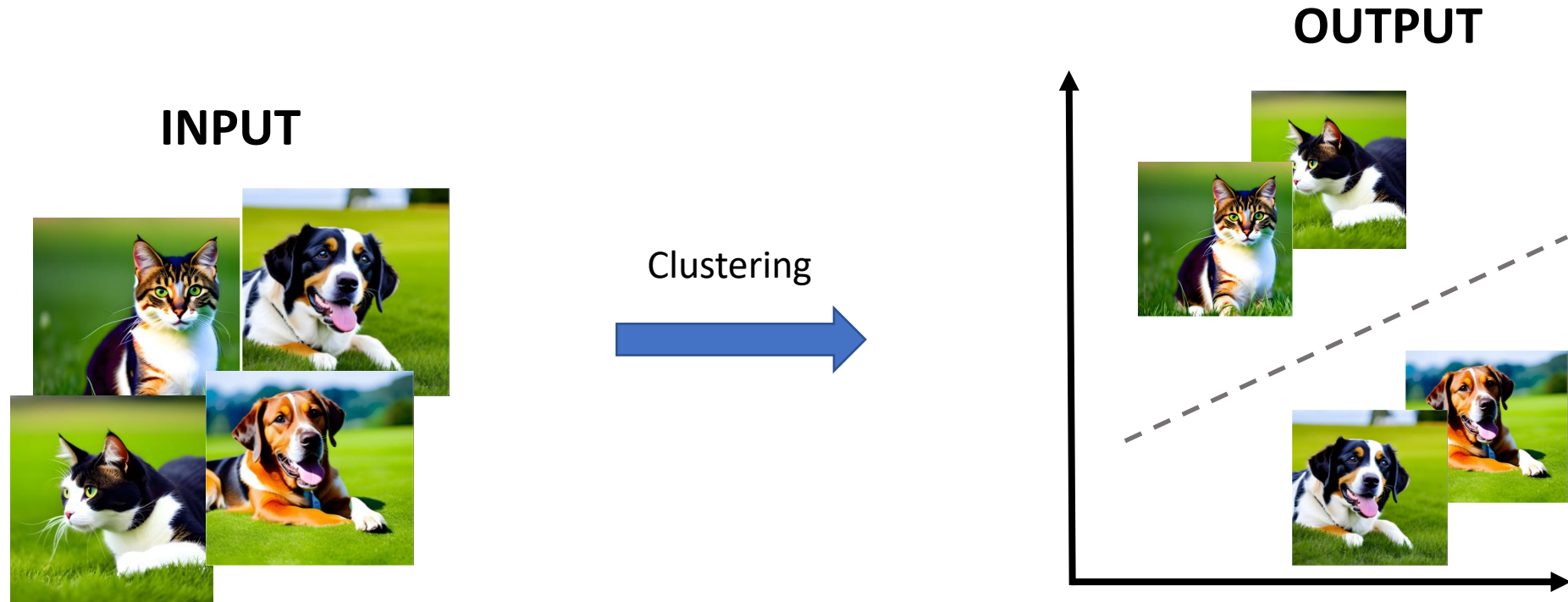# AI "explosion": why now?

- Advance in <u>computing power</u>

- <u>Big data</u> availability

- Advancements in <u>machine learning</u>
  - Unsupervised machine learning
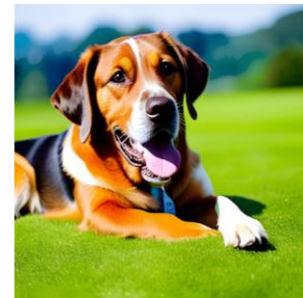 - Generative models

1. Unsupervised machine learning

INPUT

Clustering

OUTPUT

2. Generative AI models

INPUT

"Create pictures of cats and dogs"

Generate →

OUTPUT

"Synthetic" data