The Global-Scale Alert Hub for Official Emergency Alerts
Common Alerting Protocol (CAP), ITU X.1303

- CAP uses XML, eXtensible Markup Language, so the alert data is machine-friendly but combined with natural language information
- CAP enables targeted alerting to people in harm's way: cell phones, radio, television, sirens, highway signs, online, smartphone apps, and emerging IoT devices, among others
Internet News Feeds

Example http://alerts.weather.gov/

- Each alert is a news story
- CAP Alerts are published in an Internet news feed
- News feeds follow either RSS or ATOM standard, and both are XML formats
- Aggregating CAP news feeds, example:
  - 3,809 NWS feeds
    - one of 1,130 U.S. feeds
    - one of 80 national feeds
The International Register of Alerting Authorities

- People need to know which sources they can trust
- WMO & ITU Register is at [http://www.wmo.int/alertingorg](http://www.wmo.int/alertingorg)
- Each alerting authority has international standard "Object Identifiers" so its CAP alerts can be globally unique
- 300 authorities now, at least one for each of 185 nations
The Global-Scale Alert Hub for Official Emergency Alerts

- National CAP feeds today (operational or in development) 75% of world by population
- Prototype Alert Hub now online at http://alert-hub.org
- Challenge now is to spread the word, especially in cities
- We can solve this: No one should be left out of life-critical emergency alerts!