Accelerating Public Charging
Project Outline
Project Overview: Accelerating Public Charging

**Project Description:** Hesitancy is two-fold – carriers lack the assurance that they can find adequate public charging, and charge point operators lack the utilization required for investments to make financial sense. The CHALET tool aligns expected electric truck flows with adequate infrastructure build-out enabling optimization via bottom-up approach. The APC project, spanning the year of 2024, will produce deployment priorities for battery electric truck (BET) charging infrastructure.

**Project Objectives:** The objectives for this project are to determine where charging infrastructure should be located to support as many BET deployments as possible. Along the way, this project will support real-world corridor implementations and discover other actionable insights.

**Project Deliverables:** The project deliverables (outlined in the “milestones” pane), will include a proof-of-concept presentation, diverse corridor profiling process, charging deployment locations based on a specific corridor, and engagement with public authorities, charge point operators, utility providers and fleet owners to stimulate BET adoption.

**Project Team**
- Smart Freight Center

**Key Stakeholders:**
- Shippers
- LSPs
- Carriers
- Charge Point Operators

**Milestones**
- 2024-02: Launch of CHALET Effort
- 2024-05: Proof of concept presented
- 2024-05: Corridor Selection
- 2024-06: Expression(s) of interest finalized
- 2024-09: Data Collection Finalized
- 2024-11: CHALET Results
Proof of Concept
From February to May 2024

- An opportunity to fine-tune scope and tool
  - Small sample size
  - Flexible geographic scope
  - Pilot stage provides space to adjust assumptions as necessary

- Culmination in a demonstration of feasibility to be publicly shared

- In parallel, recruitment efforts launched for corridor profiles
Corridor Profiles
From March to June 2024

• FEC will gather information from all geographies to assess opportunities

• Corridor profiles for a sense of electrification readiness to guide tailored support.

• Corridor Profiles will include CHALET assumptions and operational patterns
  • Vehicle technology and specifications
  • Their electrification priorities and goals
  • And more
Data Collection
From June to August 2024

- A detailed data collection process will provide the basis for CHALET

- Requests for data will be sent to participating companies including
  - Origin – destination pairs
  - Candidate locations
  - Vehicle specifications
  - Transit times
  - Directionality of flows

- This data will be handled with the SFC Clean Team policy
Clean Team

- **Smart Freight Center’s Clean Team**
  - Plays a pivotal role in receiving, storing, categorizing, aggregating and analyzing information of a confidential nature
  - Using the Clean Team setup will help ensure that confidentiality is respected, and antitrust issues are addressed to mitigate negative legal exposure
  - Confidential information is visible only to SFC team representatives, who will be under NDAs
  - SFC maintains a list of people with Clean Team access, available for participating companies to view at any time

### SFC Clean Team Setup

- Participating companies
- NDA
- Clean Team
- NDA
- Clean Team members
• FEC will implement CHALET tool on a corridor

• Outcomes of the tool
  • A detailed map of infrastructure locations based on participants’ aggregated data
  • CPO engagement and utilization
  • Learnings highlighted by the profiling and optimization process

• This approach frames CHALET as the basis for pilot projects, MW Charge maps and more
Call To Action

The Ideal Candidate is…

- Eager to electrify
- Carrier/shipper/LSP with road fleet
- Access to input data
- EU-based operations
- No minimum for routes, revenue, or readiness
Project Overview

Data Collection

Aggregation via CHALET

Proof of Concept Complete

Proof-of-Concept Q1 / Q2 2024

Corridor Profiles

Expression of Interest + Selection

Data Collection

CHALET Application

Results + Dissemination

Project Steps throughout 2024
Uniting corporate freight buyers to shift towards zero-emissions freight across all modes of transport in collaboration with their supply chains and partners.

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