

Unique Partnerships to Deliver Global Extreme Weather Warnings

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Enhance Global Weather Enterprise Role in Weather Preparedness

- A continuing need exists for advancements in awareness, preparation, and response to weather by the public.
- At times misalignment exists between weather event risks and the degree to which consumers prepare and react.
- Weather across the globe continues to cause preventable casualties.
- Studies show consumers acknowledge their concerns about dangerous weather and desire more safety & preparedness education.











Focus Has Been On Protecting People & Property From Weather Impact For 55 Years

AccuWeather's Mission Starts:

"To save lives, protect property, and help people prosper"...





A New Weather Safety & Preparedness Program Unique to Global Weather Enterprise



Mission

To keep the world's people prepared by empowering them with the most accurate & actionable information before, during, and after impactful weather events.

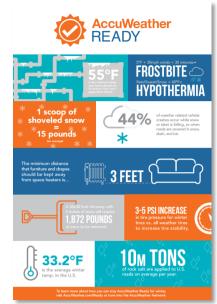




AccuWeather Ready Safety & Preparedness Content Is A Multi-Platform Initiative











Partnership Opportunities

- A key part of AccuWeather Ready is our partnerships with government NMHS and other agencies
- Through cooperation (in many cases using the CAP format), we have the opportunity to make a difference in the lives of users by quickly and accurately delivering critical weather and natural disaster warnings!
- Supplements existing warning delivery from NHMS
- My goal today: share insights based on our unique experience working in partnership with governments around the world!







Providing Global Content 24x7

- AccuWeather reaches 2+ Billion users daily!
- Weather in 100+ languages and dialects
- Award-winning mobile apps available on every major platform worldwide
- Highly ranked, rated, and featured across all major, global mobile platforms









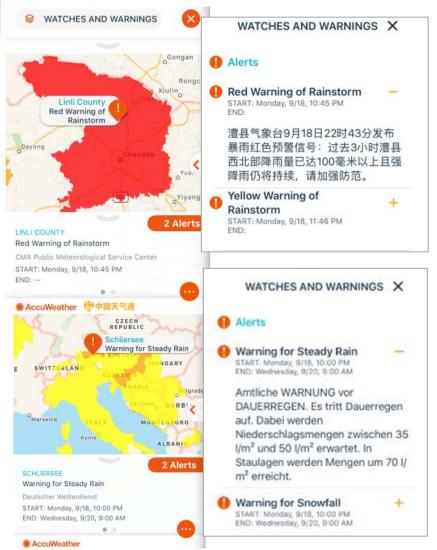
Our Role in Distributing Warnings

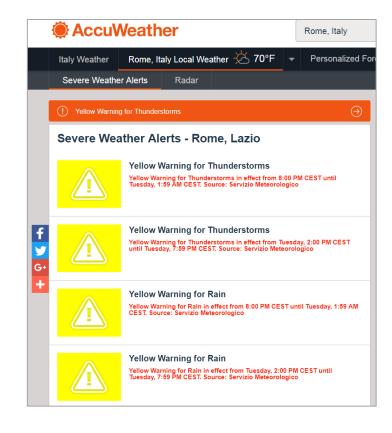
- AccuWeather is delivering publically available, government issued weather warnings for over 40 countries within our products and services!
- Severe weather alerts provide proactive, valuable, actionable insight into extreme weather events
- Contextually relevant for the end user so they can make informed decisions and take necessary precautions
 - "Wow, this is great- I never knew my country issued warnings like this!"
- Quickly and rapidly amplify important messages





Global Severe Weather Alert Examples





















Partnerships are Key!

- Working in partnership, AccuWeather CAN and WILL help governments reach citizens in new ways
 - Increasingly important as public sector budgets shrink
- We are committed to delivering warnings accurately, quickly, and reliably to users. Additionally, to many countries, we provide:
 - Technical expertise related to data formats, input on warning system design
 - Quality control feedback in real-time to identify dissemination challenges

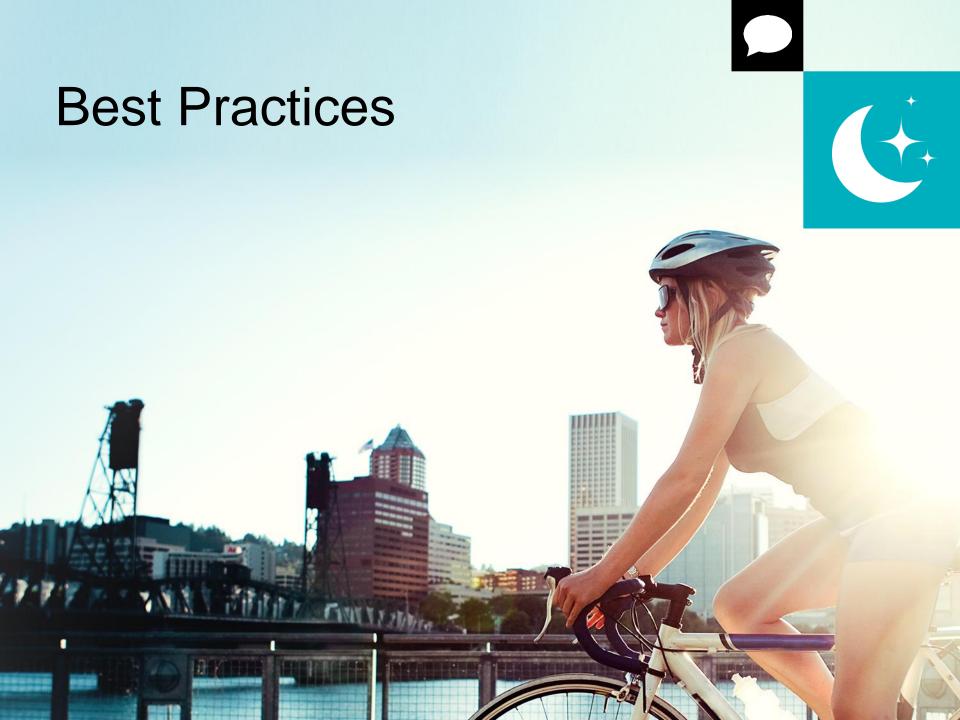




Partnerships are Key!

- Typically are able to integrate warnings at no cost to governments
- Warning integration enabled by an agreement or MOU defining collaboration
- Original warning text from provider is what we display
 no modifications
- Clearly identify source of warning as being from the government provider
- Unique AccuWeather location technology plays a key role in delivering warnings







Weather Warning Best Practices

- Unique designs in each country based on weather hazards and communication systems
- Components for consideration when weather warning data systems are being designed or refreshed:
 - What is the weather hazard?
 - Where is the hazard occurring?
 - When will the hazard occur?
 - Why does the user need to be aware of the hazard? How should they react?
- CAP facilitates communication of these key points





Key Components – What

- What is the weather hazard? CAP eventCode
- Ensures end users are aware of the weather hazard type – snow, ice, coastal flooding, heat warning, etc.
- A clearly defined list of weather warning types and a brief description of the hazard type as a reference to CAP message recipients is important (in each language supported)
- Color scheme (Yellow, Orange, Red etc) and display preferences, standard icons?
- Ability to expand the list as warning system changes





Key Components – Where

- Where is the weather hazard? CAP area & geocode elements
- How are the warning risk areas being defined geographically?
 - Custom Defined Warning Boundaries (following terrain etc)
 - Follow Existing Administrative Boundaries (provinces, states, counties, etc.)
 - Dynamic Warning Areas (polygon areas)
- Critical to ensure only the correct users receive the weather warning to prevent "warning fatigue"





Key Components – When

- When is the threat for the weather hazard?
 CAP elements: effective, onset, expires
- We strongly recommend including a defined start and end time for the warning
 - Situations that are "in effect until further notice" present challenges & don't communicate full information to users
- Update relevant times during warning lifecycle
 - Time Extensions
 - Cancellations





Key Components – Why

- Why does the user need to be aware of the hazard? CAP headline, description, instruction
- Very helpful to user when making decisions.
- Actionable text to describe the weather hazard, expected impacts, and what actions the end user should take
- Succinct, but convey important details not a "meteorological forecast discussion"
- Multiple languages are valuable, tagged correctly
- Update with latest information during warning lifecycle to stay relevant





Unique Event Identifier

- Unique Identifier for the message is a CAP requirement (alert identifier)
- Additional unique identifier for the warning event is another critical component, implemented within <info> elements.
- Common to all messages about a specific warning event (snowfall warning #5) and used to track changes over time.
- Often added as an additional parameter
- Can be a numerical auto incrementing key or unique string value.





Other Important Aspects

- Additional country-specific attributes are helpful as well, based on uniqueness of warning systems
 - Typically implemented as added parameters
- Frequent communication and discussion empowers success in these types of partnerships
 - Ongoing discussion about what is working great and opportunities to enhance format or workflow



Thank You!

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