

Wednesday, 27 March

Plenary 2: Operational Forecasting Systems in the Urban Environment

Asian Megacities presentation: Towards an Operational Urban Flood Forecasting System


Dr. Amir Givati, Director of flood modelling, Climacell

**M I C R O
W E A T H E R**



**G L O B A L
C O V E R A G E**



 climacell

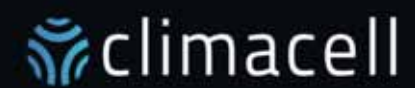
March 2019



ClimaCell Global Urban Flood Forecasting


Asian Megacities: Towards an Operational Urban Flood Forecasting System


Dr. Amir Givati | Director of Flood Modeling



CLIMACELL AT A GLANCE

 **Global leader** in micro-weather data

 Boston, Tel Aviv, Boulder
Colorado

 80 Employees

TRUSTED BY:

jetBlue



nationalgrid
partners

 DELTA



 AUTODESK.



EVERYTHING IS A POTENTIAL WEATHER SENSOR

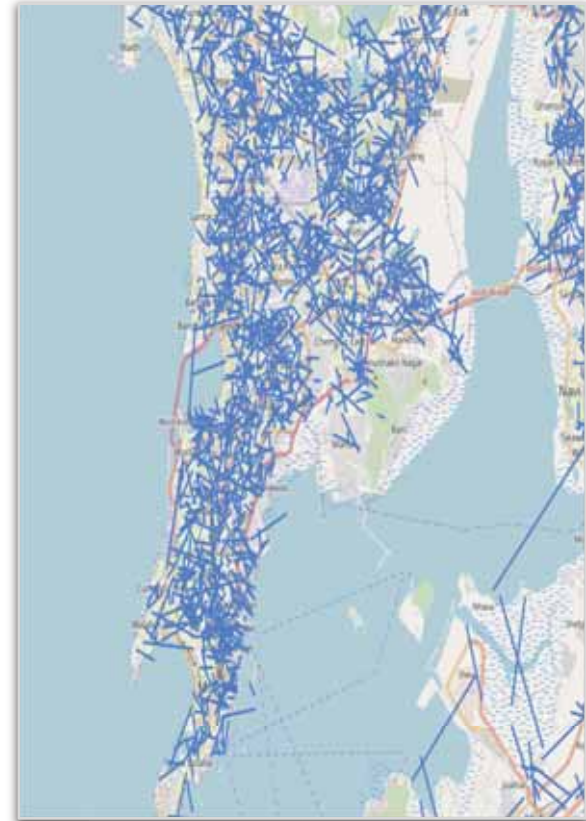


DISTRIBUTED SENSING NETWORKS



A SINGLE WEATHER STATION FOR THE ENTIRE CITY

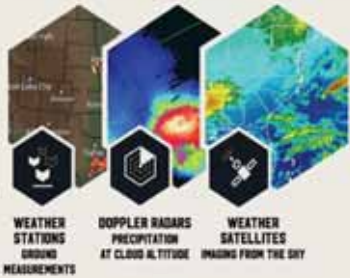
Mumbai



**CLIMACELL SOURCES
THOUSANDS OF WIRELESS TRANSMISSIONS SENSITIVE TO
WEATHER**

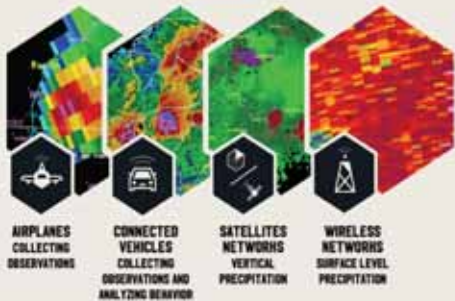
DATA

PUBLICLY AVAILABLE DATA FROM TRADITIONAL SENSORS



+

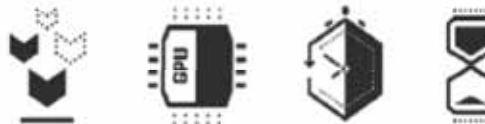
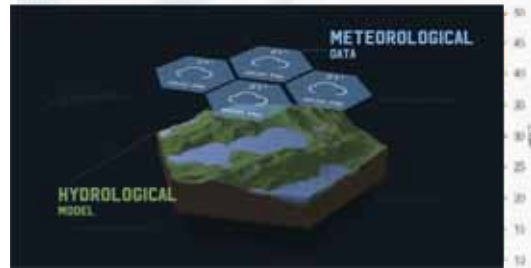
DATA COLLABORATORS + CLIMACELL PROPRIETARY ALGORITHMS



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MODELS



PRODUCTS

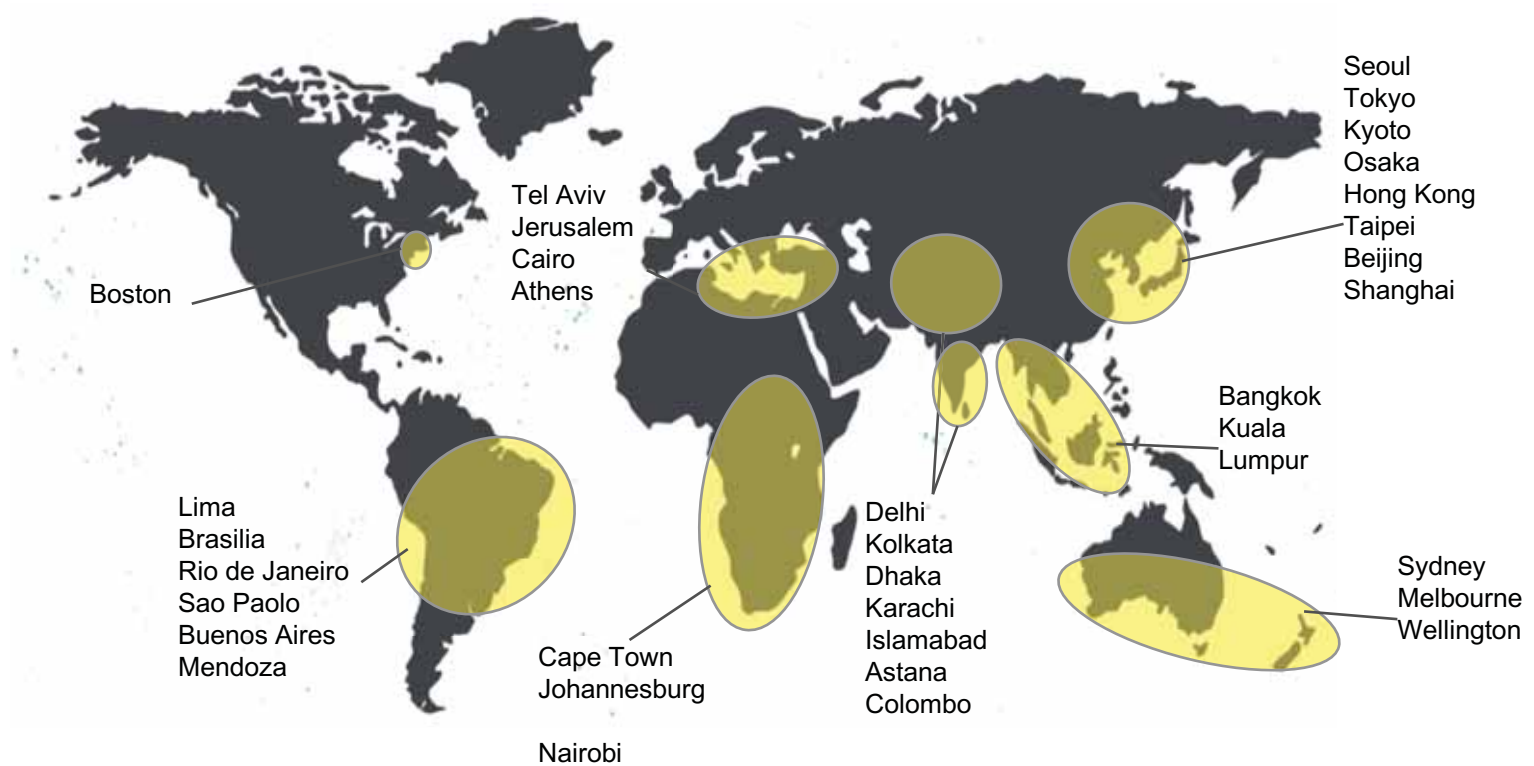


maCell Global Urban Flood Forecast



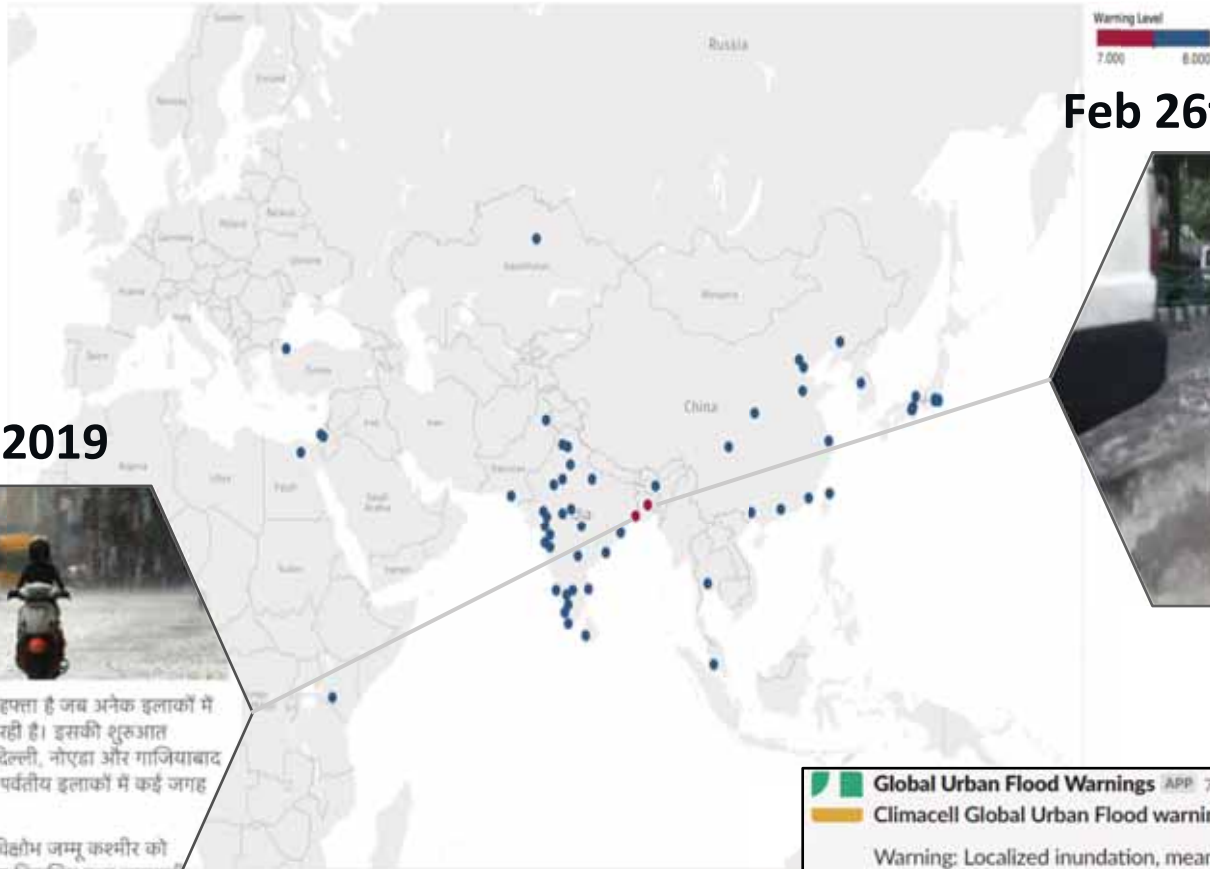
GLOBAL URBAN FLOOD FORECASTING

COVERING 450 CITIES, +500M LIVES



GLOBAL URBAN FLOOD FORECASTING

HYPER-LOCAL ALERTS 48H IN ADVANCE



Feb 26th, 2019

Feb 25th, 2019



उत्तर भारत में यह लगातार चौथा हफ्ता है जब अनेक इलाकों में एक साथ बारिश देखने को मिल रही है। इसकी शुरुआत सोमवार को ही हो गई थी, जब दिल्ली, नोएडा और गाजियाबाद हित उत्तर भारत के मैदानी और पर्वतीय इलाकों में कई जगह बारिश हुई।

समय एक सक्रिय पश्चिमी विक्षोभ जम्मू कश्मीर को चकर रहा है। इसके कारण विकसित हुआ चक्रवात का क्षेत्र हरियाणा और पंजाब के ऊपर हवाओं में एक ट्रफ गंगा के मैदानी इलाकों पर विकसित


Global Urban Flood Warnings APP: 7:33 PM
Climacell Global Urban Flood warnings

Warning: Localized inundation, meaning Some traffic interruptions at:
 Kolkata, Jodhpur

271 cities warning: Flooding/inundation not likely, meaning Insignificant

ALERTS BY SEVERITY PER EACH VERTICAL

TRANSPORTATION




Flooding/inundation not likely	Insignificant effect on city routine most likely
Localized inundation	Some interruptions for city traffic
City-wide flooding/inundation	Noticeable impact on travel times
Significant flooding likely	Traffic delays across the city
Significant flooding highly likely	Severe traffic delays, occasional standstills
Heavy flooding	Transportation shut down in parts of the city
Severe flooding	Transportation shutdown is most likely
Drastic flooding	Transportation infeasible. Extreme flood event



Thank you!

www.climacell.co
amir.givati@climacell.co

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