

Introduce the method

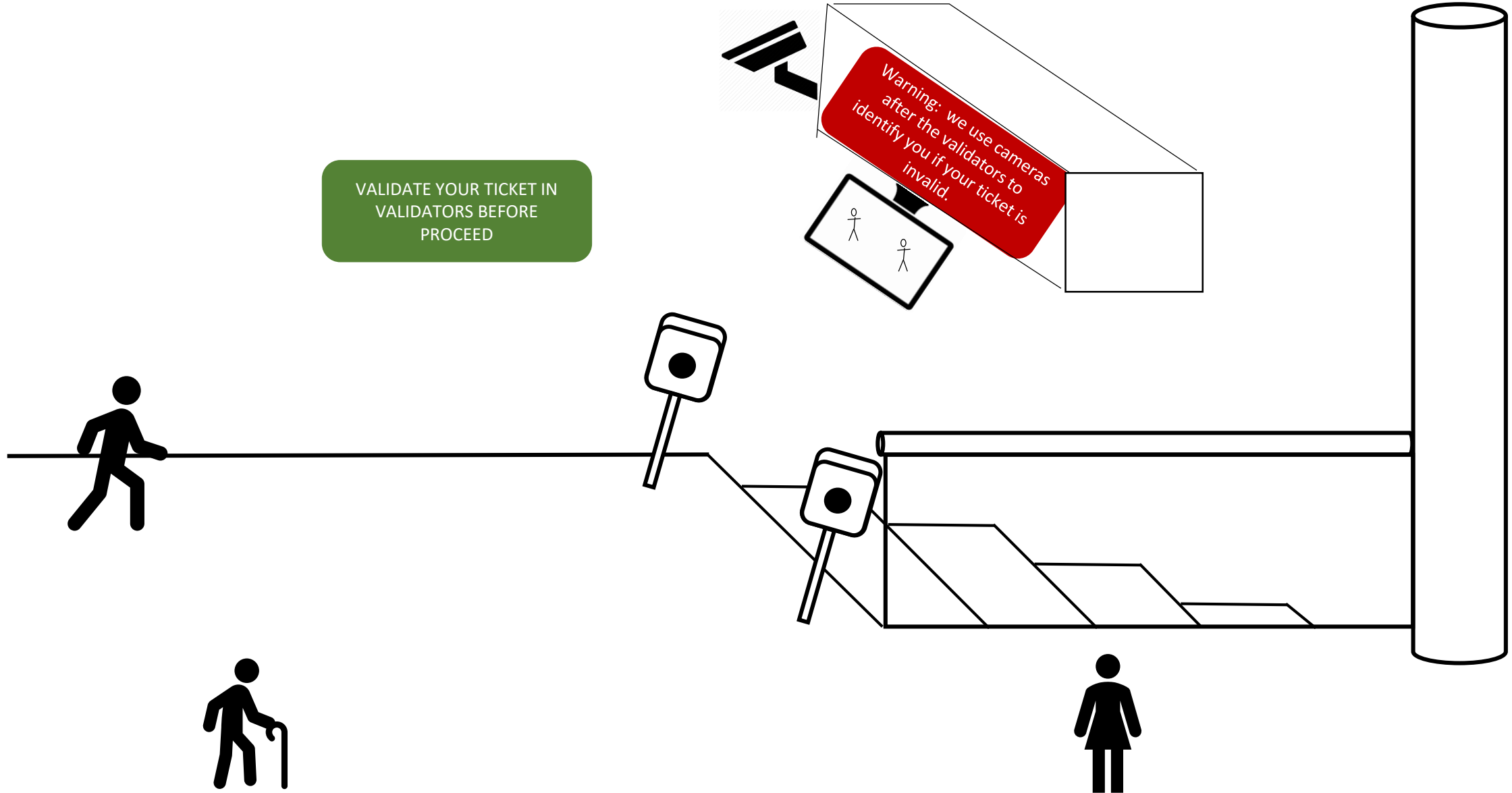
You're helping us by trying out this product in its early stages.

We're looking for places where the product may be difficult to use.

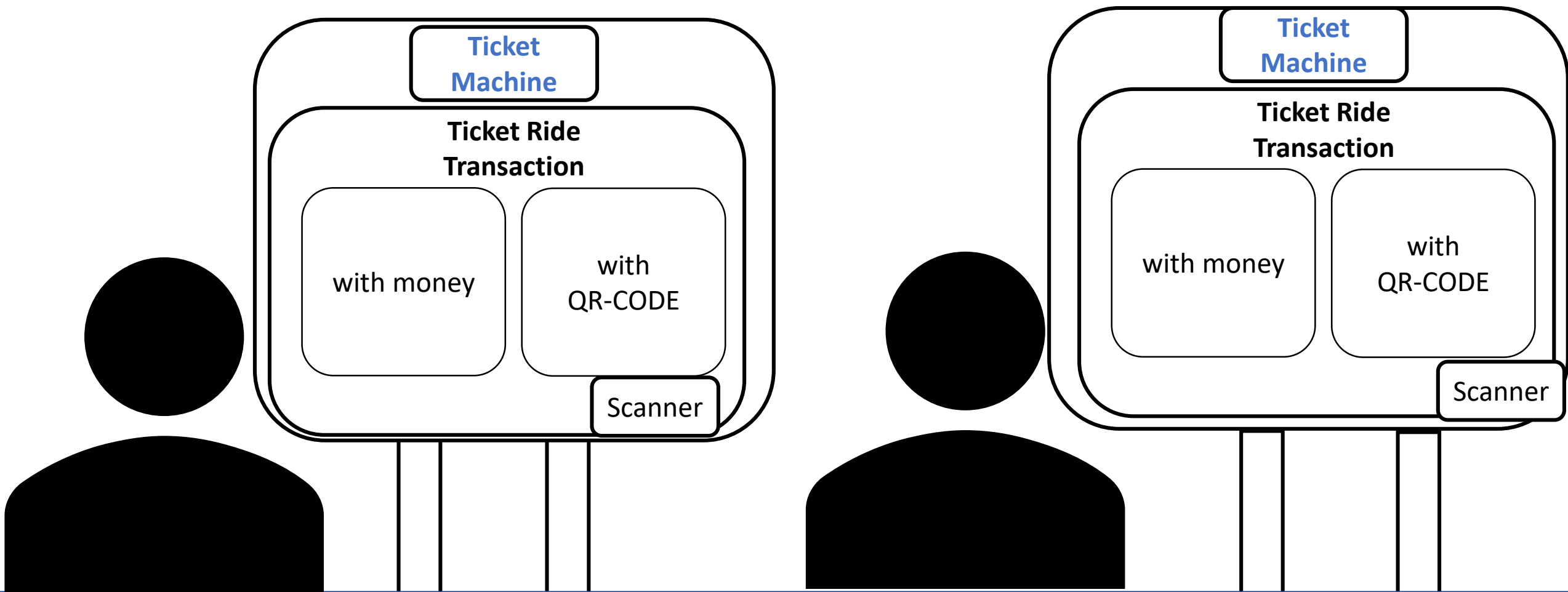
If you have trouble with some of the tasks, it's the product's fault, not yours. Don't feel bad; that's exactly what we're looking for.

Introduce the design

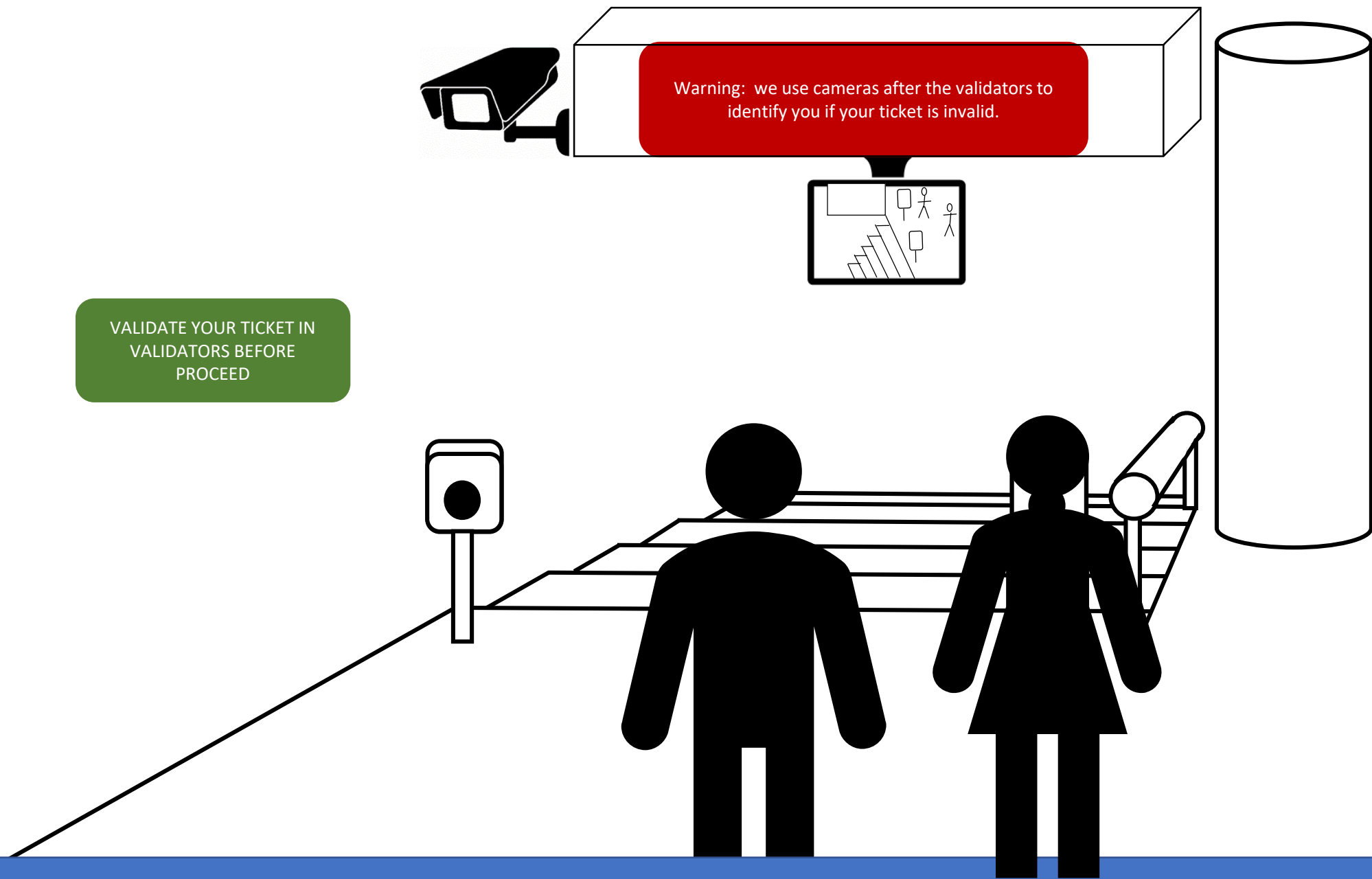
This is a sketch of our solution to Porto Metro problem : “20% of the users don’t pay the ticket”. We intend to use thermal cameras to identify who doesn’t pay and to make people more responsible using warnings before they enter the line and allow them to see themselves on monitors to know what the system is able to see.



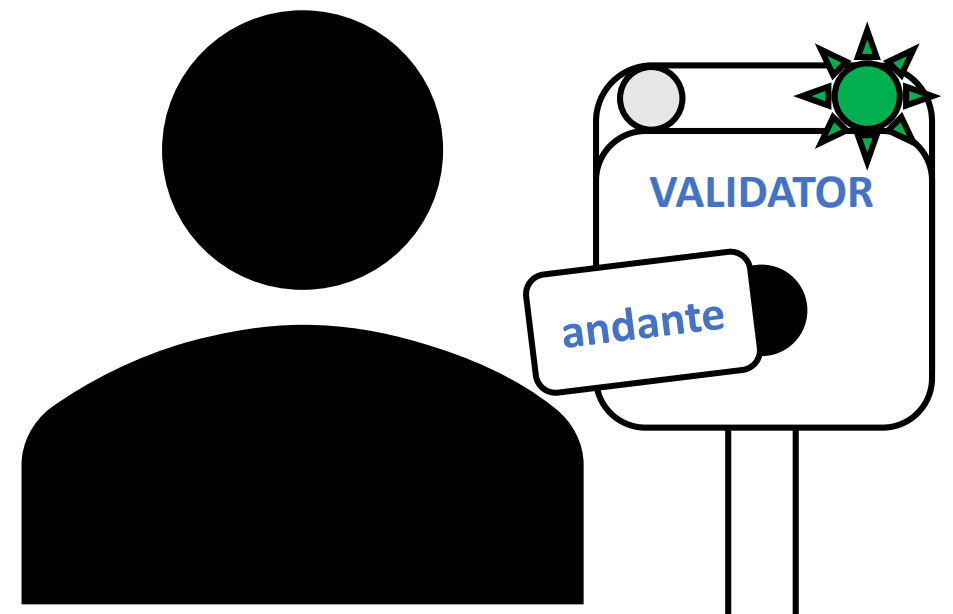
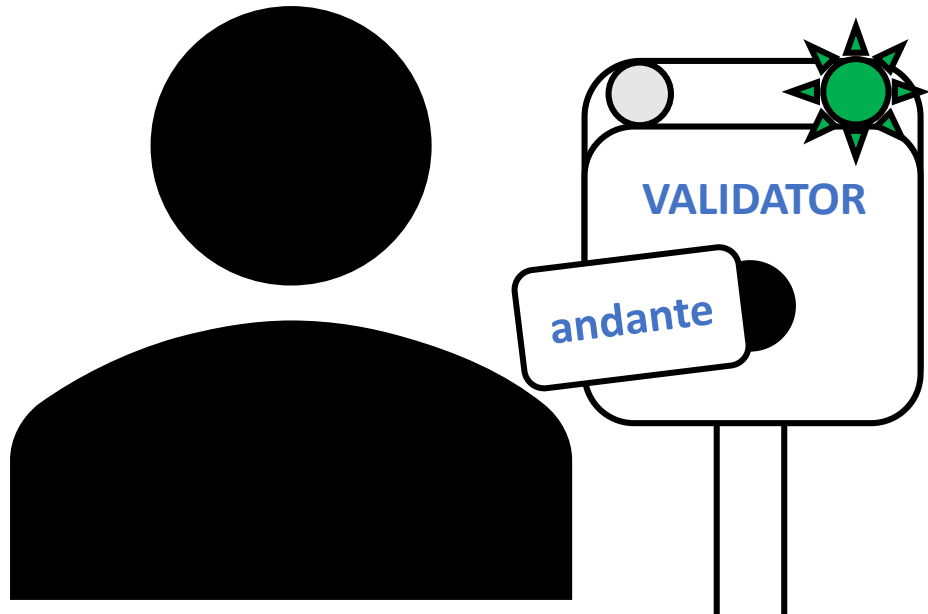
Meanwhile, in a Metro of Porto station ...



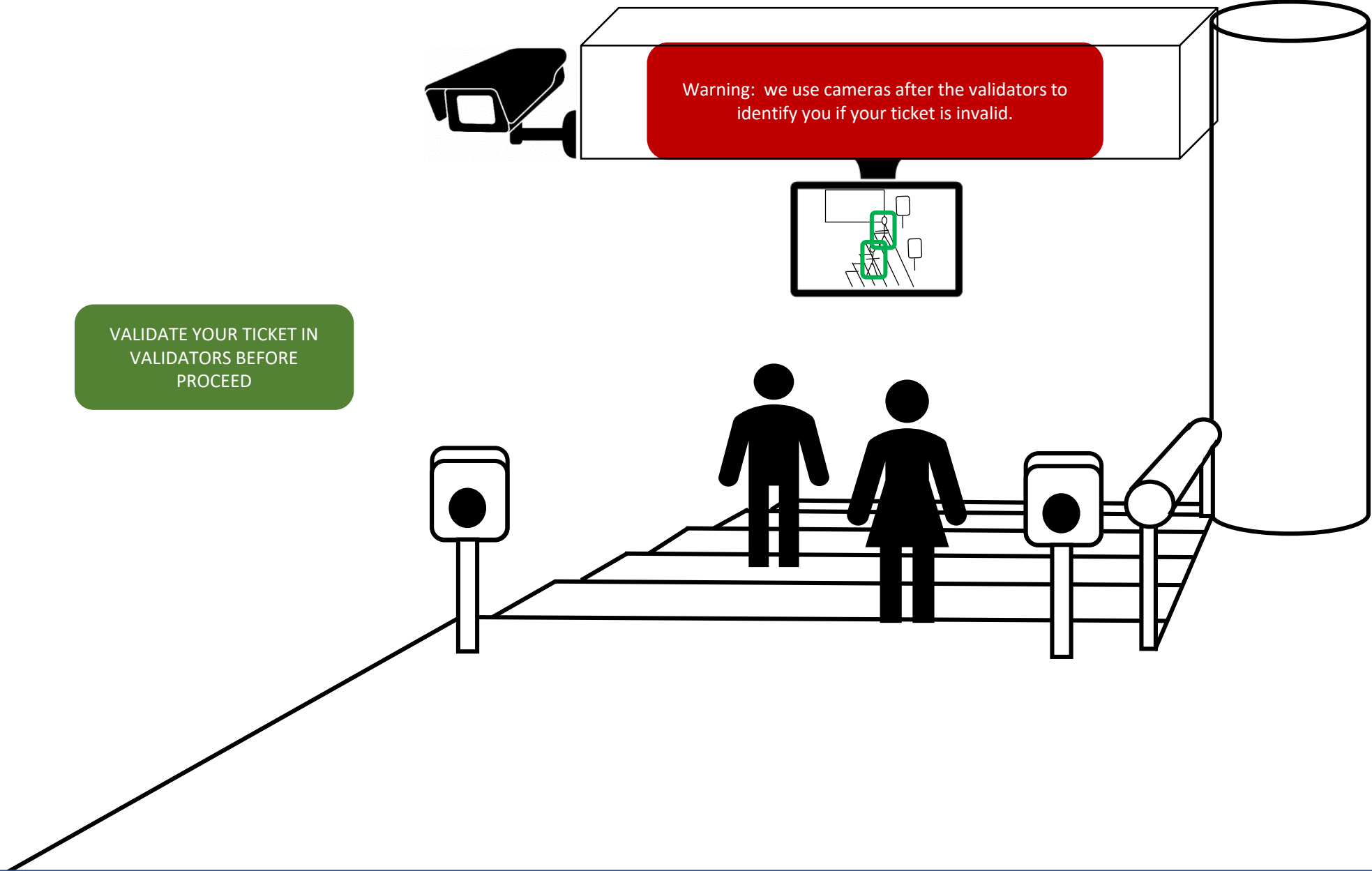
One customer buys a ticket with money and the other with QR-CODE from the APP



Two customers approach the access to the station's platform to enter the metro, each one with the intention of validating their ticket.

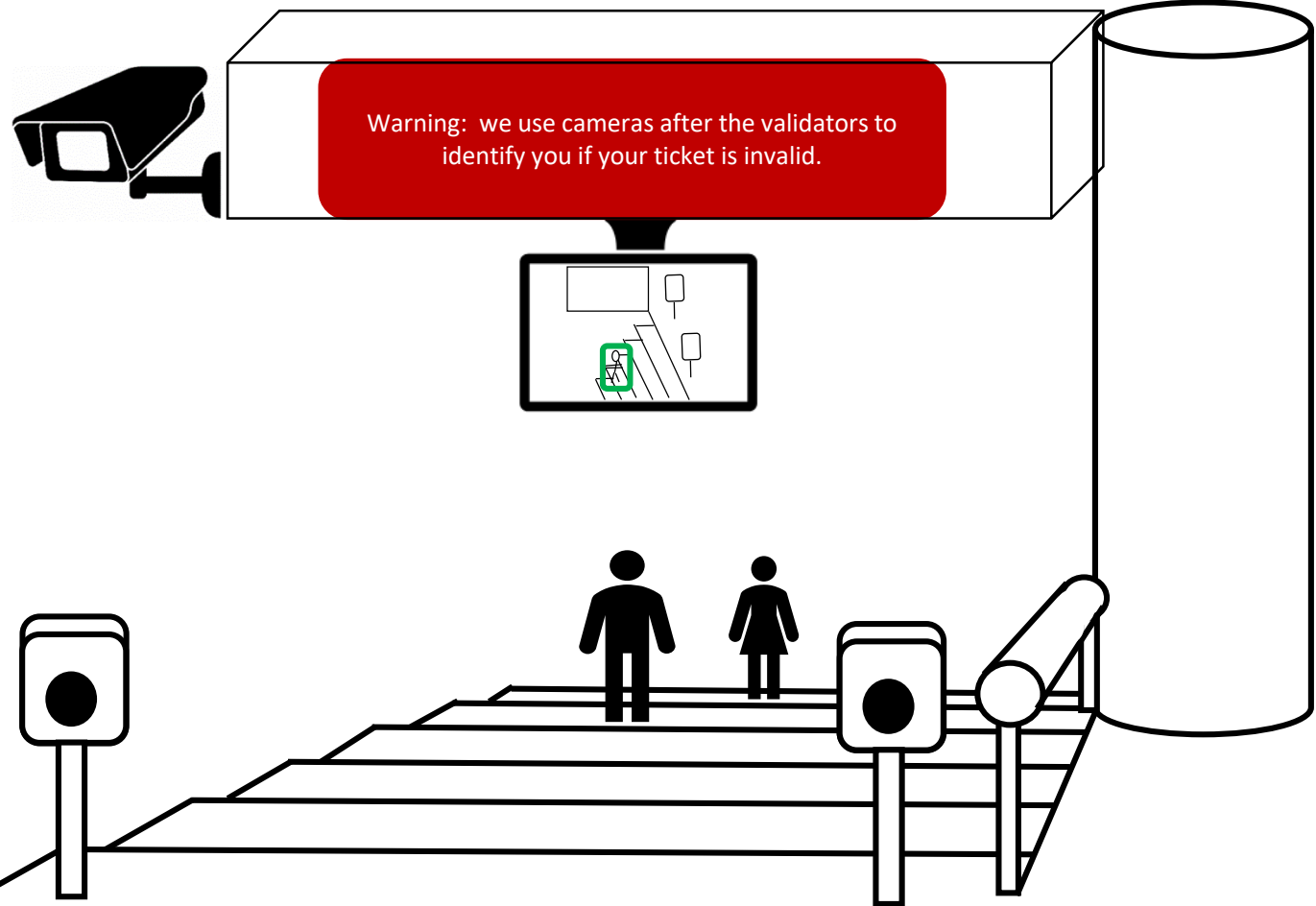


Each customer places their cards in front of the validators, that give a green light

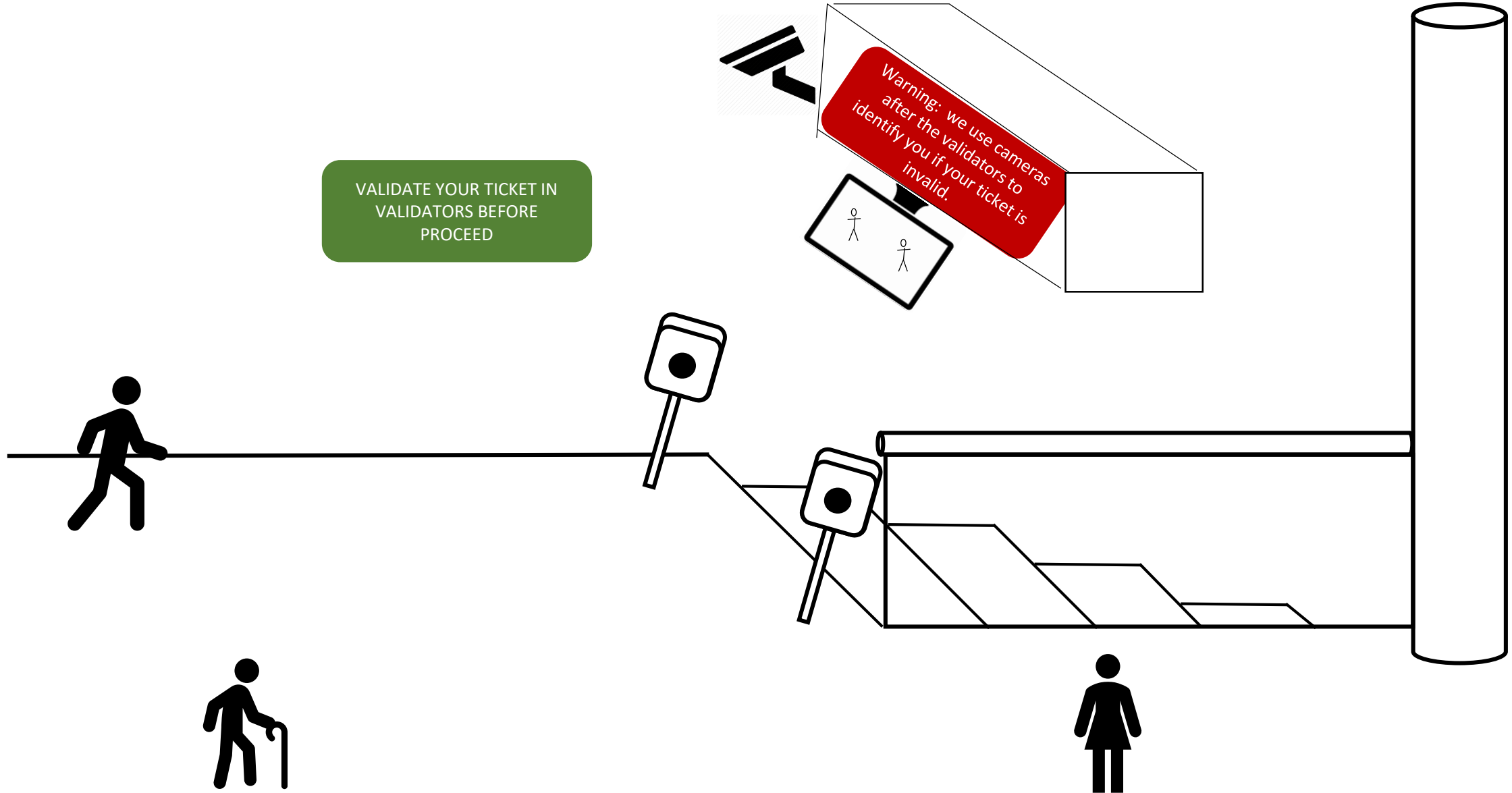


The thermal camera detects the customers and two green boxes around the customers are shown in the display

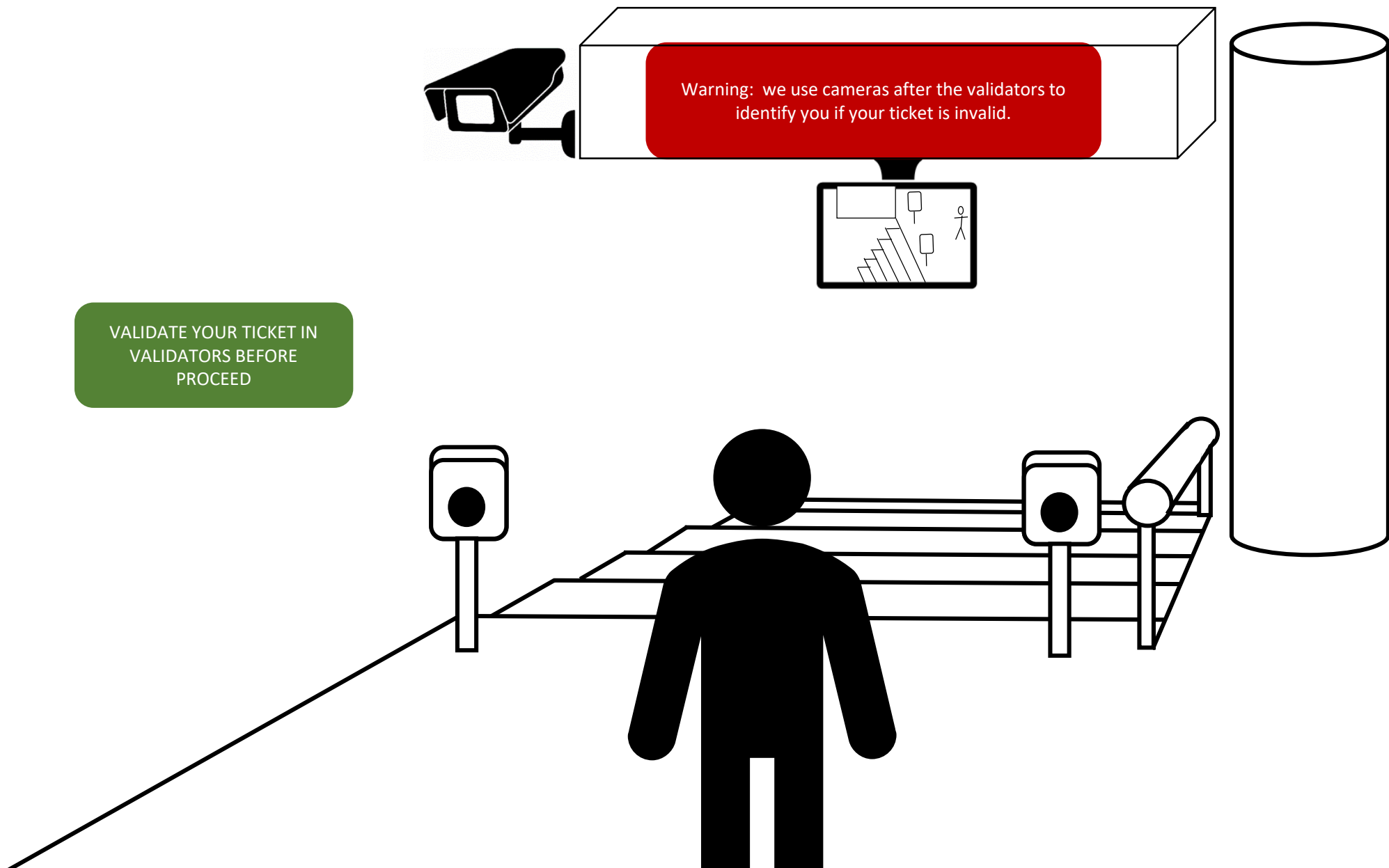
VALIDATE YOUR TICKET IN
VALIDATORS BEFORE
PROCEED



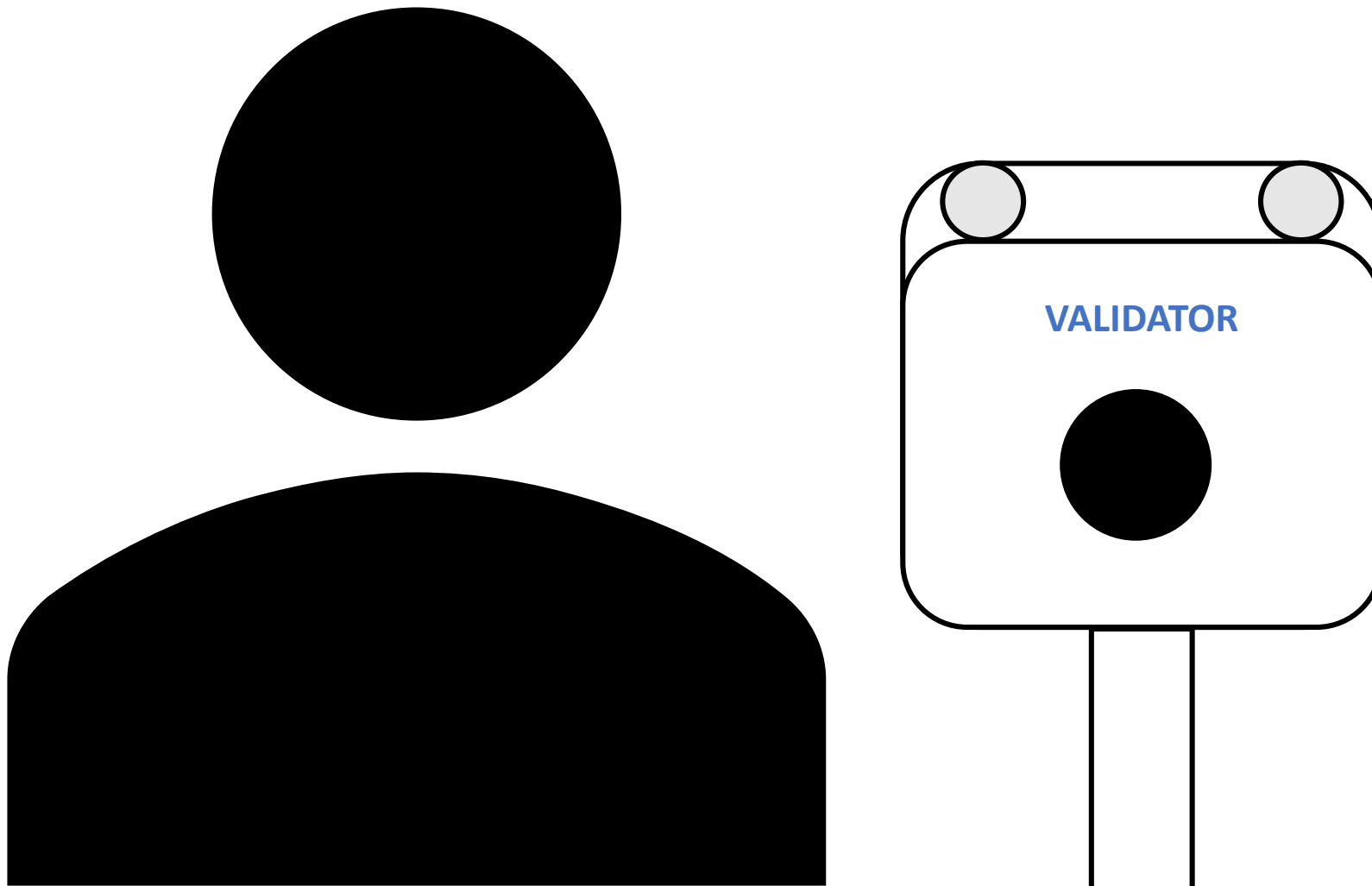
The customers go on happy with their lives :)



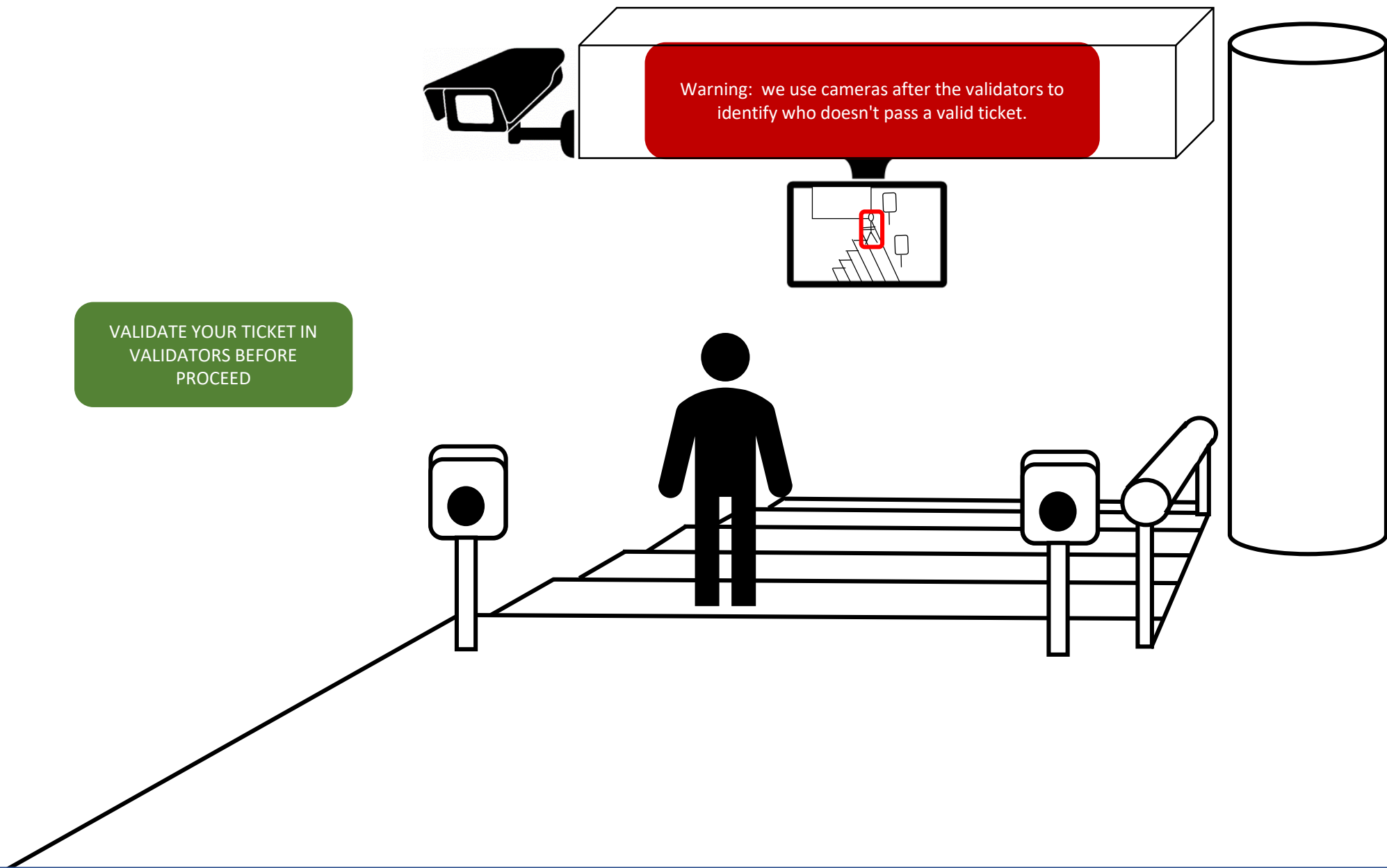
Meanwhile, in a Metro of Porto station ...



A customer approaches the access to the station's platform to enter the metro without the intention of validating his ticket.



The customer passes by the validator without validating the ticket.

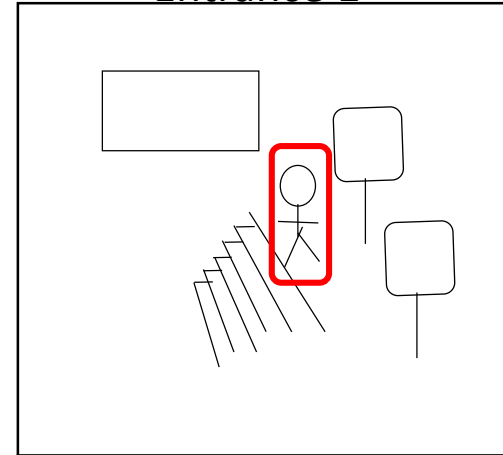


The thermal detects the customer and a red box is shown around him.

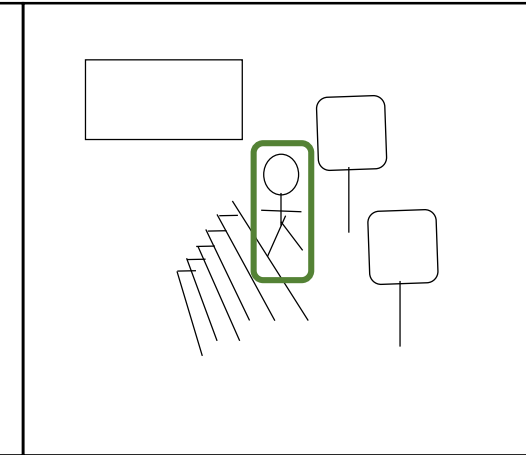


MONITORS

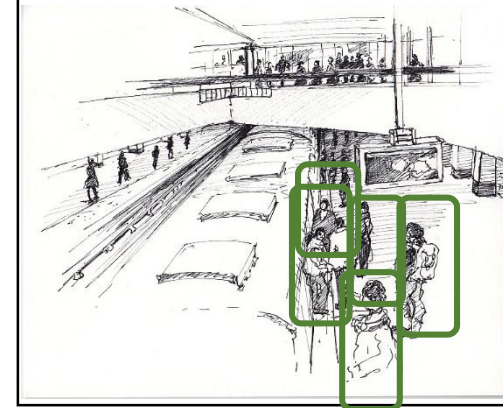
Entrance 1



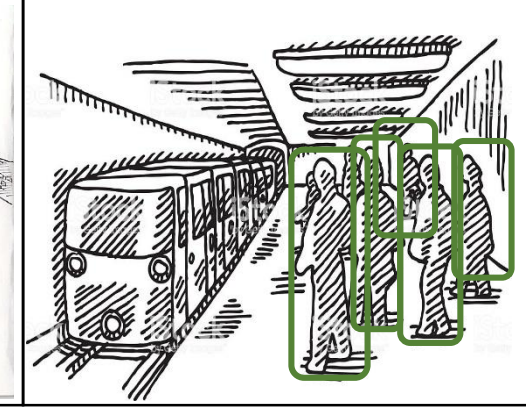
Entrance 2



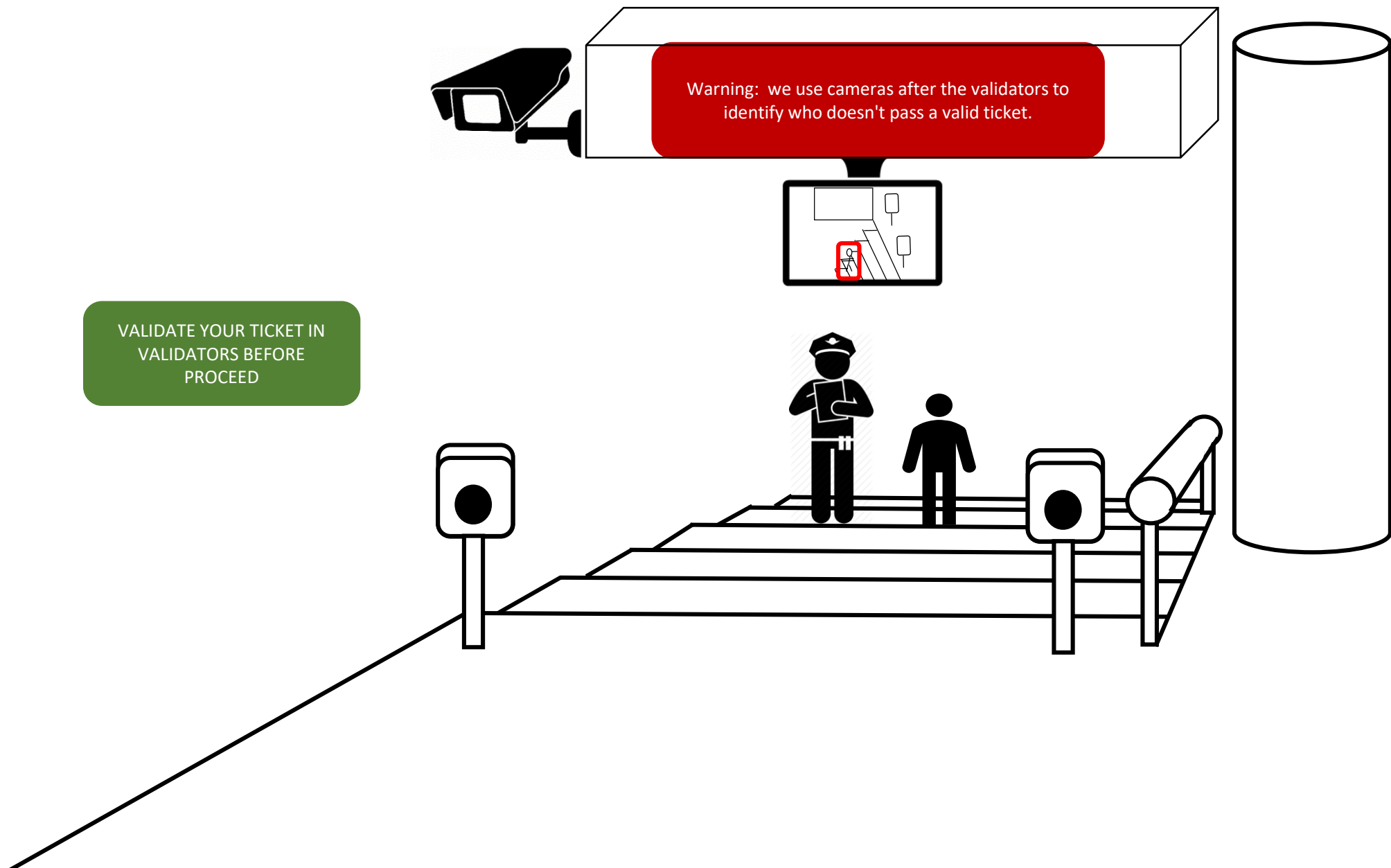
Line 1



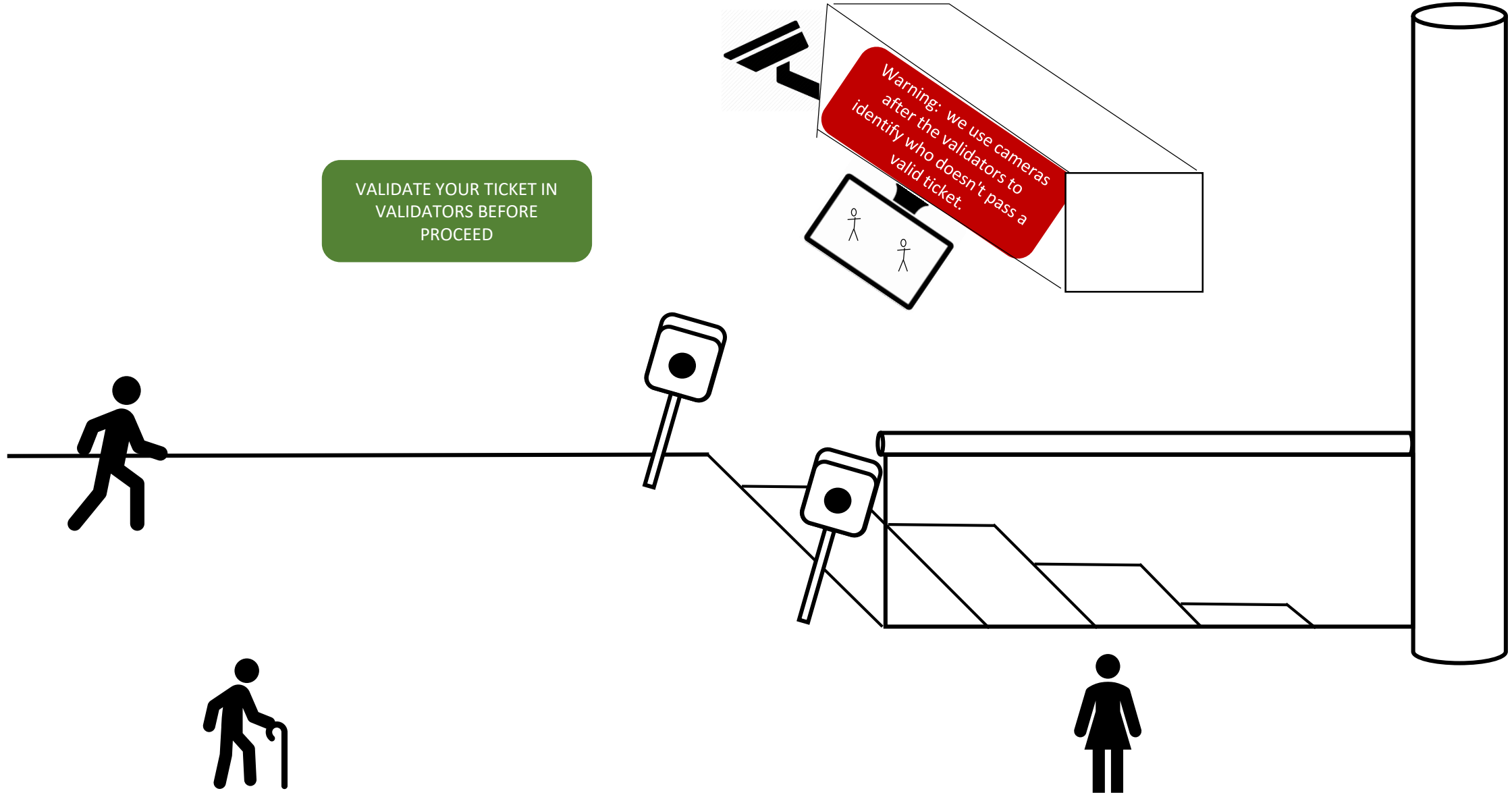
Line 2



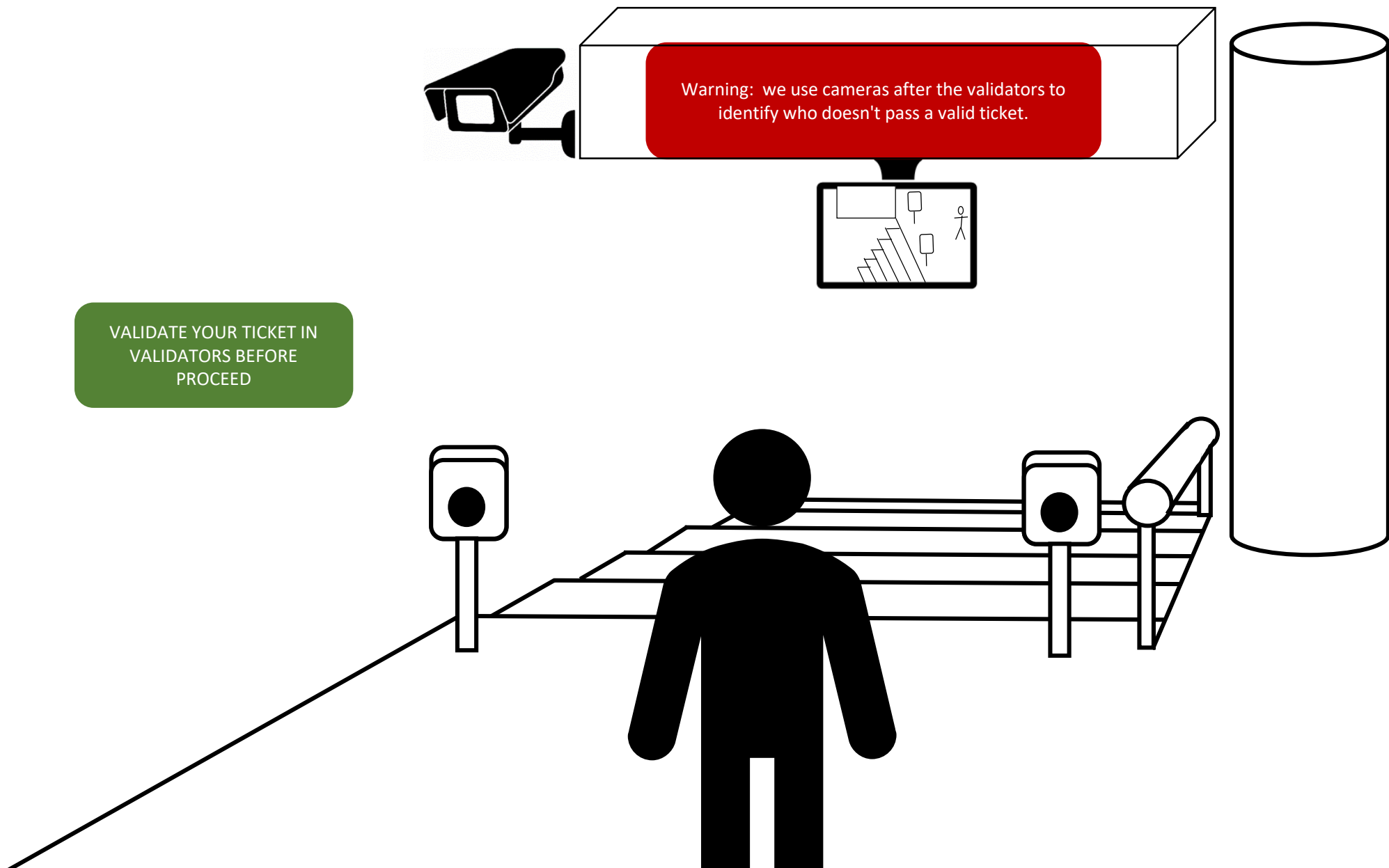
The Officer sees the person that didn't validate the ticket



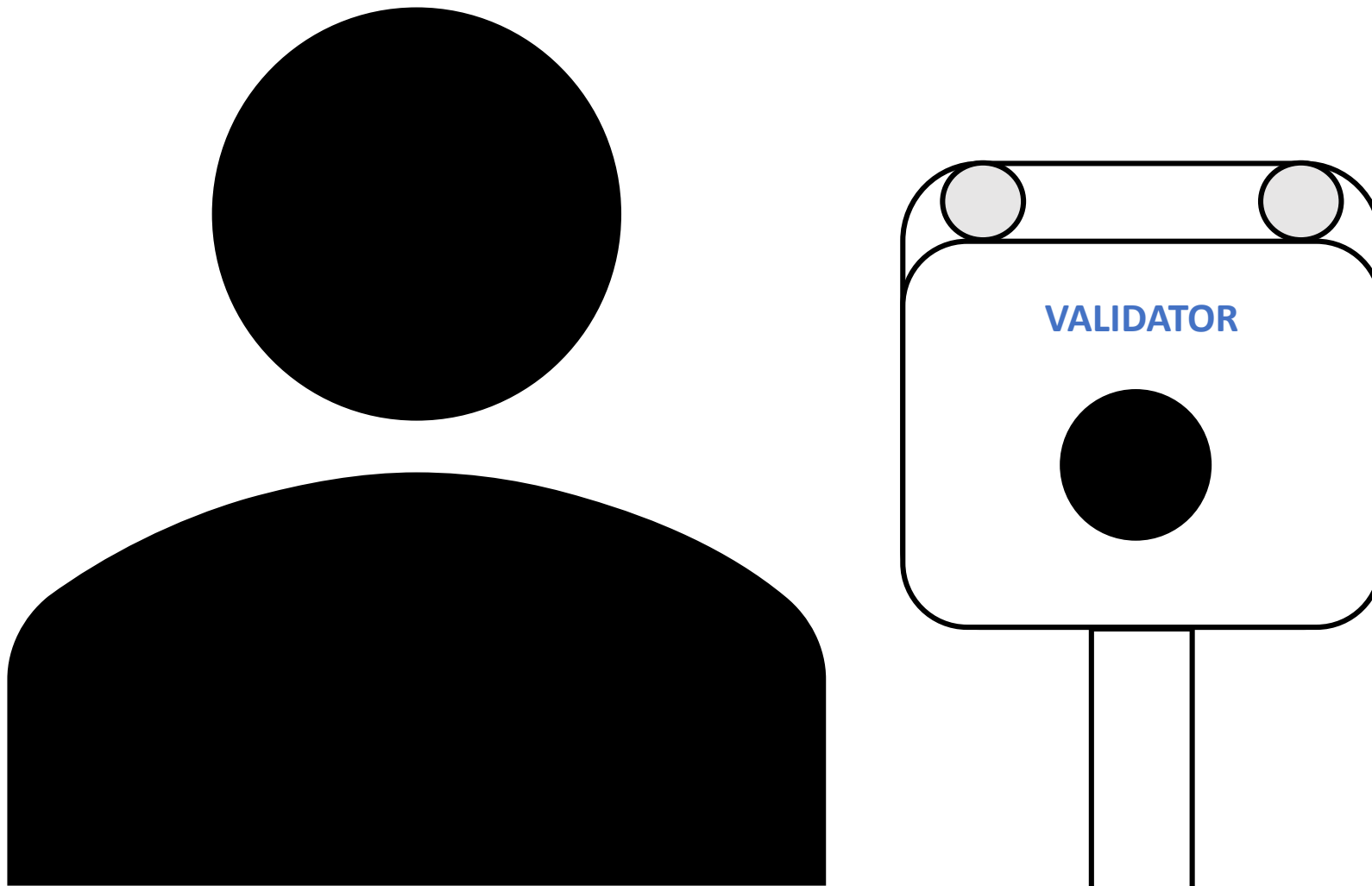
Metro officer goes to him and the customer takes a fine.



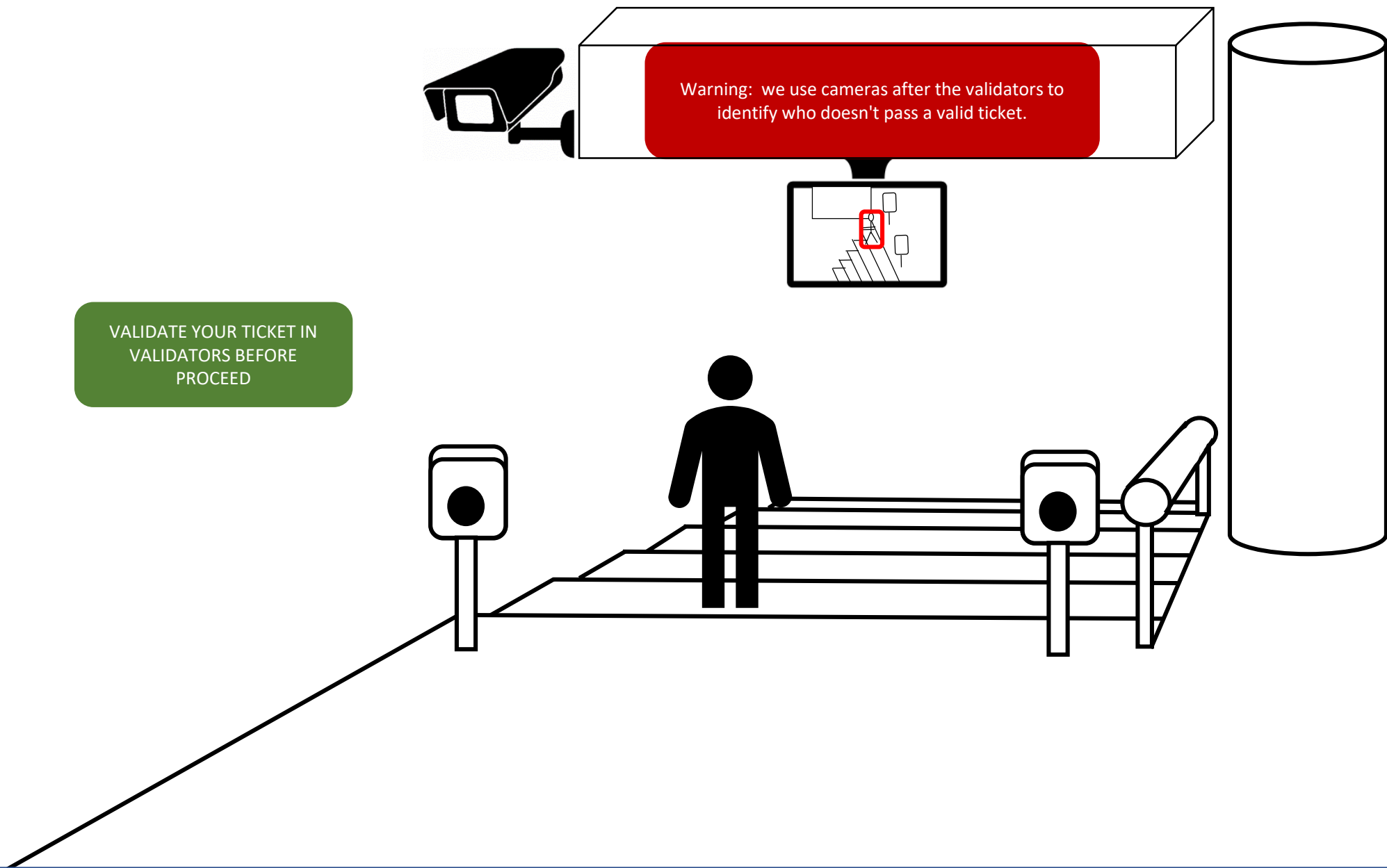
Meanwhile, in a Metro of Porto station ...



A customer approaches the access to the station's platform to enter the metro without the intention of validating his ticket.



The customer passes by the validator without validating the ticket.

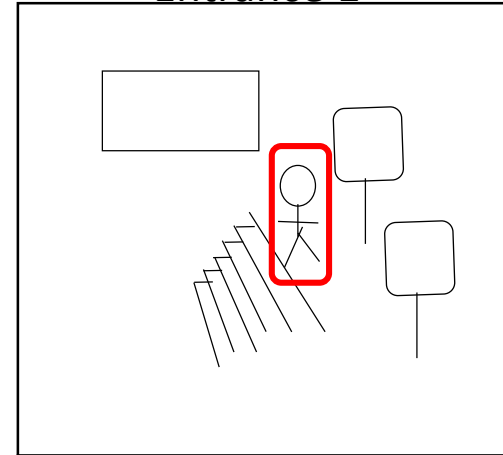


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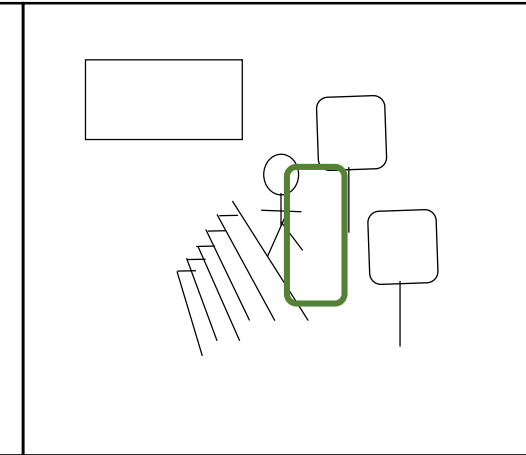


MONITORS

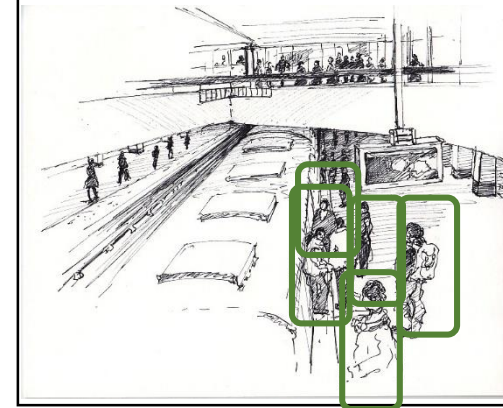
Entrance 1



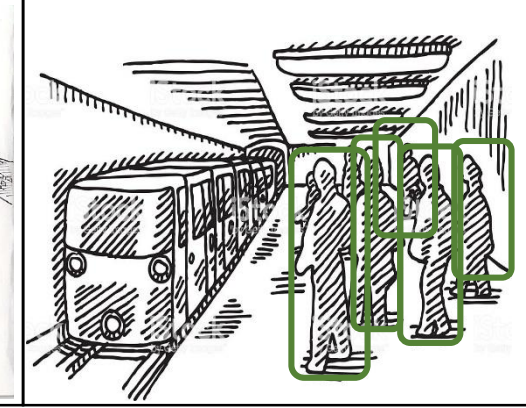
Entrance 2



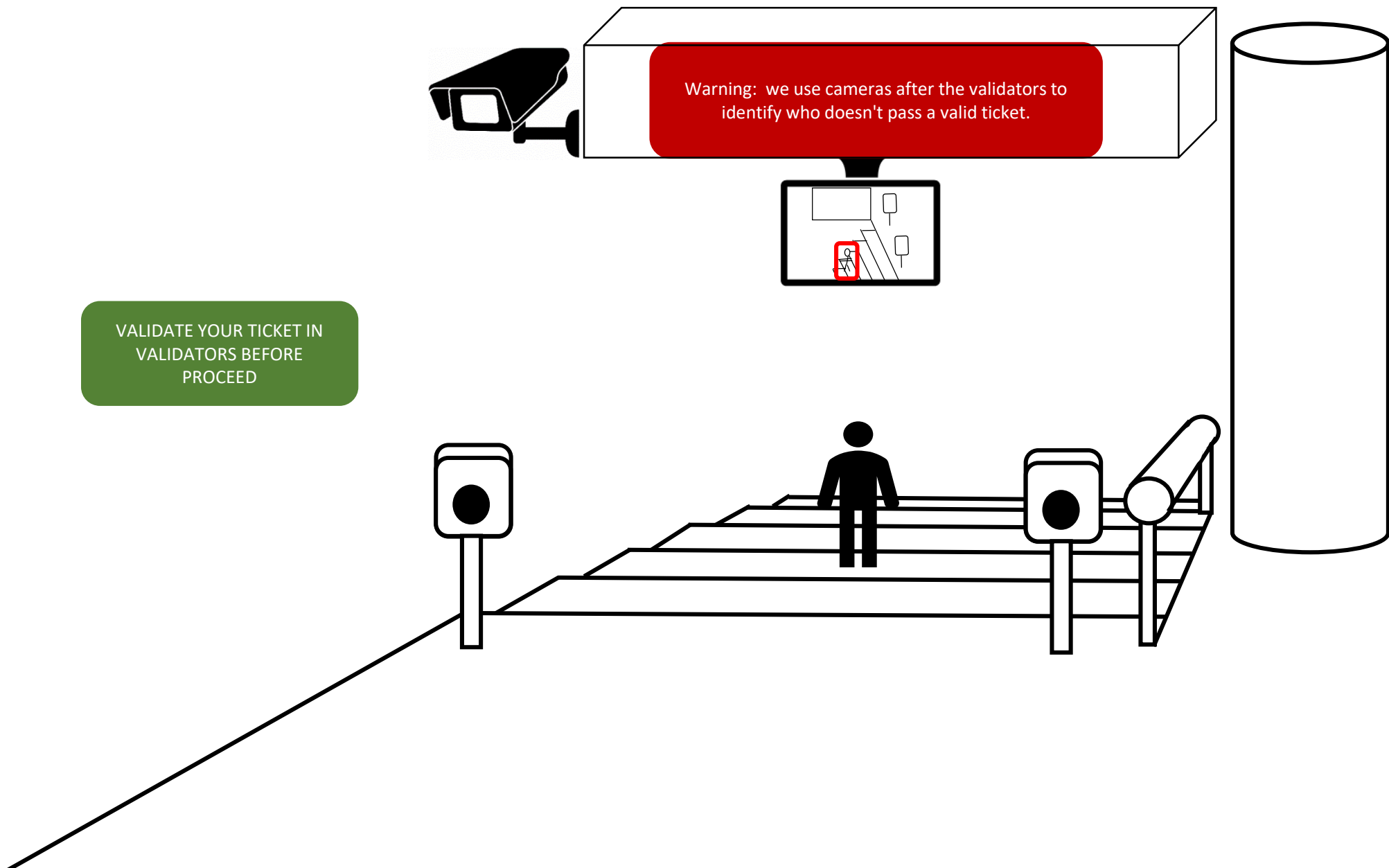
Line 1



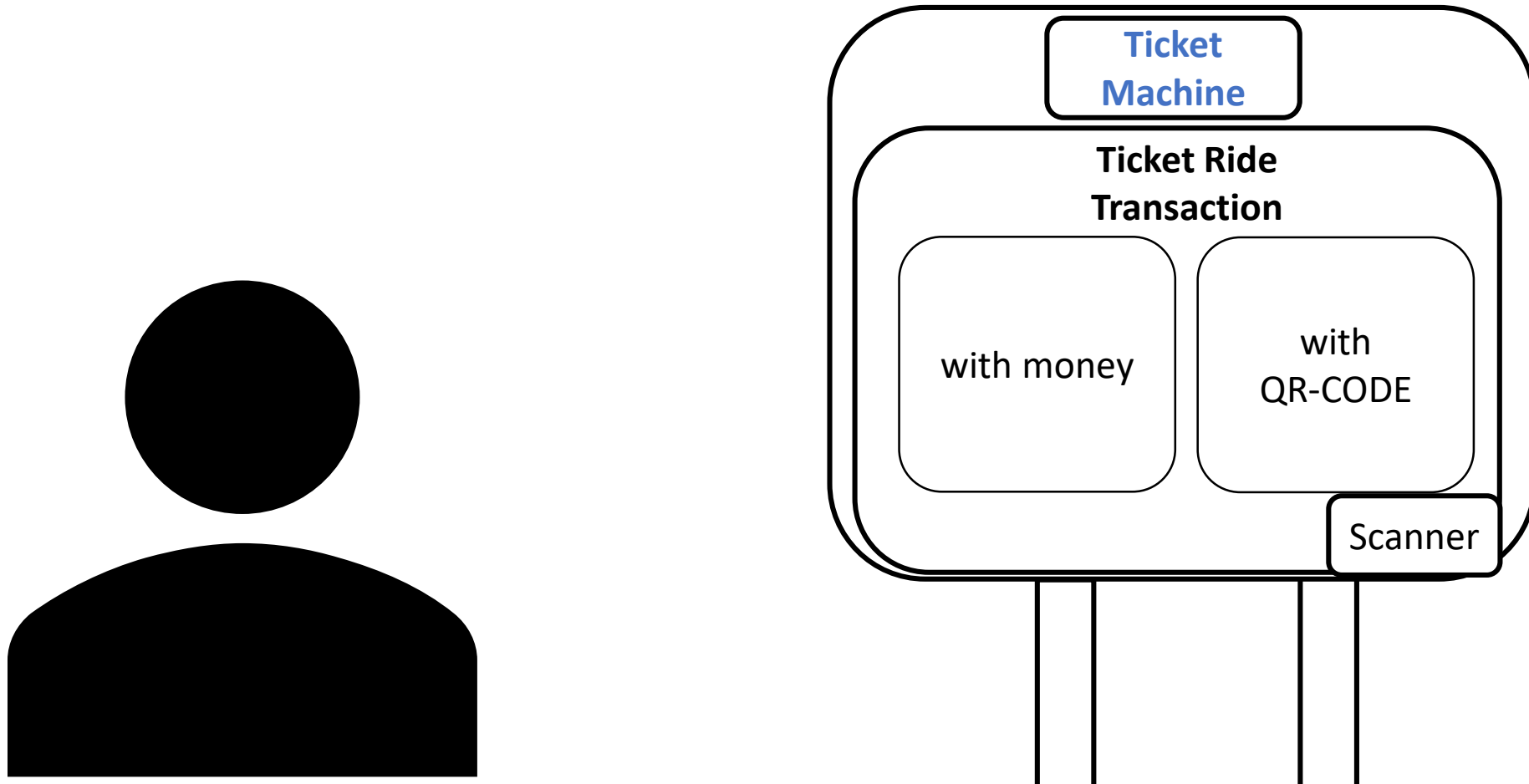
Line 2



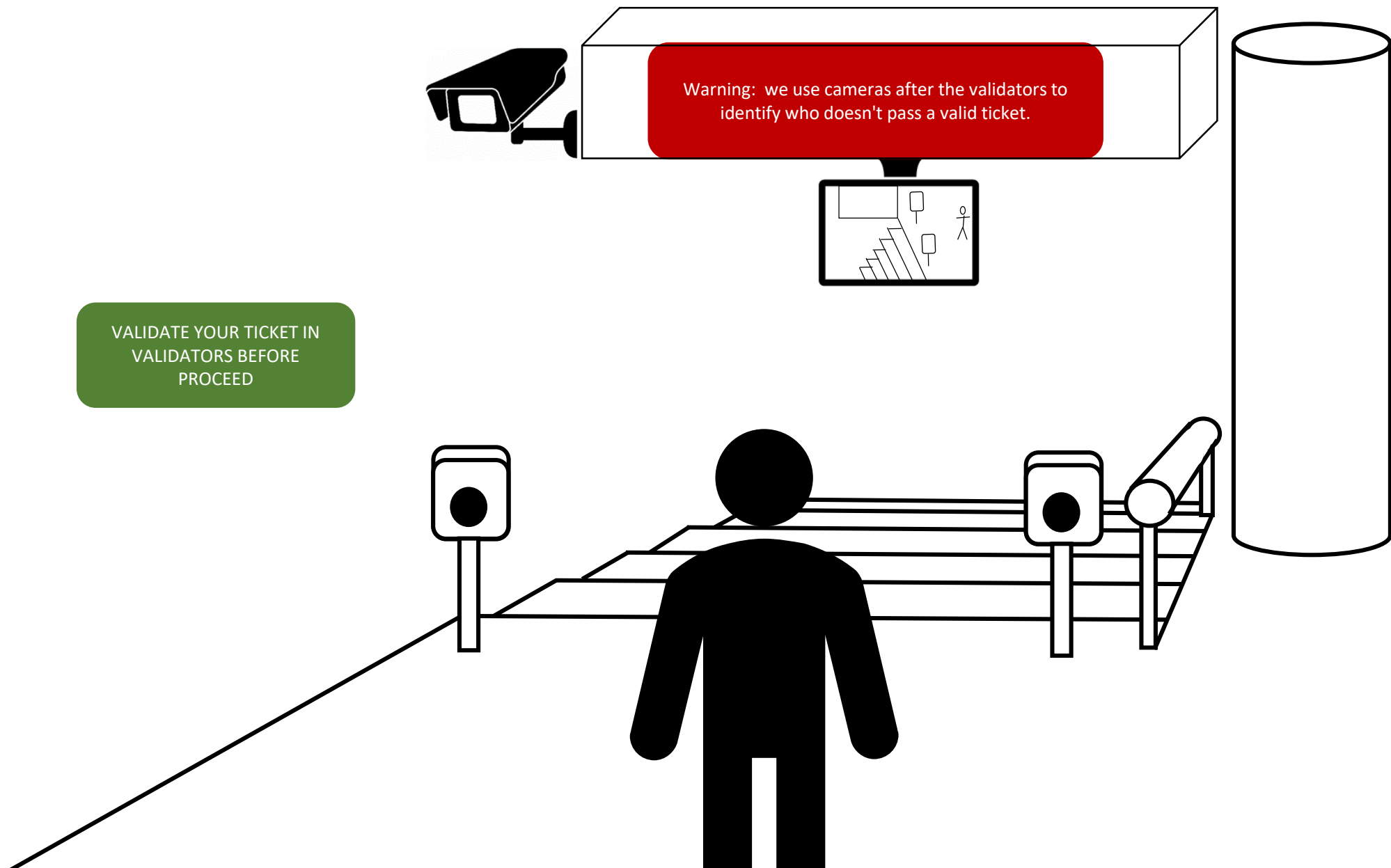
The Officer sees the person that didn't validate the ticket



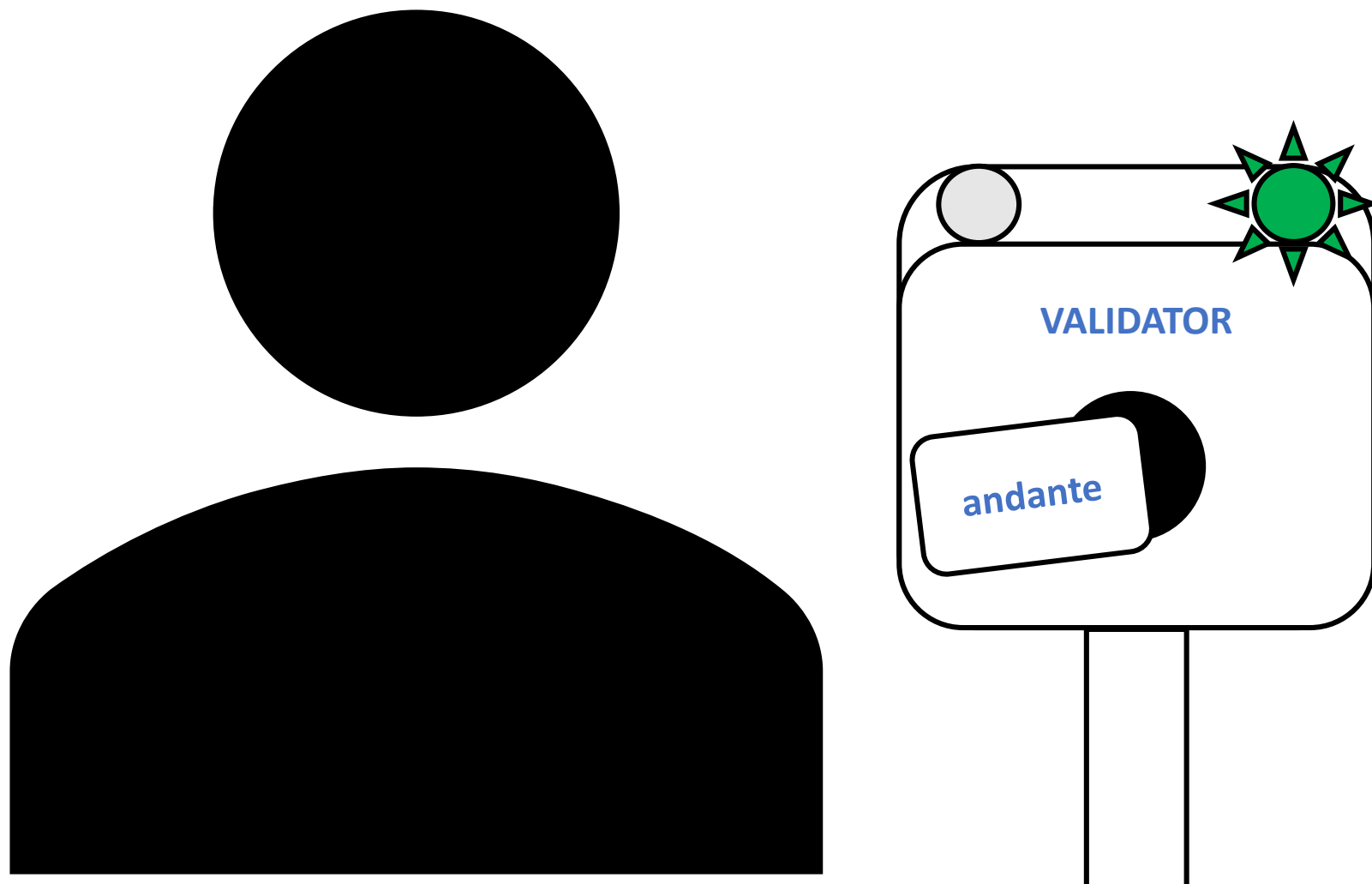
The customer feels shame and comes back to purchase the ticket



Customer gets a ticket with QR-CODE from the APP



A customer now with the intention of validating his ticket approaches the access to the station's platform to enter the metro.



The customer places the card in front of the validator that correctly validates it.



The thermal camera detects the customer and a green box around the customer is shown in the display

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The customer goes on happy with his life :)