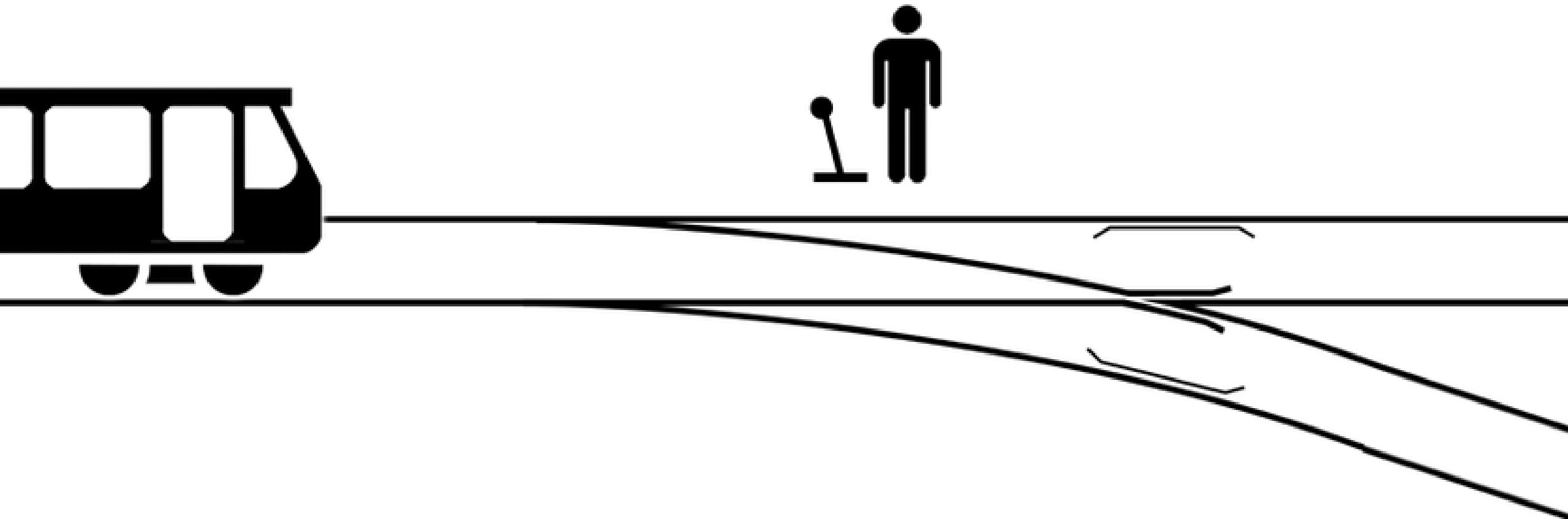




THE TROLLEY PROBLEM

Lecturer: Mark Gillan

TROLLEY CAR OUT OF CONTROL

- No breaks and running out of control
- The trolley car is at speed
- You stand next to a lever
- Able to put the trolley car in either direction
- Split-second decision is required



THE CHOICE — USE THE LEVER TO REDIRECT ONTO...

A mother crossing with a baby in a pram

- Do you choose to save the mother and baby in a pram?
- Split second decision ... Save the mother and baby but see a large group of people possibly killed by the trolley car?
- **What is your split-second decision?**

A large group of people

- Do you choose to save the large group of people, mainly older people?
- Split second decision ... Save a large group of many people, some young adults, mainly older people, a large mix, but see the mother and baby possibly killed by the trolley car?



IMAGINE AI MAKING THE SAME DECISION

- Consider Artificial Intelligence having to make a similar decision.
- Consider how difficult a decision is to make under these circumstances.
- A split-second decision.
- Self-driving cars and Medical decisions.
- Who lives and who dies?
- Can machines be morally responsible for their choices?
- Accountability and liability?

