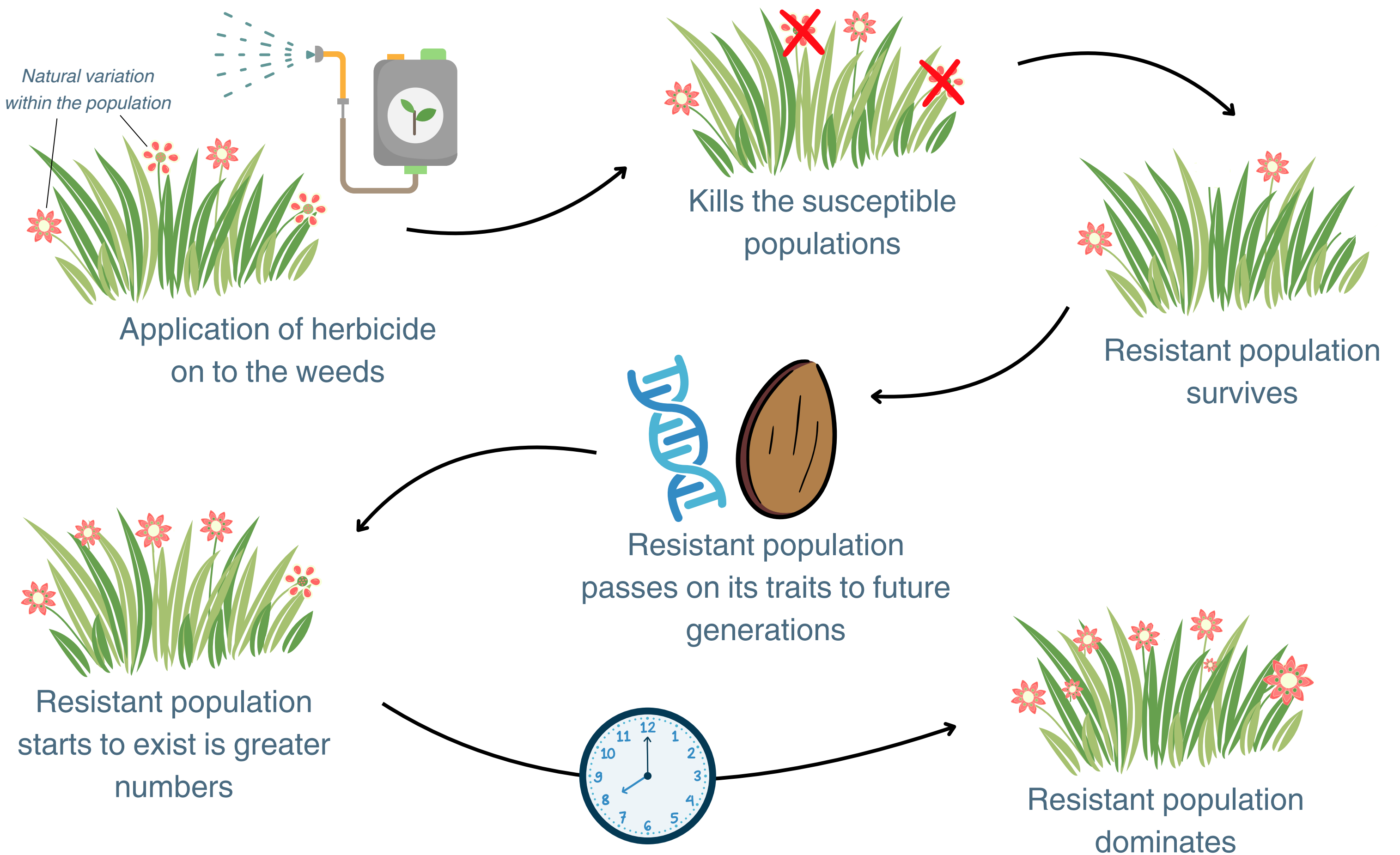


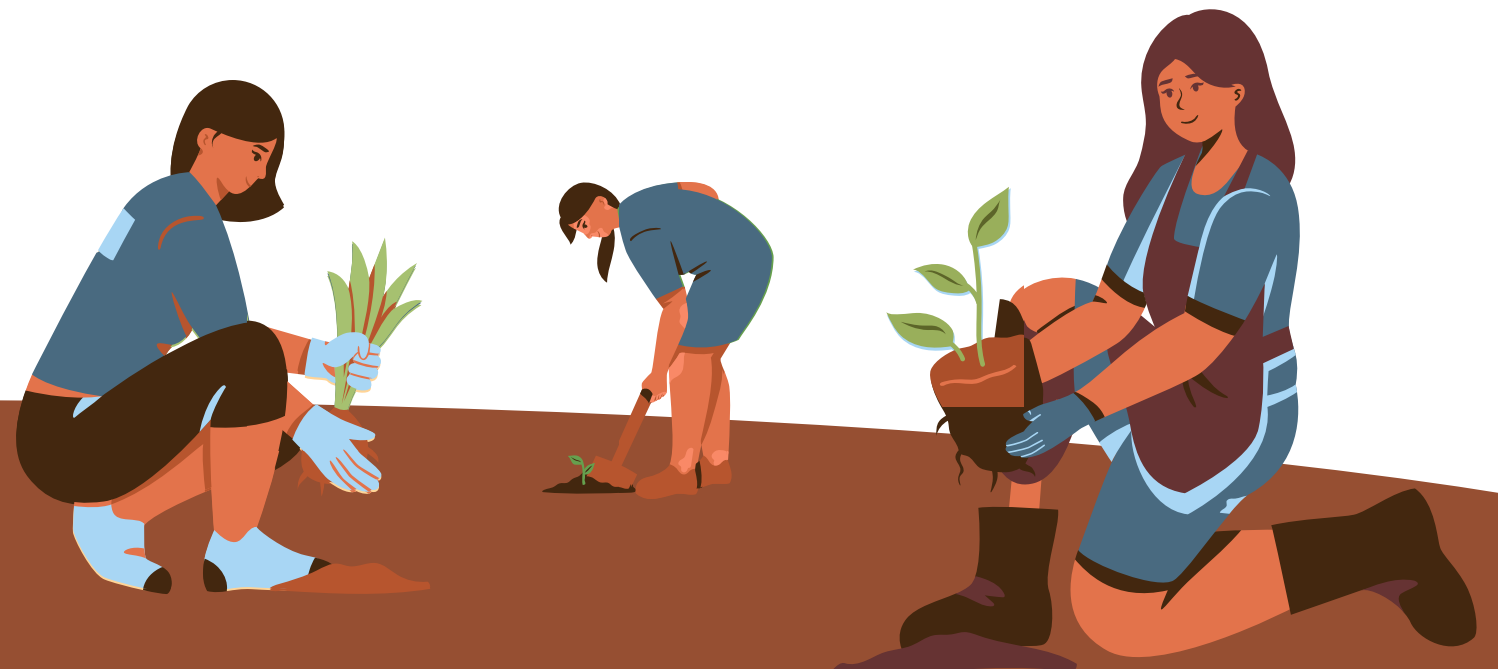
HOW DOES HERBICIDE RESISTANCE EVOLVE?

Herbicides do not cause resistance by changing the plant's genetic material, but by applying selection pressure.

Sometimes individual plants within a population have rare, but naturally occurring characteristics that allow them to survive herbicide applications (i.e. mutations, gene upregulation, etc.). The herbicides SELECT for the survival of these plants in a population. This is an evolutionary process that happens over time.



Sustained use of either the same herbicide or herbicides with the same site of action, favors survival and reproduction of resistant population.



Contact Breanne Tidemann (breanne.tidemann@agr.gc.ca) for more information.



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