SPACE APPLICATION FOR DETECTING AEDES MOSQUITO RISK AREAS

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United Nations Office for Outer Space Affairs (UNOOSA)
Space4Health Webinar
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SCENARIO

AEDES (Dengue, Zika, Chikungunya)
DENGUE

> 50 million/year people infected

40% of diseases on the planet

BRAZIL (MAR – MAY 2020)

Similar Clinical and laboratory features
MONITORING SOLUTION ADOPTED

BACK-END

EO DATA

Training and test data

BIOLOGICAL DATA
DEMOGRAPHIC INFORMATION

NEW EARTH OBSERVATION DATA

PREDICTION MODEL
4 weeks in advance

FRONT-END

Dipteron São Paulo city map

WEB PLATFORM
GOVERNMENTAL AND NON-GOVERNMENTAL CUSTOMERS

DIPTERON São Paulo city map
Web Application

INFORMATION SERVICES:

- Early Warning System for *Aedes* Outbreaks
- Mitigation Actions

São José dos Campos city
PILOT

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

DIPTERON

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