



Developing and Growing Sustainability Programs for an Organization

APTA - Rail

June 13, 2018





01 What is sustainability?

02 HDR's sustainability journey

03 Applying what we have learned and researched to the work we do

04 Success stories



01 What is sustainability?

Sustainability Defined

“ *Development that meets the needs of the present without compromising the ability of future generations to meet their own needs.** ”



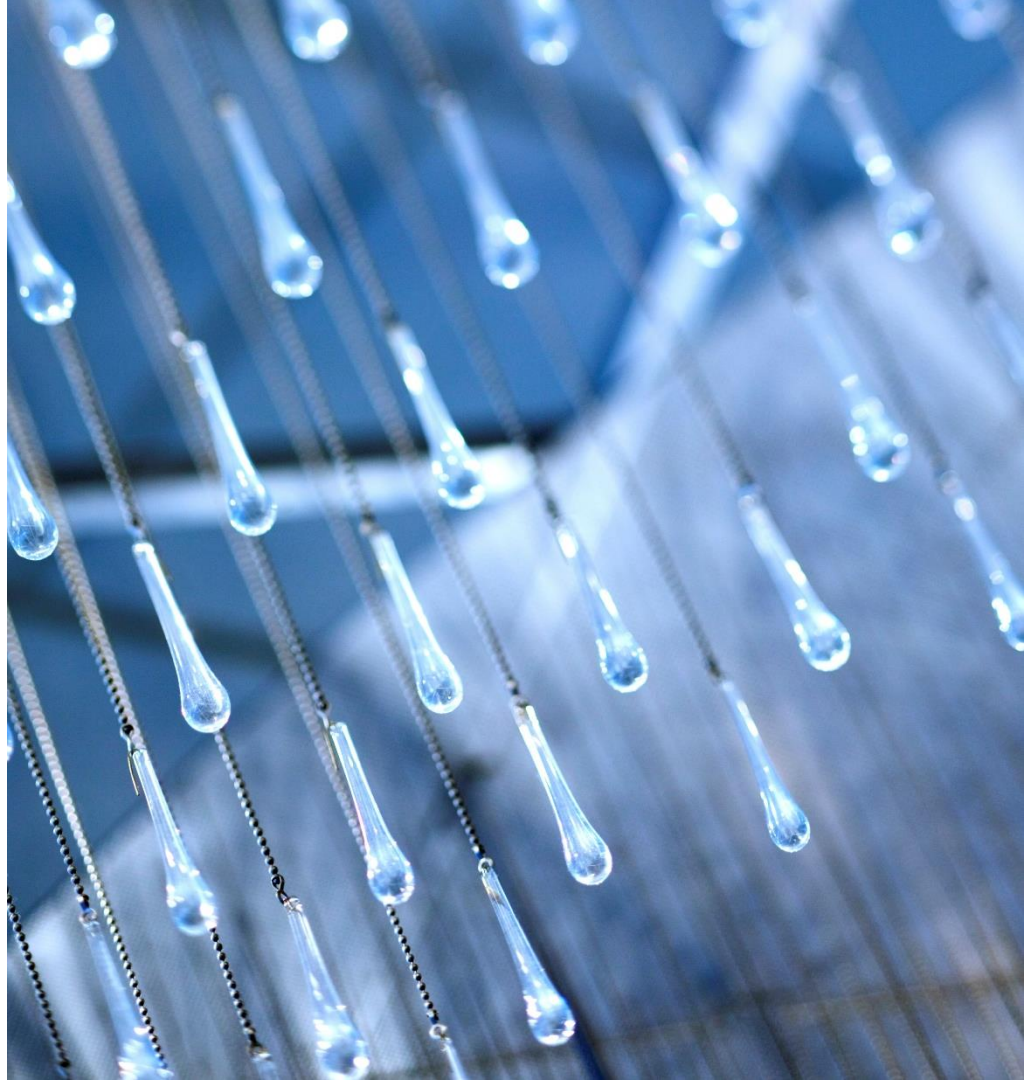


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**HDR's sustainability
journey**

GRI Standard

- The GRI Standards are the first global standards for sustainability reporting.
- Enable organizations to publicly report on their **economic, environmental and social impacts** – and show how they contribute towards sustainable development.
- HDR has followed GRI guidelines since 2008 report
- Modified in 2017 – moving from G4 Guidelines to GRI Standard



Annual Process

- Kick-off with department leadership
- Gather and organize content
- Develop revised rough draft
- Initial reviews
- Publish/post



Content & Format

1. Report over calendar year +/-
2. Materiality Assessment
3. Four Pillars
 1. Projects
 2. Our People
 3. Sustainable Business Practices
 4. Partnerships
4. Stories
5. GRI Standard



Reporting Contributors

- Sustainability
- Human Resources
- Wellness
- Safety, Health & Environmental
- Learning & Organizational Development
- Ethics & Compliance
- Legal
- Real Estate
- Local offices
- & more....





Our Commitment



60%

**paper use
reduction**

2011-2017

Waste Prevention and Recycling Standard



nearly

100

offices completed a survey and set
waste reduction goals

**Purchased electricity for our
Omaha headquarters has
decreased nearly**

35%

since 2011, due to updating controls and connecting chillers for the two separate buildings on our campus to more efficiently manage the cooling needs.



HDR

**Integrating
sustainable
solutions in our
leased spaces**

New Arlington, VA, office
high-efficiency lighting and
controls estimated to save

330,000 kWh
of electricity



over

43,000 lbs

of food waste

diverted from landfill



PRINT **LESS,** PRINT **SMART**

Our office participated in HDR's 2017 Printing Reduction Challenge and **reduced our overall printing from 2016-2017.**



PRINT LESS, PRINT SMART

2017 Printing Reduction Challenge



7.0%

overall
reduction
in printing*

304

-page

reduction
per FTE*



100

offices



with printing reductions*

*January-October, 2016 vs. 2017



60%

reduction in
printing since 2011

**LEED ID+C 2009
Platinum – 2017**

HDR Office, Alexandria, VA, USA



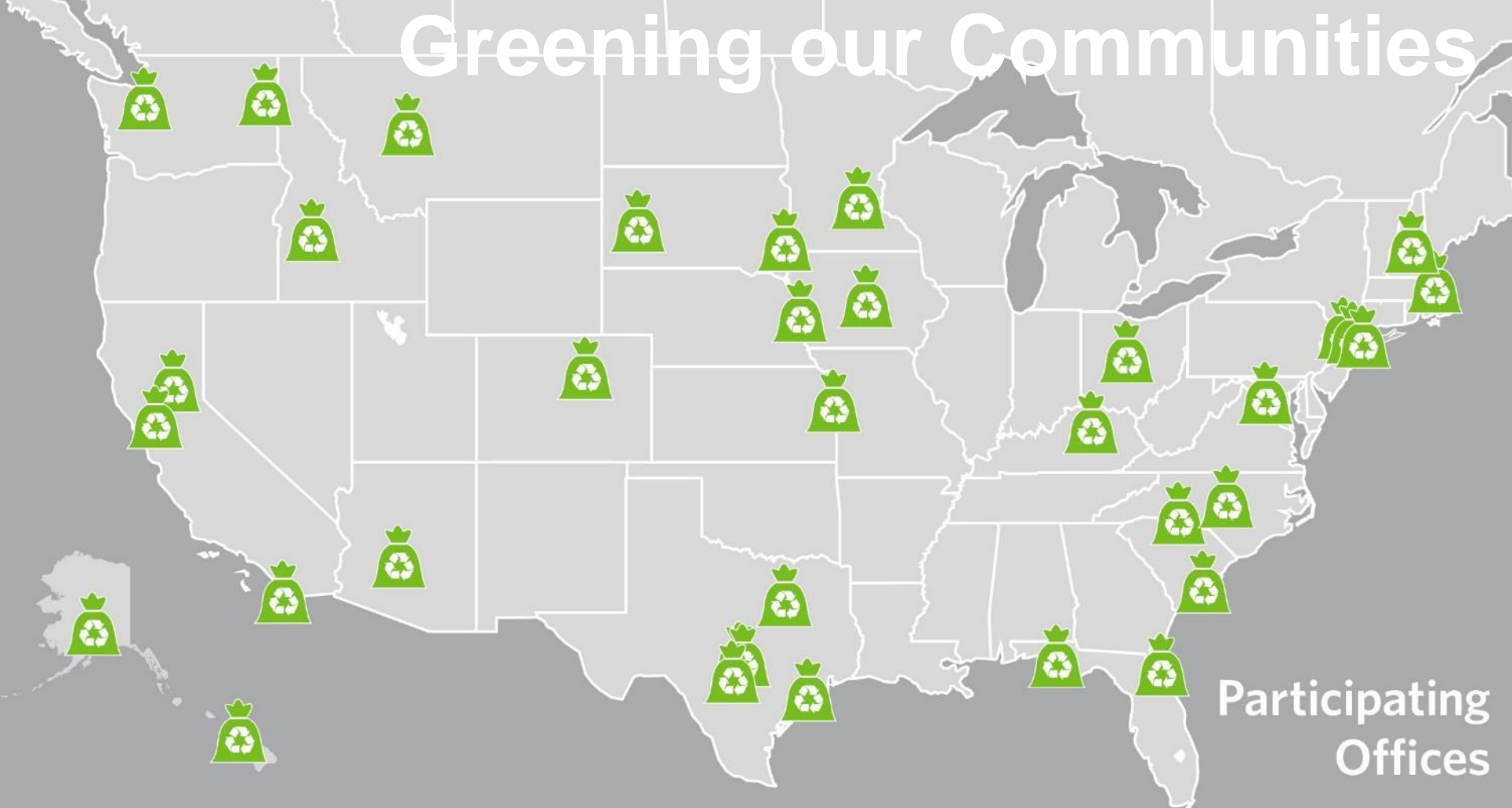


Celebrating
100 Years

#hdr100

**Greening our
Communities**

Greening our Communities



Participating
Offices

EVENTS

Roadway/trail
clean-up



Community Garden



Tree planting



Rebuilding project



Waterway clean-up

Park/forest/
community clean-up



offices

more than

1,000



service hours





Denver, CO



Anchorage, AK



Houston, TX



Des Moines, IA



Mahwah, NJ



Jacksonville, FL



Houston, TX



Seattle, WA



Mahwah, NJ



Manhattan, NY, NY



Arlington, VA



Los Angeles, CA



San Jose, CA



Austin, TX - Downtown



Englewood, CO



San Diego, CA



Denver, CO



San Jose, CA

A close-up photograph of a golfer's hands in white leather gloves. The left hand holds a silver golf club head, and the right hand holds a white golf ball on a tee. The background is a blurred green golf course.

60

+

*

Green Teams

help drive our internal efforts



12 Years of
Green
Teams

4th Annual Green Team Awards

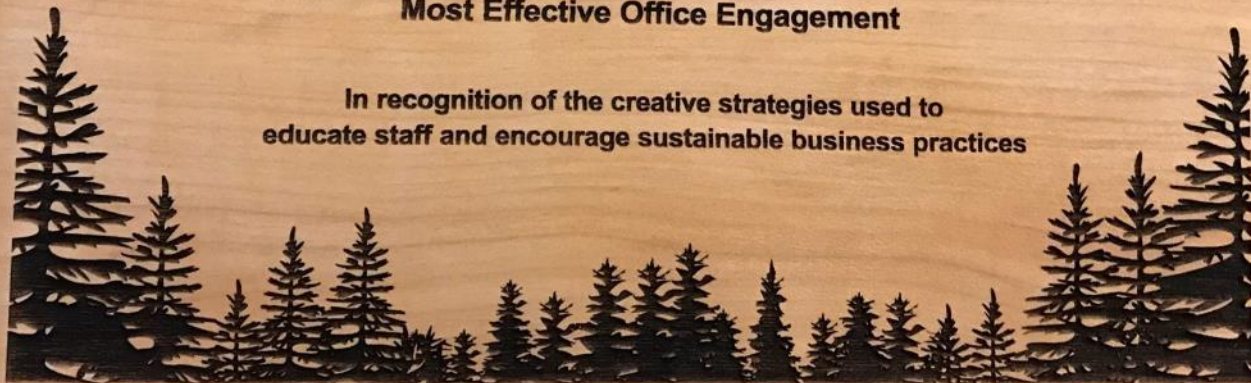


2017 Green Team Innovation Award

Omaha, NE

Most Effective Office Engagement

In recognition of the creative strategies used to
educate staff and encourage sustainable business practices



**Recognized for
Leadership in
Sustainable
Business
Practices**





Alliance for Workplace Excellence

- EcoLeadership Award
- Workplace Excellence Seal of Approval
- Health & Wellness Seal of Approval



Achieved Silver level of achievement with the American Public Transportation Association's (APTA) Sustainability Commitment



CDPTM

**ACCREDITED
PROVIDER
2018**

HDR became an Accredited Service Provider for CDP.

A person wearing a white t-shirt is shown from the chest down, holding a glowing green globe of the Earth with both hands. The globe is semi-transparent and shows the continents in a lighter green. The person's hands are positioned as if they are carefully holding the globe. The background is a plain, light-colored wall. A vertical blue bar is visible on the right edge of the image.

03

**Applying what we have
learned and researched
to the work we do with
our agency partners**

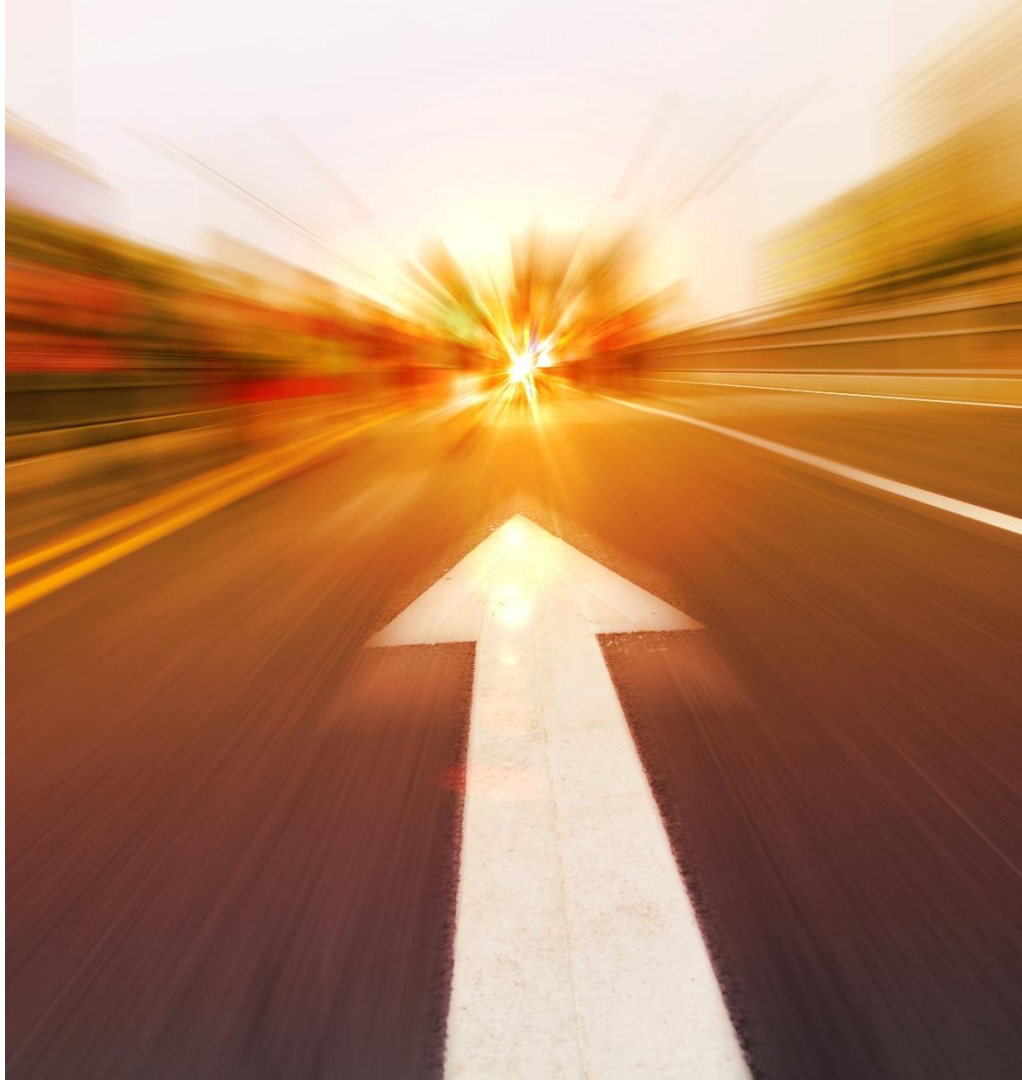
Sustainability Applied to Public Transportation

- Publicly-documented sustainability goals
- Sustainability mandates or regulations
- Working with a Sustainability / Resiliency Director or Officer?
- Annual agency reporting (i.e., Corporate Sustainability Report)
- Strategic partnerships
 - 100 Resilient Cities
 - Smart Cities Challenge
 - Compact of Mayors
 - City/Regional initiatives
 - Third-party rating systems, etc.



Thinking Sustainably Benefits your Agency

- Social equity – mobility for all, impact of transport on improving community welfare
- Health and wellness impacts
- Risk and resiliency – asset management, risk mitigation
- Value add – cost benefit, prioritization, monetization of benefits
- Mobility solutions – active transportation, context-sensitive solutions, sourcing, etc.
- Transparency – tell your story



Sustainability – Scaled

■ Community

- Community planning / Land use impacts
- Green infrastructure / low impact development
- Active transportation

■ Agency-wide

- On-demand performance dashboards
- Internal/external communication messaging

■ Planning, design and construction

- Design guidelines, best practices

■ Capital project implementation

- Sustainable Value Analysis
- Return on investment
- Prioritization
- Cost-benefit – monetization, qualification



10 Principles of Sustainable Value Analysis



Consider all Economic, Social and Environmental Outcomes



Communicate all Results Clearly and Effectively



Express as Many Outcomes as Possible in Monetary Terms



Involve Stakeholders and Subject Matter Experts



Evaluate dynamic feedback of investments



Use Sustainability (or Measurement) Frameworks Tailored to Clients Needs



Assess impact on wellness, if applicable



Consider the Distribution of Benefits and Costs



Account for Risks and Uncertainty



Conduct Transparency Analysis



04 Success Stories

136 LEED Certified Projects



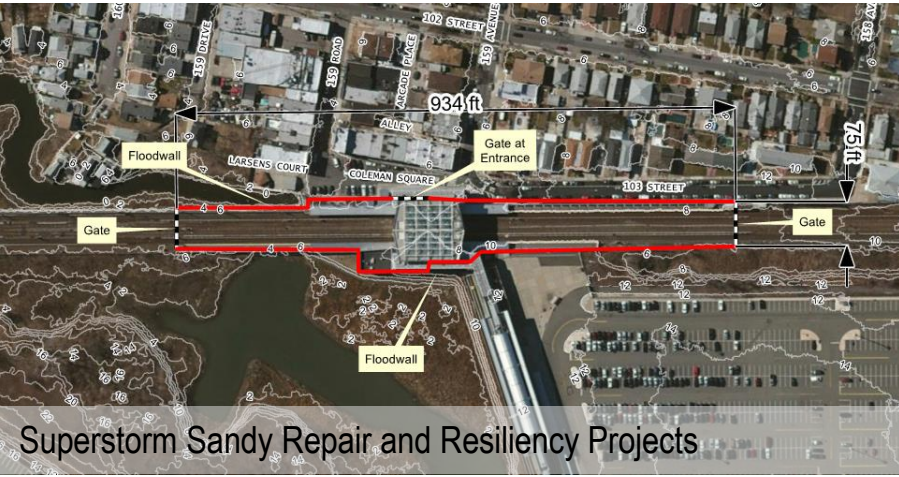
HDR's Arlington, Virginia, Office (LEED Platinum)

**We have documented the most
Envision-verified projects.**



Holland Energy Park, Holland, MI (Platinum)

Regional/Community Scale



Superstorm Sandy Repair and Resiliency Projects



NYC Building-Based GHG Emissions Reduction Targets Study



Sustainable Chicago



Corpus Christi, TX – Energy Efficiency/ Conservation Strategy and Sustainability Plan

Organization-wide



DC – District Sustainability Plan Update



Dallas Area Rapid Transit



Charlotte Douglas International Airport – Comprehensive Sustainability Plan



Applied INVEST

Minnesota Department of Transportation, Sustainable Highways INVEST Evaluation

Project Applications

Durham-Orange Light Rail Transit Project

Durham, NC



Applying LEED and Envision

Project Applications

Carolina Crossroads

Columbia, SC



16 FT 11 IN

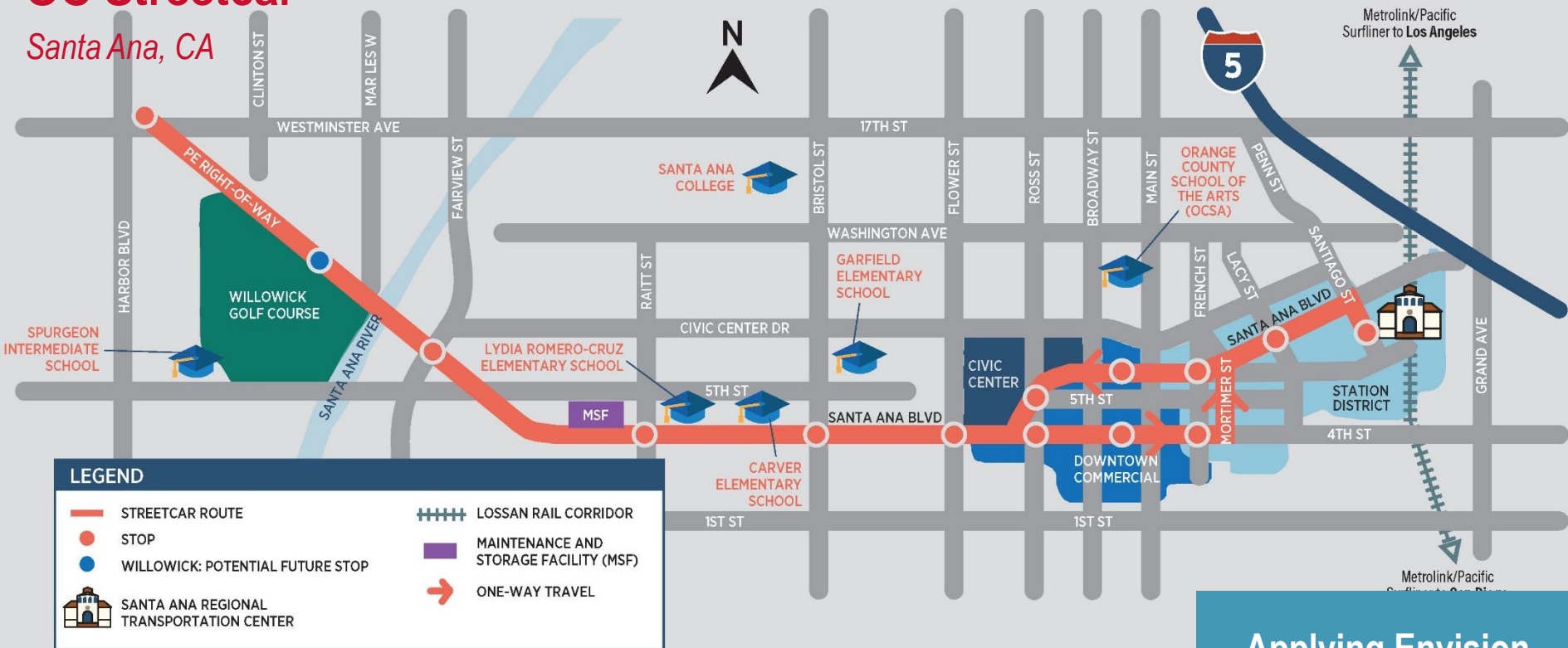


Applying Envision and INVEST

Project Applications

OC Streetcar

Santa Ana, CA



Applying Envision

Project Applications

Wave Streetcar *Fort Lauderdale, FL*

Applying LEED and studied Envision



Project Applications

Kansas City Streetcar
Kansas City, MO

**LEED Certified – Gold
(Maintenance Facility) and
Envision Verified – Platinum**



Project Applications

West Dowling Road

Anchorage, AK



Greenroads Pilot Project (Certified)

Project Applications

I-4 Ultimate Project

Orlando, FL

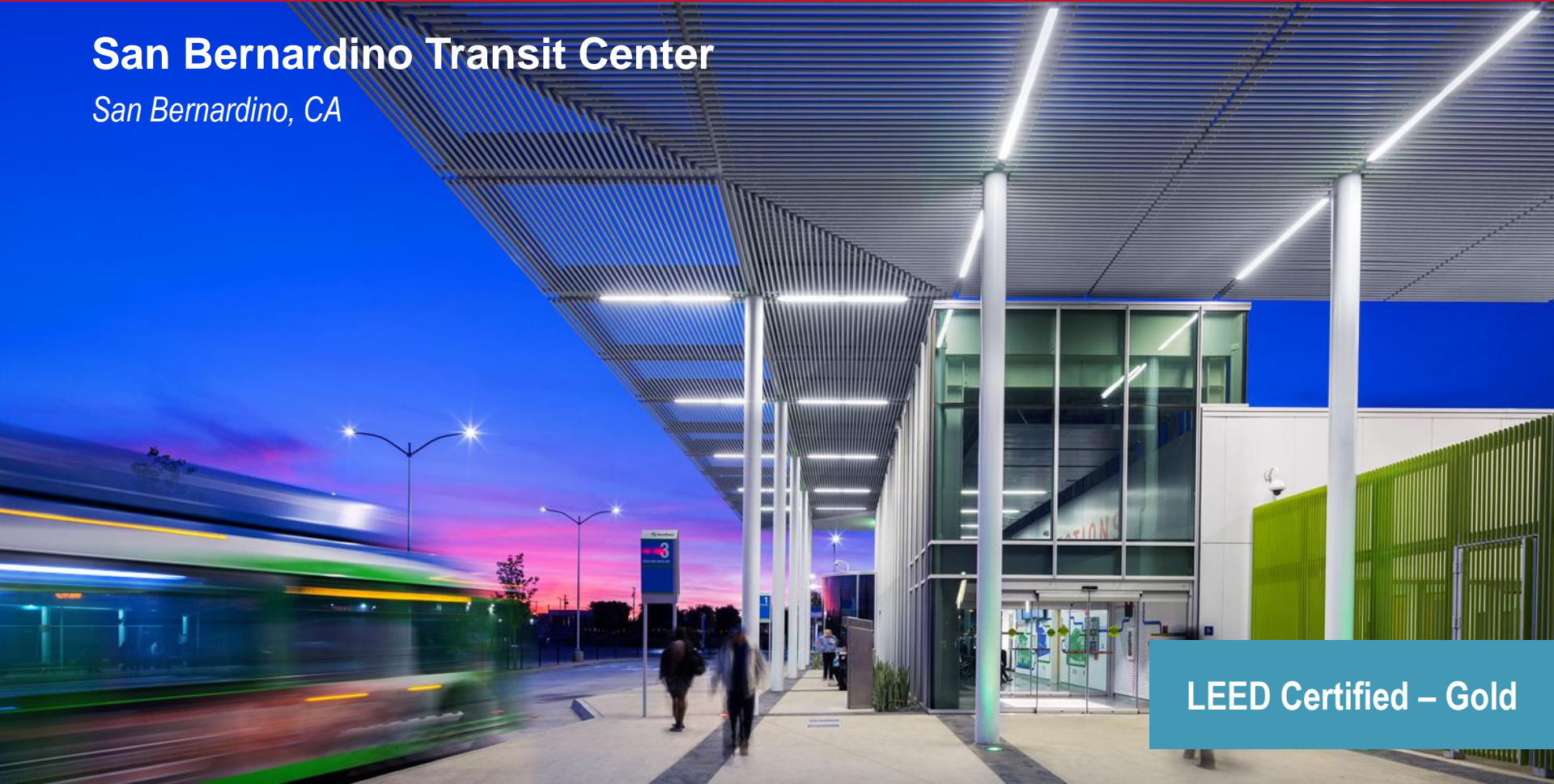


Envision Verified – Platinum

Project Applications

San Bernardino Transit Center

San Bernardino, CA



LEED Certified – Gold

Project Awards 2017

The image features a blurred city skyline at night with various colored lights (yellow, white, red, blue, green) creating a bokeh effect. A solid teal vertical bar is positioned on the right side of the image.



**Green Commercial Building of the Year,
MENA Green Building Awards,
Emirates Green Building Council**

Cleveland Clinic, Abu Dhabi, UAE



Region 9 Phoenix Award, Phoenix Awards Program

*Defense Distribution Depot, San Joaquin–Tracy Site,
San Joaquin County, CA, USA*

The Phoenix
Award is
recognized as
the premier
award of
excellence in
brownfield
redevelopment
& revitalization

Green Project Award for Innovation and Achievement in Sustainability, Northwest Construction Consumer Council

Factoria Recycling and Transfer Station, Bellevue, WA, USA



Innovation in LEED Awards, Winner, New Construction Core & Shell, Canada Green Building Council, Greater Toronto Chapter

Humber River Hospital, Toronto, Ontario, Canada



Environmental Excellence Award for Context Sensitive Solutions, Environmental Excellence Awards, FHWA

I-70 Eastbound Peak Period Shoulder Lane, Clear Creek County, CO, USA



Sustainable Transportation Award, Excellence in Sustainability Awards, APA (Sustainable Communities Division)

Kansas City Streetcar, Kansas City, MO, USA



Innovation in Sustainable Engineering Award, ASCE

Kansas City Streetcar, Kansas City, MO, USA



Project of the Year, Transportation Category, American Public Works Association, KC Metro Chapter

Kansas City Streetcar, Kansas City, MO, USA





TORONTO

**Gold Award, Excellence Awards, Solid
Waste Association of North America**

Long-Term Solid Waste Management Plan, Toronto, Ontario, Canada



Platinum Award, Engineering Excellence Awards, ACEC New York

*NYC Building-Based Greenhouse Gas Emissions Reduction Targets Study,
New York City, NY, USA*

Merit Award, Engineering Excellence Awards, ACEC California

San Bernardino Transit Center, San Bernardino, CA, USA



Sustainability Awards, Winner, Public Category, Indesign Media

Sunshine Coast University Hospital, Kawana, Queensland, Australia



Net Zero Efforts



Ft. Carson Combat Aviation Brigade Barracks: Net Zero goal, achieved 98%



Jim Pattison Centre of Excellence: Net Zero goal, achieved 98%



Carbon-Neutral Energy Solutions (CES) Laboratory: LEED Platinum Certified





Developing and Growing Programs for an Organization

APTA - Rail

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HDR