Let’s Break Dengue Together
Break Dengue is a partner and catalyst in enabling and implementing integrated solutions towards the WHO 2020 dengue objectives.

Break Dengue’s mission is to connect, share and develop innovative solutions to dengue fever.

Vector control, surveillance, drugs, diagnostics and vaccines all hold exciting potential but none can solve the problem alone. **We need an integrated approach.**
RECOGNITION FOR AN INNOVATIVE APPROACH

Selected as WHO Global eHealth Report case study in 2016

Winner, “Most impactful emerging or global initiative” at eyeforpharma 2015

Winner, the best use of social media in Healthcare, Shorty Awards, 2014
WHY WE SHOULD ALL CARE ABOUT DENGUE

The World Health Organization (WHO) estimates that about 40% of the world’s population is at risk of being infected with dengue. All age groups are at risk.

ABOUT 2.5% OF THOSE INFECTED BY SEVERE DENGUE DIE, AND THERE IS NO CURE FOR THE INFECTION.
WHY WE SHOULD ALL CARE ABOUT DENGUE

Global estimated cost of Dengue

$8 billion
Total annual global cost of dengue

$752 million
nonmedical cases (8%)

$4,093 million
hospitalized nonfatal cases (46%)

$2,987 million
ambulatory nonfatal cases (33%)

$1,055 million
fatal cases (11%)

Estimated cost per individual dengue case

$84,000
for fatal cases
($30,414 for children and $75,000 for adults)*

$70
hospitalized cases

$51
ambulatory cases

$12
cases outside the health care sector

Note: Each childhood dengue death represented 28 expected years lost, and each adult death meant 18 expected years lost.

ABOUT DENGUE TRACK
DENGUE TRACK – A SELF LEARNING DIGITAL SURVEILLANCE PROGRAM

Validation and/or complementing
We would like to use your location.

We see you connect from Grenoble, France.

Dengue is not currently present in your country but there may be imported cases.

That’s right, and I’m planning on traveling to a region that has endemic dengue.

If you’re traveling to a region with dengue, it’s smart to know the risk. We will now redirect you to a page where you can find the "Dengue Travel" toolkit, which explains how to protect yourself against dengue, and you can also refer to Dengue Tracker map to see if anyone is reporting dengue in the area you are traveling to.

You will be redirected in 2 seconds.

Did you know that?

Your experience about dengue will help us to track the disease around the world.

How? Your experience will be used on Dengue Track, a collaborative tool to track dengue around the world.

Continue to help us by subscribing to Dengue Track. You can update your experience later, and be alerted to dengue in your area.

Your email has been encoded.

Thanks, You’re a tracker now.
TARGETED AND INFORMATIVE TOOLKITS

RISK OF DENGUE IN TROPICAL COUNTRIES

But the risk of dengue is not only limited to tropical countries. The number of reported dengue cases is increasing. The disease spreads to new areas, and explosive outbreaks are occurring. There have been cases reported in the U.S.

A THREAT FOR THOSE WHO TRAVEL

Among travelers returning from low- and middle-income countries, dengue is the second most diagnosed cause of fever after malaria.

PREVENTION FOR

Use chemoprophylaxis can prevent dengue.

If you travel to endemic areas you are at risk of contracting dengue.

Risk increases with long duration of travel and possible exposure, such as during epidemics or the rainy season.

Travellers going to the tropics are advised to avoid mosquito measures.

Use insect repellent following instructions on the label.

KEEP DENGUE AWAY

The main method to control or prevent the transmission of dengue virus is to combat vector mosquitoes through:

ANYONE CAN BE INFECTED WITH THE DENGUE VIRUS

Almost half of the world’s population is now at risk because they live in dengue endemic regions.

More than 100 countries are endemic but dengue cases are reported in several non endemic countries.

The global incidence of dengue has grown dramatically in recent decades.

The actual numbers of dengue cases remains underreported and many cases are misclassified.

One recent estimate indicates 300 million dengue infections per year.

Dengue is a mosquito-borne viral infection.

Dengue is found in tropical and sub-tropical climates worldwide, mostly in urban and semi-urban areas.

The infection causes flulike illness, and occasionally develops into a potentially lethal complication.

There is no specific treatment for dengue / severe dengue.

But early diagnosis and access to proper medical care lowers fatality rates below 1%.

Dengue prevention and control depends on effective vector control measures.

A vaccine is available in some countries for those who are 9-45 years old living in endemic areas.

DENGUE IS DIFFICULT TO RECOGNIZE

Dengue is difficult to recognize because the early symptoms of fever, headache, body aches are not specific.

Dengue may be misdiagnosed as other illnesses: influenza, typhoid, Zika, malaria ...

75% of dengue infections are asymptomatic

20% are mild - moderate dengue fever

5% are severe dengue - 100,000 people with severe dengue require hospitalization each year and 2.5% of people will die

SYMPTOMS

High fever

Severe headache

Pain behind eyes

Skin rashes

Muscle and joint pains

Vomiting

WARNING SIGNS OF PROGRESSION TO SEVERE DENGUE

Applying insecticides around your home.

Emptying storage containers on a weekly basis.

Coversing, emptying and cleaning domestic water containers by storing water in a safe container.

Coversing, emptying and cleaning domestic water containers by storing water in a safe container.

TARGETED AND INFORMATIVE TOOLKITS

Powered by The Synergist
DYNAMIC DENGUE MAP

We are helping to build the ultimate dengue tracking system - and we need you.

You can help us to reduce the impact of dengue fever by playing your part in a global effort to map the disease. By telling us about dengue cases near you, we can paint a true picture of dengue fever and predict future outbreaks.

Good News
COMPLETE AND SCALABLE MODEL

**Any geographic scope**
- Country
- Regional
- Community

**Any stakeholder**
- Health authorities
- Civil society / NGOs
- Citizens
- Community on and off-line

**Any channel type**
- SMS
- Mobile apps
- Mobile site
- Custom apps

**Any channel topic**
- Disease specific (Zika, dengue, etc.)
- Diagnostic based (e.g. Healthmap)
- Health
- Travel information
- News
## 6 REASONS TRACK DENGUE IS VERY INNOVATIVE

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Actionable push-pull surveillance</strong></td>
<td>Combines close to real time data and the ability to push it to the right audience at the right time</td>
</tr>
<tr>
<td><strong>Integrates multiple sources</strong></td>
<td>to deliver an overall correlation higher that the sum of individuals ones</td>
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<tr>
<td><strong>Integrates all stakeholders</strong></td>
<td>and allows them to take an active role. Authorities and grassroot NGOs can use it at local level</td>
</tr>
<tr>
<td><strong>Value for audience</strong></td>
<td>This is not about “likes” or “RT”, this is actionable surveillance data and actual information and value for citizens</td>
</tr>
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</table>
| **Scalable model** | This is a pilot to be extended  
  ● to all digital channels: sms, apps etc  
  ● to other diseases eg. Zika |
| **Self-learning model** | Each time we add data and submit it to the audience, the audience react, endorse it or not. The system permanently improve accuracy |
JOIN THE FIGHT
BREAK DENGUE CALLS ON YOU AS A PARTNER

Help us generate visibility for Dengue Track and use it to support your work, bring real value to your audiences, and so we can better track the disease.

What you can do:
- Use Dengue Track and tell us about cases near you
- Embed Dengue Track and the Dengue Track Map on your website
- Share Dengue Track on your channels and among your networks
- Design Dengue Track specific-activities around your events and happenings
- Recruit Dengue Trackers through contests, games etc.
- Contact us for custom needs or ideas

INSTALL DENGUE TRACK ON YOUR WEBSITE
The Synergist brings together stakeholders that can make a difference. These include corporations, academics, other experts, medical professionals, patients and NGOs.

Our main role is to act as incubator: we identify the right people and organisations, bring them together, provide overall strategic direction and co-ordination.
Thank You

CONTACT US

Break Dengue is an open platform to all: scientists, health-care providers, patients and relatives, journalists, industry and anyone concerned about the problem of dengue. Dengue is the fastest-growing vector-borne infection with estimated 390 million infections every year.

Share an idea, learn more about Break Dengue, work with us or support us

bdteam@thesynergist.org