TO SUMMARIZE:

ANIMALS  ➔  HUMANS  ➔  PANDEMIC

THREE MAIN OPTIONS TO HAVE IMMUNITY

- RACE THROUGH IT
- DELAY & VACCINATE
- COORDINATE & CRUSH
RACE THROUGH IT

HUNDREDS OF MILLIONS OF DEATHS
- from the virus
- from the collapse of health care systems

DELAY & VACCINATE

HUNDREDS OF THOUSANDS OF DEATHS
Widespread testing to:
- identify carriers
- quarantine the infected and their “interactions”
- physical distancing and masks
- stop-and-go work periods

COORDINATE & CRUSH

LOW LOSS OF LIFE
Global pandemic = Global response
But...
Is the world we’re living a giant interconnected system?
Strong risks of continuous new waves

THE BEST OPTION IS N.2
Protection is continuous with vaccines
POSITIVE LEGACY: THE BREAKTHROUGHS

VACCINE

• Research on existing works
• Lots of money invested by the Governments and by the Pharmaceutical Industries
• Easier testing because of more disease
• Speed in the approval process

SO

• No steps skipped
• No corner cut

IT IS A NEW TYPE OF VACCINE: AN mRNA VACCINE
LIVING CELLS CONTAIN BOTH DNA AND RNA

DEOXY RIBONUCLEIC ACID
The double helix containing the genetic information

RIBONUCLEIC ACID
It decodifies the info existing in the DNA

mRNA Vaccine
It contains the instructions to produce one specific protein, the SARS-COV-2 spike protein

mRNA
A type of RNA which translates the info from DNA into proteins
OUR IMMUNE CELLS recognize this viral protein and make antibodies against it, so against SARS-COV-2

IF THE ACTUAL VIRUS introduces in our body, the antibodies recognize the spike protein and destroy it

mRNA vaccine DOES NOT CHANGE OUR DNA and it survives in our cells for a very short period of time – A FEW HOURS

Many traditional vaccines used a killed or weakened form of a virus to prompt an antibody response. mRNA vaccines DOESN’T WORK LIKE THIS: they do not contain the virus
SIDE EFFECTS after the vaccine? Probably yes but, as there is no virus in our cells, our immune system is triggered to respond, so our body is building immunity.

We need two shots to receive full protection but scientists still don’t know HOW LONG IMMUNITY WILL LAST.

Even with vaccines, THE PANDEMIC WILL END SLOWLY and part of this is because vaccination will not be immediate.

We are 7,8 billion inhabitants: we need 70/80% of people vaccinated to achieve some kind of herd immunity.