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We Hate Mosquitoes, Do You?

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#WorldMosquitoDay

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Malaria claimed

2017	4,05,000 lives
2018	4,16,000 lives

An estimated
96 Mn symptomatic cases

over 40,000
dengue-associated deaths

occur yearly in over 129 countries

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Diseases Spread by Mosquitoes

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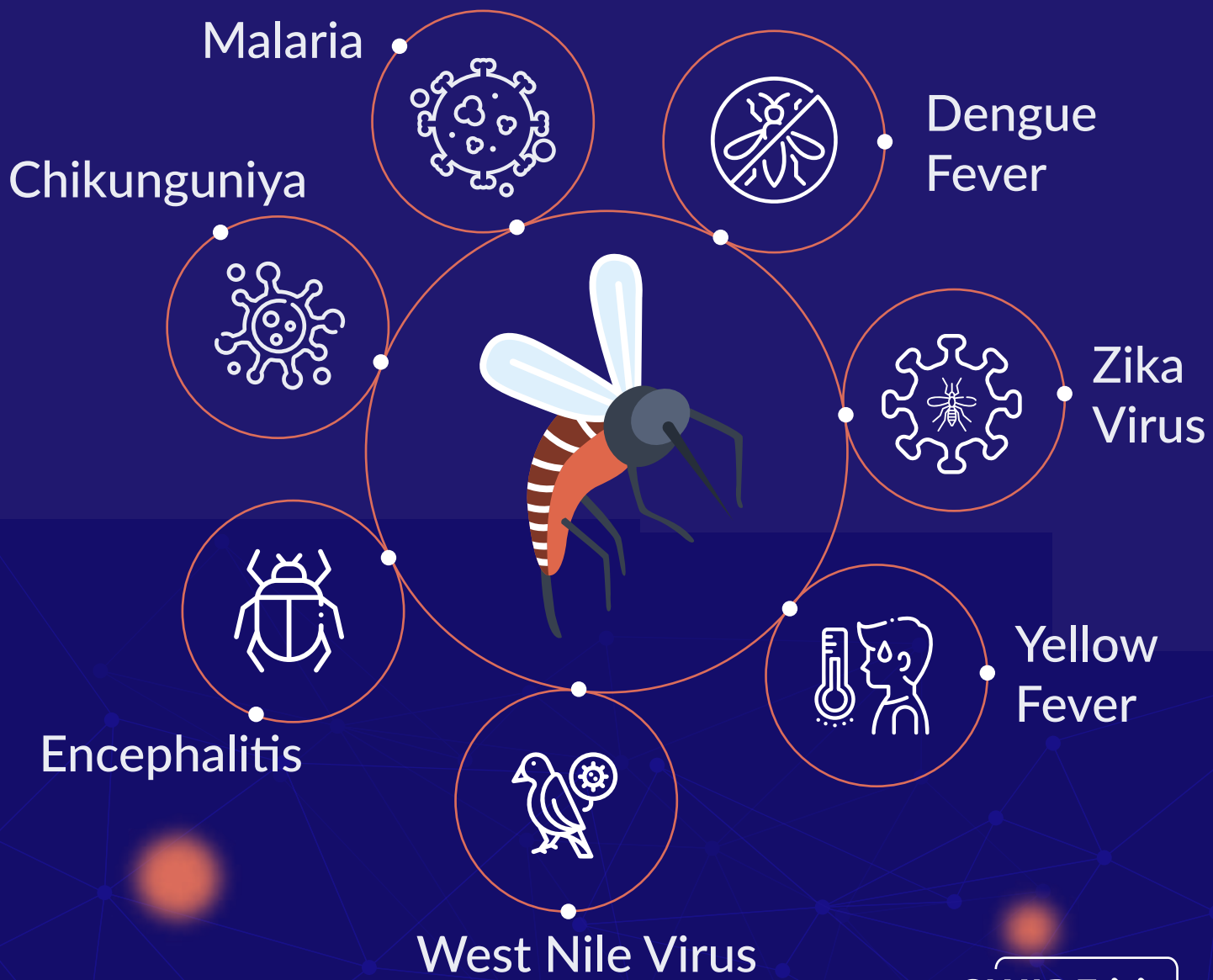

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Causes of Mosquito Infestation

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Still Water: Female mosquitos lay eggs in still water where if the infestation isn't correctly handled, it spirals out of control.

Destruction of Nature: It is suggested that the destruction of habitats & pollution have contributed to the development of mosquito-borne diseases.

Clogged Drains: Leaves, twigs, and debris left in gutters are an ideal habitat for mosquitoes.

Shady/Dark Areas: Mosquitoes prefer dark and shaded areas like the underside of leaves, dense weeds, or holes in the ground.

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How is WMP Eradicating Mosquito-Borne Diseases?

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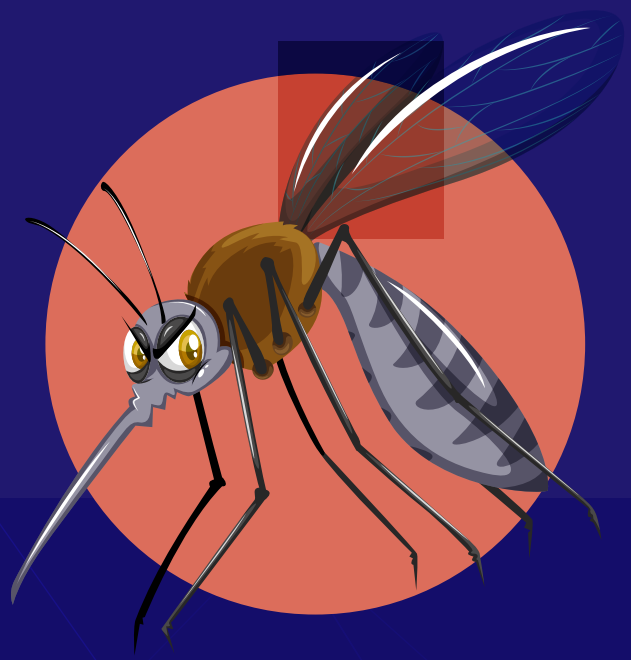

- A non-profit organization called the World Mosquito Program (WMP) strives to safeguard the world's population against diseases spread by mosquitoes.

- They breed Wolbachia-carrying mosquitoes in labs and modify diseases-carrying mosquitoes with Wolbachia bacteria to reduce their capacity to spread viruses significantly.

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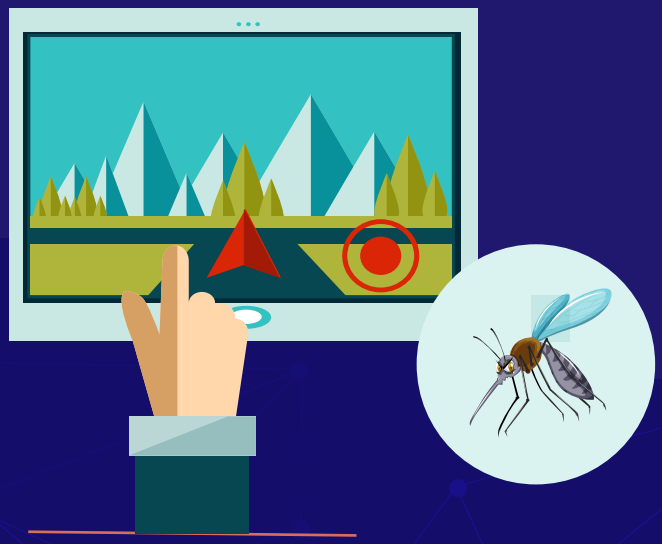
- They are interbred with local mosquitoes and dispersed in various places throughout the globe using local communities and pose minimal risk to humans and the environment.
- For the prevention of dengue fever, Microsoft Azure and Machine Learning are extensively used to model populated areas and identify the most effective release sites for disease-fighting mosquitoes.



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- The use of technology has reduced the time taken to identify and monitor release points from 3 weeks to 2 hours, helping WMP save millions of lives.

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Download the case study

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