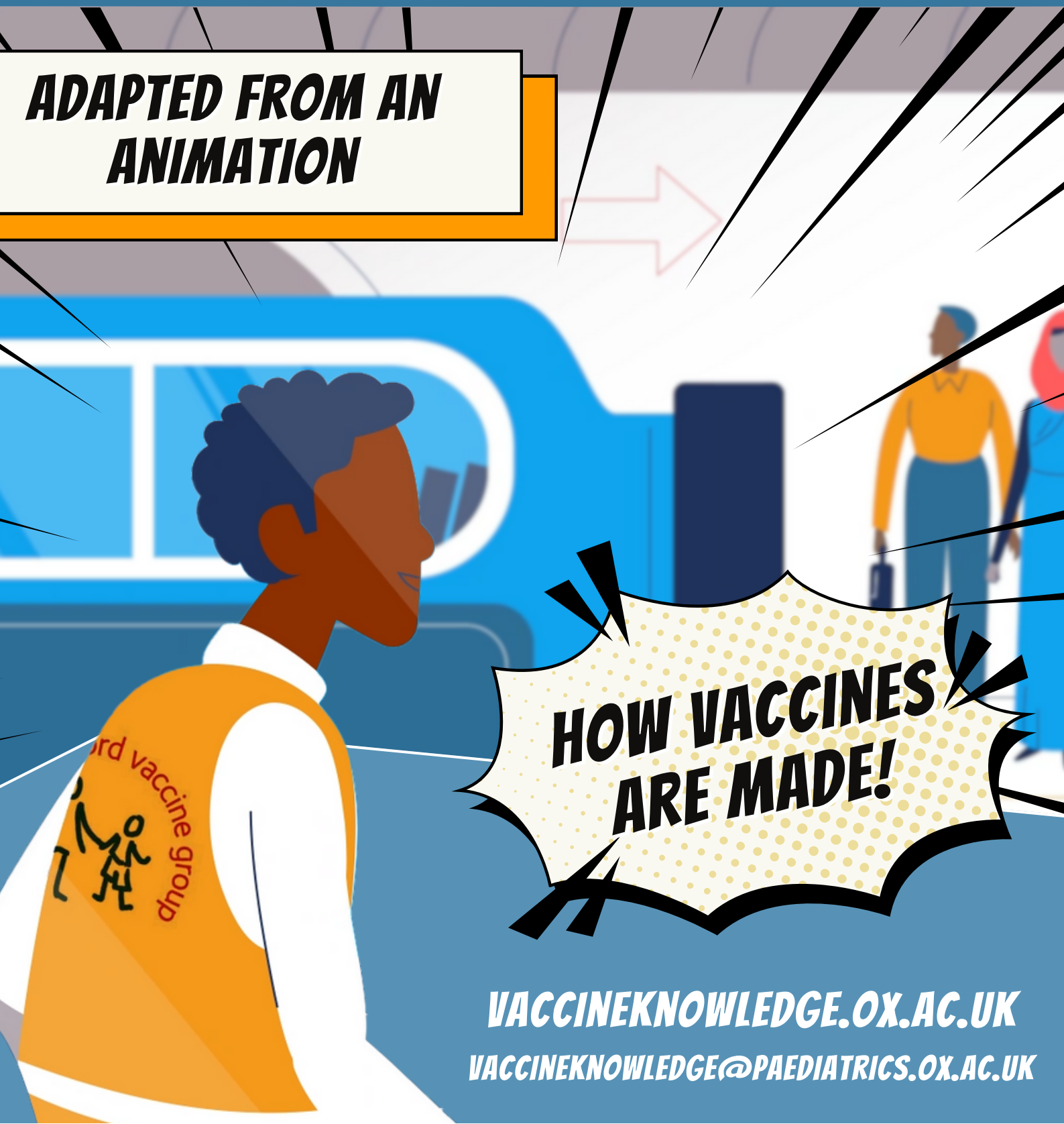
SPECIAL EDITION

VACCINES

FROM LAB TO LICENSING

ADAPTED FROM AN ANIMATION



HOW VACCINES ARE MADE!

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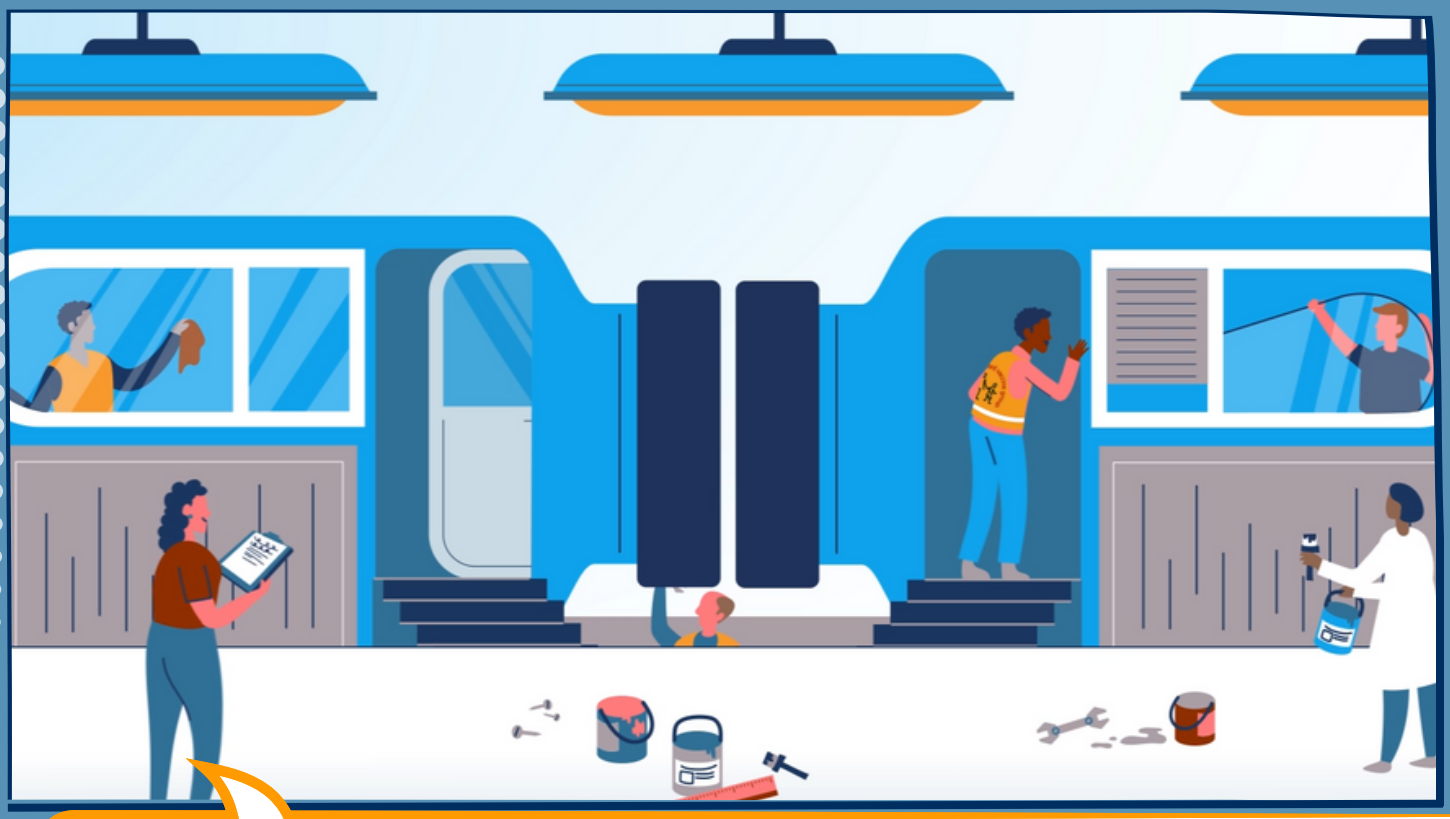
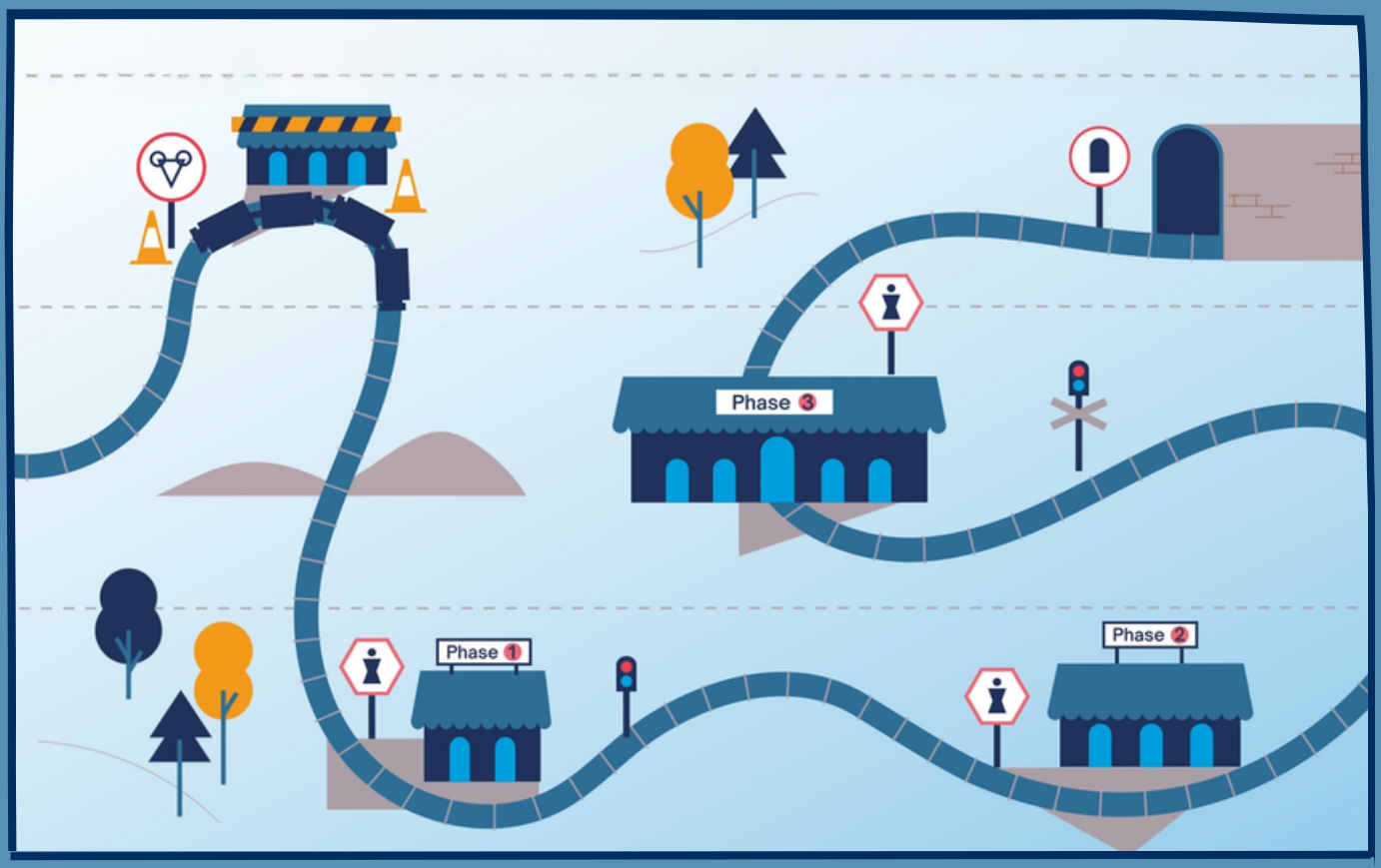
People of different ages, sexes, and ethnicities can have different risk levels for certain diseases.

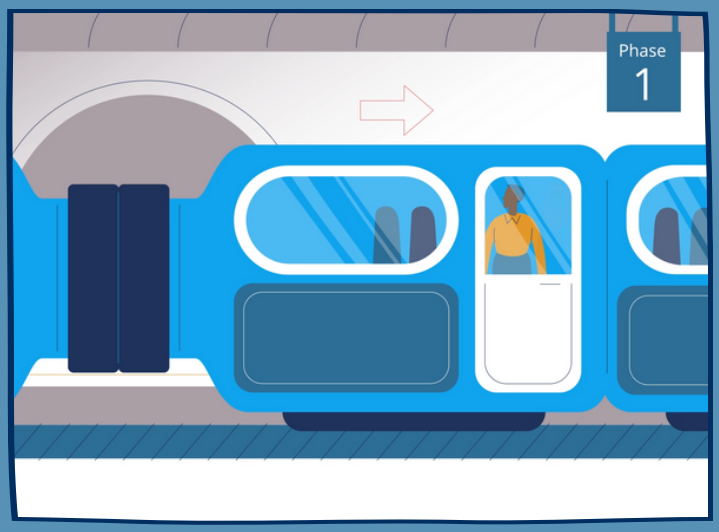
It's crucial that vaccines are safe and effective for all populations, to protect against many globally significant diseases.



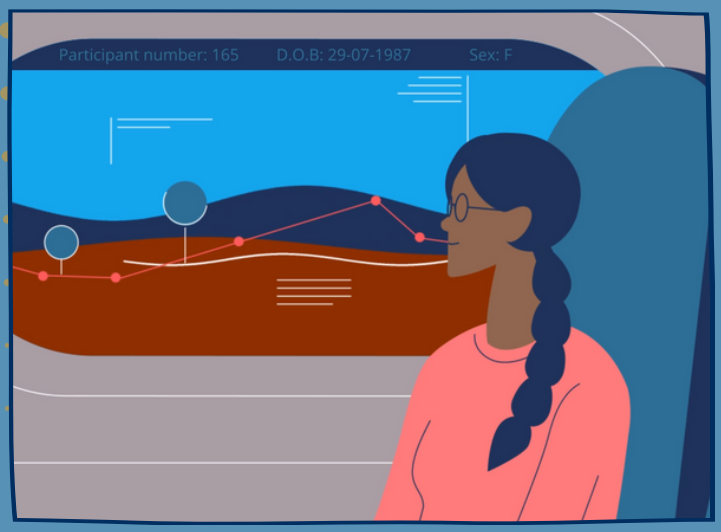
We are the Oxford Vaccine Group, a diverse team, with different skill sets and expertise developing and testing vaccines at the University of Oxford.



Initial assessment in animals is required by the regulators. While scientists are working on reducing the need for this, it remains necessary in most cases.



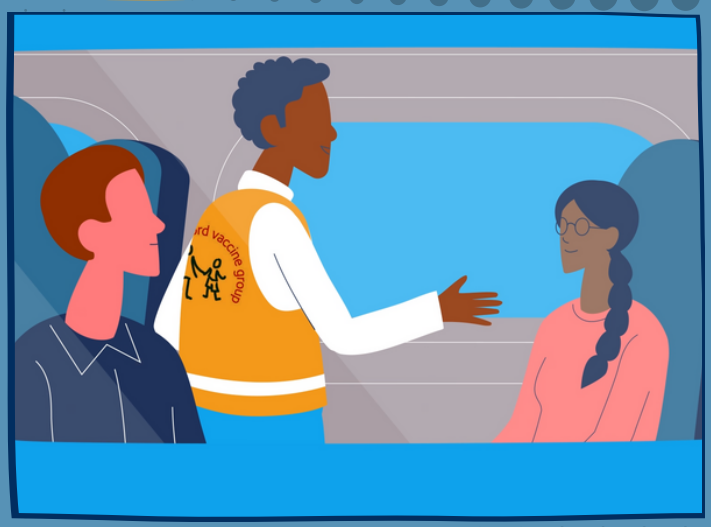
Then, a small group of healthy people, usually fewer than 100, receive the vaccine.



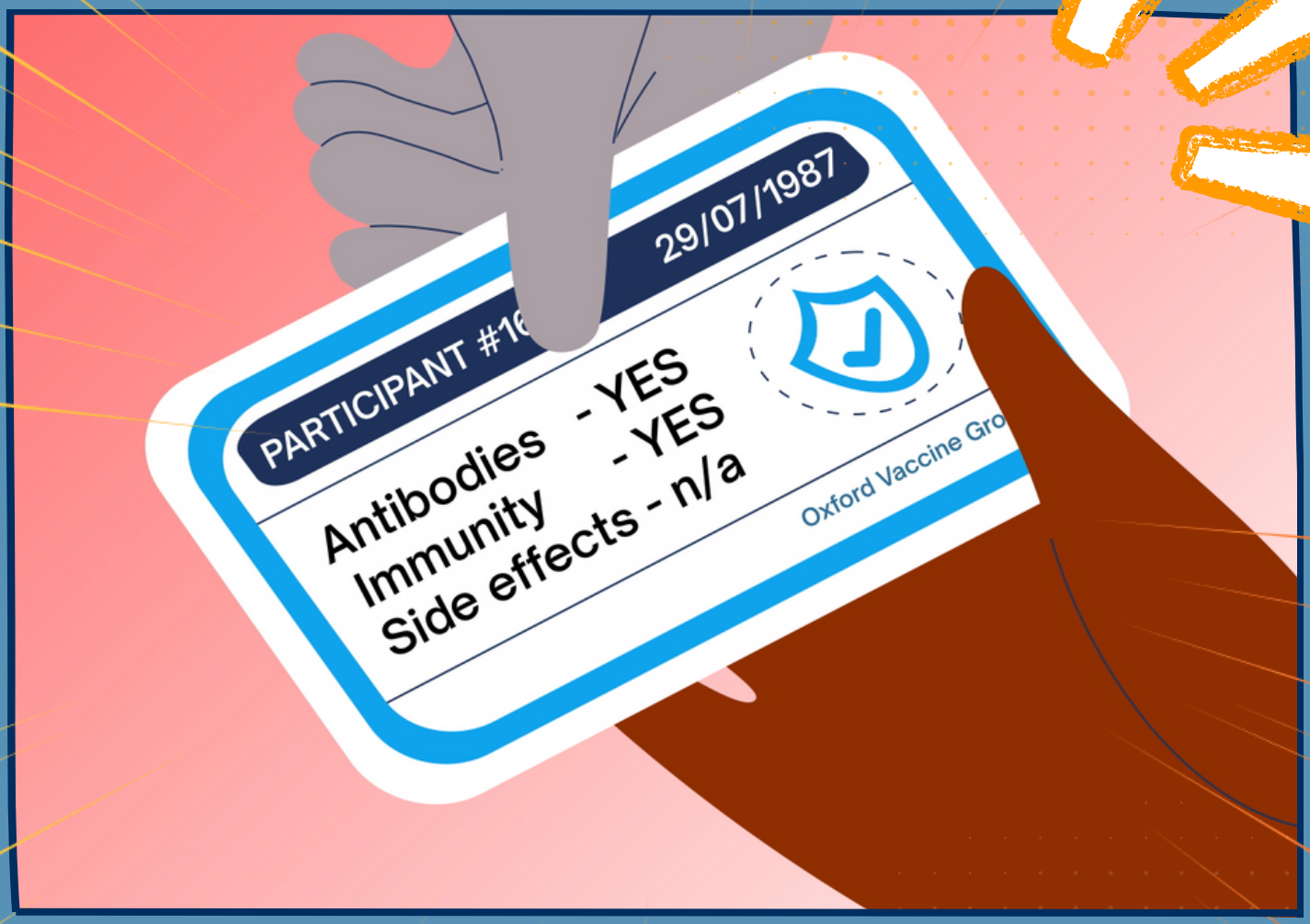
Doctors watch out for side effects, scientists get an idea of how the body's immune system responds.

Next, it's given to a larger group, usually a few hundred.

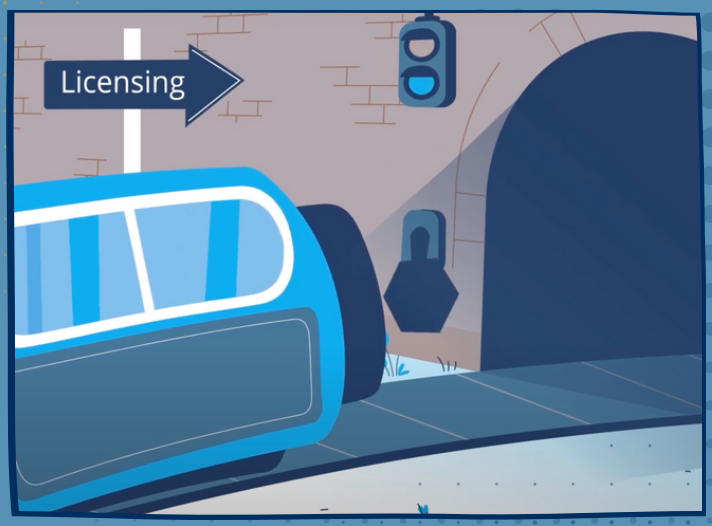
Here, our team continues to look at side effects and the body's immune response on a larger scale.



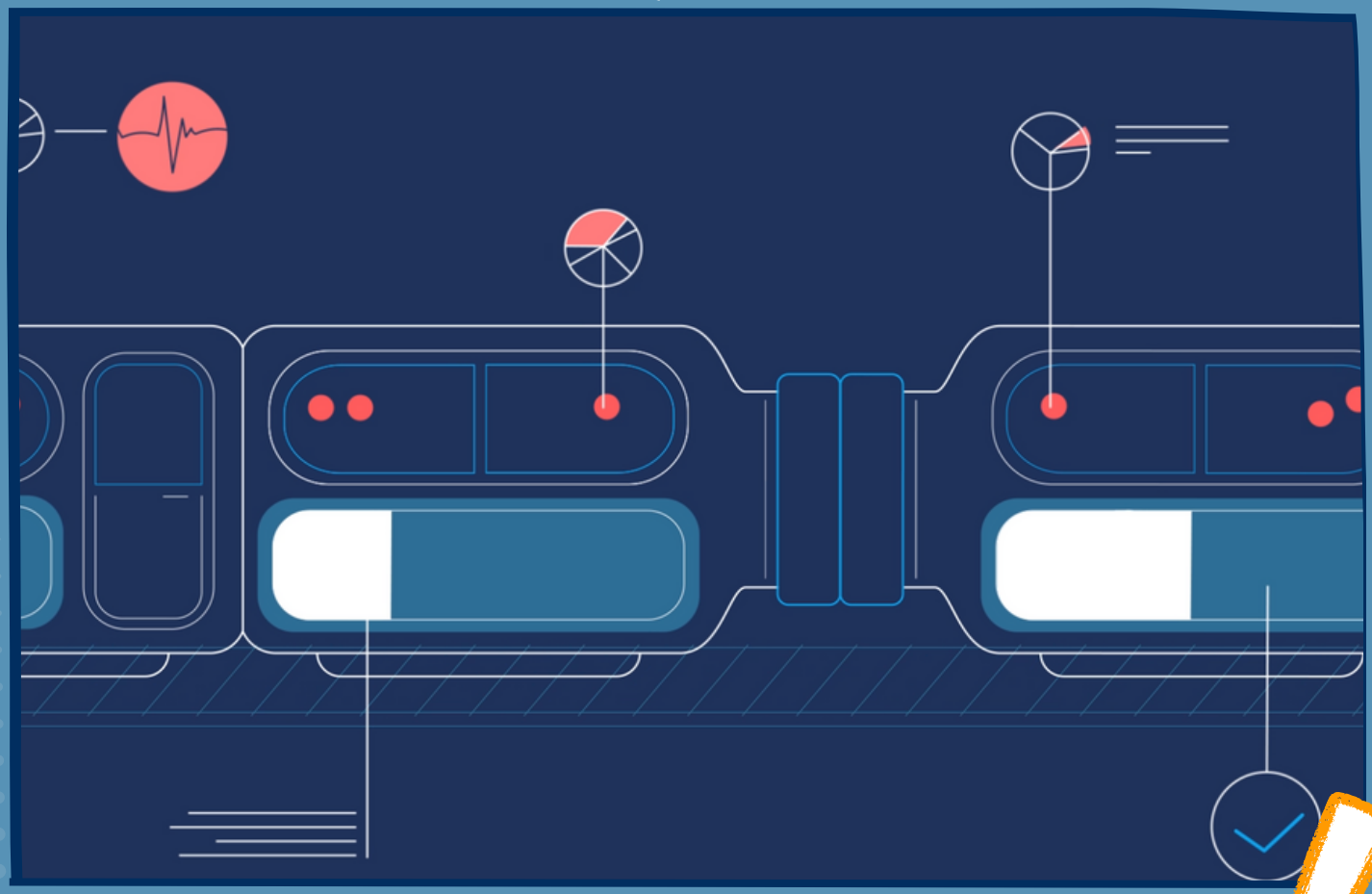
After that, an even larger group of people, sometimes thousands or even tens of thousands, receive the vaccine.



Our scientists want to work out how well the vaccine protects people! They also continue monitoring side effects.



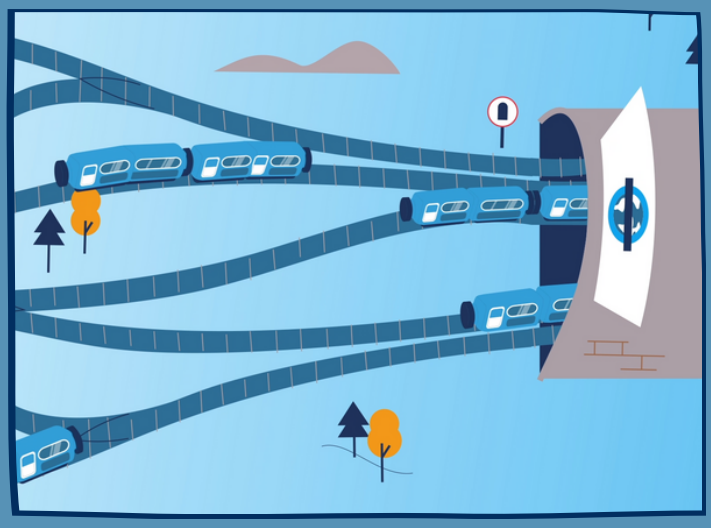
Following this comes a review by the agencies that oversee medical products.



If they find that the vaccine is safe and works well, they can award it a license.

Experts can then recommend its use if they think the vaccine is necessary for their country.

Regulators continue to monitor the vaccine even after it is licensed.



The vaccine manufacturer is required to report any unexpected or unwanted outcomes that may emerge.

Vaccines offer protection against serious diseases.

Our research protects families and future generations.

ensuring a healthier future for everyone. including you.

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