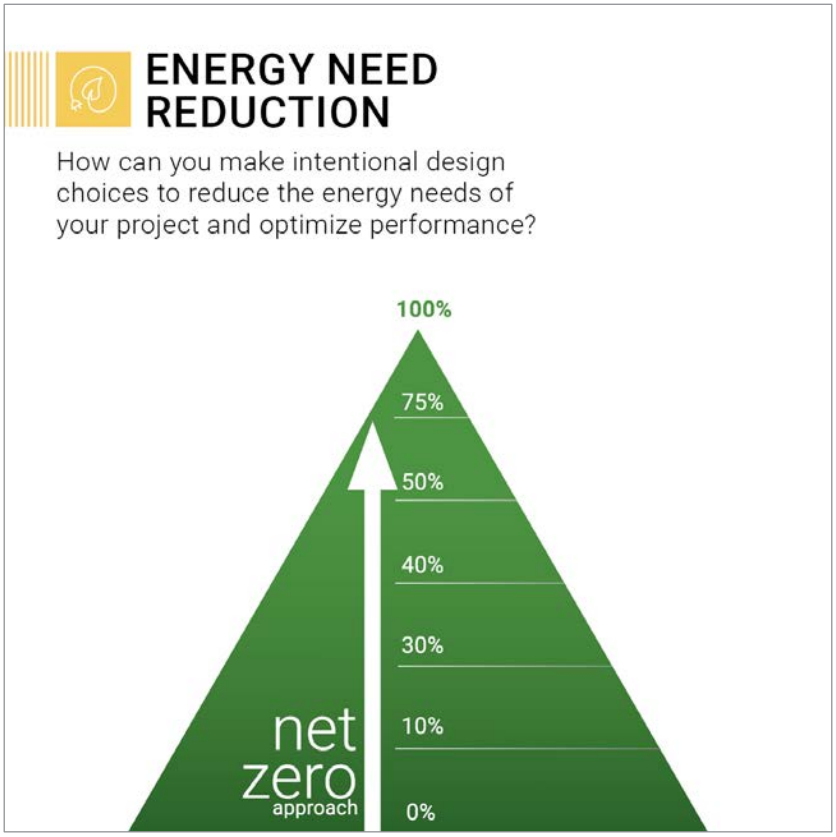


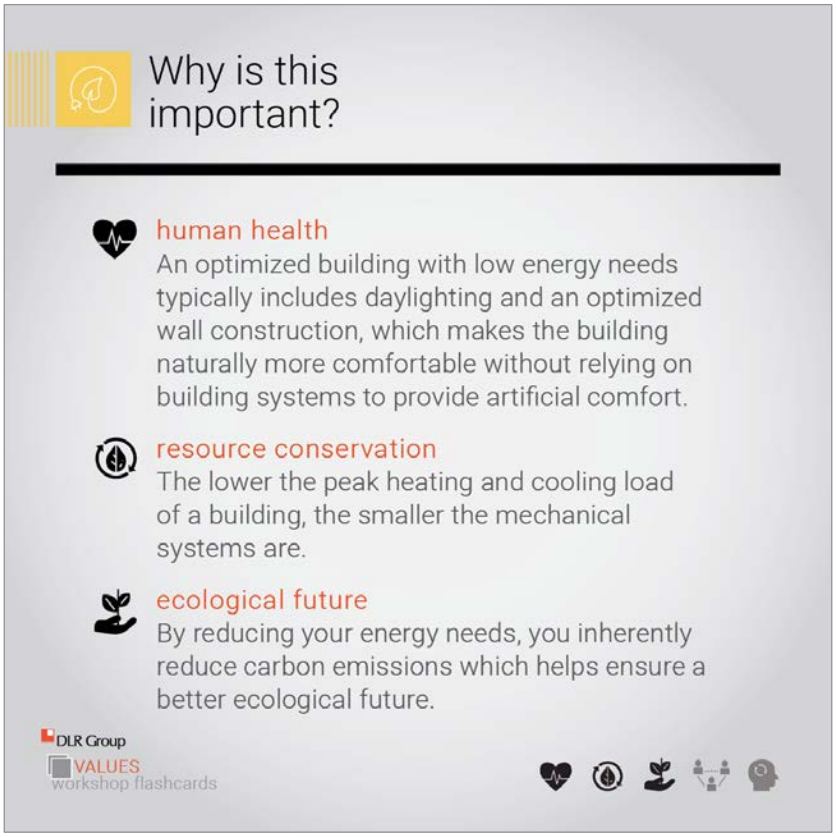
ENERGY COST REDUCTION

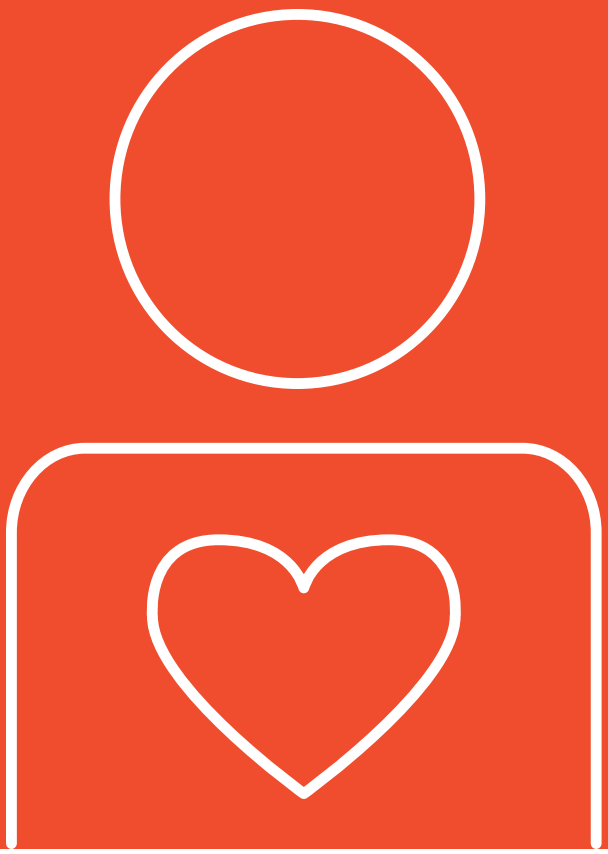




ENERGY NEED REDUCTION



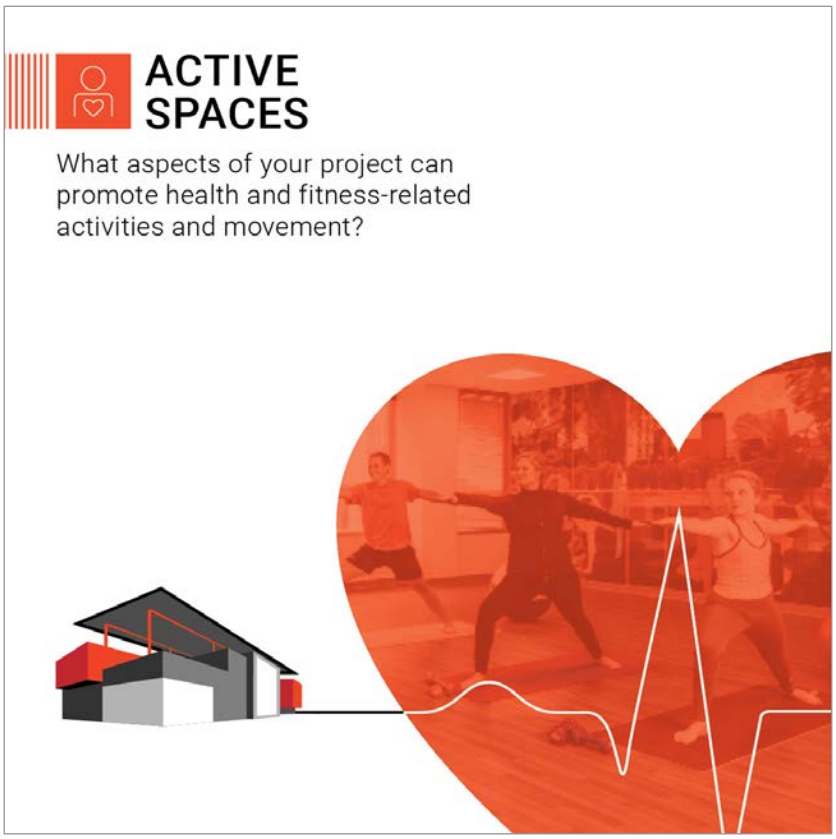


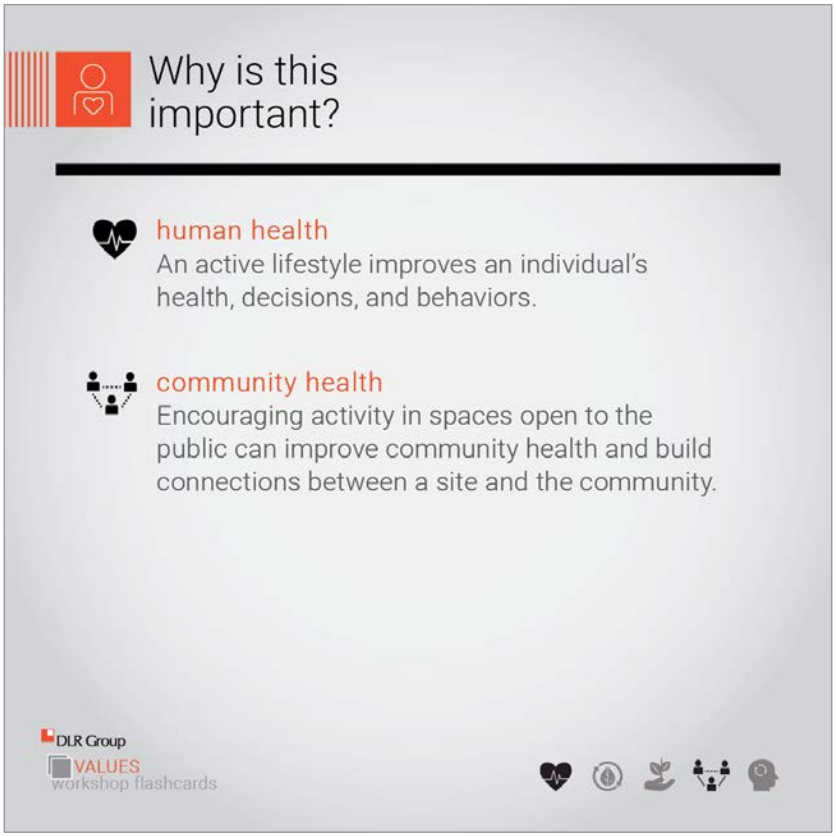


HEALTH + WELL-BEING

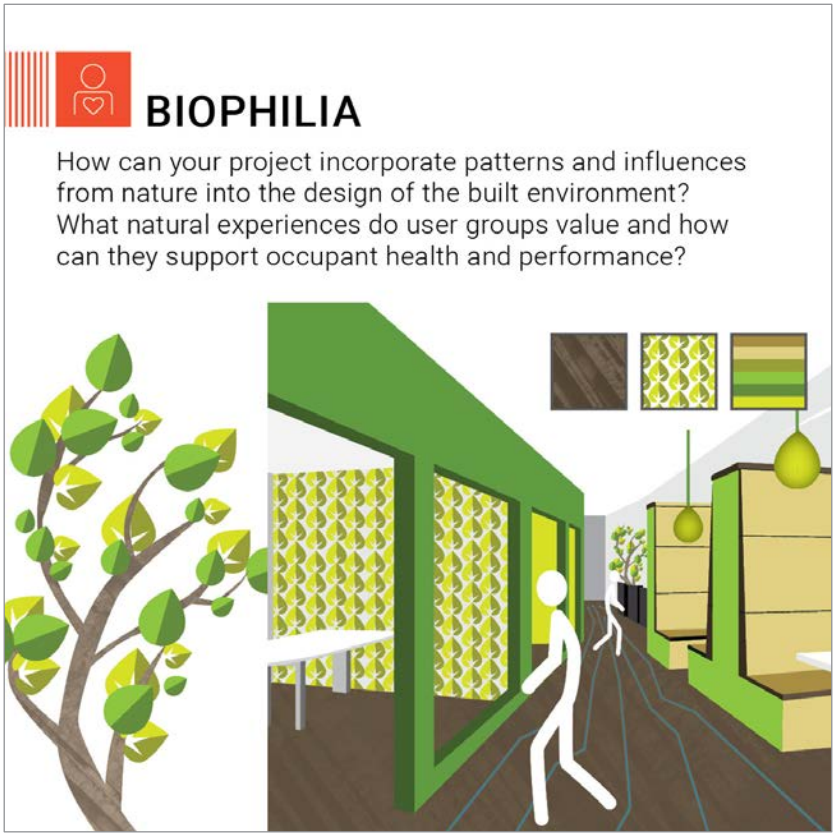
How can intentional design features actively promote users' emotional and physical well-being and encourage them to make healthier choices?

ACTIVE SPACES



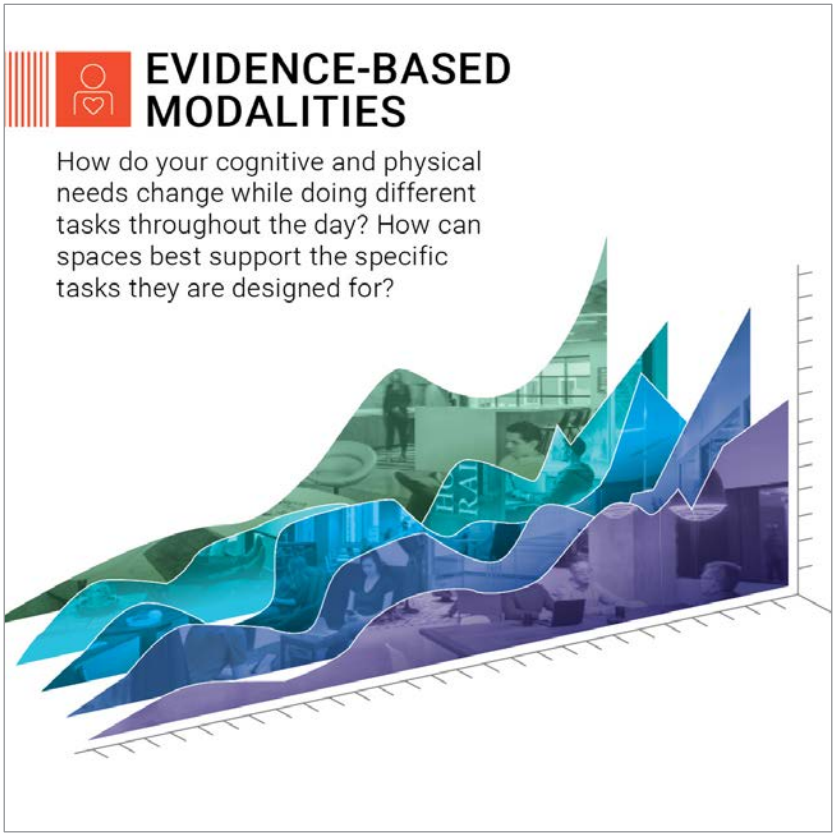


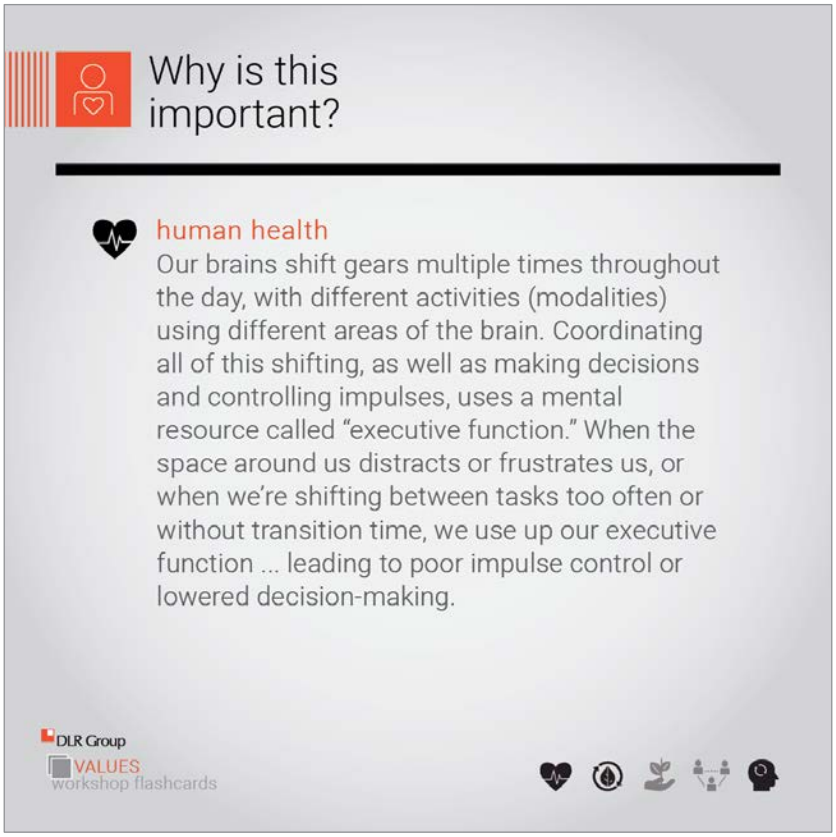
BIOPHILIA


BIOPHILIA
How can your project incorporate patterns and influences from nature into the design of the built environment? What natural experiences do user groups value and how can they support occupant health and performance?

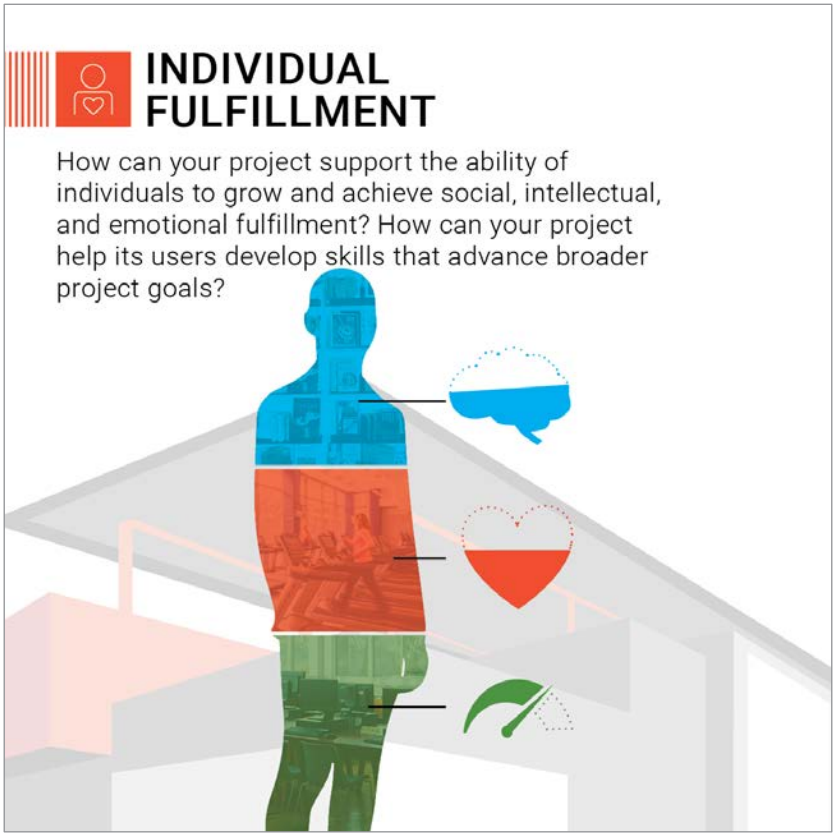

Why is this important?
human health
The presence of natural elements found in biophilia in interior environments increases mood, happiness, and productivity, and can reduce stress and aid in health recovery.
community health
When communities are exposed to biophilia in their local buildings, it can increase productivity as a whole, reduce sick days, create better community morale, and inspire.
DLR Group
VALUES
workshop flashcards

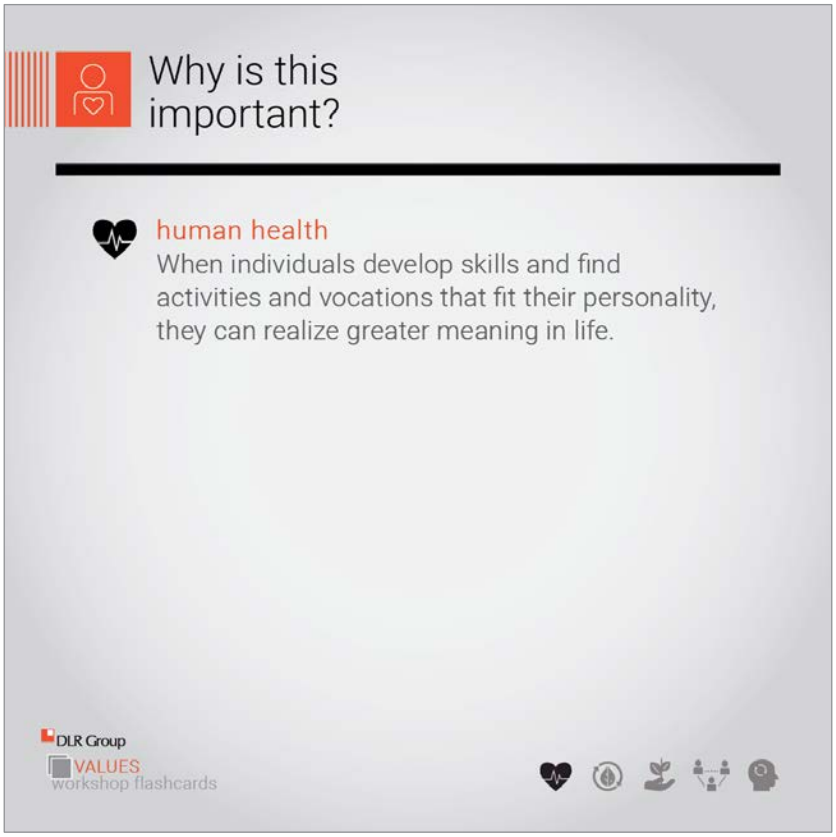
EVIDENCE-BASED MODALITIES



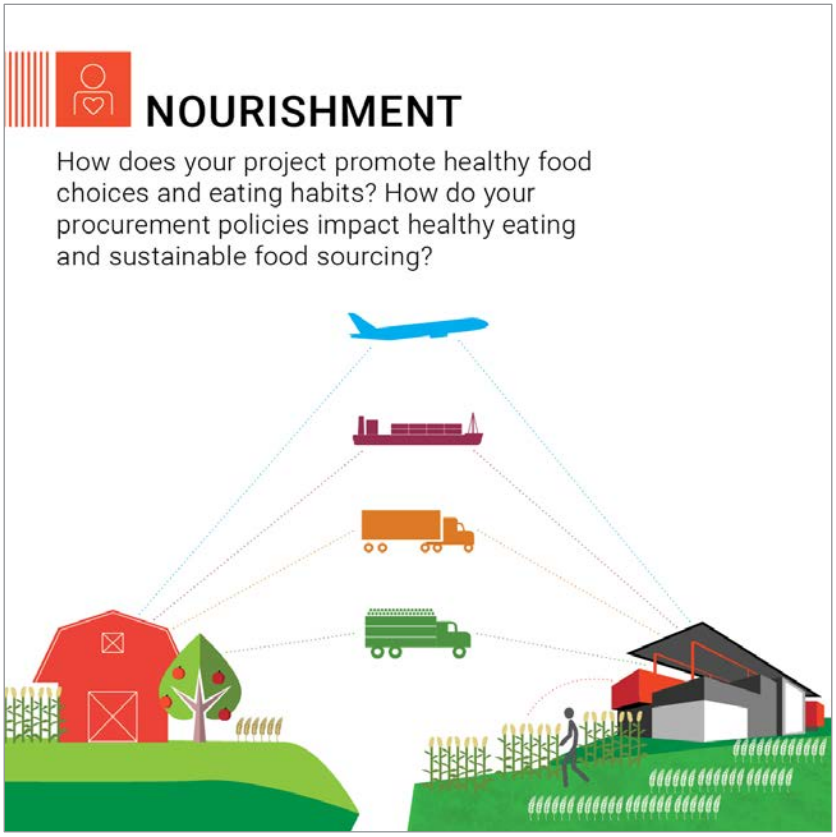


INDIVIDUAL FULFILLMENT



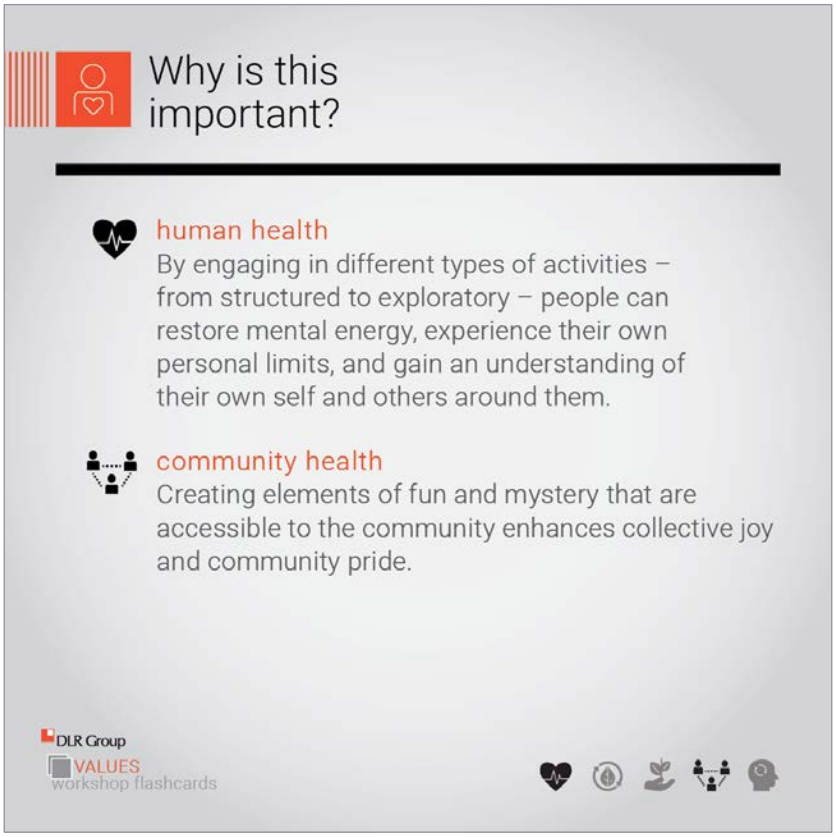


NOURISHMENT



PLAY

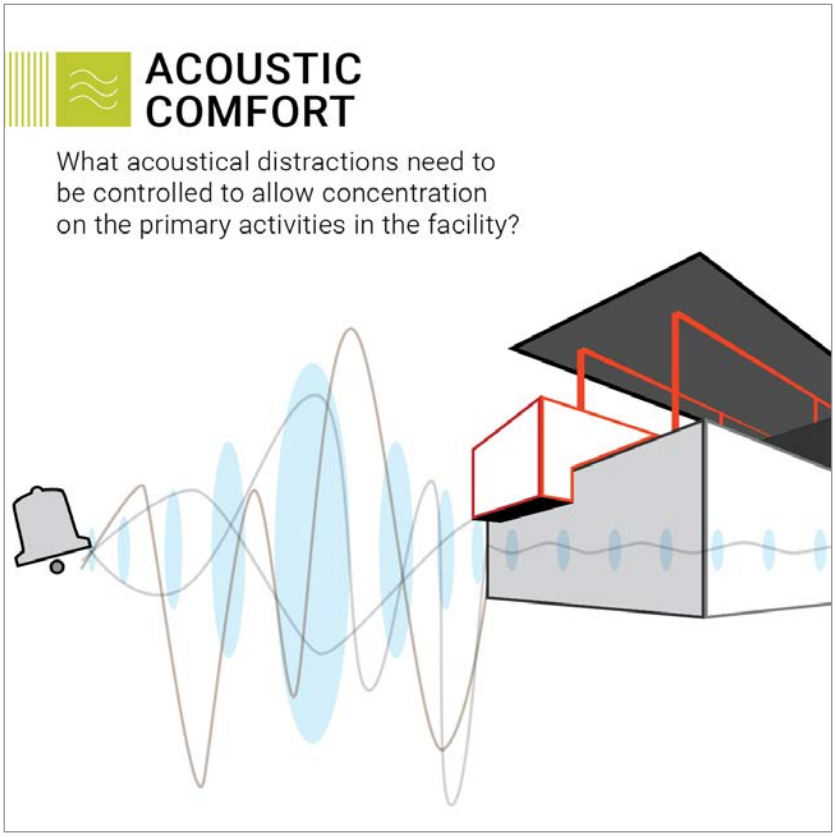

PLAY
How can your project provide user groups with opportunities to play, explore, experiment, and find joy?

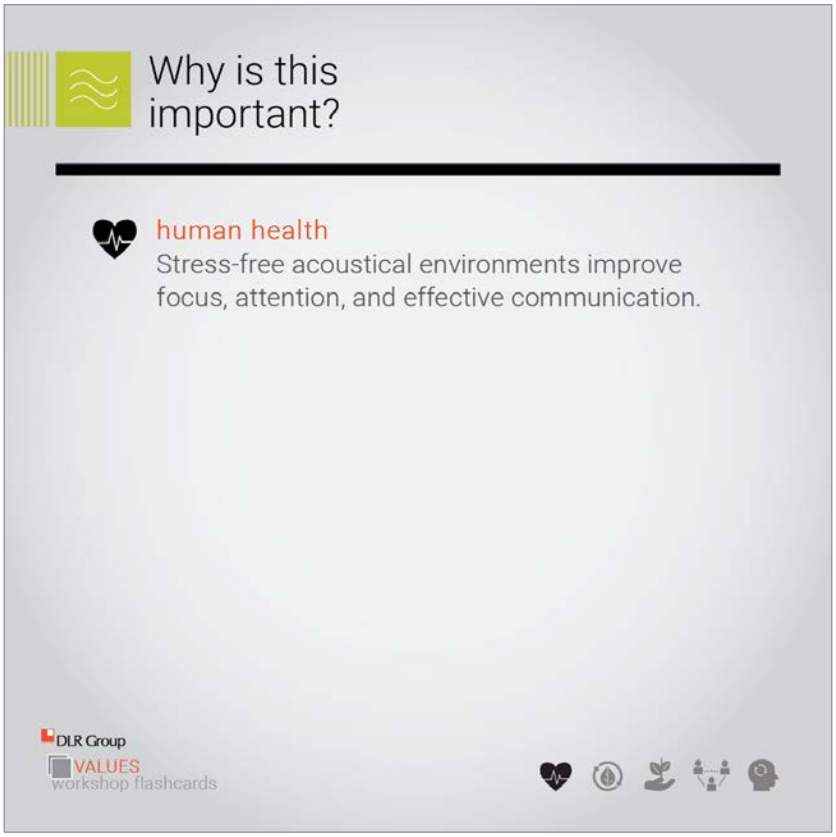

Why is this important?
human health
By engaging in different types of activities – from structured to exploratory – people can restore mental energy, experience their own personal limits, and gain an understanding of their own self and others around them.
community health
Creating elements of fun and mystery that are accessible to the community enhances collective joy and community pride.
DLR Group
VALUES
workshop flashcards

INDOOR ENVIRONMENTAL QUALITY

How can intentional design features actively promote users' emotional and physical well-being and encourage them to make healthier choices?

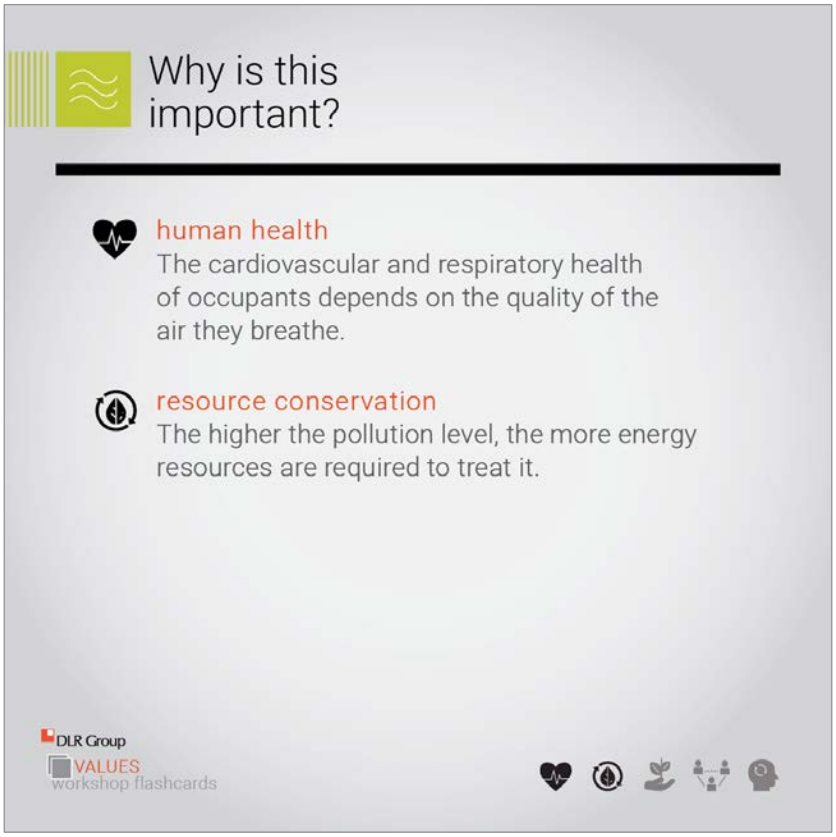
ACOUSTIC COMFORT



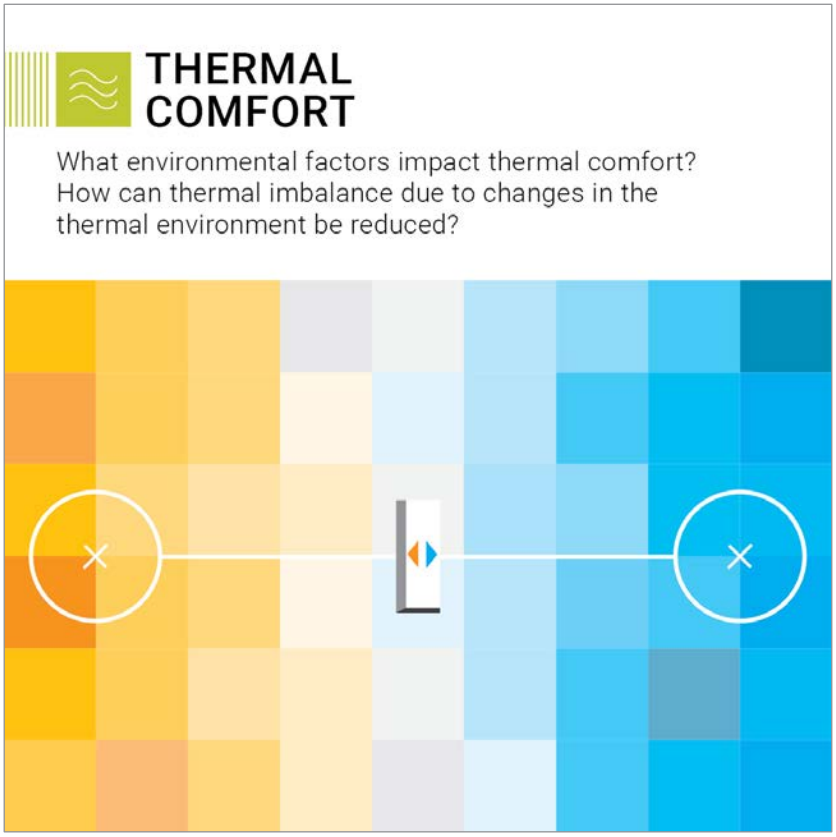


AIR QUALITY

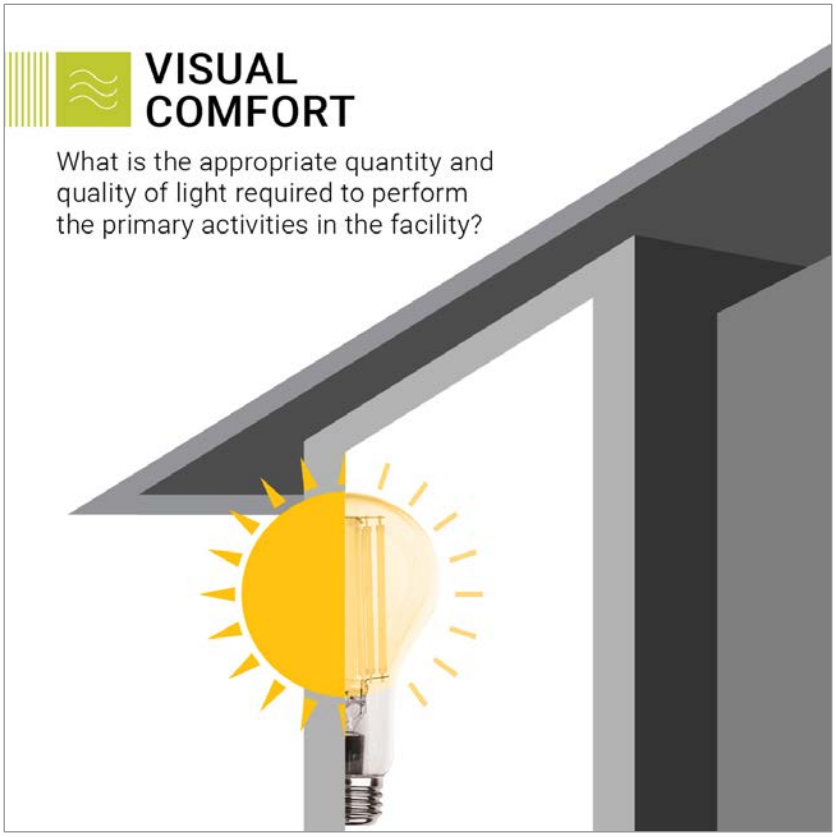

AIR
QUALITY
What pollutes the indoor air that occupants breath? How can pollution be avoided or treated?

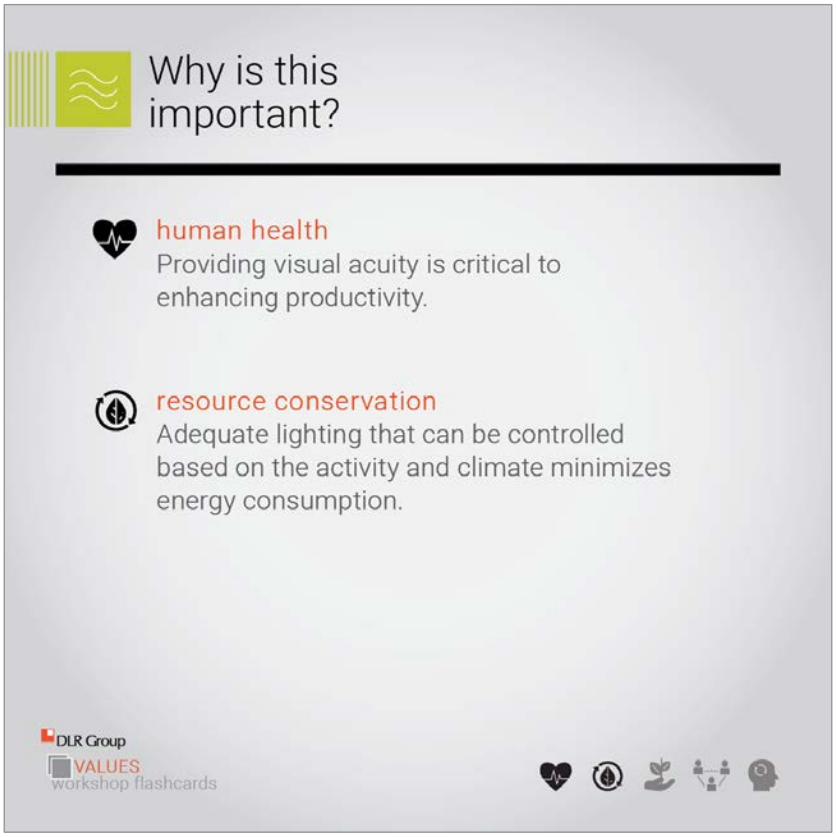

Why is this important?
human health
The cardiovascular and respiratory health of occupants depends on the quality of the air they breathe.
resource conservation
The higher the pollution level, the more energy resources are required to treat it.
DLR Group
VALUES
workshop flashcards

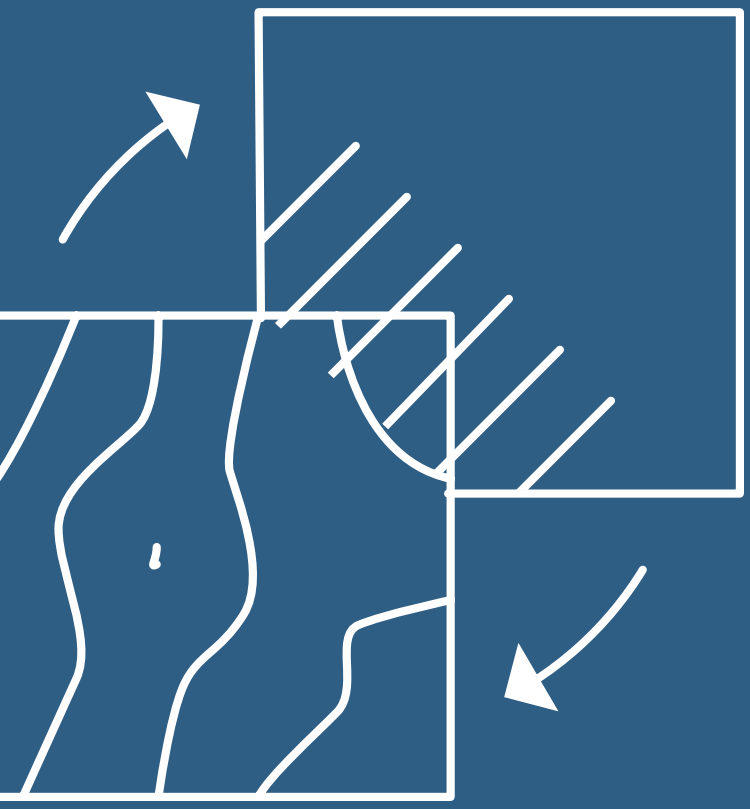
THERMAL COMFORT



VISUAL COMFORT





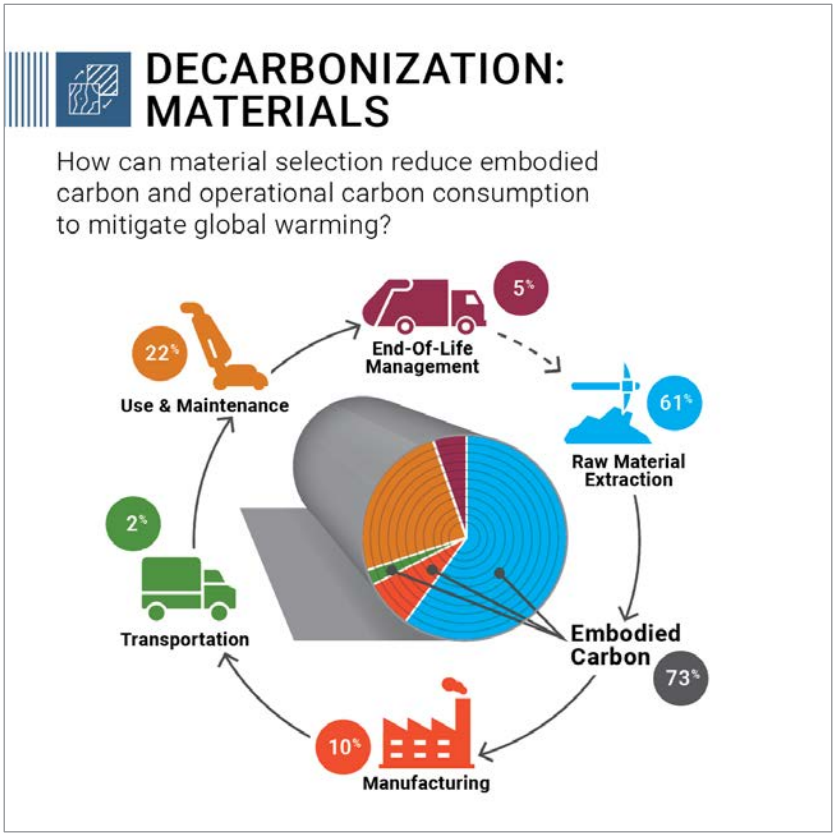


MATERIALS IMPACT

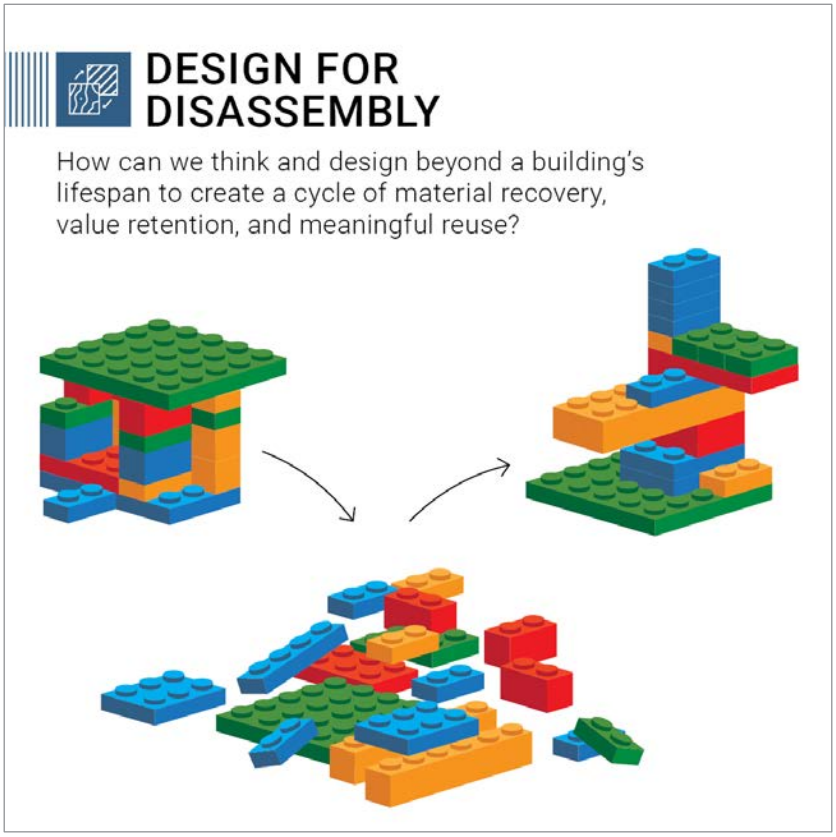
How do your materials choices support healthy ecology, communities, and economies?

CONSCIOUS MATERIAL SOURCING

DECARBONIZATION: MATERIALS

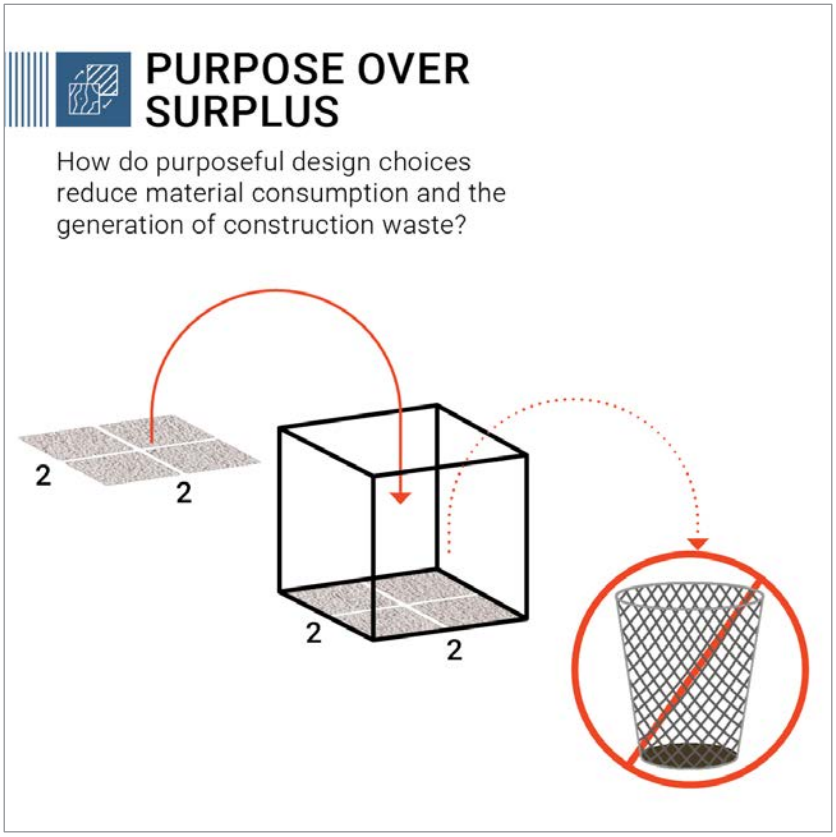


DESIGN FOR DISASSEMBLY



HANDPRINTING

PURPOSE OVER SURPLUS



TRANSPARENCY: MATERIAL INGRED.

TRANSPARENCY: MATERIAL INGREDIENTS

How can material transparency highlight material ingredients to make healthier choices for building occupants?

Material Facts

Building Per Serving 1
Building Per Block 4

% Daily Value

Declare
Red list free, red list compliant, declared

Health Product Declaration
LT-1 free

Cradle to Cradle: Certified
Platinum

Cradle to Cradle: Material Health Certificate
Platinum

Living Product Challenge
Certified

Why is this important?

human health
Validating a material's ingredients helps avoid the presence of harmful substances that can affect occupant health.

ecological future
Ingredient awareness helps us demand the replacement of toxic ingredients with ones that have no hazard or cautionary indicators, many of which are derived from plants. This can improve both human and ecological health.

DLR Group
VALUES
workshop flashcards

OUTDOOR ENVIRONMENTAL QUALITY

How can your project's outdoor spaces restore ecology, promote biodiversity, build community, and create a strong sense of place?

BUILDING ECOLOGY

BUILDING ECOLOGY

How can intentional design choices at the building level, such as dark-sky lighting and avian-friendly design, promote ecosystem health?

Why is this important?

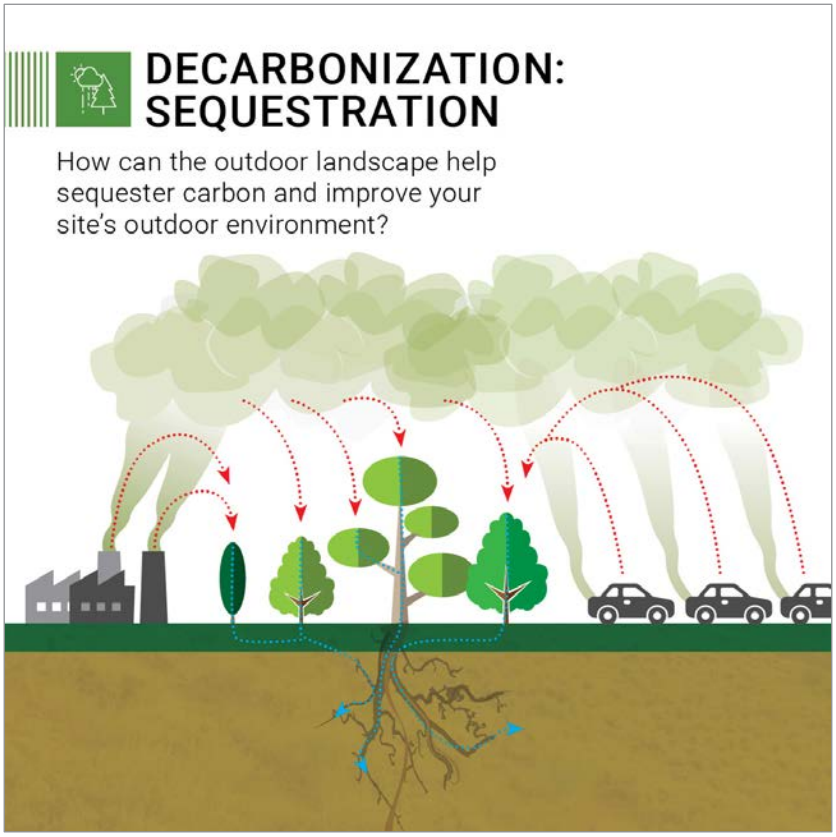
human health
Building Ecology can restore our inherent connection to nature and provide mental and physical health benefits.

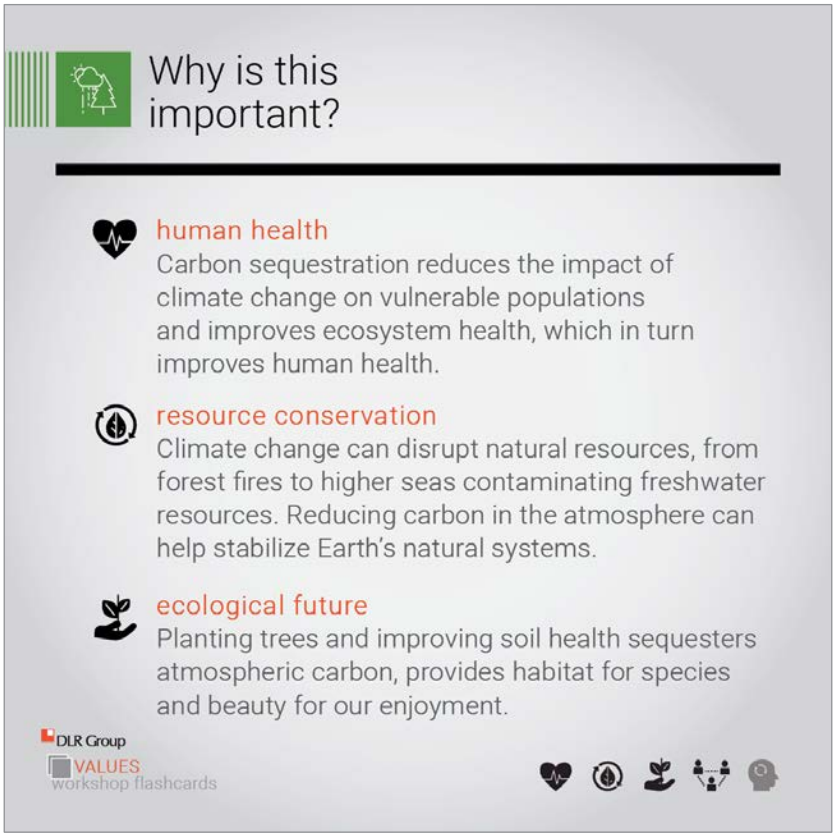
ecological future
A building's design for ecology can support biodiversity and integrate into a site's ecosystem, providing habitat, food, and shelter for people and other species.

community health
Buildings designed with site ecology can absorb stormwater, clean air, grow food, and provide other stabilizing services to local communities.

DLR Group
VALUES
workshop flashcards

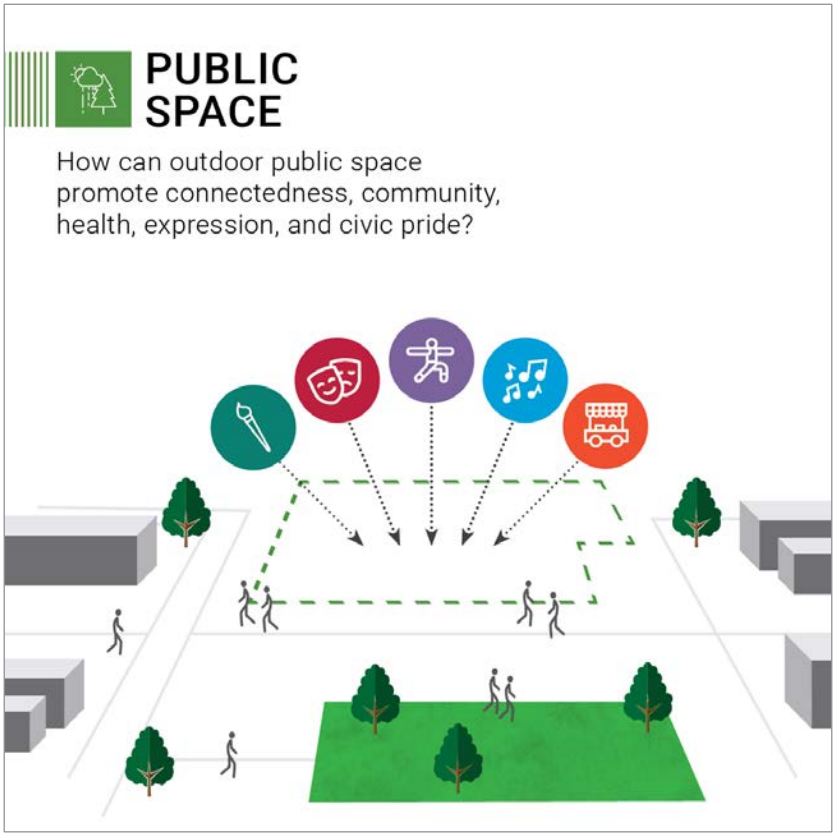
DECARBONIZATION: SEQUESTRATION

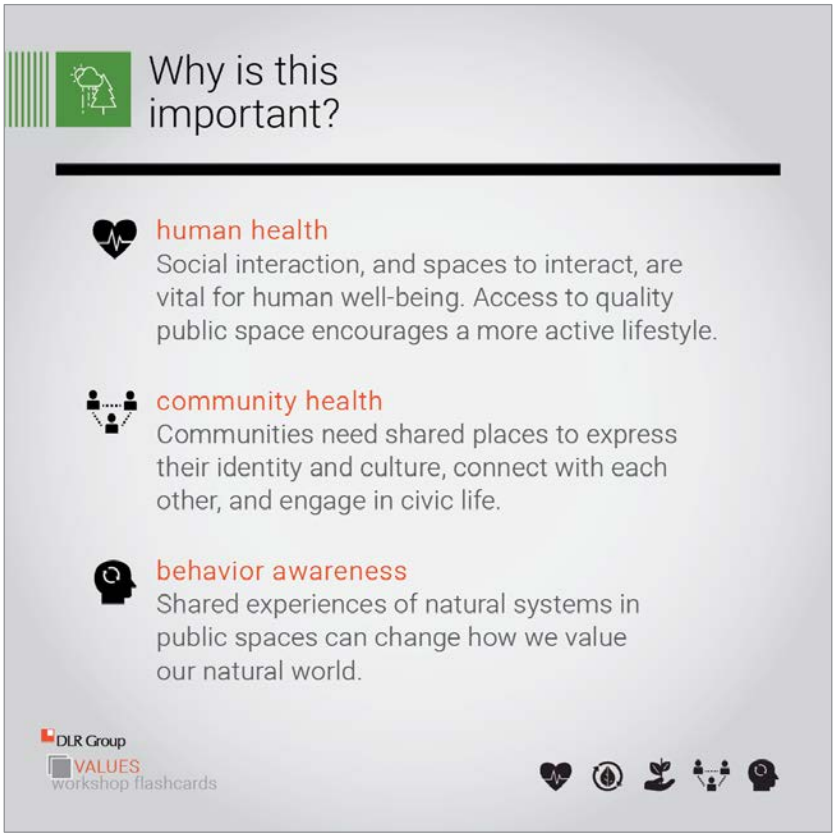




ECOSYSTEM SERVICES

PUBLIC SPACE





SITE ECOLOGY

SITE ECOLOGY

How can a site's selection and design regenerate ecosystem health, connect habitats, promote biodiversity, and protect non-human species to ensure a more resilient community?

Why is this important?

resource conservation

Humanity needs 1.5 Earths to meet our current resource demands. Designing for healthy Site Ecology can help sequester carbon, promote biodiversity, and improve a site or community's ability to bounce back from a disruption (resilience).

ecological future

Land Development is the primary cause of biodiversity decline globally. Conserving ecologically sensitive sites, native landscaping design, and integrating ecology with the built environment can lead us to a regenerative future.

DLR Group
VALUES
workshop flashcards

PROCUREMENT + OPERATIONS

How can intentional design features actively promote users' emotional and physical well-being and encourage them to make healthier choices?

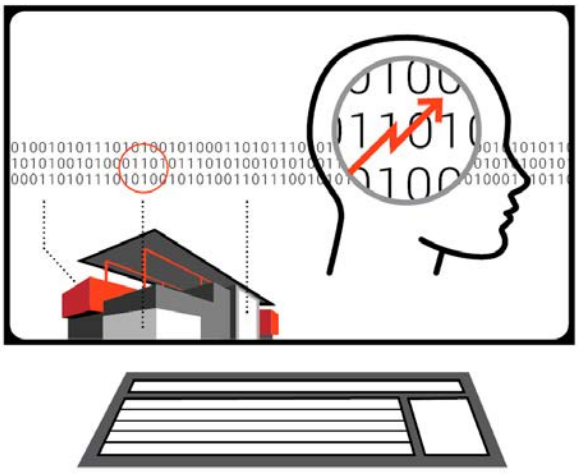
CONSCIOUS CLEANING + UPKEEP

GOODS + SUPPLIES

OPERATIONAL OPTIMIZATION

OPERATIONAL OPTIMIZATION

How can building systems intelligently connect and respond to trends in behavior, operations, and performance? Can proactive measures be taken to meet user needs and ensure continued function?



Why is this important?

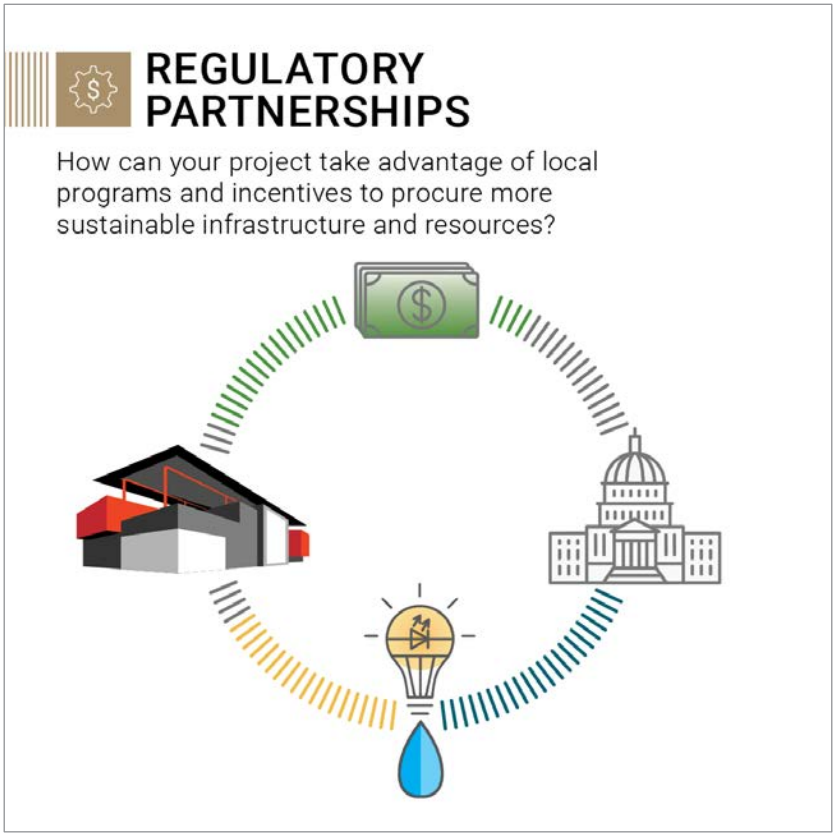
human health
Building systems are designed to create healthy environments. It's important to optimize their operation to enhance the comfort and well-being of occupants.

resource conservation
Monitoring and transparency ensure that a building is operating efficiently to conserve energy and resources.

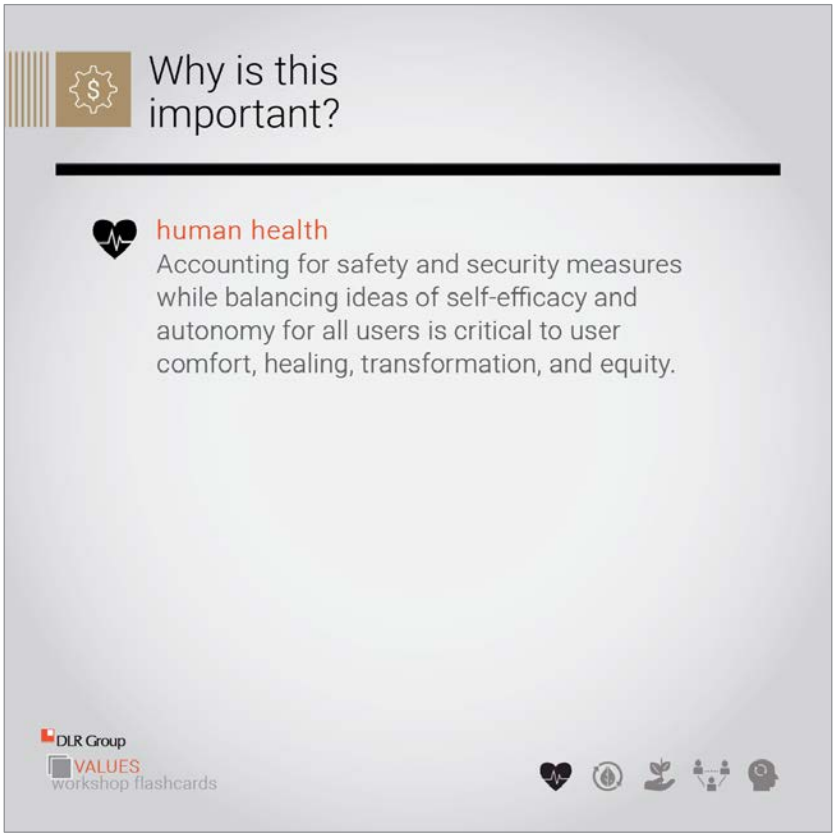
ecological future
Conserving water and energy is part of building optimization. Reducing water and energy use protects local ecology.

DLR Group
VALUES
workshop flashcards

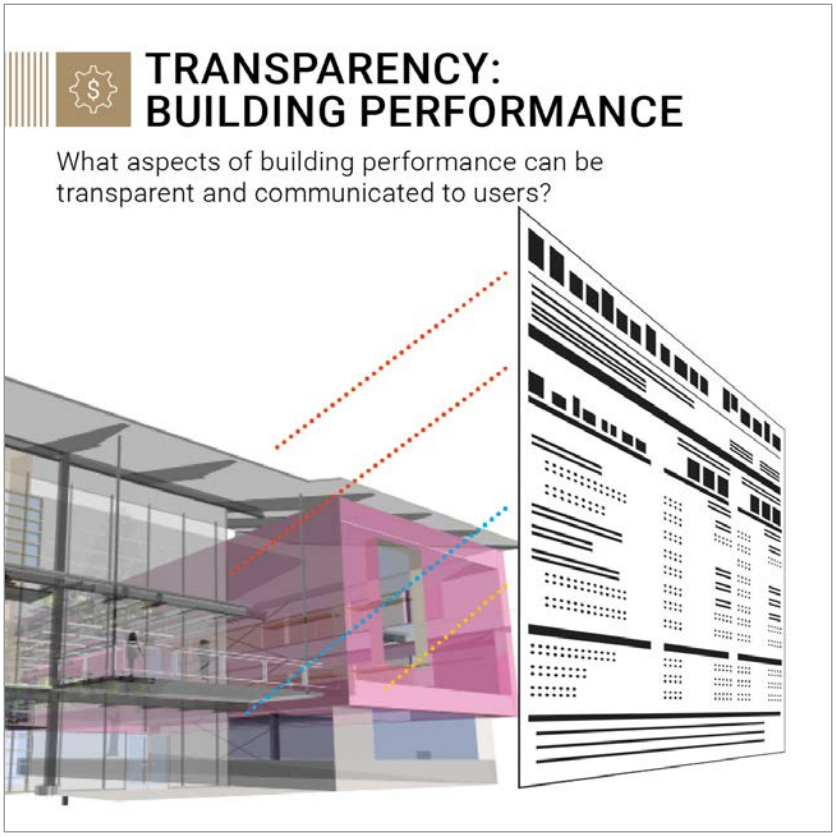
REGULATORY PARTNERSHIPS

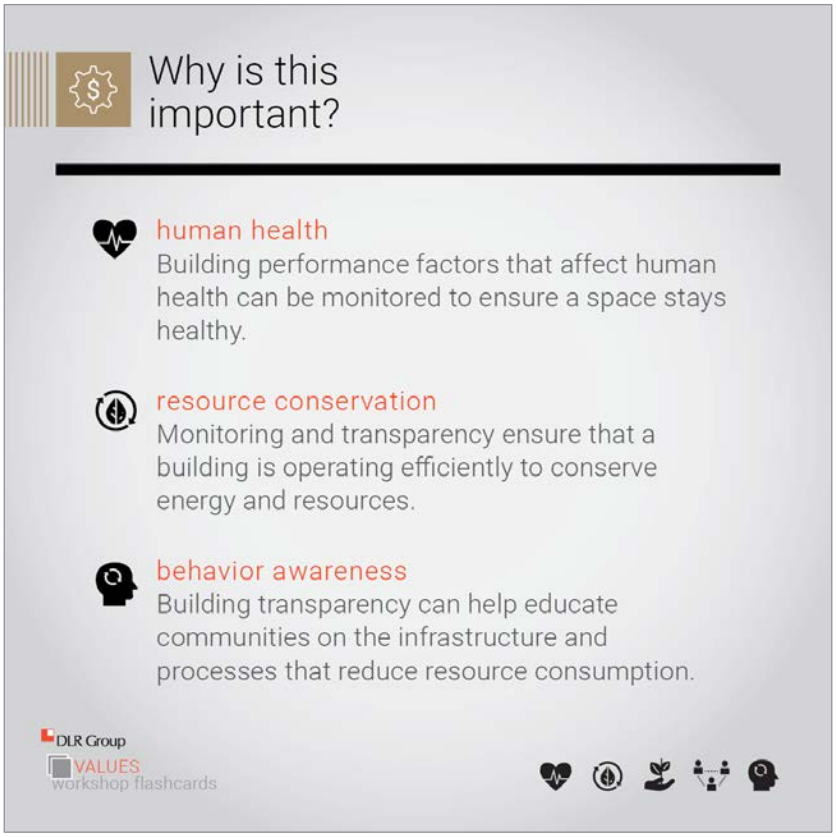


SAFETY + SECURITY



TRANSPARENCY: BLD'G PERFORMANCE

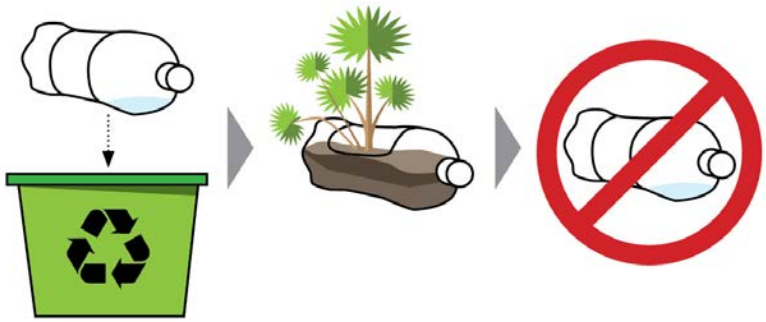




WASTE

WASTE

What aspects and programs in the facility can promote recycling, upcycling, and waste reduction?



Why is this important?

ecological future
Reduced waste disposal at landfills can lessen soil and groundwater pollution and reduce the need for harmful extraction processes.

community health
Communities located next to landfills are more vulnerable to environmental toxins.

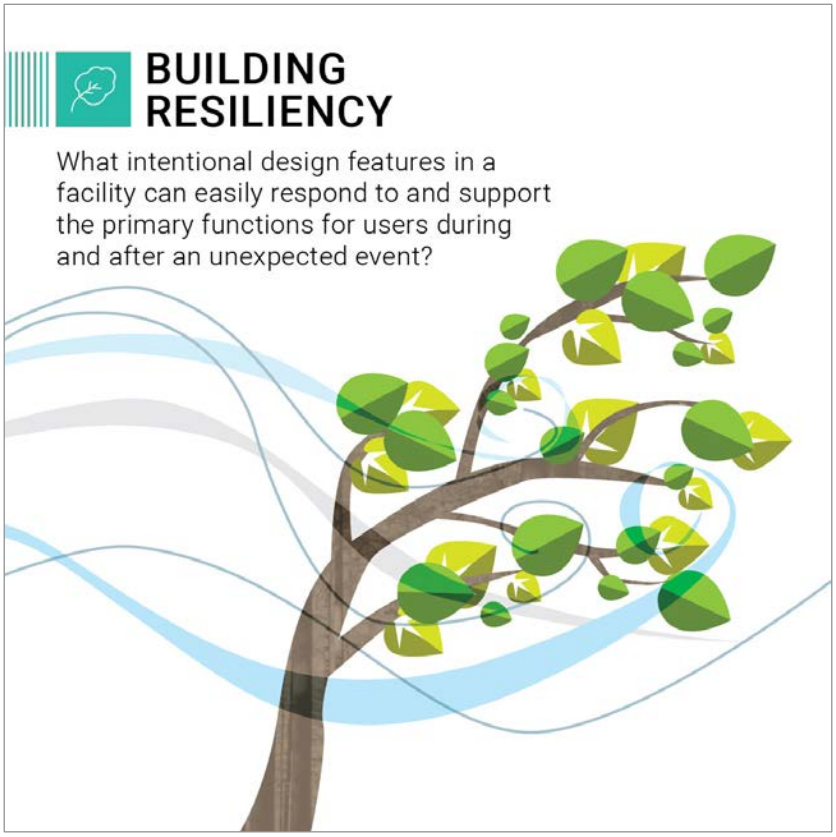
behavior awareness
Championing conscientious waste management practices on-site can improve behavior patterns at home.

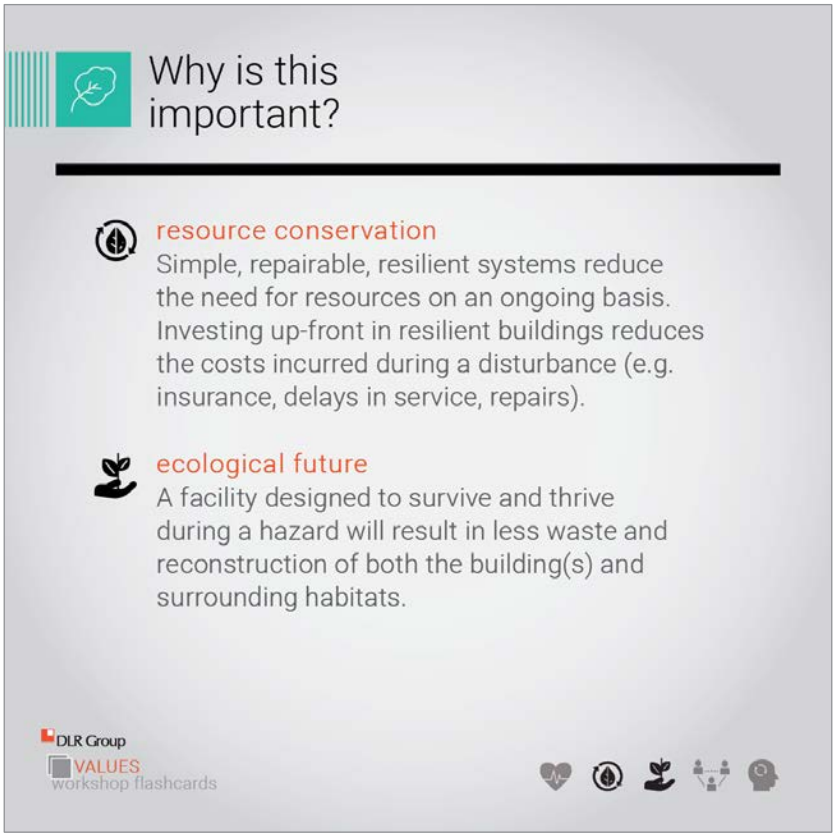
DLR Group
VALUES
workshop flashcards

RESILIENCY

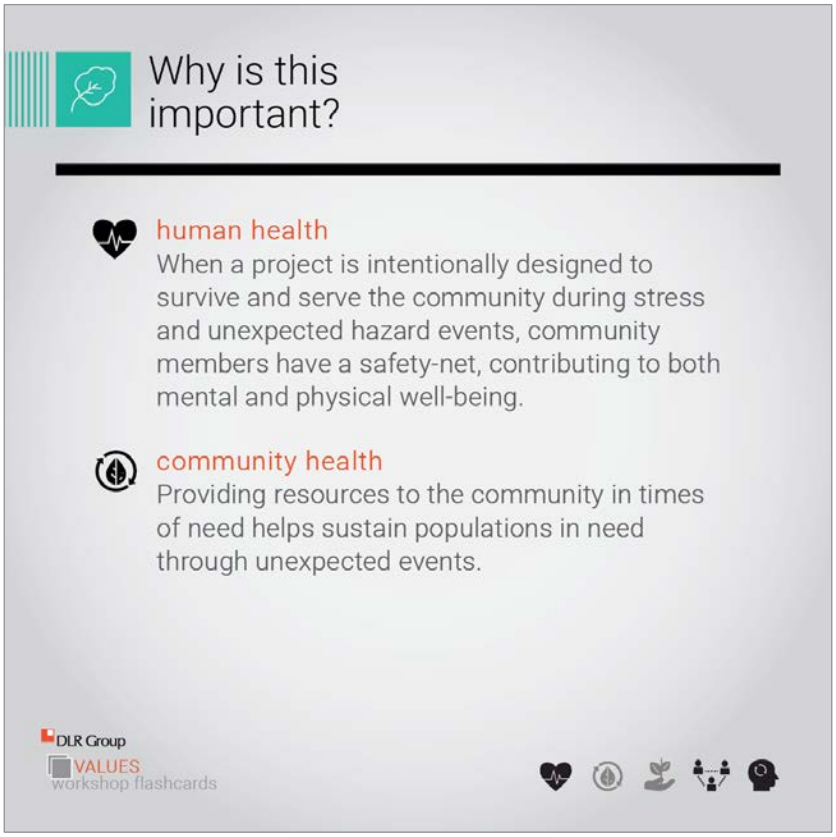
How can your project help its users and community adapt to and recover from unexpected situations?

BUILDING RESILIENCY

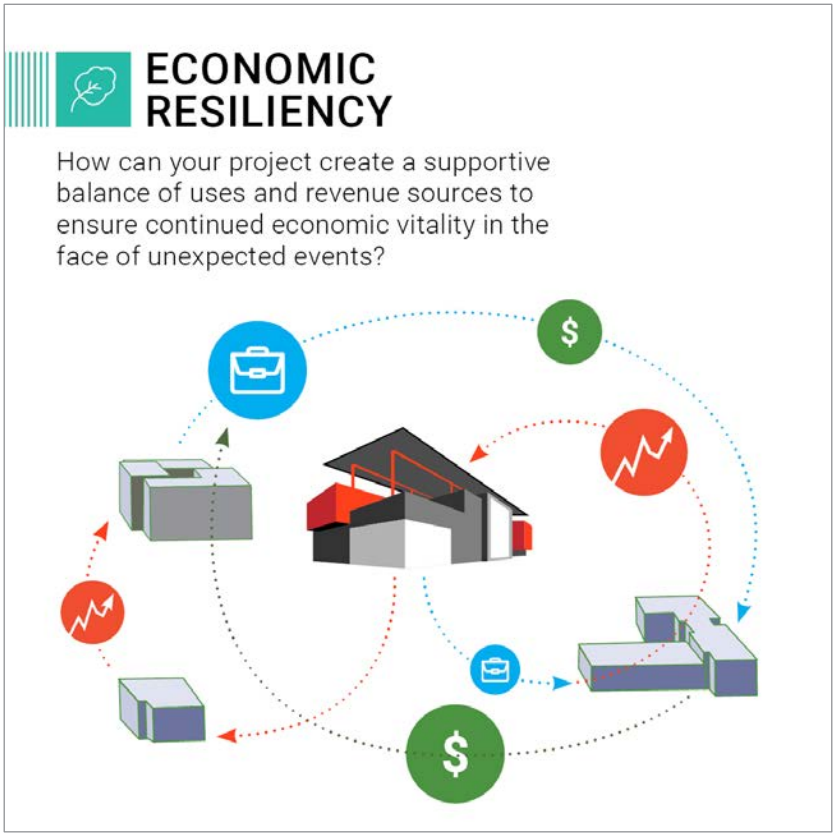


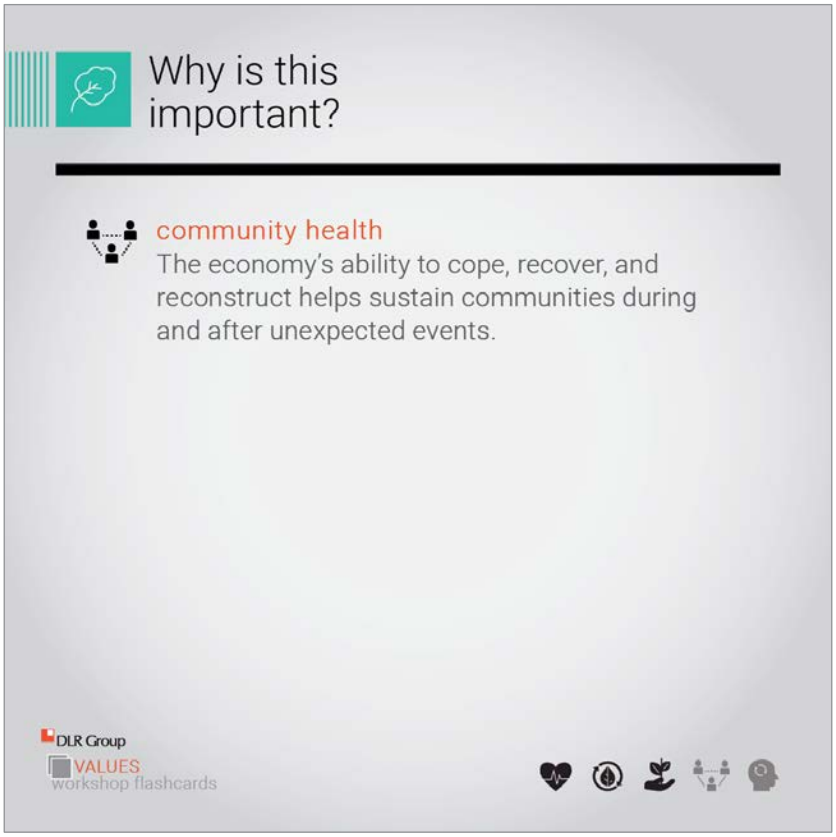


COMMUNITY RESILIENCY

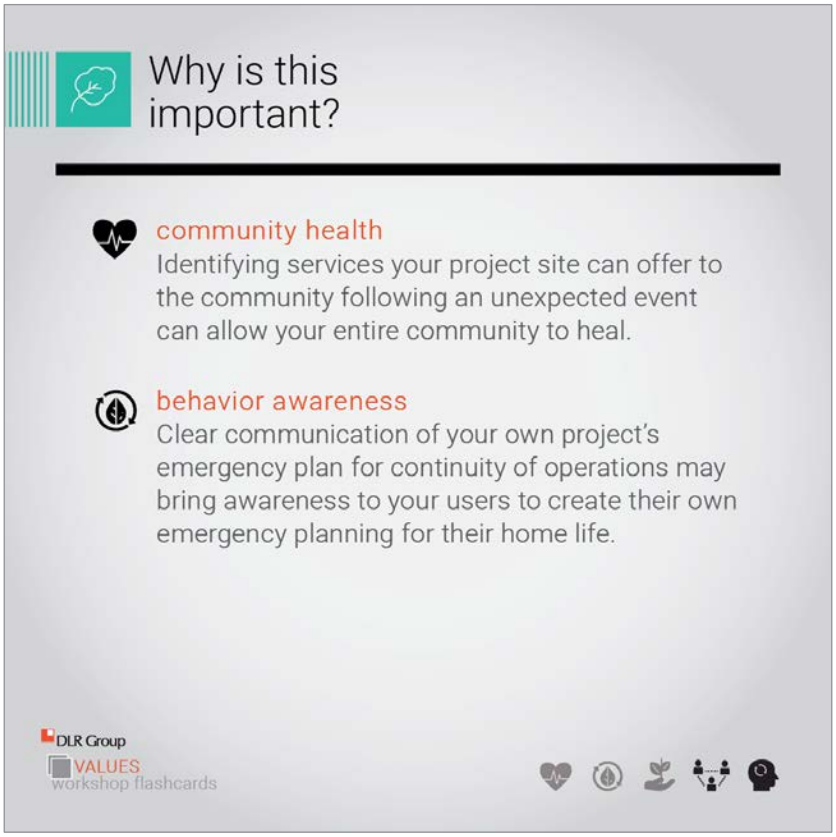


ECONOMIC RESILIENCY

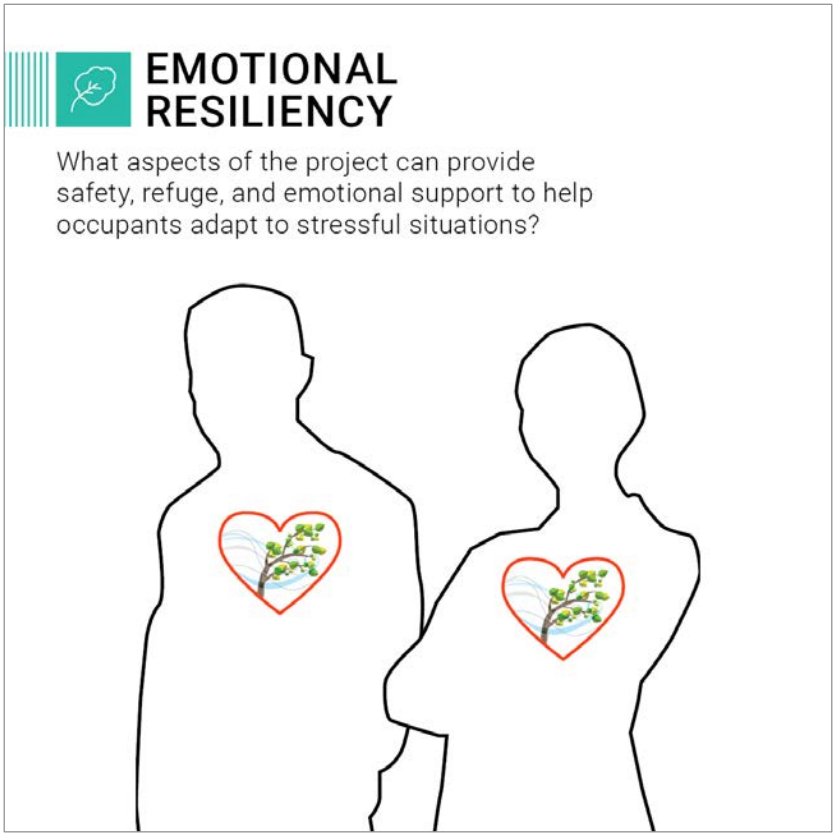


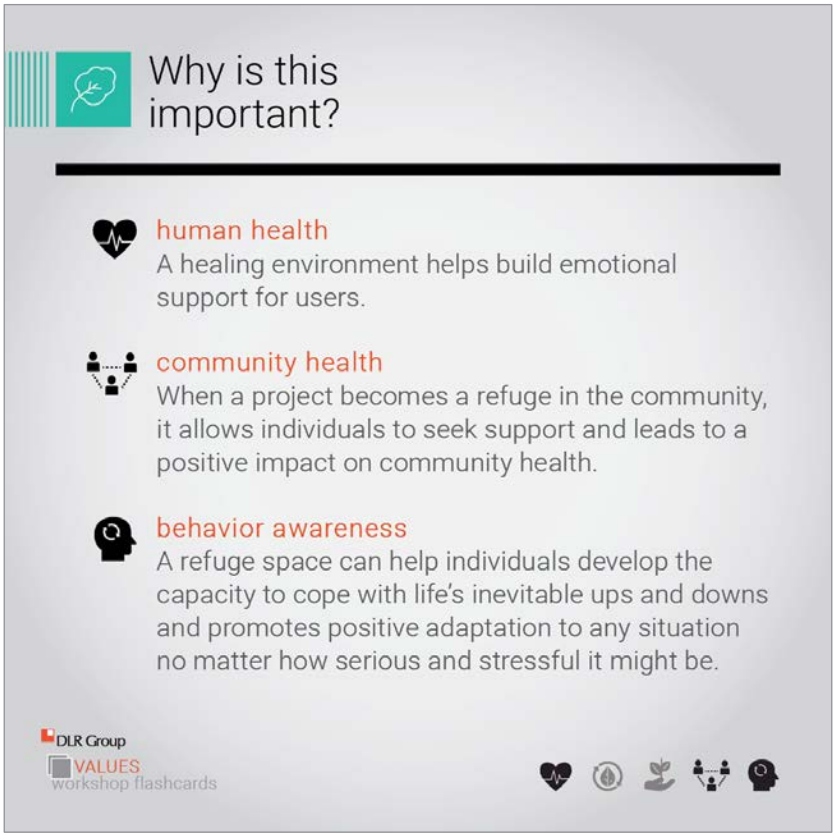


EMERGENCY PLANNING

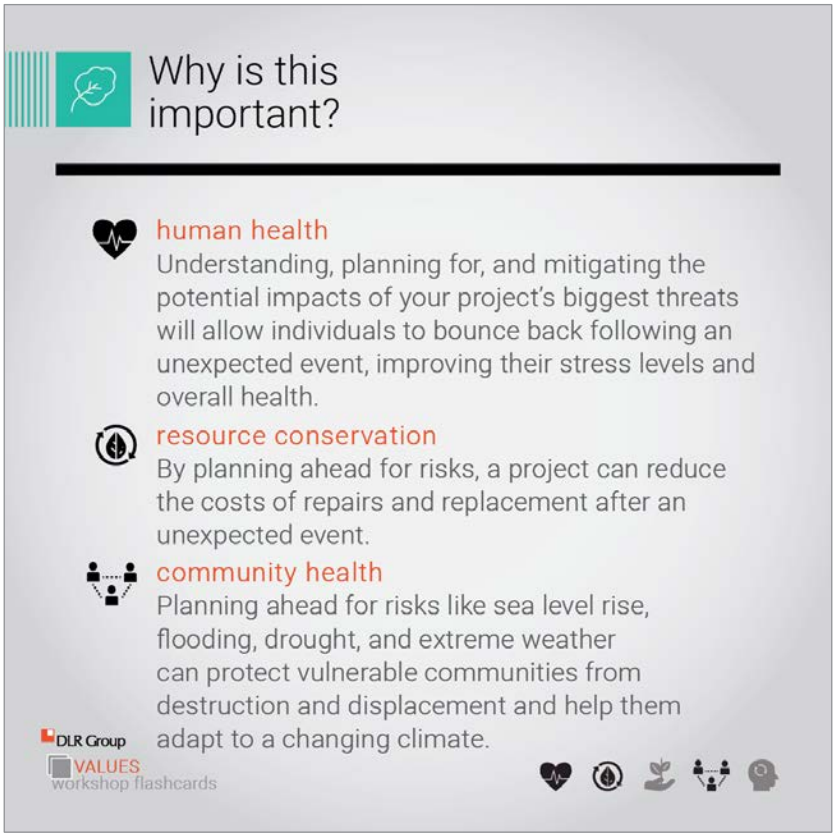


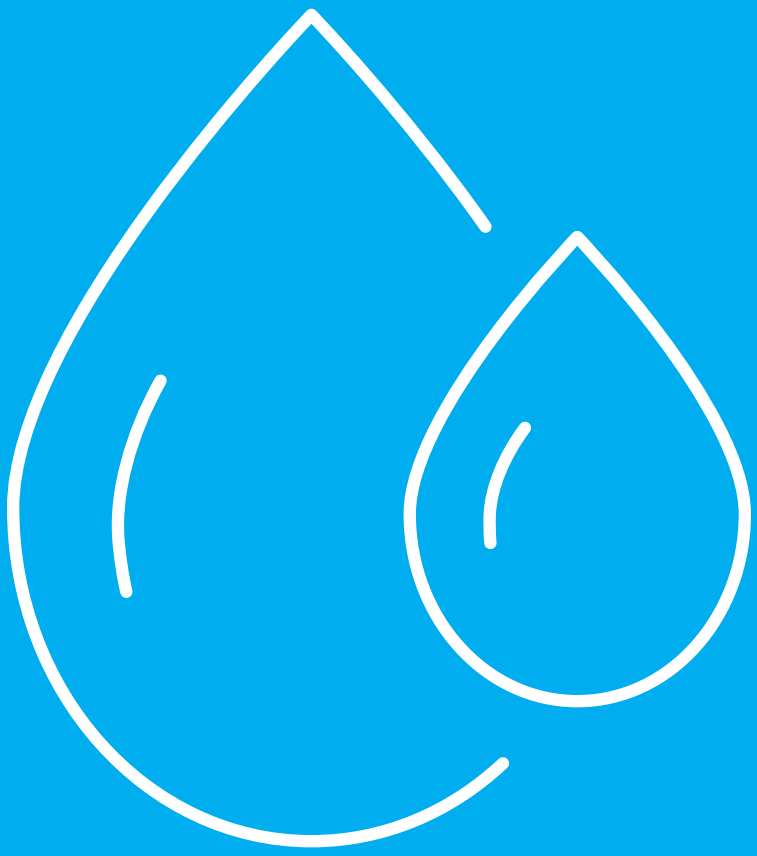
EMOTIONAL RESILIENCY





RISK ADAPTATION + MITIGATION

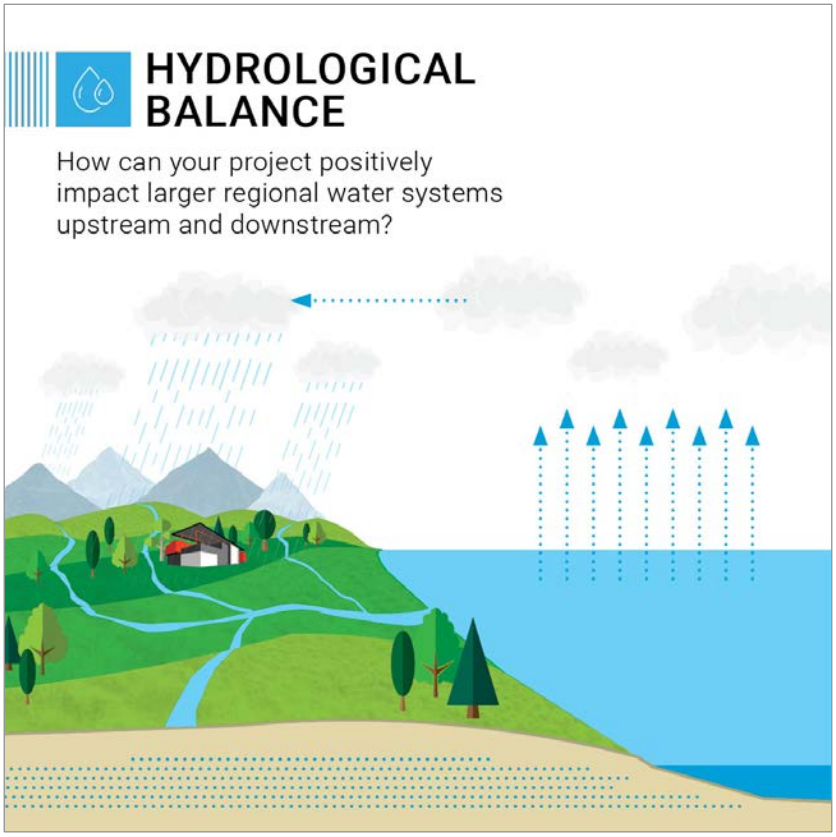


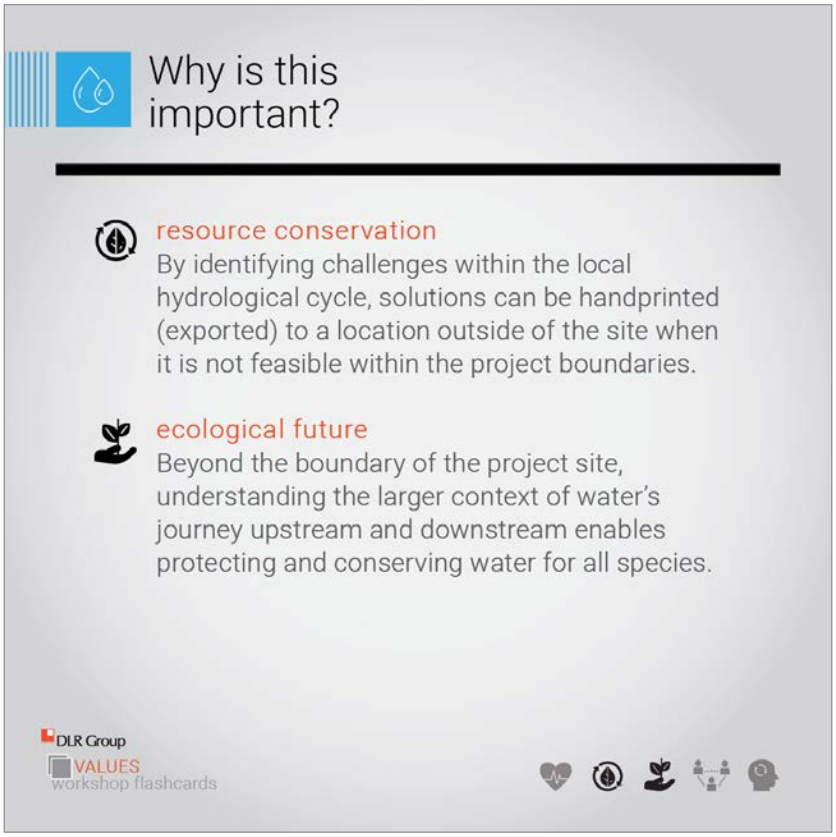


WATER

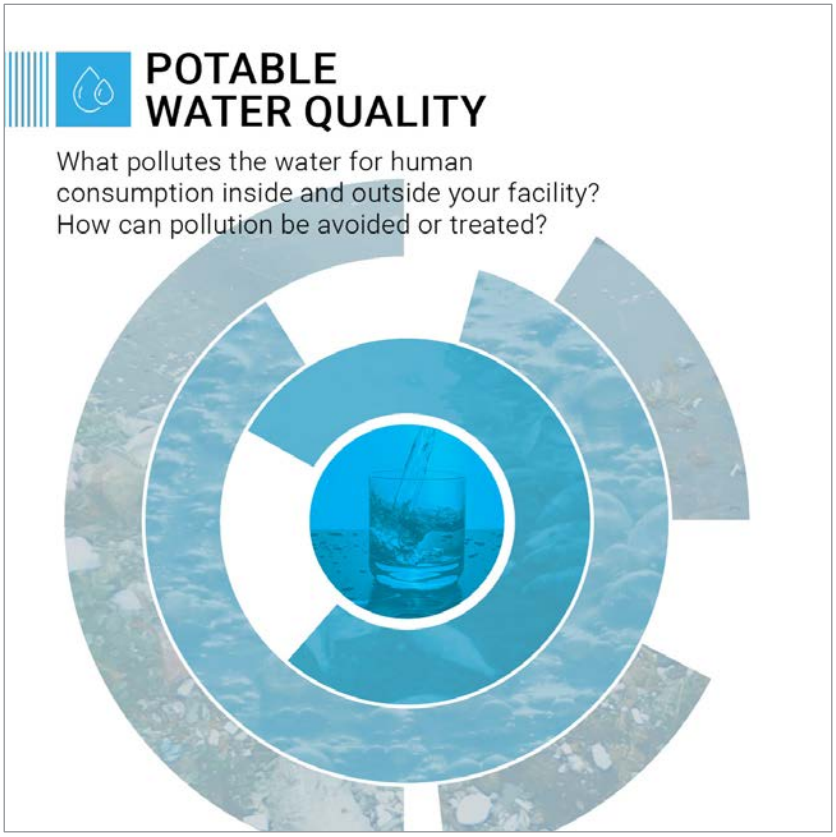
What connections to water are important to your users and neighboring communities?

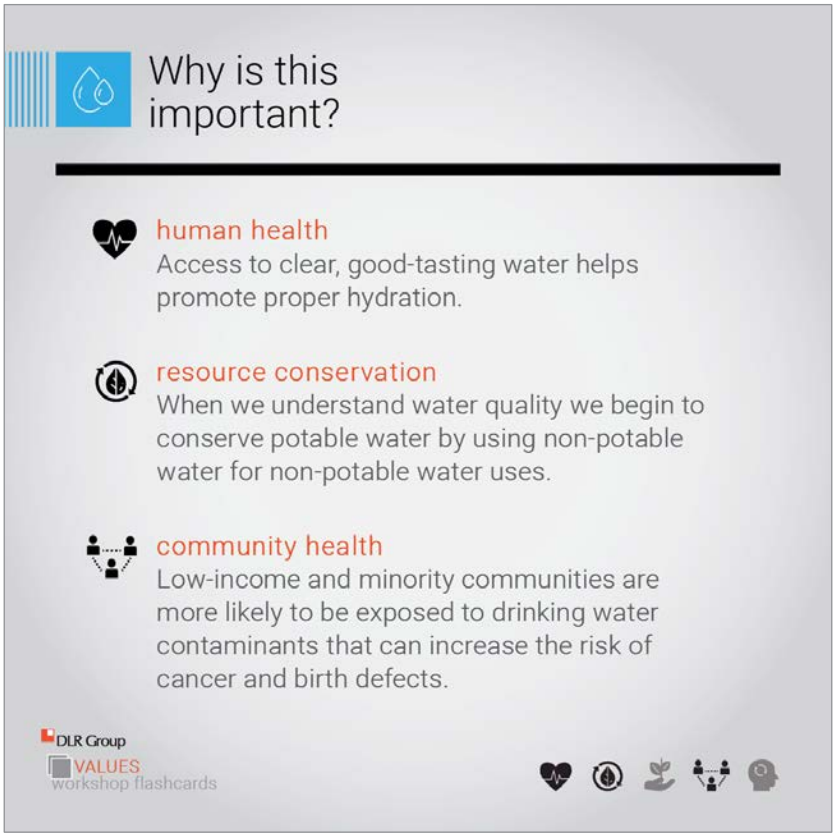
HYDROLOGICAL BALANCE





POTABLE WATER QUALITY

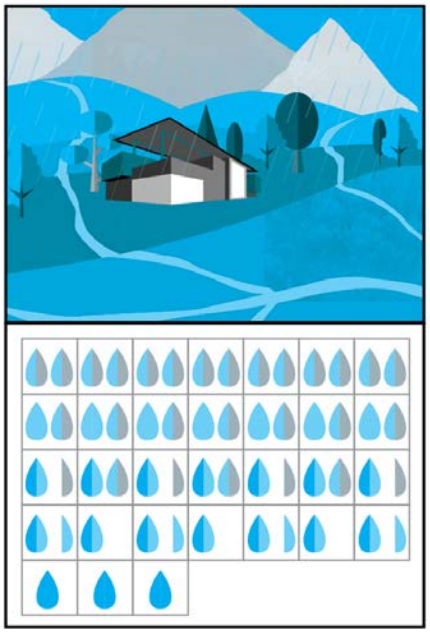




(STORM)WATER MANAGEMENT

(STORM) WATER MANAGEMENT

What is the long term water need for the facility in quantity and quality? How can needs be reduced and quality maintained throughout the life of the facility?



Why is this important?

human health

Stormwater management is an important public health intervention to reduce disease. Improper drainage forms stagnant pools providing breeding sites for disease vectors.

resource conservation

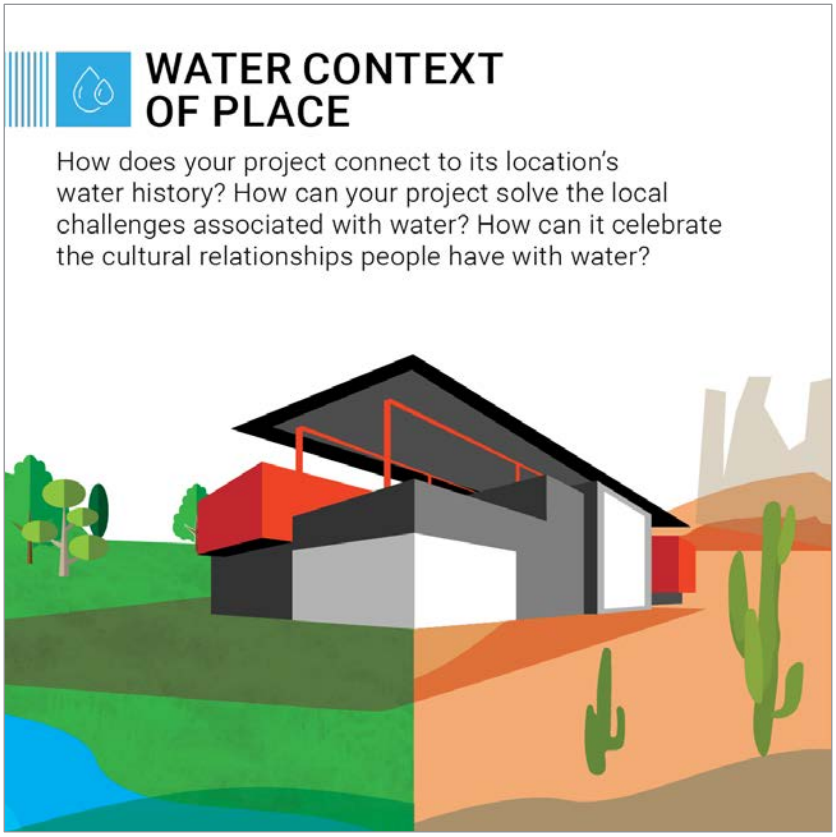
Using water more than once through innovative technologies reduces potable water needs and lessens the burden on wastewater management.

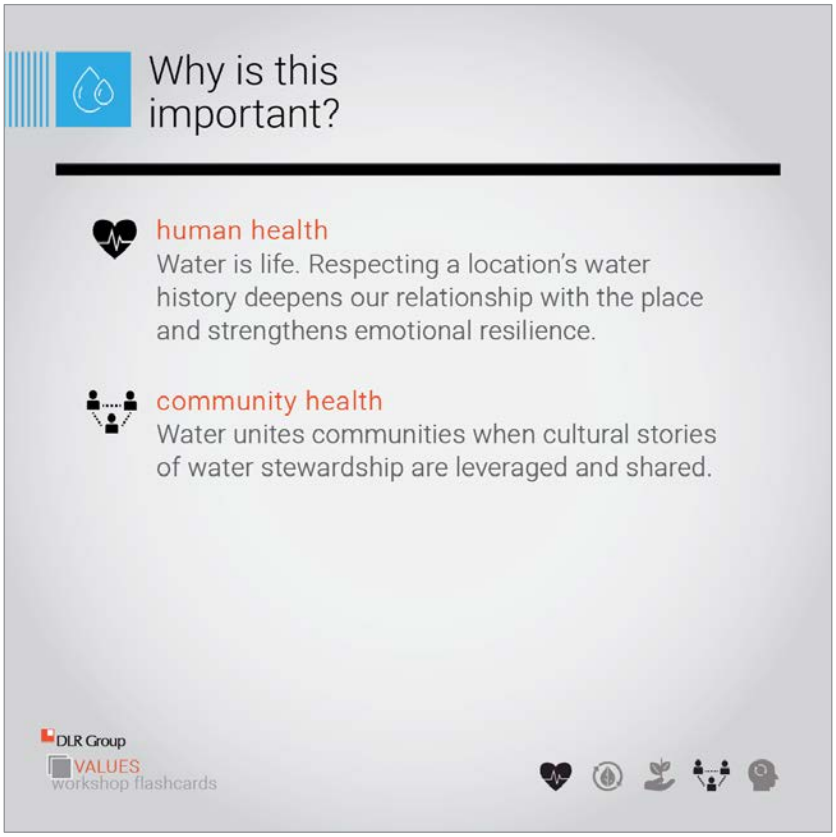
ecological future

By controlling stormwater volume and timing, sustainable stormwater management practices also improve ecosystem services such as water supply, water storage, climate regulation, and flood control.

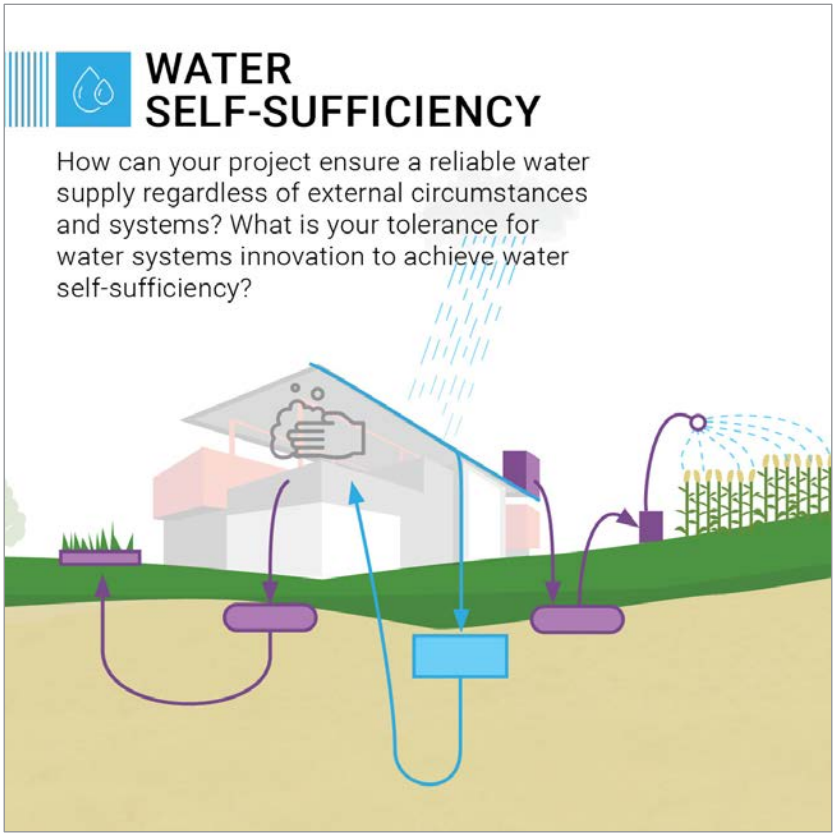
DLR Group
VALUES
workshop flashcards

WATER CONTEXT OF PLACE





WATER SELF-SUFFICIENCY



Deliverables

S_CAP

Sustainability and Climate Action Plan

IEMP

Integrated Energy Master Plans

TOC

Total Cost of Ownership

Organizations

AASHE

The Association for the Advancement of Sustainability in Higher Education

APPA

Association of Physical Plant Administrators.

CCCCO

California Community College Chancellor’s Office.

Types

Buildings

All buildings that are conditioned. This will include unconditioned walkways and canopies that are part of the building.

Non-Buildings

Parking lots, parking garages, sports fields and stadiums.

Mobile

Vehicles owned and operated by RCCD.

Entity-wide

Encompasses the entire District including all its physical and personal assets.

Key Performance Indicators (KPI)

A target value for a metric that can more clearly define a goal. We will know a goal is achieved when a KPI is reached.

Gross Square Footage (GSF)

The overall square footage of a building including the exterior envelope and area under attached canopies. GSF is usually higher than the net square footage that is conditioned.

Electricity Consumption (kWh)

1,000 Watt-hours or 1 Kilowatt hours is a unit of energy being transmitted or used at a constant rate over a period of time.

Electricity Demand (kW)

1,000 Watt or 1 Kilowatt is a unit of power transmitted or used. It is the energy used per unit of time. Electricity demand is often referred to as peak demand. When electrical devices are turned on, they consume massive amounts of energy for a fraction of a second leading to astronomically high-power demand. It is for this reason that billed peak demand is averaged over larger portions of time, called “demand intervals.” Typical demand intervals range from 15 to 30 minutes.

Natural Gas Consumption (Therms)

1 therm or 100,000 British thermal units (Btu) is the unit of heat energy. It is approximately the energy equivalent of burning 100 cubic feet (often referred to as 1 CCF) of natural gas.

Heat Energy (kBtu)

1000 Btu’s or 1 kBtu is a common unit used in building energy use tracking and heating and cooling system sizing. 1 kW = 3.412 kBtu’s. 1 therm = 100 kBtu’s.

Energy Use Intensity (EUI)

Expressed in kBtu's/GSF/Year, EUI is the amount of energy consumed by a building per square foot of gross floor area over a period of one year.

Cost ($)

US Dollars expressed for first costs and utility costs. Future costs are also expressed in today costs and no net present value is accounted for.

Green House Gas Emissions – GHG

Expressed as Pounds of Carbon Dioxide Equivalent – lbs. of CO_2, GHG emissions represents quantity of any of the atmospheric gases that contribute to the greenhouse effect by absorbing infrared radiation produced by solar warming of the Earth's surface. They include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (NO_2) and water vapor.

Water – Gallons

Expressed as the unit of volume of water, gallons apply to both potable water quantity as well as reused or reclaimed water quantity.

Timeline

Present

This timeline represents 2019-2021 as that was the most comprehensive data set available during the scope of the planning process. It is also referred to as Today.

Measures Taken in the Past

This timeline generally refers to energy and water efficiency projects already taken place during the implementation of Prop 39 and Measure E & LB bond projects.

Baselines in the Past

Baselines refer to a time in the past for which a particular KPI is measured at that time and set for comparison of progress in the present and in the future.

Future Target

This timeline refers to a time in the future for which a particular KPI is set as a goal to achieve.

Future

This generally is any time after the publication of the SCAP, IEMP or TOC.

Strategy Categories

Use-Reduce

These set of efficiency strategies generally lead to a reduction in the need for a resource such as energy and water or propose alternative uses of the same resource. These strategies also include optimization of space as a resource.

Sustainability Frameworks

VALUES

This is a framework developed by DLR Group to expand the conversation of sustainability and connect to User Experience.

STARS

The Sustainability Tracking, Assessment & Rating System (STARS) is a transparent, self-reporting framework for colleges and universities to measure their sustainability performance.