



Ontology Summit 2022

CONSIDERATIONS - CONTINUED

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Convergence from Considerations – Disasters

- **UN**- "a serious disruption of the functioning of a community or society involving widespread **human, material, economic or environmental** losses and impacts, which exceeds the ability of the affected community or society to cope with using its own resources."
- **US FEMA** -in severe **property damage, deaths, and/or multiple injuries...Stafford Act** -“major disaster” is “any natural catastrophe [...] or, regardless of cause, any **fire, flood, or explosion....**
- **EU ECHO** - • **Natural hazards** such as earthquakes, cyclones/hurricanes, storms, tsunamis, floods and drought; • **Conflict and violence**; • **Disease outbreaks and epidemics**, such as Ebola or Covid-19; • Technological and industrial **hazards**.

Convergence... Chat from last session

- **Topic Explicit or embedded Ontologies and Semantics**

- Domain, Interdomain, Cross Domain
- Vocabularies, Semantics, KGs, and interoperability Use Cases
- Complex Events and Situational Awareness
- CEP, Decision Support, Emergency Framework and Management

- **Current Topics**

General Sessions – Track on Disasters (Overview Topic)

Coronavirus-19 Pandemic,

UN Climate Change Conference– COP26

Selected Disasters – Fires, Storms (floods), Volcanoes,...EU/US

Convergence... New Event

- Recent Disaster – Risk: Space Debris
 - Loss of Human Space Presence
 - Loss of Satellites
 - Collateral Losses: Comm and Earth observation satellites and Ground Based Astronomy (investments)
 - Commercial Debris-removal Technologies
 - UN Outer Space Regulations, Legal Damage Framework
 - Space ontology, Debris Dynamics modeling

Focussed Questions -Comments

- Risk Assessment and Mitigation
- Disaster Management and Recovery
- Domain based classification of Disasters
- Legal definitions for disasters and related insurance and damage claims.
- Agreed Semantics important for interagency coordination
- Environmental Disasters topics and then ontologies can be explored for the topic(s)
- Knowledge Graphs and Disasters
- Human caused and deliberate disasters; In Scope?
- Next steps? Topic (s), Tracks, Speakers, intervening Holidays!