



ELECTRIFYING COMPANIES & COMMUNITY ASSETS



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# Introduction to Workplace Charging

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September 28, 2020

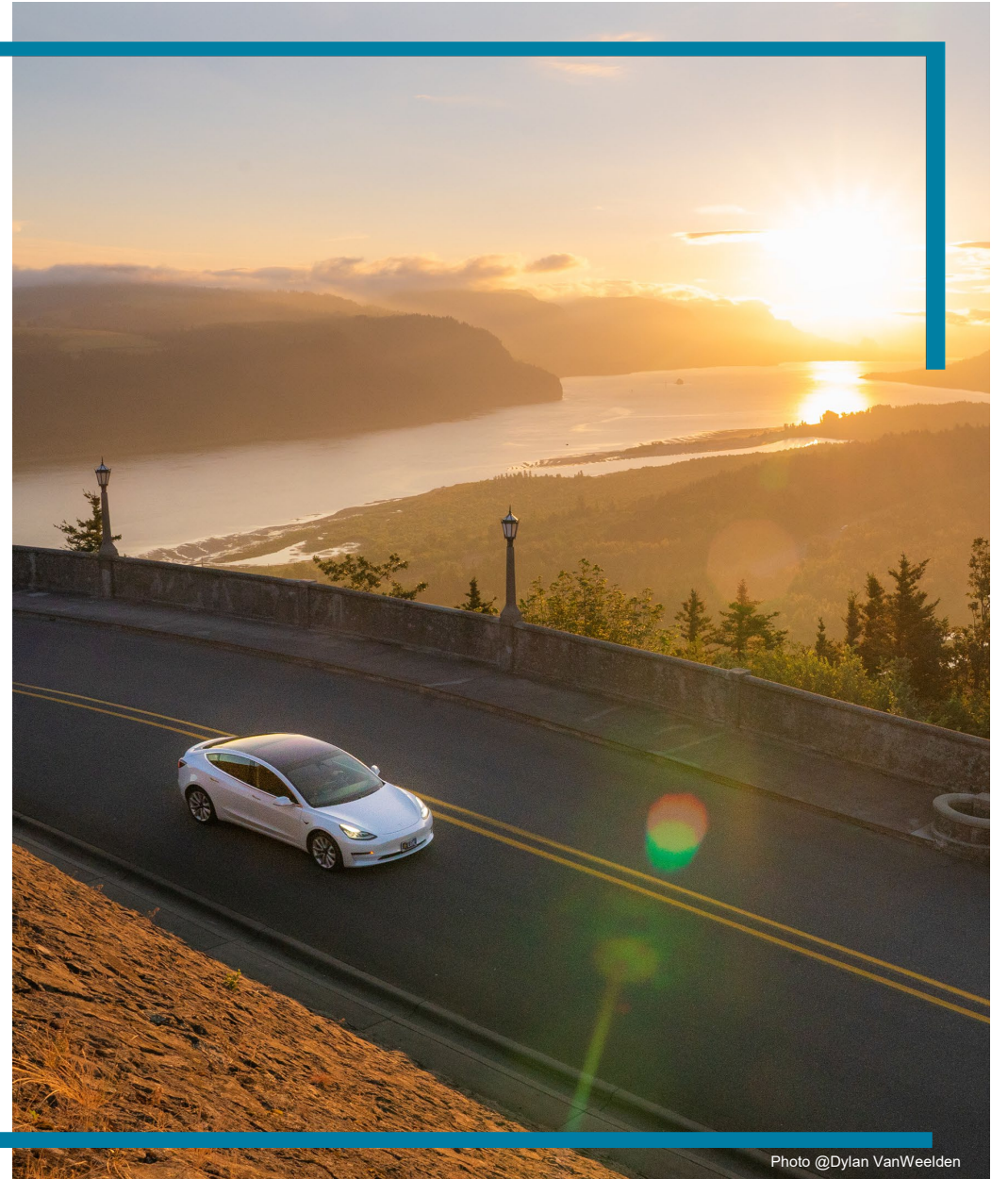


Photo @Dylan VanWeelden

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# Forth Is Changing the Way We Get Around

## We are active in Four Main Areas

**Strengthening the Industry Network** - We bring together businesses, utilities and communities to support growth, create living-wage jobs and strengthen our economy.

**Advancing Transportation Policy** - We advocate for smart laws and policies that strengthen emerging mobility solutions and ensure cutting-edge technologies benefit us all.

**Demonstrating Smart Transportation** - We bring partners together to demonstrate new technologies in real-world projects that help improve our lives and expand mobility options.

**Accelerating Market Adoption** - We organize events and test drives to showcase the latest technologies and bring the fun, efficiency and money-saving benefits of electric and smart transportation to the public.

# Why Install Workplace Charging?

**Demonstrates** a commitment to sustainability and the environment and is a critical component of a strategy to lower your region's greenhouse gas emissions

**Attracts and retains** sustainability-minded employees and customers

**Motivates** employees to purchase or lease EVs themselves through greater awareness and access to charging infrastructure

**Supports** fleet transitions by providing access to charging for fleet vehicles

**52%**

Of employees believe their employers should be doing more for the environment

**6x**

Employees with workplace charging are 6 times more likely to drive an electric vehicle

**54m**

Vehicles on the road will be electric by 2040

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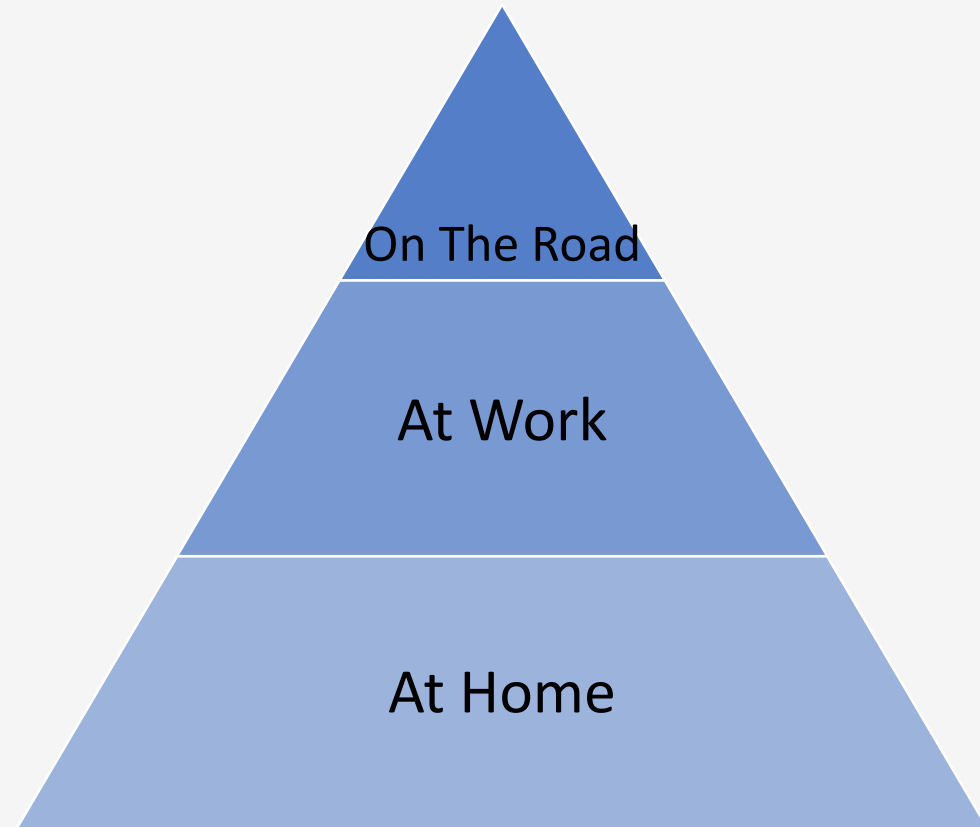
# Workplace Charging is Valuable to Employees

**Workplaces are the second most likely location for EV owners to charge**

*Build 'range confidence' by ensuring access to 2 or 3+ chargers*

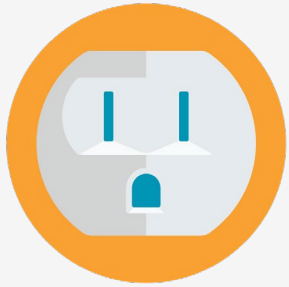
*Increase the number of electric vehicle miles traveled*

*Provides a low-cost employee benefit*



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# Types of Electric Vehicle Charging



## **Level 1 (120V AC):**

3-5 miles of charge added per hour; great for Plug-in Hybrids and short commutes



## **Level 2 (240V AC):**

20-40 miles of charge added per hour; better suited for BEVs with longer commutes



## **DC Fast (480V AC):**

80% charge in 20-40 minutes; perfect for road trips and high-mileage drivers



## **Electric Vehicle Supply Equipment (EVSE)**

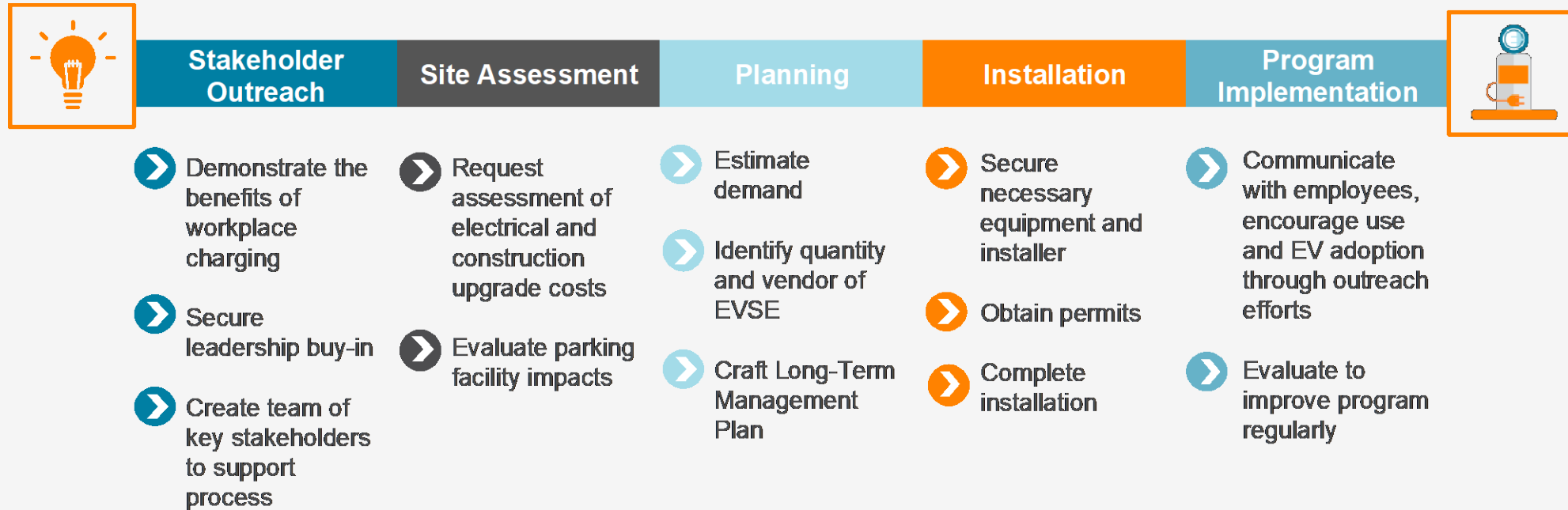
Or EV charging stations

# Why Now?

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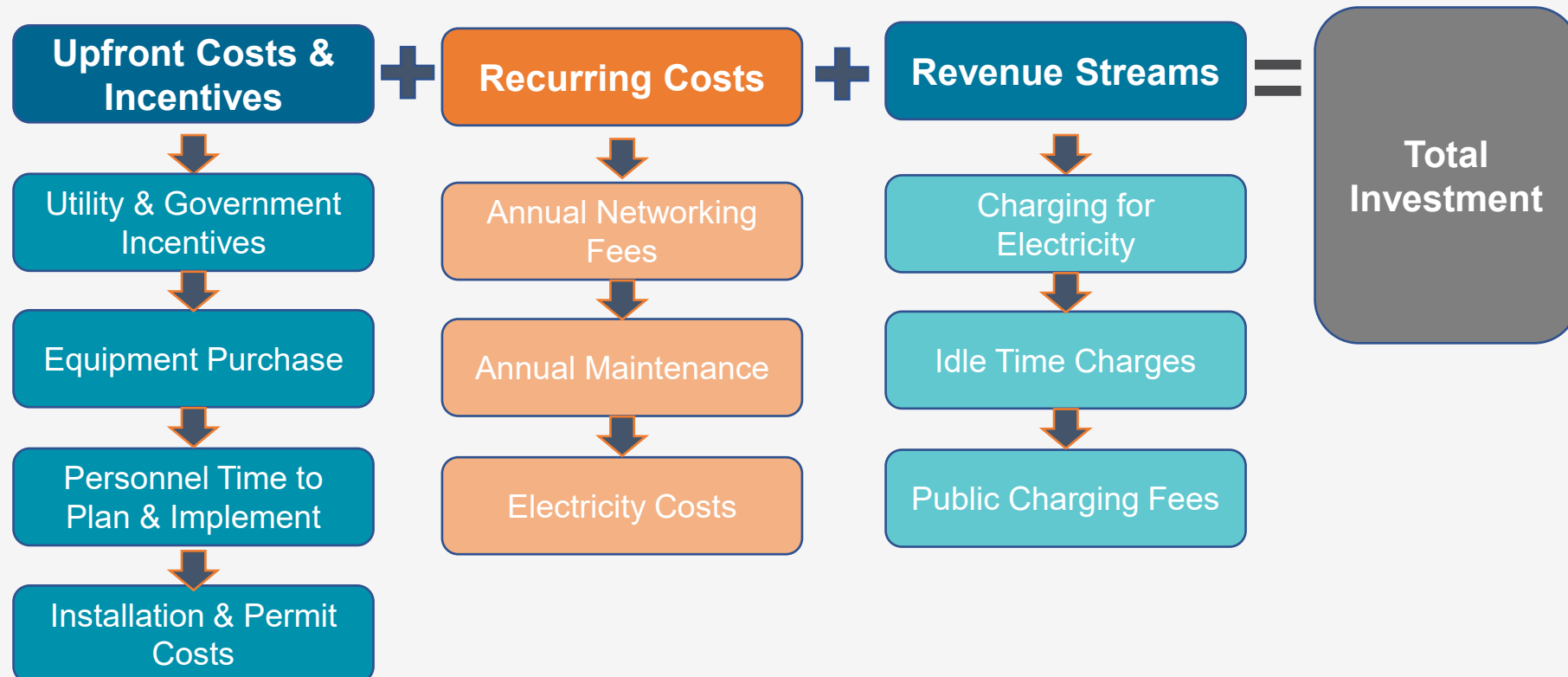
# Program Roadmap



# Estimating Total Investment In Implementing Workplace Charging

*Actual figures can be provided by EVSE vendors and other potential contractors.*

*Check with your local utility or municipality for potential incentives.*



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# Selecting Charging Stations

## Networked vs. Nonnetworked & Should I Charge to Charge?

- Networked chargers are connected to the internet through wi-fi or cellular connection and can be managed by local facilities or a third party entity.
  - Allows for paid charging, idle fees, access restrictions
  - Higher upfront and ongoing costs
- Non-networked chargers lack the additional monitoring and management functionality.
  - Lowest cost option upfront
  - Simple to use
  - Annual electricity costs are minimal, around \$400/year
- Consider **why** you're doing now while also considering **future demand**

Interested in  
learning  
more?

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Check out Forth's  
Workplace Charging  
Toolkit

Intro

Purpos

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## Workplace Charging Toolkit

Developed for the City of Indianapolis, IN  
with Bloomberg American Cities Climate  
Challenge

Kelly Yearick, Program Manager  
August 2020



• [Appendix](#)

# Questions?

Kelly Yearick

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Photo @Dylan VanWeelden

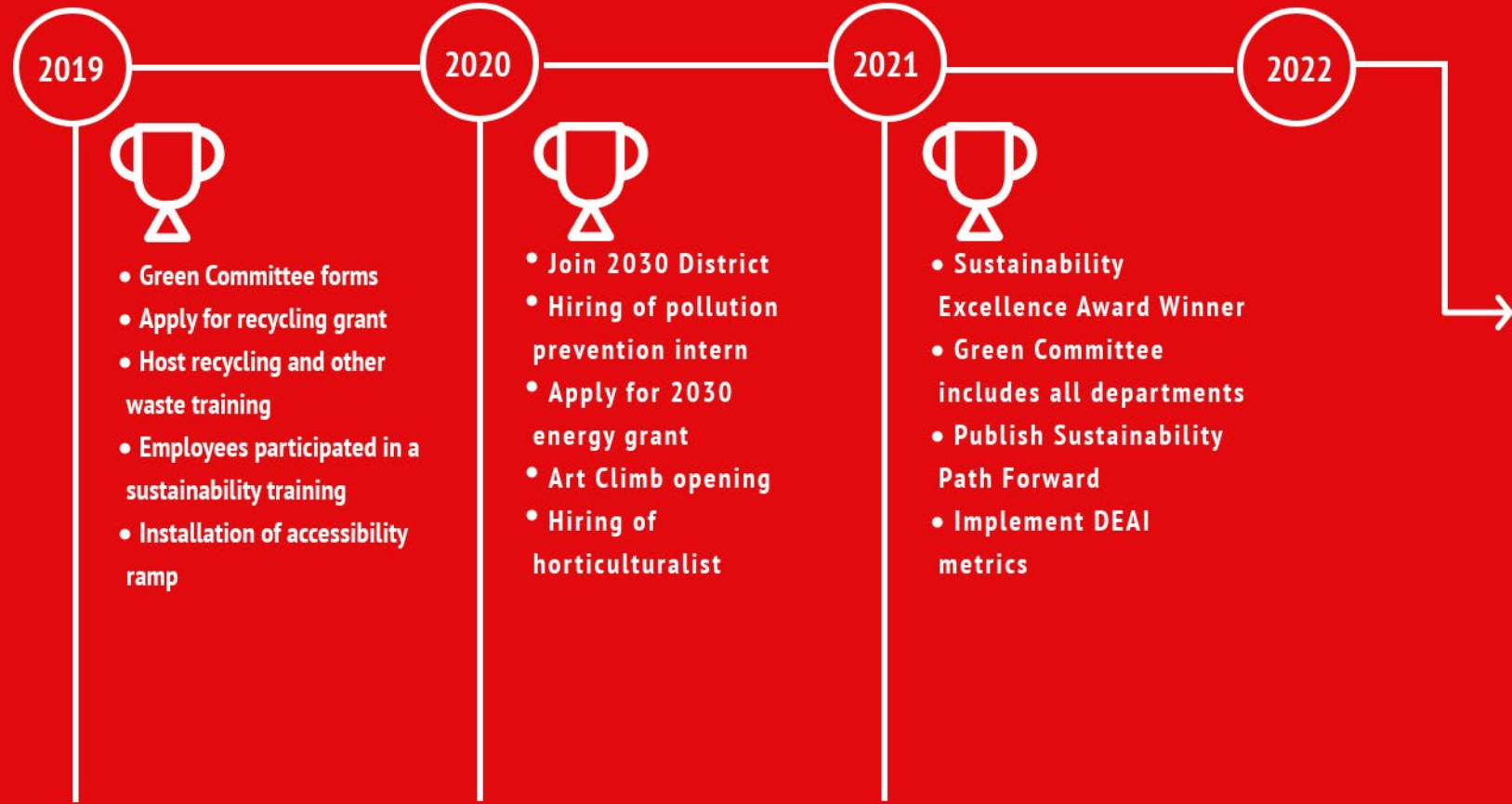
# The Cincinnati Art Museum

**Mission:** Through the power of art, we contribute to a more vibrant Cincinnati by inspiring its people and connecting our communities

**Art:** The Cincinnati Art Museum features a diverse, encyclopedic art collection of more than 67,000 works spanning 6,000 years.

**Building:** Located in Eden Park, the original building was constructed in 1886. With several additions and a warehouse, the museum comprises 297,880 ft<sup>2</sup>.

## CAM Sustainability Timeline



# In-Progress

- 2030 grant proposal submission
- Utility tracking to continue benchmarking and identifying areas for improvement
- Horticulturalist hired to better connect facilities and operations to sustainability
- EV charging station installation to promote electric vehicles

# Grounds Activation and Front Lot Rebuild





**What currently looks like this...**



**...will eventually get us here.**





**Questions?**