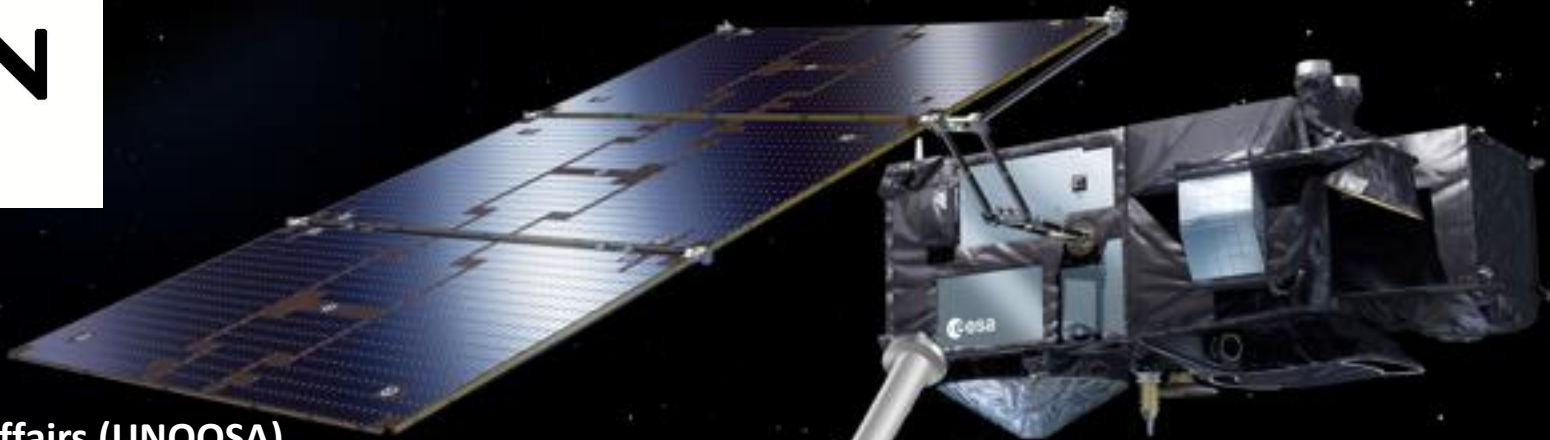


SPACE APPLICATION FOR DETECTING *Aedes* MOSQUITO RISK AREAS



www.dipteron.com

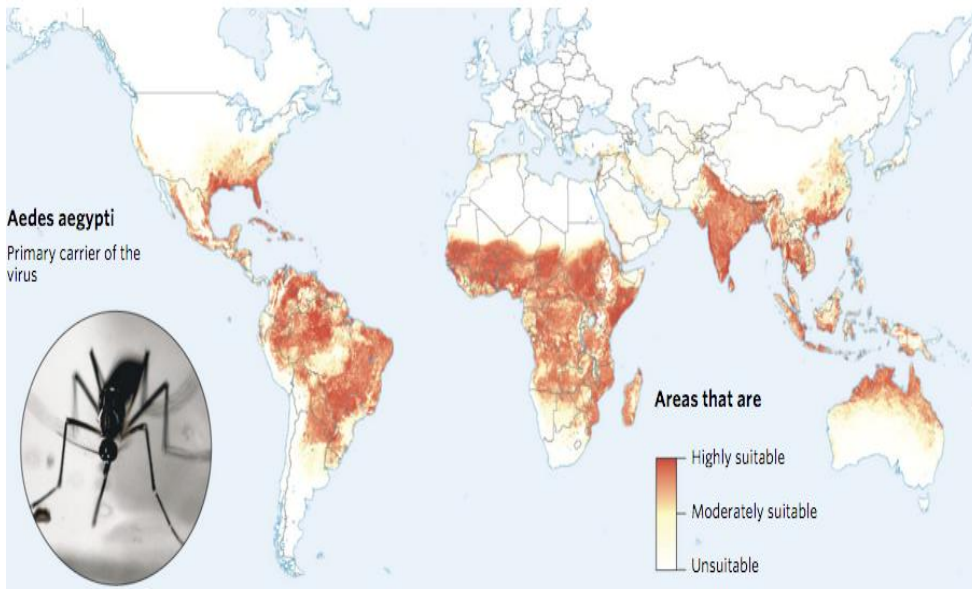


United Nations Office for Outer Space Affairs (UNOOSA)
Space4Health Webinar
14 May 2020
Ana Cristina Galhego Rosa, Founder & CEO



SCENARIO

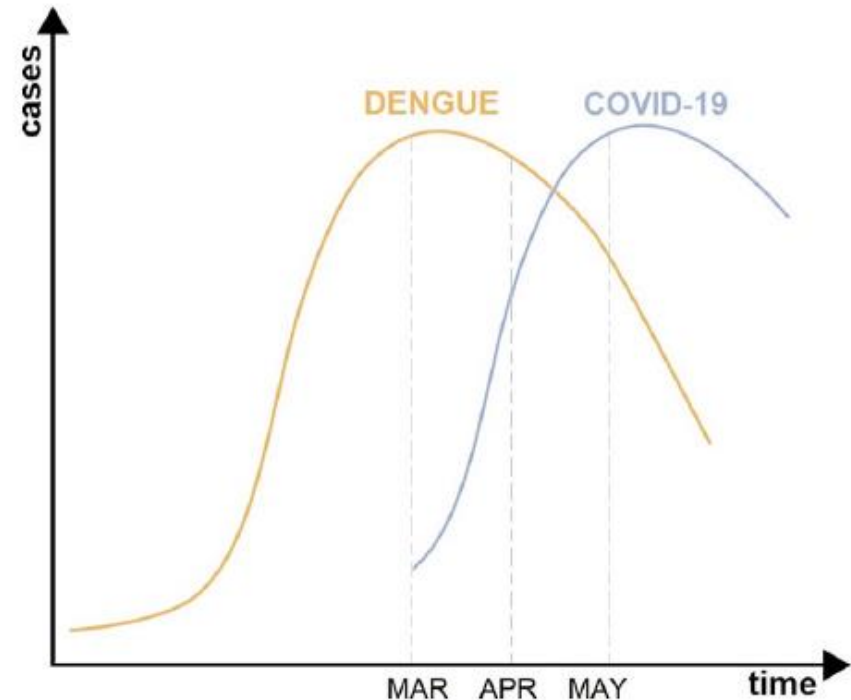
AEDES (Dengue, Zika, Chikungunya) DENGUE



Source: sciencedirect.com

> 50 million/year people infected
40% of diseases on the planet

BRAZIL (MAR – MAY 2020)



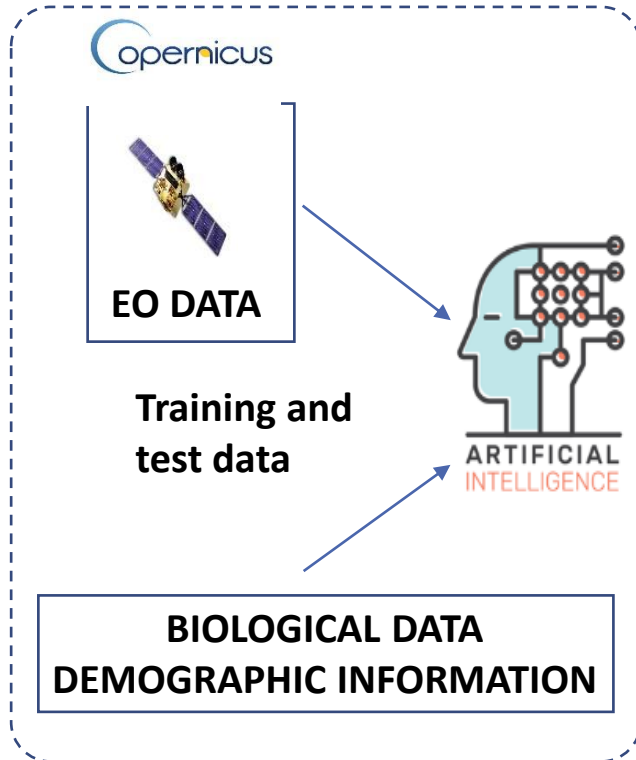
Source: Covid-19 and dengue fever: A dangerous combination for the health system in Brazil

Similar Clinical and laboratory features

MONITORING SOLUTION ADOPTED

BACK-END

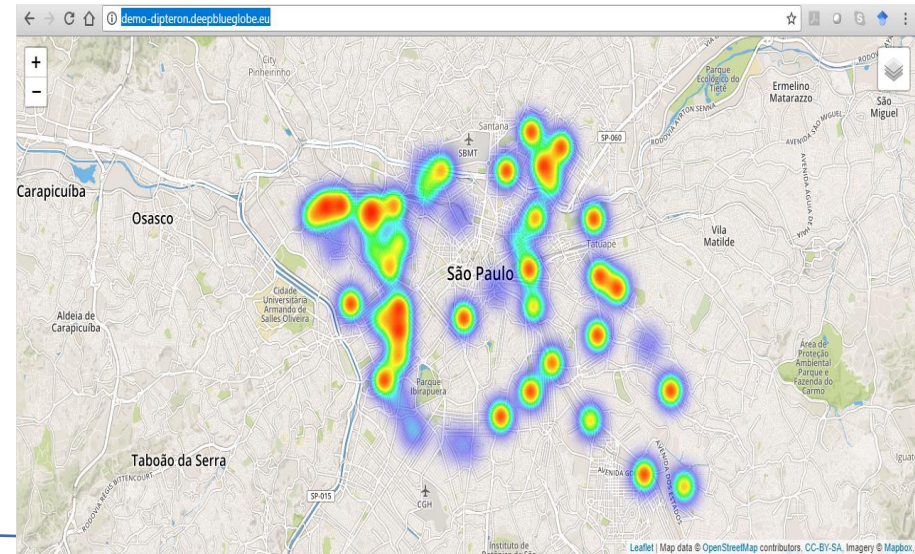
FRONT-END



PREDICTION MODEL
4 weeks in advance

NEW EARTH OBSERVATION
DATA

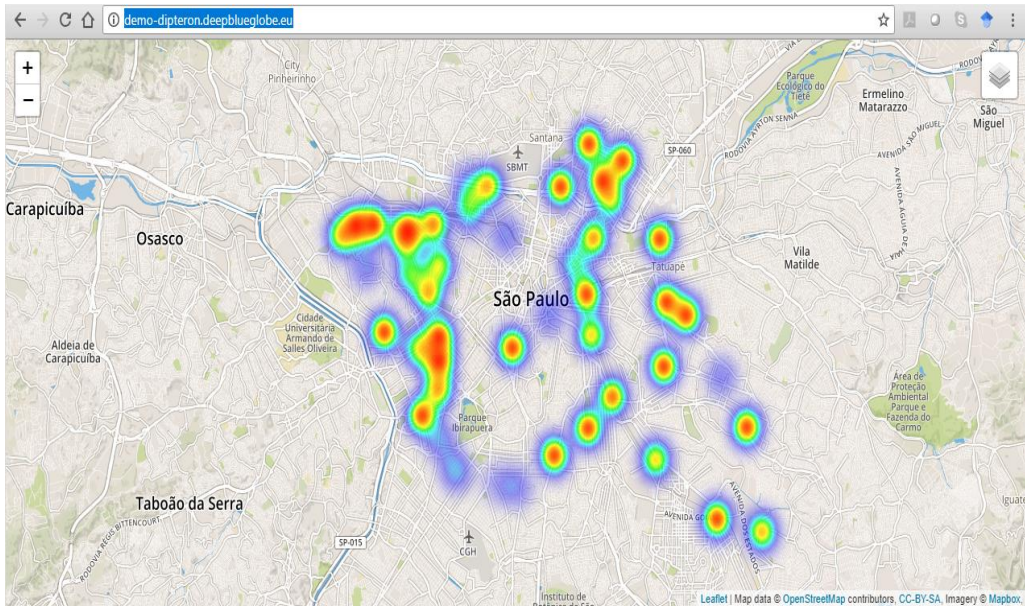
Dipteron São Paulo city map



WEB PLATFORM

GOVERNMENTAL AND NON-GOVERNMENTAL CUSTOMERS

DIPTERON São Paulo city map Web Application



- Early Warning System for *Aedes* Outbreaks
MITIGATION ACTIONS

INFORMATION SERVICES:

- Advance localization of outbreaks
- Visualization of potential breeding sites
- Access number of cases in areas



São José dos Campos city
PILOT

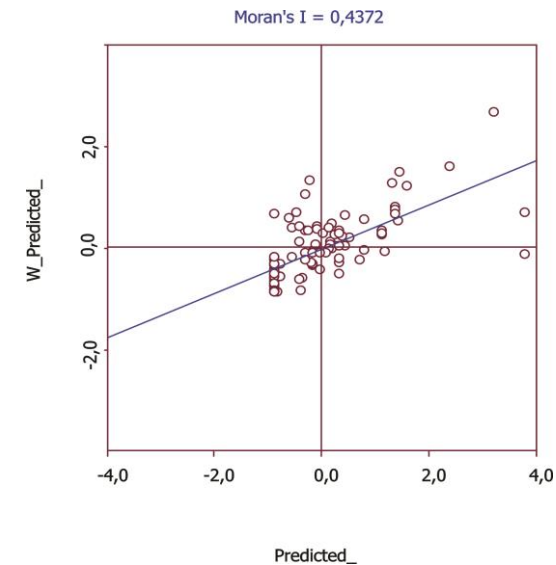
BENEFITS FOR SPACE4HEALTH

EARTH OBSERVATION SATELLITES (EO)

- accurate and timely information in wide areas.
- potential breeding sites spatial analysis
- Help to plan and support logistical emergency management
- Monitoring and updates of environmental parameters
- Logistical emergency management operations
- Mathematical model updates

DIPTERON PLATFORM (EO + AI)

- More accurate results
- Much higher analytical results
- Lower cost benefit
- Reduced time for the result



Saves money by reducing the costs of campaigns and remediation actions

Saves lives by minimizing the risk of *Aedes* viral diseases

THANK YOU!



www.dipteron.com

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PARTNER