

# **FKMCD-Oxitec Public Educational Webinar #12**

Community Partnerships: The Role Communities Play in Our Pilot Project





OXITEC

# Introductions – Panelists With You Today









Andrea Leal
Executive Director
FKMCD



Greg Daniels Owner Cudjoe Bee



George Fernandez
Co-Owner & Chief Operating Officer
The Key West Butterfly & Nature Conservatory



Rajeev Vaidyanathan Director of U.S. Operations Oxitec



Kevin Gorman
Chief
Development
Officer
Oxitec



Meredith Fensom Head of Public Affairs Oxitec

### FKMCD-Oxitec Public Educational Webinar Series





FKMCD and Oxitec are hosting a series of public educational webinars to share information with residents of the Florida Keys and provide forums to answer questions.

- Webinars are open to everyone.
- Webinars are recorded and made available for everyone after the event.
- All questions relating to the webinar topic(s) will be answered (some in batches if questions are similar).
- If time runs out, we will accept questions in writing via florida@oxitec.com.
- Questions and answers will be published in writing after the event with external or related online resources/references.

#### **Upcoming:**

Our webinar series continues in April, May & June!





#### Welcome to Webinar #12!

# Today's Agenda:

- Brief Presentation
- Roundtable Discussion
- Your Questions Answered

Documentation, resources, references, and other information are available at keysmosquitoproject.com

# Why now, Why the Florida Keys? – Health and the Environment



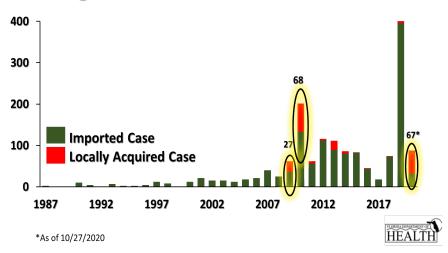


OXITEC

- Dengue is an ongoing challenge with over 65 confirmed locallyacquired cases in Monroe County in 2020
- The threat of other diseases such as Zika, chikungunya and yellow fever persists
- Insecticide resistance in local mosquitoes
- Need more tools in our toolbox

- Environmental impact is a major consideration, including for human health
- Using species-specific tools minimizes harmful impacts
- Nine national and state agencies concluded Oxitec male mosquitoes pose no risk to human or environmental health

#### **Dengue Cases in Florida Since 1987**





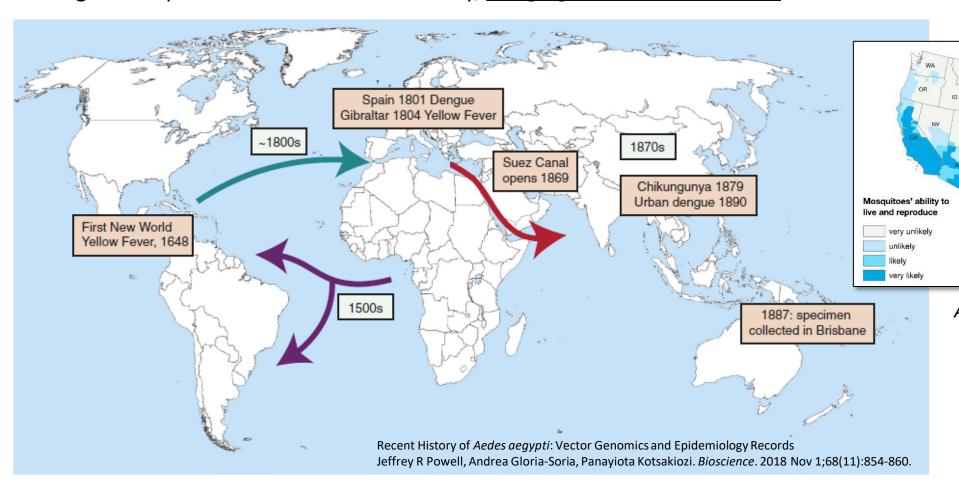
#### The Aedes aegypti Mosquito: an Invasive Species in Florida







**Aedes aegypti is not native to the Americas.** It was most likely transported from Africa by Portuguese ships sometime in the 16<sup>th</sup> century, bringing viral diseases with it.



Aedes aegypti in Florida and surrounding U.S. states today.

https://www.cdc.gov/chikungunya/resources/

vector-control.html

### Oxitec's *Aedes aegypti* Mosquito Technology (OX5034)







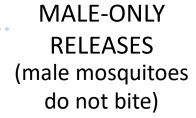




SAFE, NON-TOXIC, NON-**ALLERGENIC** 









TRACEABLE IN THE FIELD



**SELF-LIMITING IN** THE ENVIRONMENT



- No females produced
- Low-tech, egg-based devices enabled

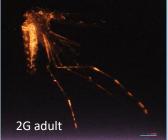




- Easy track-and-trace in the field
- Non-toxic, non-allergenic







## OX5034 Demonstrated Effectiveness & Safety

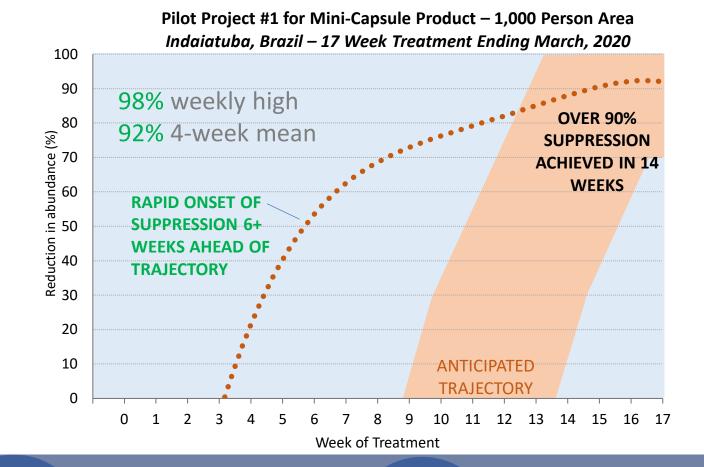






- ✓ Safe no unintended impacts
- ✓ Males only no female release
- ✓ Fully self-limiting no persistence
- ✓ Significant suppression (see graph)
- √ 90% reduction in operations
- ✓ 94%+ public acceptance





6 Weeks

Faster to Suppression than OX513A

90%

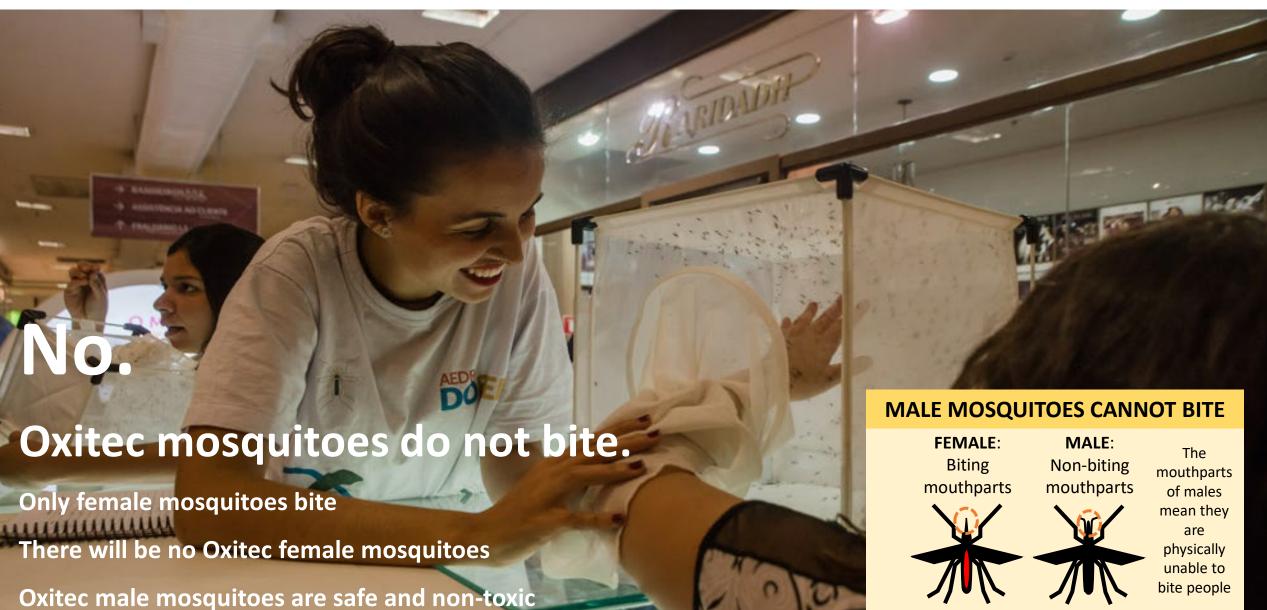
More Efficient Production & Deployment

## Do Oxitec Mosquitoes Bite?





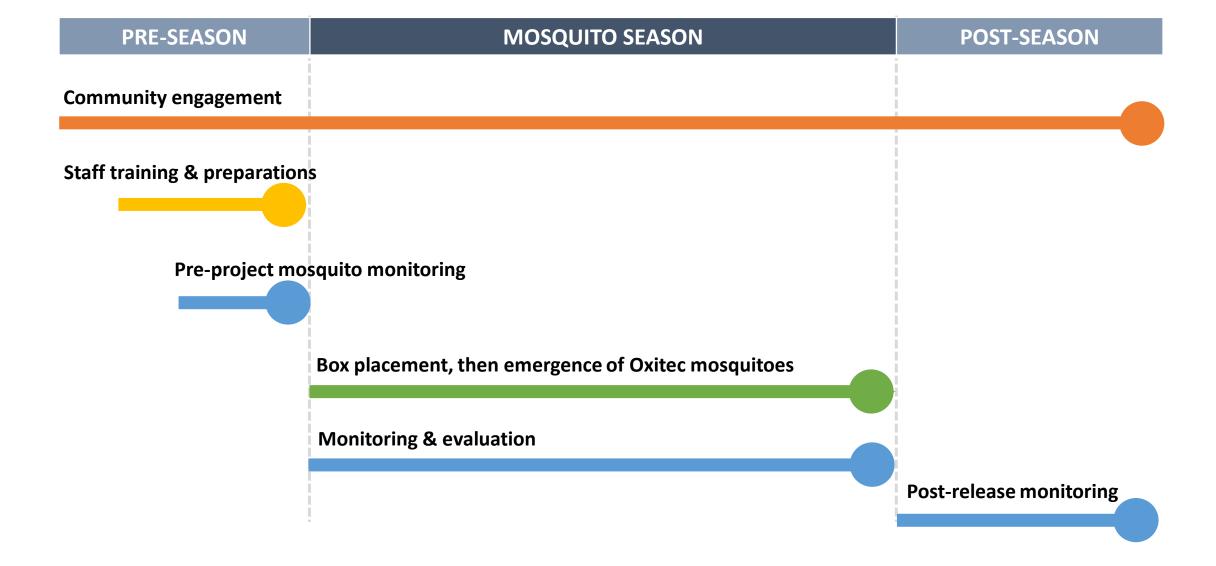




# Florida Keys Pilot Project Timeline - 2021







#### Recent Community Engagement



















FKMCD - #Oxitec Public Educational Webinar #11

55 views • 2 weeks ago

FKMCD - #Oxitec Public Educational Webinar #10:...

80 views • 1 month ago

FKMCD - #Oxitec Public Educational Webinar #9:...

85 views • 3 months ago

FKMCD - #Oxitec Public Educational Webinar #8:...

118 views • 4 months ago

Virtual Tour: Inside #Oxitec Labs Worldwide

585 views · 4 months ago

FKMCD - #Oxitec Public Educational Webinar #7:...

77 views • 4 months ago















Beginning in spring 2021, the Florida Keys Mosquito Control District (FKMCD) and Oxitec will evaluate the effectiveness of Oxitec mosquitoes to control the invasive, disease-spreading Aedes aegypti mosquito in the Florida Keys.

- · Oxitec mosquitoes are safe and self-limiting.
- · Like all male mosquitoes, Oxitec's male mosquitoes do not bite. Female mosquitoes bite
- · The Aedes aegypti mosquito is the known vector of diseases including Dengue and Zika becoming more resistant to traditional pesticides.

Please visit keysmoquitoproject.com for additional resources.

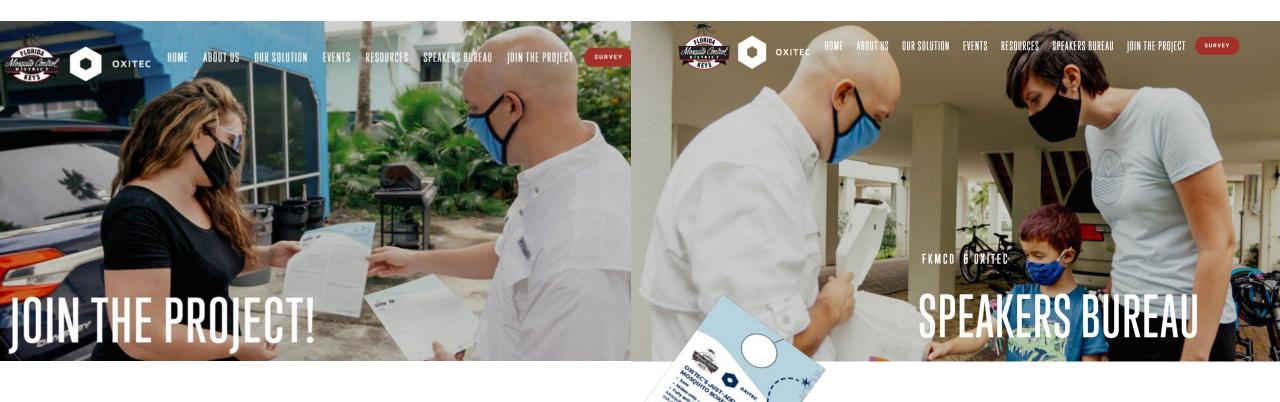




# Get Involved!







*What is your name?	
How would you like to be involved?*	
Please send me updates	
I would like to host a box	
I would like host a trap	
I would like to volunteer	
*Email address	

- ✓ Request a box
- ✓ Request a trap
- ✓ Sign up for updates
- ✓ Volunteer as a Project Ambassador

## Beneficial Insects: Barometers for our Environment



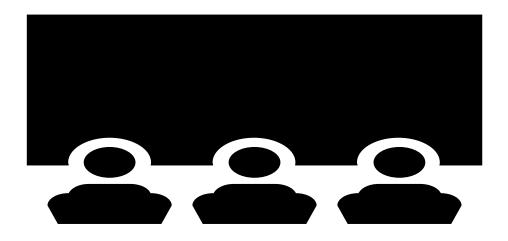


- Oxitec's mosquitoes are a biological mating-based tool there are no chemicals
  - Not prone to resistance development
  - Can be integrated with other tools, maintaining effectiveness through a multi-faceted approach



# Clips: Butterfly Conservatory & Cudjoe Bee













#### Question and Answers





Any and all questions on this evening's topics are welcome!

(If we run out of time tonight, email <u>florida@oxitec.com</u> and we will attempt to answer your question if it isn't included in the growing FAQ or post-event summary we publish online at <u>oxitec.com/florida</u> and <u>keysmosquitoproject.com</u>)