

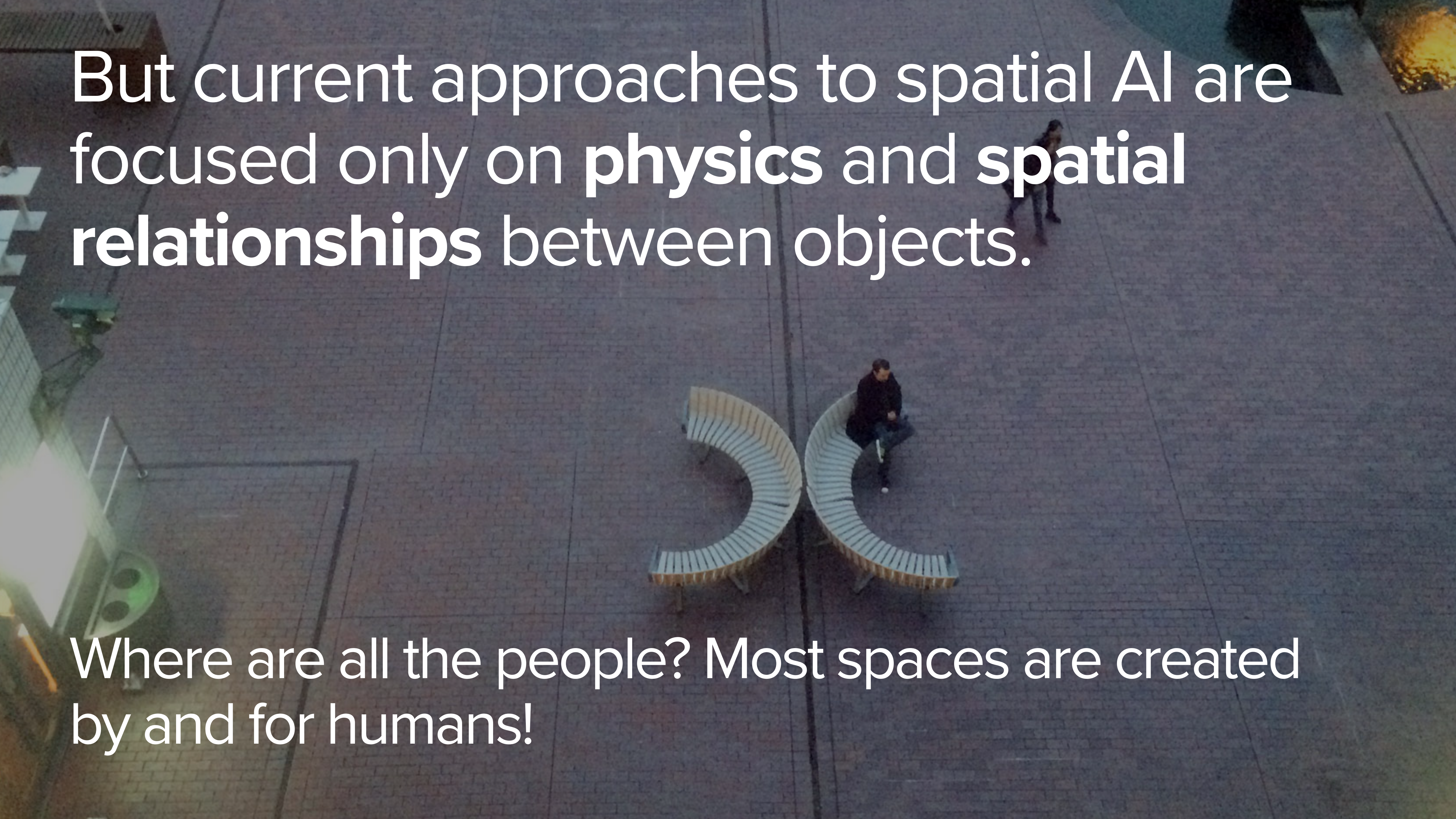
What is spatial intelligence?

(And where are all the people?)



Spatial intelligence helps AI to understand the physical world and spatial relationships.

This is useful for robotics, self-driving cars, and automated captioning of images and video

An aerial photograph of a public square. In the center, there is a large, curved, light-colored bench made of many small, rectangular slats. A person is sitting on the right side of the bench. The square is paved with dark, rectangular stones. In the background, there are some trees and a building. The text "But current approaches to spatial AI are focused only on **physics** and **spatial relationships** between objects." is overlaid on the top half of the image in white, sans-serif font.


But current approaches to spatial AI are focused only on **physics** and **spatial relationships** between objects.

Where are all the people? Most spaces are created by and for humans!



We believe that spatial AI needs to understand **social** and **cultural** uses of space.

We like challenging problems, so we created **Poirot** to investigate this



Poirot is an open-source social spatial intelligence model, fine-tuned on philosophy and spatial theory as applied to urban spaces.

We tested Poirot by comparing its interpretations of urban scenes with interpretations generated by general models like ChatGPT and Claude, and interpretations of the same scenes by people.



The general models do pretty well, but Poirot is better at transforming **analysis** to **actions**, and identifying **social dynamics** around urban scenes





Poirot also generates **multiple interpretations**.
This is valuable for questions that have more than
one answer!

Poirot shows the value of developing models grounded in the **humanities** and **social sciences**, as opposed to those led purely by engineering

