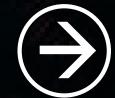


# CODE VEDA HACKATHON

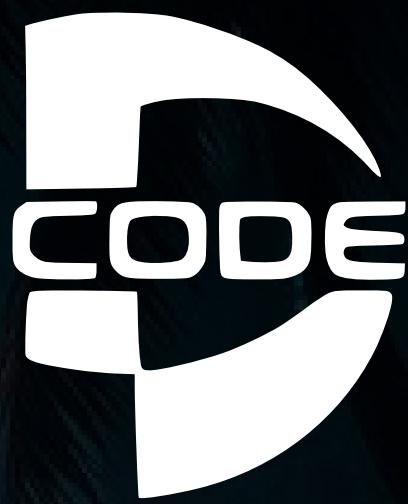
THEME :- SUSTAINABLE  
DEVELOPMENT

TEAM NAME :- CODEPHOENIX





# PROBLEM STATEMENT



"If we mishandle it, regulators can hit us with heavy penalties."

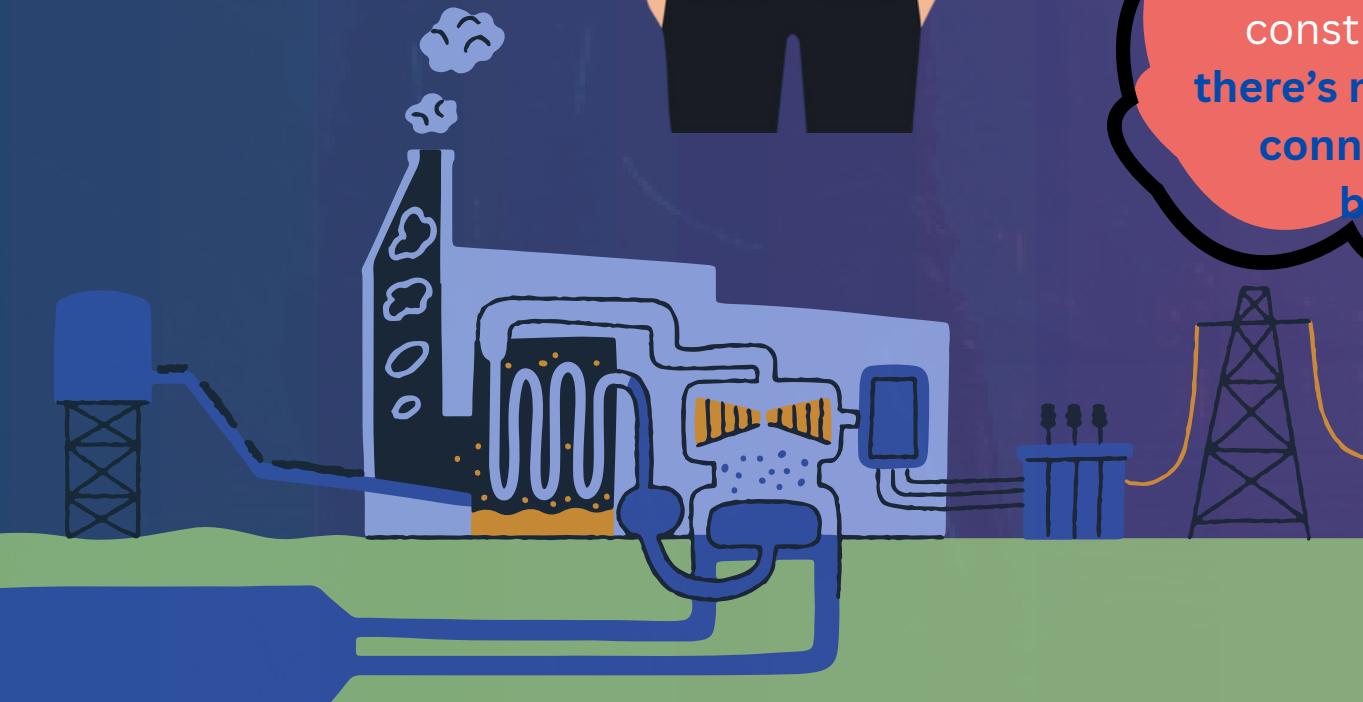
**Power Plant Owner**

*My Problem*

**2**

We've got mountains of fly ash, and when disposing of, it costs **\$8-\$15** a ton. With millions **1** of tons each year, it's a huge expense.

"The frustrating part? Fly ash is perfect for construction, but **there's no easy way to connect us with buyers.**"



"On top of that, carbon taxes are **2** increasing the cost of conventional building materials."

*My Problem*

**2**



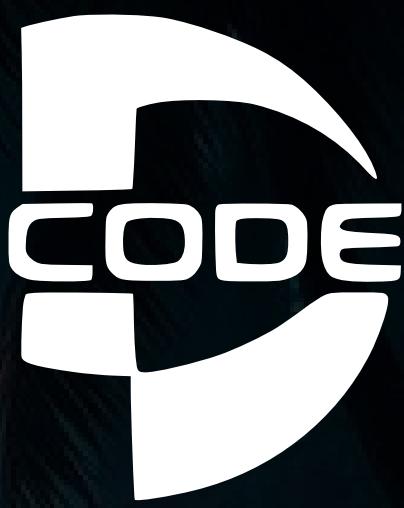
**Raju  
Bricks**

"Fly ash could be a perfect solution for bricks, cement, and concrete—but **there's no reliable way to source it from power plants.**"

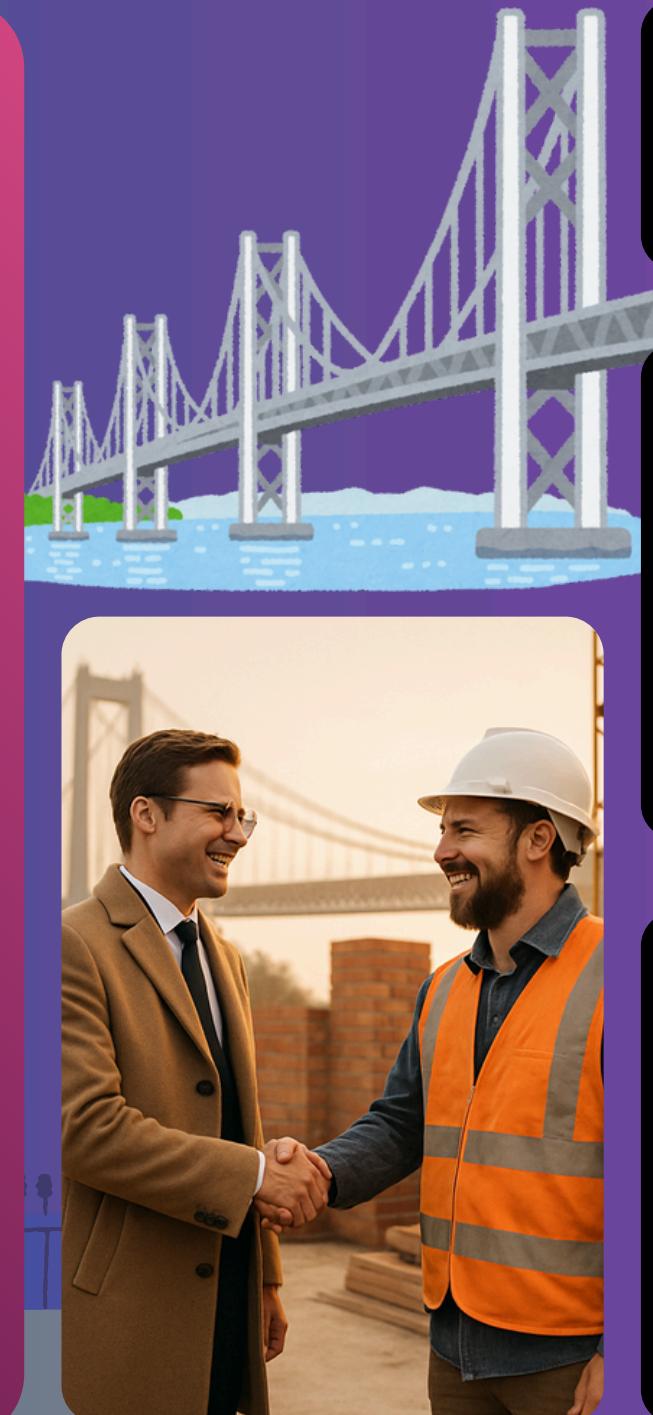
**1** "Material costs are skyrocketing—sometimes up by 40%—making every project more expensive."



# SOLUTION



- **Core Idea:** A B2B SaaS platform that provides a geospatial marketplace to match fly ash supply with construction demand.
- **How it Works:** The platform creates a win-win scenario. Power plants get a new revenue stream from a waste product, and builders get a cheaper, eco-friendly material for their projects.



**Discover the Four Integrated Modules of AshBrick:  
Transforming Waste into Value**

**Supply Intelligence:**  
Mapping and forecasting fly ash from power plants.

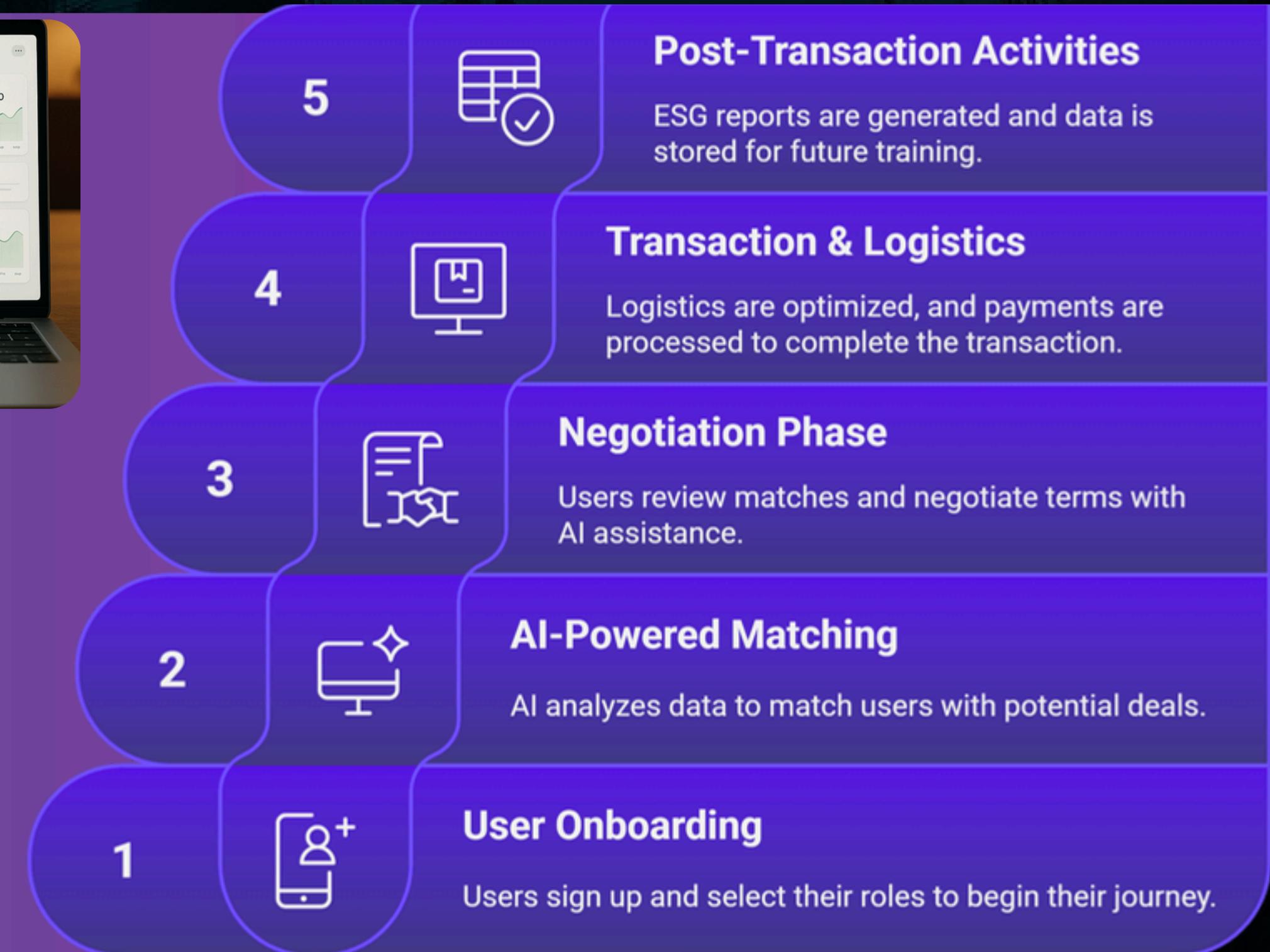
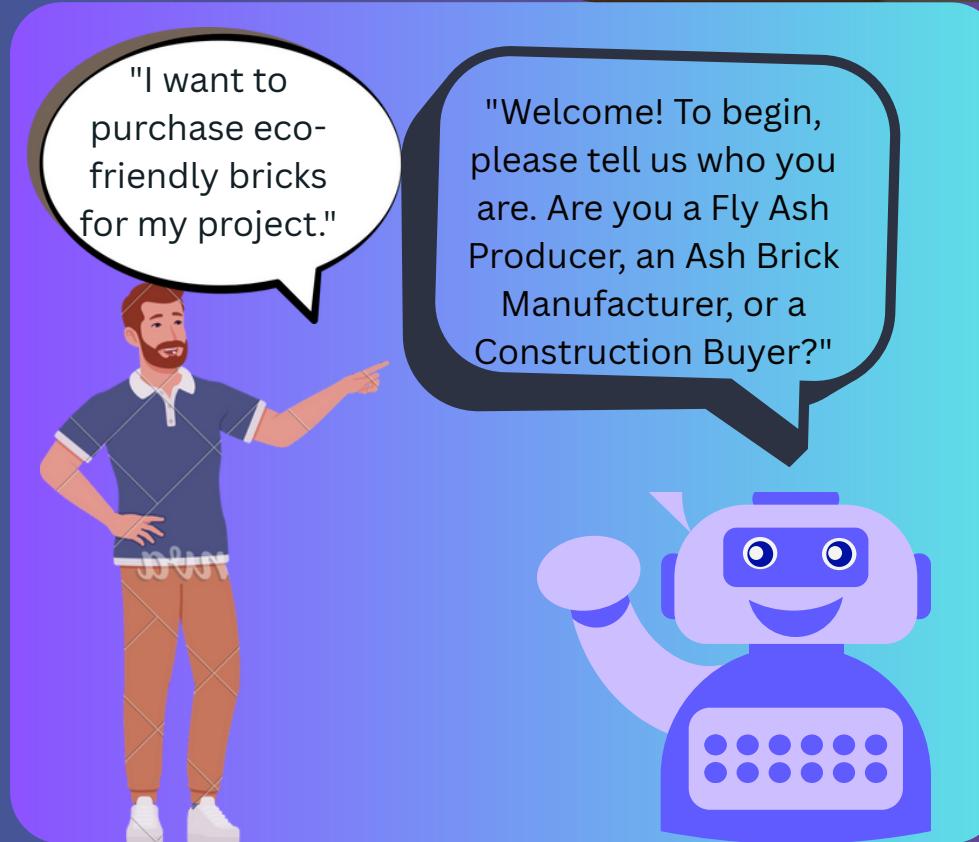
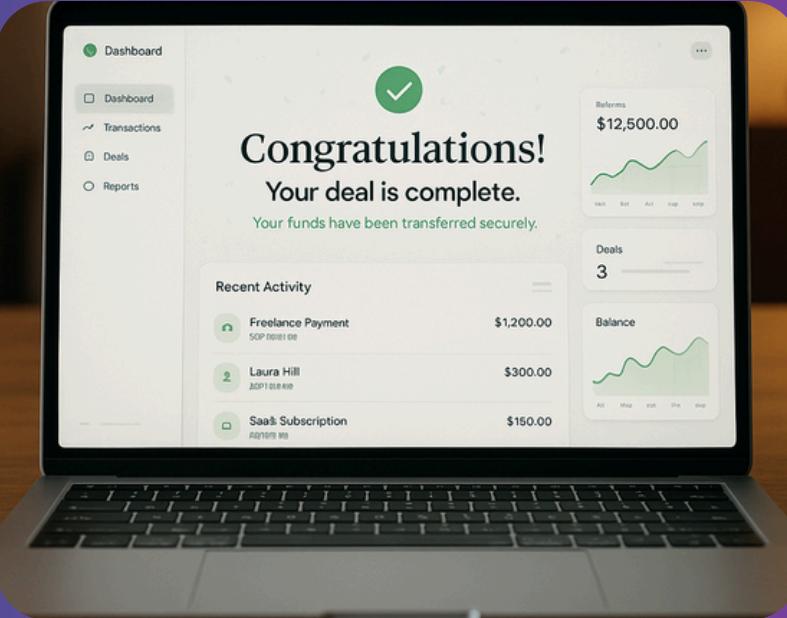
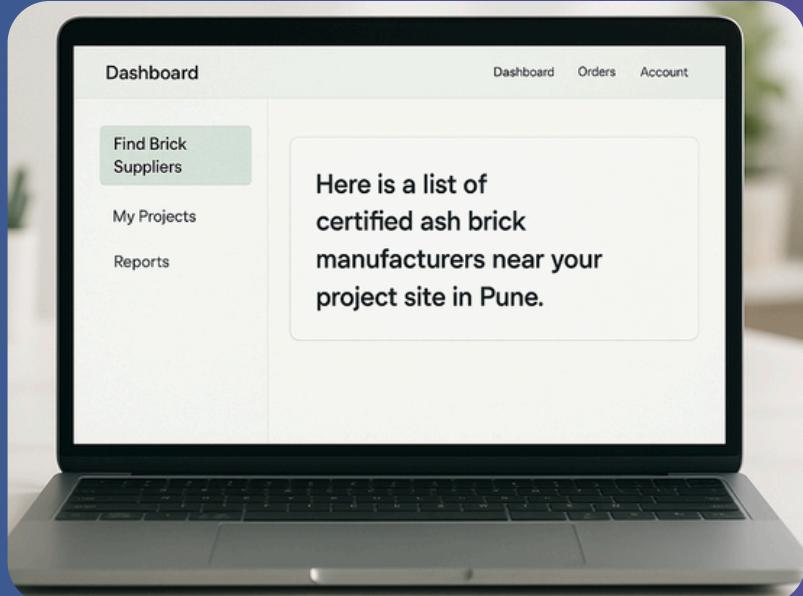
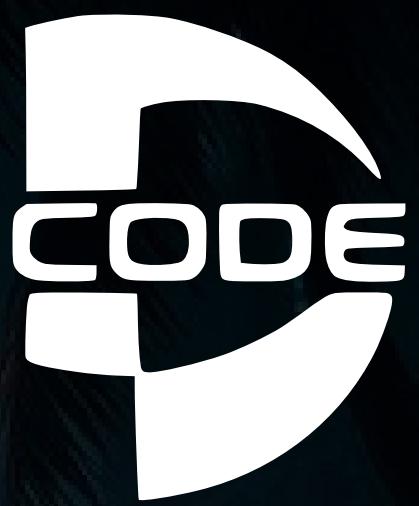
**Impact Tracking:**  
Automated ESG reporting and showcasing environmental savings.

**Logistics Hub:** Handling transactions seamlessly from quotes to payments.

**Demand Matching:**  
Connecting suppliers to brick manufacturers and construction companies.

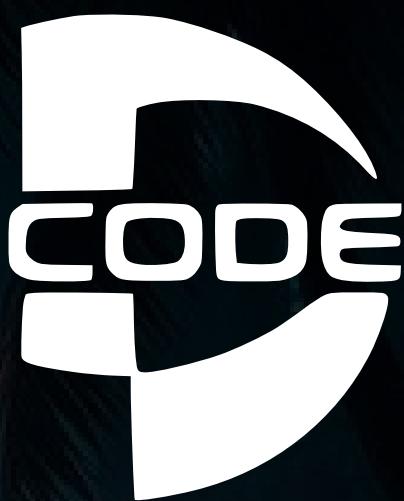


# ARCHITECTURE



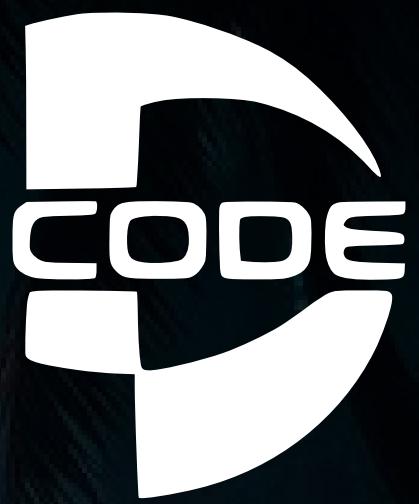


# TECHNOLOGY USED



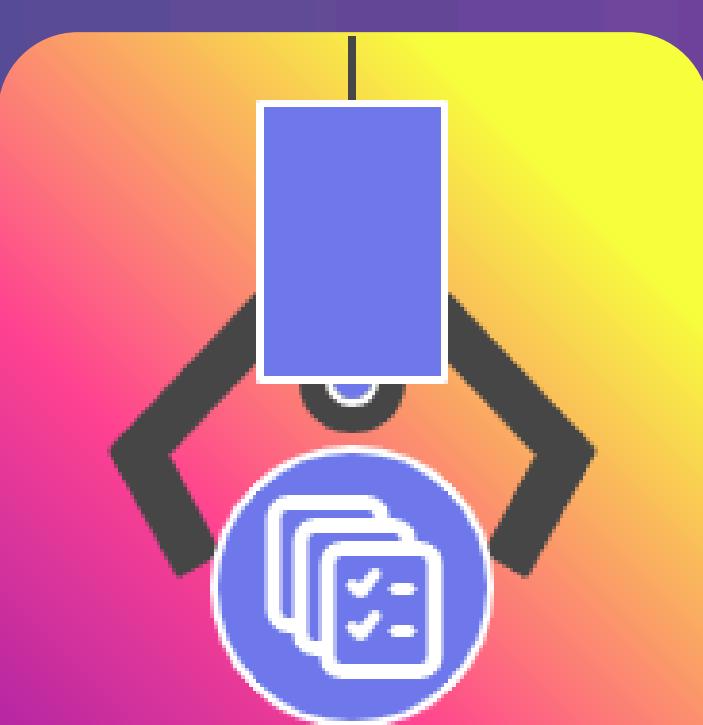


# FEATURE/USP



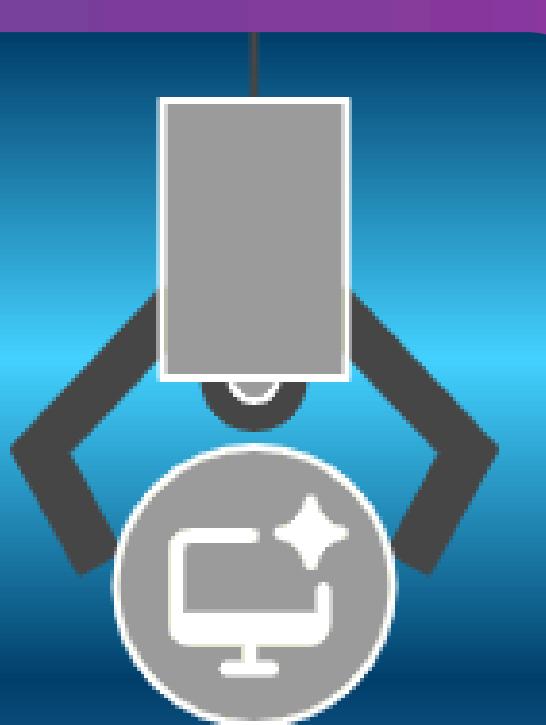
## Dual-Sided Value

Solves waste disposal problems while providing sustainable raw material.



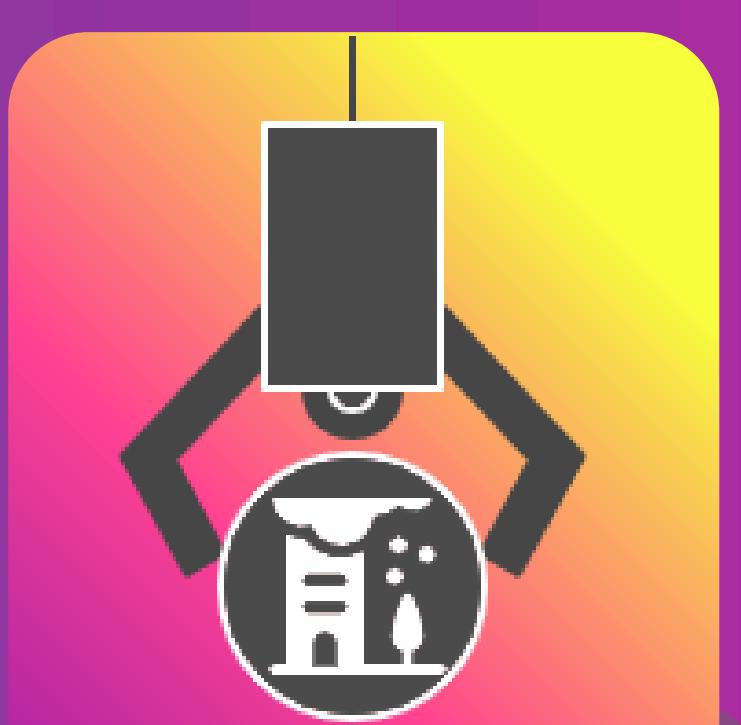
## Automated Compliance

Provides instant ESG reports and carbon credit documentation.



## AI-Driven Efficiency

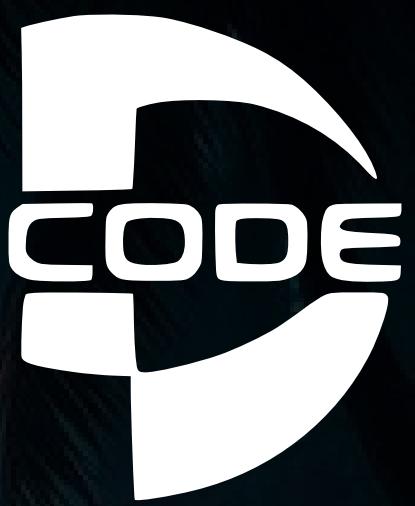
Uses AI and ML to optimize the entire process.



## Sustainable Development

Contributes to Smart Cities by promoting resource management.





**THANK YOU!**

