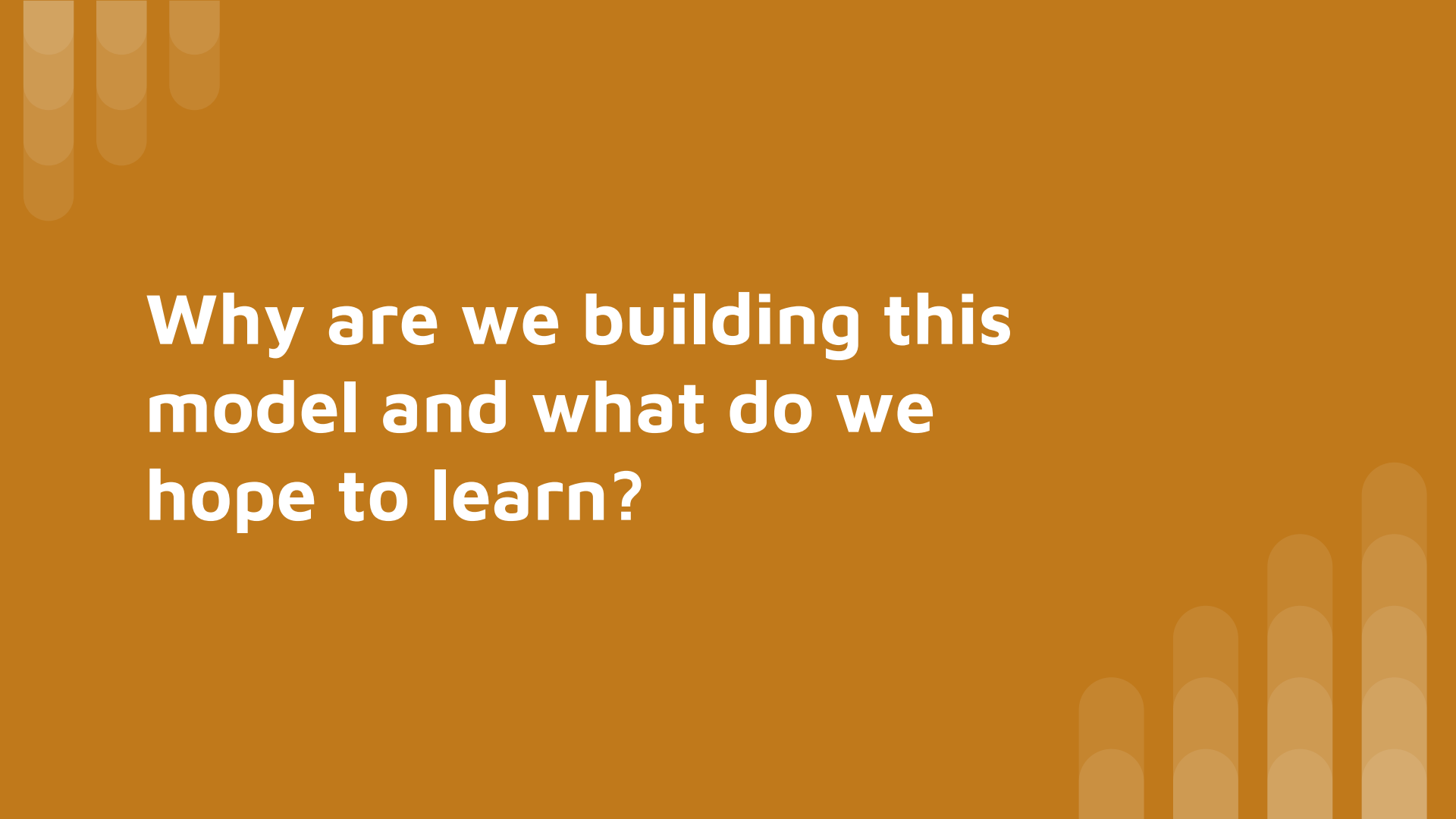


# Driverless Vehicles.

Effects on Traffic Flow & Accident Rates.

Alex Molodyh  
Michael Brown

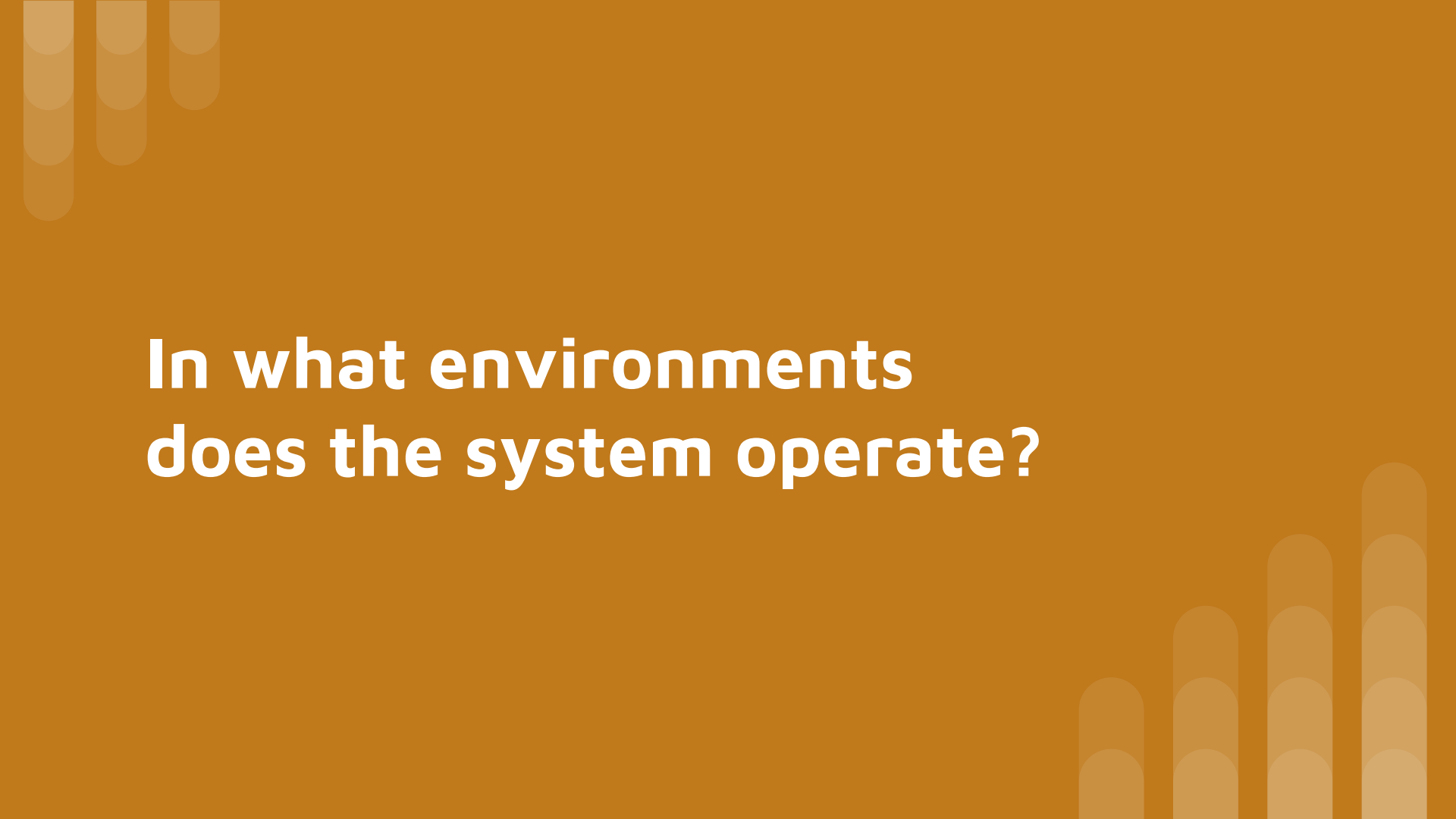
The background is a solid orange color. In the top-left corner, there are three vertical bars of varying heights, each composed of three overlapping circles. In the bottom-right corner, there are four vertical bars of varying heights, each composed of four overlapping circles.

**Why are we building this  
model and what do we  
hope to learn?**



# Vision Statement

For people who want to see how artificial intelligence should improve almost all aspects of traffic (congestion, accident rates, travel time, etc.) the AI Traffic Model is a model that will provide such information regarding human and self-driven cars. The model will use data based on traffic accidents caused by humans while driving in various conditions such as driving under the influence of substances, using mobile devices, fatigue, road rage, and human error. Unlike current models about traffic, our model will include predictive data about artificial intelligence's effect on traffic.




**In what environments  
does the system operate?**




# Super-Systems

- Other kinds of public transportation systems have an effect on road traffic
  - Buses
  - Cabs
  - Uber & Lyft
  - Subway
  - Trains
- Work Schedule
  - Rush hour
- City infrastructure
  - Road layout
- Cyclists
- Pedestrian Traffic
- Weather
- Economy



**What are the major  
subsystems and  
components of the  
system?**





# Subsystems & Components

- Vehicles
  - Human, AI
- Human Subsystems
- Software
- Hardware
- Balancing Loops
- Shifting the Burden
- Reinforcing Loops
- Success to the Successful



## Causal Loop Diagram