Pursuit for standardization

Hiroshi Shinotsuka

Systems Planning Office, Kyodo News
Vice Chairman of NSK NewsML Team(2000-2004)
A member of JIS standardization WG of NewsML(2004-)

1

NewsML in Japan(1)

- **Adoption of NewsML**
  - In Japan, major newspapers and news agencies adopted NewsML1.0, based on NSK guidelines

  - Kyodo News is the leading news agency distributing NewsML service to newspapers and the Internet websites since 2002

2

NewsML in Japan(2)

- **NSK**
  - <u>Creation of NSK NewsML "Support" Team</u>
    - NSK NewsML Team had achieved their own goals and was resolved to NewsML Support Team in July 2004
    - aim to support NewsML1
  - <u>Approval of NewsML1.2 as a JIS standard X7201</u>
    - Approved by Ministry of Economy, Trade and Industry in March 2005 after San Diego
    - Documents to be published in July 2005

3

Kyodo's implementation of NewsML(1)

- **Purposes of using NewsML:**
  <u>benefits for subscribers</u>
  - Merit of XML:
    systems-friendly, cost-saving, and easy-rendition

  - Merit of NewsML:
    Standard is supported by IPTC and NSK

4

Kyodo's implementation of NewsML(2)

- **Newspapers:**
  <u>Inherits information of legacy text formats</u>
  - Our original DTDs are designed by analyzing legacy text formats to enclose in DataContent
  - More than 90 DTDs are defined by NSK-format-topicsets
  - Grouping of news articles, photos, and graphics by NewsId
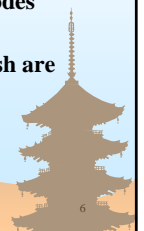 - Dual dissemination of two formats,
    ie. legacy and/or NewsML

5

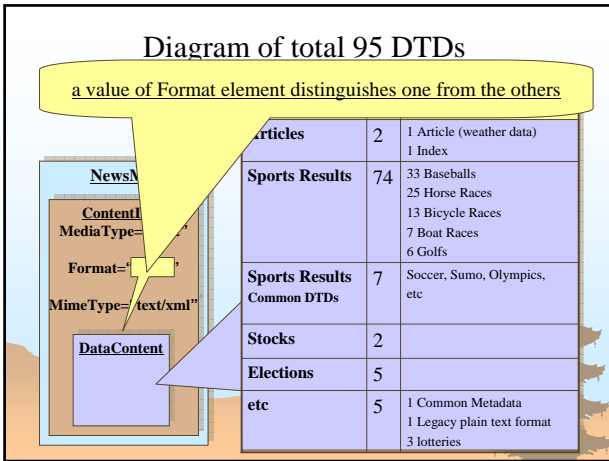## Kyodo's implementation of NewsML(3)

- **Internet:**
  English-language news is ready to be disseminated in NewsML
  - Adoption of NITF3.0, Subject-NewsCodes (Subject, SubjectMatter)
  - Samples and the specification in English are available
  - News articles focus on Asian news

6

Diagram of total 95 DTDs

a value of Format element distinguishes one from the others

NewsM...

ContentI...
MediaType=...
Format=...
MimeType="text/xml"

DataContent

Articles	2	1 Article (weather data) 1 Index
Sports Results	74	33 Baseballs 25 Horse Races 13 Bicycle Races 7 Boat Races 6 Golfs
Sports Results Common DTDs	7	Soccer, Sumo, Olympics, etc
Stocks	2	
Elections	5	
etc	5	1 Common Metadata 1 Legacy plain text format 3 lotteries

---

Grouping of Articles and Images(1)
Utilizations of NewsIDs

- Concept
  - Grouping different news contents under a particular subject over the timeline
  - NewsML1 has not this kind of function
- Example of "one news" group :
  birth of panda in London Zoo
    1. Birth story
    2. Interview of breeders
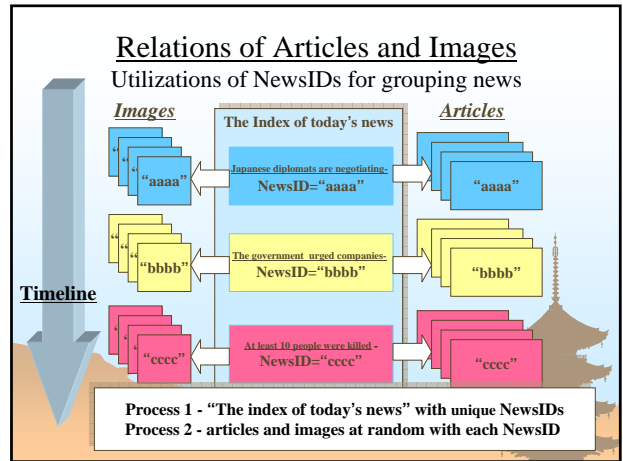   3. Comments from China
    4. Panda baby and mother's photos

Grouping of Articles and Images(2)
Utilizations of NewsIDs
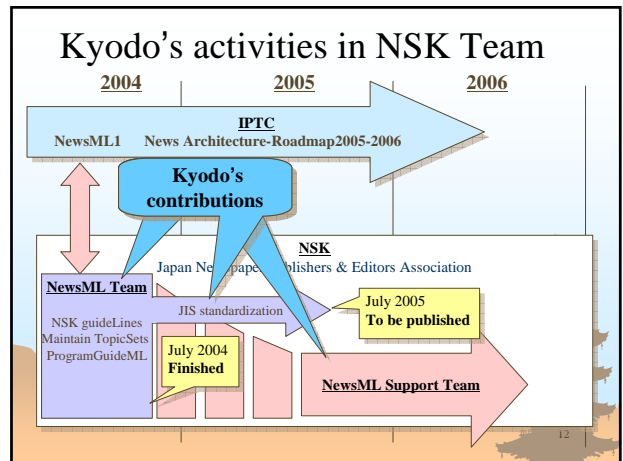
- Implements

  In order to cope with grouping different stories and photos over the timelines, we invented "NewsID" nesting in "Property element"

  - "One news" is assigned one unique ID
  - Each content is assigned same ID as "one news" group

9

Relations of Articles and Images
Utilizations of NewsIDs for grouping news

Images

The Index of today's news

Articles

"aaaa"

Japanese diplomats are negotiating-
NewsID="aaaa"

"aaaa"

"bbbb"

The government urged companies-
NewsID="bbbb"

"bbbb"

Timeline

"cccc"

At least 10 people were killed -
NewsID="cccc"

"cccc"

Process 1 - "The index of today's news" with unique NewsIDs
Process 2 - articles and images at random with each NewsID

Migration form NewsML to NAR

- **Wrapper function**
  - Usage of NewML1:
    A value of Format element distinguishes among our 95 DTDs
  - Requirement to NAR:
    Hopefully to maintain a function of Format element
- **Validation**
  - Usage of NewML1:
    A validation of a XML document is defined by DTD in DOCTYPE declaration
    Not yet coped with the latest XML technologies. (ie, XML Schema, Namespaces in XML)
  - Goal of NAR:
    Use the latest XML technologies

11

Kyodo's activities in NSK Team

2004   **2005**   **2006**

IPTC
NewsML1   News Architecture-Roadmap2005-2006

Kyodo's contributions

NSK
Japan Ne...pape...blishers & Editors Association

NewsML Team

JIS standardization

NSK guideLines
Maintain TopicSets
ProgramGuideML

July 2005
To be published

July 2004
Finished

NewsML Support Team

12

Kyodo's role

* Promotion of NewsML1 to be more widely used in Japan

* Efforts to maintain the conpatiblities between NAR and NSK guidlines of NewsML1

* Introduction of NAR to NSK members

13

Thank you for your time

14