







## What other questions should you be asking?

Emergency Operations Plan needs to include the threats mentioned in the video. But what else?



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Emergency Operations Plan needs to include the threats mentioned in the video. But what else?

What is the most likely weather threat?

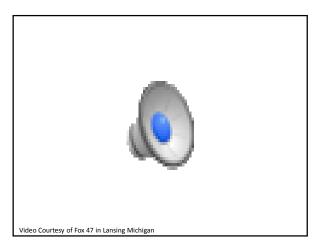
What would climatology/history suggest as the most likely threat? (November in Michigan)

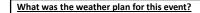
Does climatology at this point in our history do much for us?

We have to think more broadly about weather threats!



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What was the weather risk?

What is your APP (Actionable Proactive Protective) against the risk?

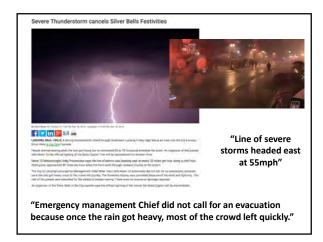
Shelter in place? Shelter in shelter? (Do you have enough space?) Can you move the event? Can you postpone/reschedule event? And if so, by what time? Cancel the event? (cost/loss projections)

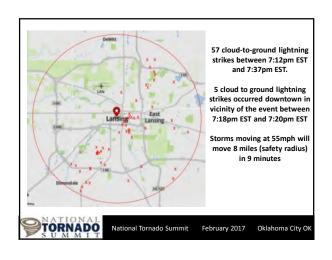
Professional Meteorologist to monitor risk APP decision trigger chart to assign decisions/comms



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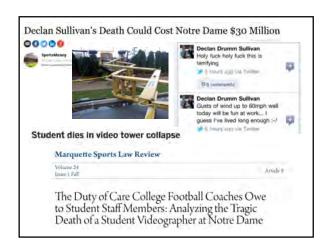




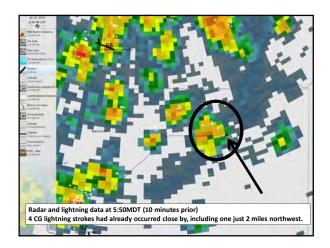








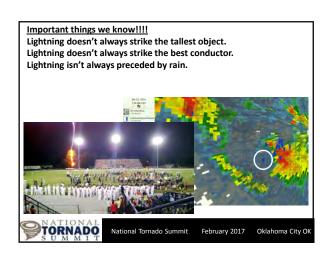




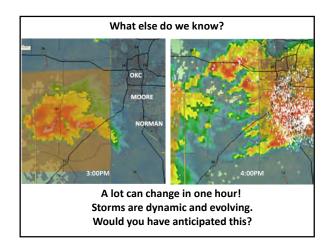




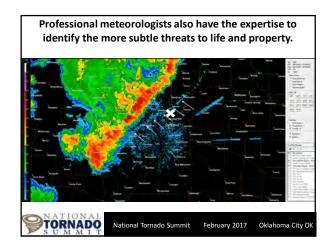


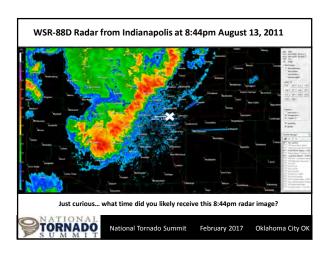












SEVERE WEATHER STATEMENT
NATIONAL WEATHER SERVICE INDIANAPOLIS IN
858 PM EDT SAT AUG 13 2011

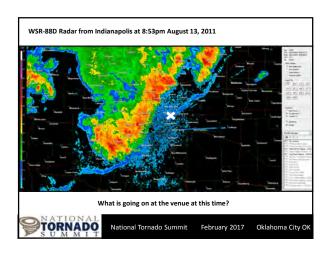
INC011-057-063-097-109-133-140145/O.CON.KIND.SV.W. 8293.08080878080Z-11081470145Z/
BOONE-HAMILTON-HENDRICKS-MARION-MORGAN-PUTNAM858 PM EDT SAT AUG 13 2011

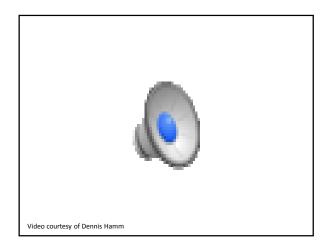
... A SEVERE THUNDERSTORN WARNING REMAINS IN EFFECT FOR SOUTHEASTERN
BOONE...HAMILTON... HENDRICKS...MARION...NORTHERN MORGAN AND EAST
CENTRAL PUTNAM COUNTIES UNTIL 945 PM EDT...

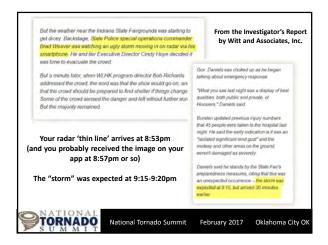
AT 853 PM EDT...TRAINED WEATHER SPOTTERS REPORTED A LINE OF SEVERE
THUNDERSTORNS PRODUCING DESTRUCTIVE WINDS IN EXCESS OF 70 MPH.
THESE STORNS WERE LOCATED ALONG A LINE EXTENDING FROM NOBLESVILLE TO
12 MILES NORTHWEST OF MARTINSVILLE...MOVING EAST AT 25 MPH.

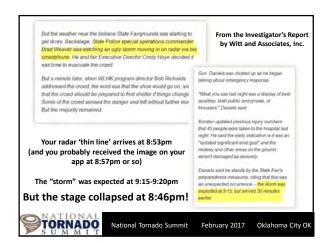
A TRAINED WEATHER SPOTTER MEASURED A WIND GUST OF 77 MPH IN
PLAINFIELD 850 PM.

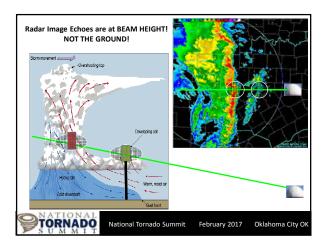
SEVERE THUNDERSTORMS WILL BE NEAR...
MONROVIA...NOBLESVILLE AND CARMEL AROUND 985 PM EDT...
INDIANAPOLIS INT'L AIRPORT...WYNNEDALE...WILLIAMS CREEK AND SPRING
HILL AROUND 910 PM EDT...
ENDIANAPOLIS INT'L AIRPORT...WYNNEDALE...WILLIAMS CREEK AND SPRING
HILL AROUND 910 PM EDT...
ENDIANAPOLIS INT'L AIRPORT...WYNNEDALE...WILLIAMS CREEK AND SPRING
HILL AROUND 910 PM EDT...
ENDIANAPOLIS INT'L AIRPORT...WYNNEDALE...WILLIAMS CREEK AND SPRING
HILL AROUND 910 PM EDT...
ENDIANA STATE PREGROUNDSS... CASTLETON...BROOKLYN AND BETHANY AROUND

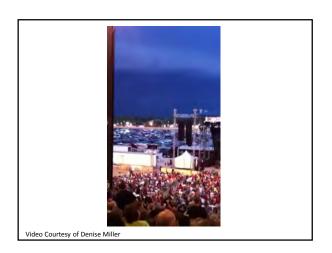








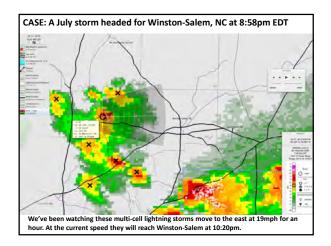


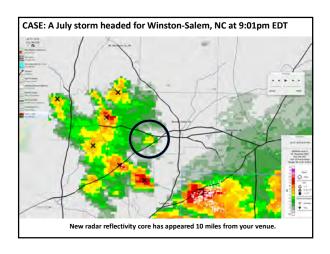


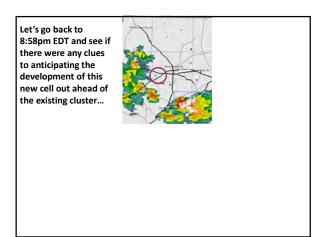
# Although radar is a great tool, the limitations of radar demand that you use these data in concert with other datasets and a fundamental knowledge of atmospheric processes. Having radar data or a warning alert function on an app or a laptop does not magically enhance your ability to assess weather risk. In fact, in many cases, it can lead you to misrepresent or completely miss the actual risk.

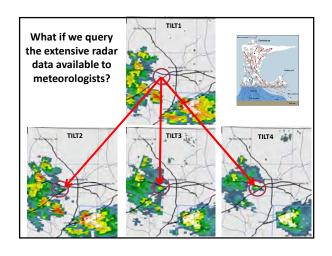
TORNADO National Tornado Summit February 2017 Oklahoma City OK

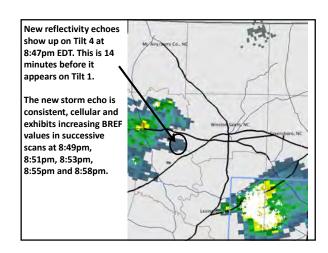
**IMPORTANT "TAKE AWAY"** 

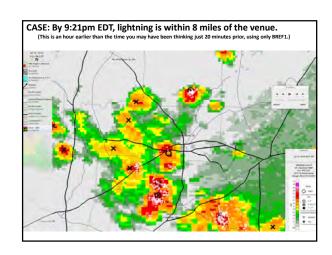


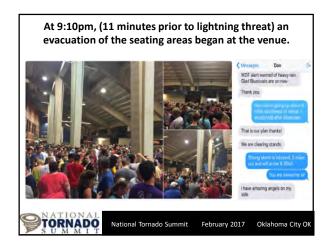












# Access to meteorological expertise can save lives.

Lightning storms, including those with potential for damaging winds and tornadoes develop VERTICALLY. In most cases, precipitation sized particles (and hail) develop aloft! Therefore, upper tilts will provide earlier clues to risk than the most popular BREF1 scan. (TV ONLY uses BREF1! – and for that matter, on any app you do too!)



## "Hope" is NOT a Plan!

Decisions must be made in advance. They must be ACTIONABLE, PROACTIVE and PROTECTIVE!

That's the "APP" you NEED!



