

# Using ICN in disaster scenarios

draft-seedorf-icn-disaster-05

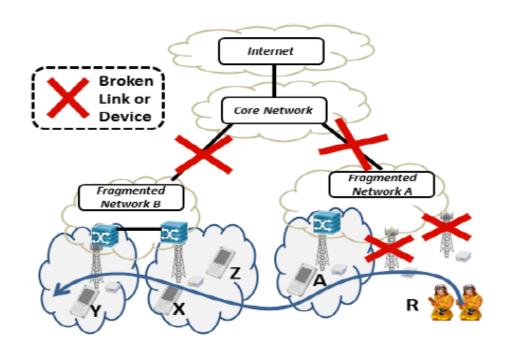
Jan Seedorf NEC Laboratories Europe

(on behalf all authors: J. Seedorf, M. Arumaithurai, A. Tagami, K. Ramakrishnan, N. Blefari Melazzi)

## Scope of the Document: Scenario and Use Cases

#### Disaster Scenario

- The aftermath of a disaster, e.g. hurricane, earthquake, tsunami, or a human-generated network breakdown
- E.g. the enormous earthquake which hit Northeastern Japan on March 11, 2011 (causing extensive damages including blackouts, fires, tsunamis and a nuclear crisis)



#### Key Use Cases (High-Level)

- Authorities would like to inform the citizens of possible shelters, food, or even of impending danger
- Relatives would like to communicate with each other and be informed about their wellbeing
- Affected citizens would like to make enquiries of food distribution centres, shelters or report trapped, missing people to the authorities

# Scope of the Document: Content / Sections

- Disaster Scenarios
- Research Challenges and Benefits of ICN
- High-Level Research Challenges
- How ICN can be Beneficial
- Use Cases and Requirements
- Solution Design

# **History / Current Discussion**

#### IETF-93 (Prague)

- Presented version -03
- Authors
  - Have presented multiple times
  - Think that the document is quite mature and discussing interesting use cases for ICN to shine
  - What about RG adoption?
- Feedback
  - Much support on the mailing list for adoption (>10)
  - A few critical comments regarding adoption
- Critical comments
  - Draft does not reflect enough the existing work in the DTN community relevant for the disaster scenarios considered in the document



# **History / Current Discussion**

#### What happened since

- version -04 (October 19, 2015)
  - New subsection "ICN as Starting Point vs. Existing DTN Solutions"
    - Summarizing existing work in the DTM community and what ICN brings to the table on top of that
  - Addressed several comments / suggestions from Dirk Trossen
- version -05 (December 29, 2015)
  - Explicitly mentioning existing DTN work in the introduction and how this addresses key challenges in disaster scenarios
  - Clearly outlining in the introduction what ICN offers as key concepts besides existing DTN approaches, i.e. how ICN can address additional challenges in disaster scenarios

### The way forward ...

- Meaning of RG adoption
  - RG adoption does not mean that the draft is ready for publication "as is"
  - RG "adoption means we're ready and willing to work on it together as an RG, as opposed to keeping it as an individual contribution"
- Authors believe that all comments since asking for RG adoption in July 2015 have been addressed
- Authors would like to ask the RG again for adoption of this document as RG item

# \Orchestrating a brighter world

NEC brings together and integrates technology and expertise to create the ICT-enabled society of tomorrow.

We collaborate closely with partners and customers around the world, orchestrating each project to ensure all its parts are fine-tuned to local needs.

Every day, our innovative solutions for society contribute to greater safety, security, efficiency and equality, and enable people to live brighter lives.

# Empowered by Innovation

