


Harmonise



Harmonise
Steps towards an Interoperable eTourism
Market Place

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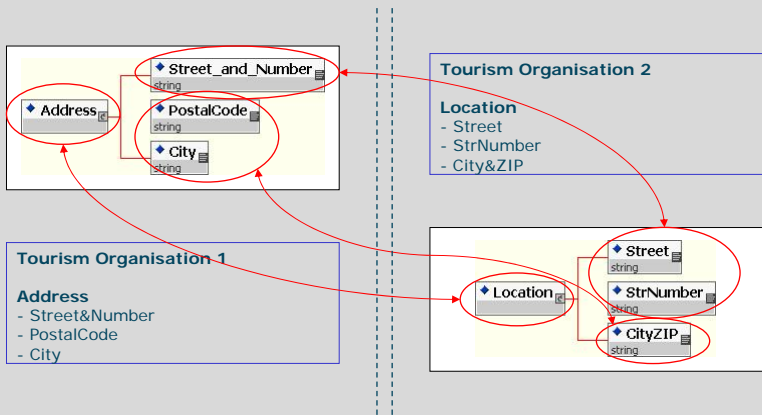
Semantic Interoperability

- Overabundance of information – user view (b2c)
- **Interoperability - system view (b2b)**
- Try to resolve clashes like
 - Different naming
 - Different value domains
 - Different measures (e.g. for temperature)
 - Different levels of granularity (e.g. near airport vs. distance to airport)
 - Different abstraction levels
 - Generic terms vs. more specific (e.g. swimming pool vs. indoor and outdoor pool)
 - Different structuring
 - Separate type vs. part of a type (e.g. address)

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Same meaning, different structures ...



Tourism Organisation 1

Address

- Street&Number
- PostalCode
- City

Tourism Organisation 2

Location

- Street
- StrNumber
- City&ZIP

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- EU Project (2001-2003)
- Objectives
 - **No new standard** and **no new competing body**, but **integration** to develop an **open mediation** service;
 - Organizations **exchange information without changing their data structures**
 - To create a network supporting the approach
- Project aspects
 - Organisational
 - Technical
 - Ontology building

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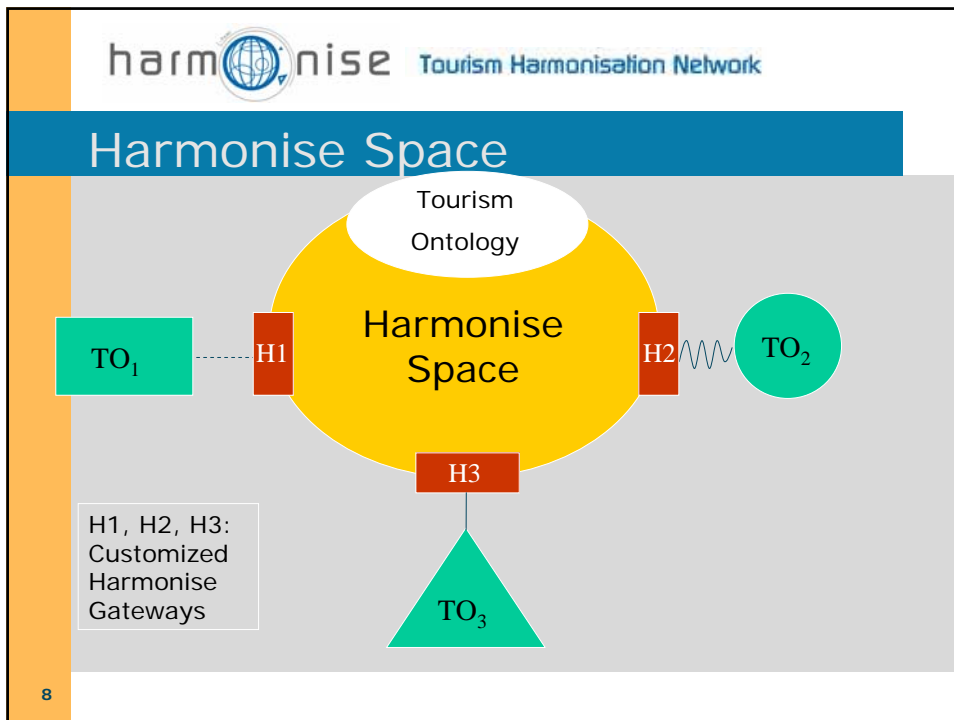
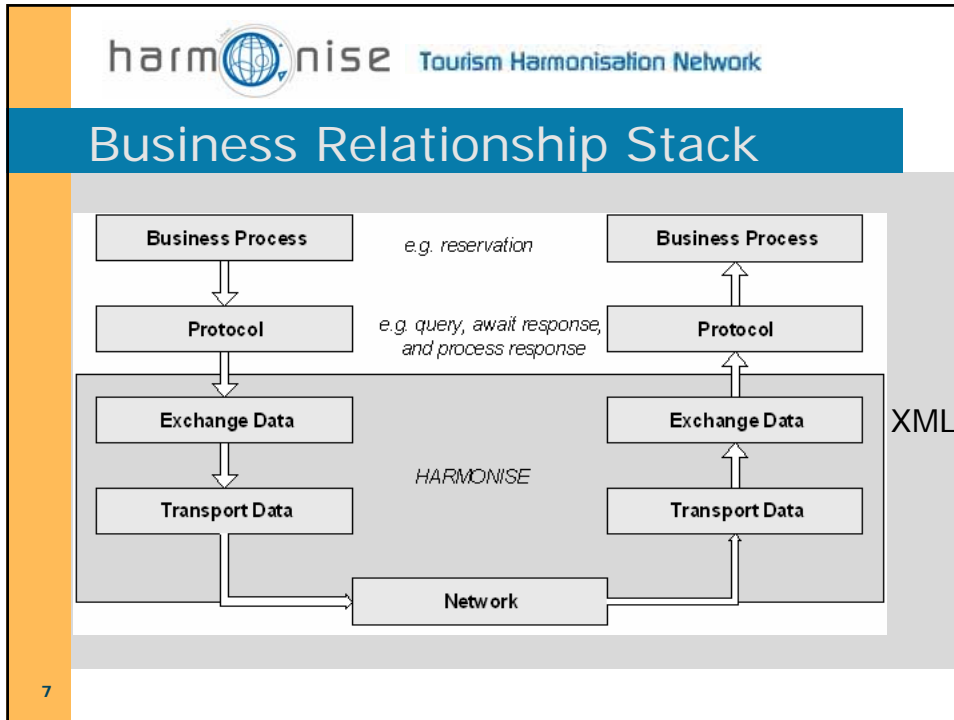
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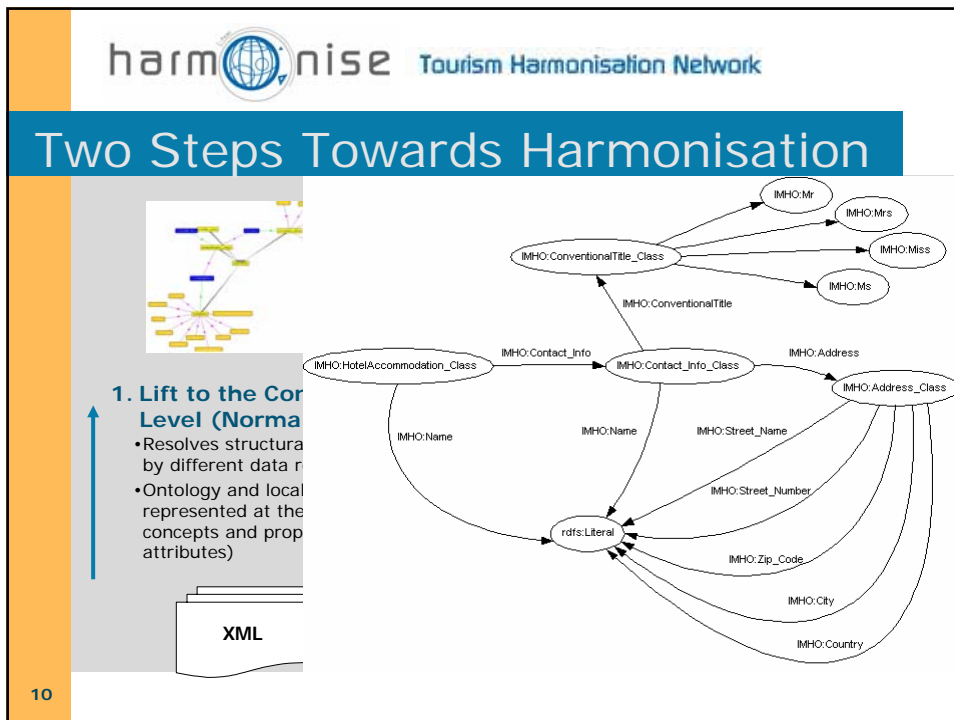
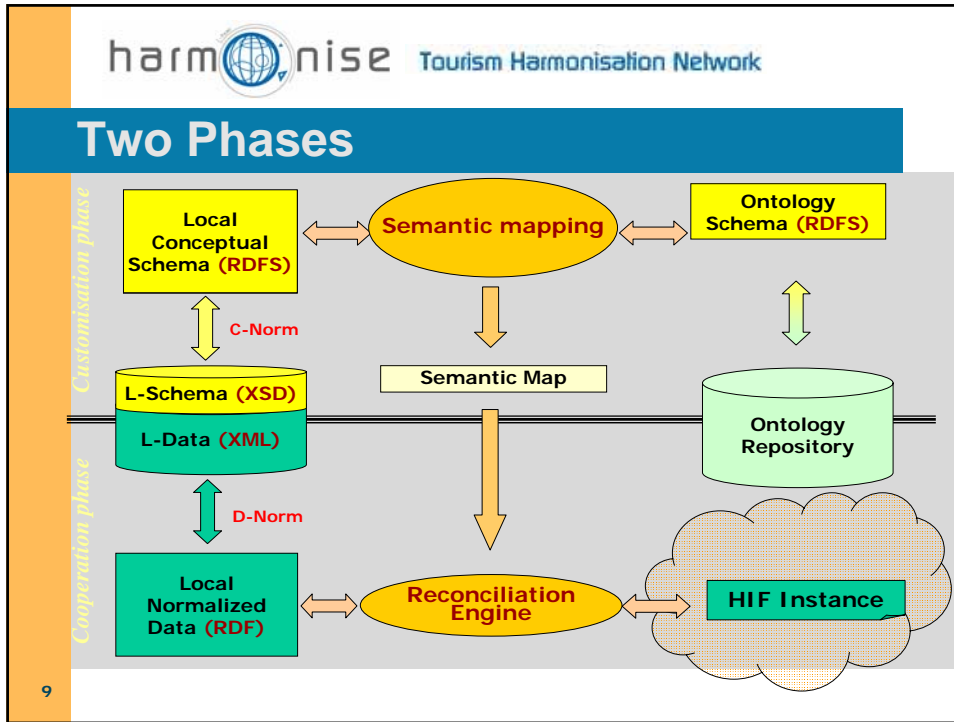
- oInternational tourism organisations
 - ✓ TTI / OTA – Travel Technology Initiative / Open Travel Alliance
 - ✓ WTO – World Tourism Organisation
 - ✓ IFITT – International Federation for IT and Travel & Tourism
- oNational Tourist Board
 - ✓ TourInFrance (France)
 - ✓ SIGRT (Sistema de Informação de Gestão de Recursos Turísticos)
 - ✓ Swedish Tourist Board
 - ✓ Finnish Tourist Board
 - ✓ Spain Tourist Board
 - ✓ Romanian Tourist Board
- oCo-operation with other initiatives
 - ✓ ebXML (Electronic business extensible mark-up language)
 - ✓ CEN (Comité Européen de Normalisation)
- oPrivate companies
 - ✓ Whatsonwhen
 - ✓ TIScover

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The screenshot shows two XML files side-by-side. The left file is the source XML, and the right file is the target XML. Red boxes highlight specific elements in both files, and arrows indicate the mapping between them. A red box on the right side contains the text "Concepts not present at Target".

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Evaluation

- Accommodation
 - MEK (FIN)
 - TIScover (AT)
 - SIGRT (PT)
 - TourInFrance (FR)
 - OTA (INT)
- Event
 - WhatsOnWhen (UK)
 - MEK (FIN)
 - TIScover (AT)

ALL TRANSFORMATIONS PRODUCED GOOD RESULTS

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Harmonise - Results

- Semantic Web Technology forms the base for further developments such as supporting additional data types (databases, TXT, HTML, ...)
 - Real and tested ontology – domain accommodation and events – approx. 400 concepts
 - Implementation as Web Services
 - Harmonise is successful (as open source) and can be used by others and in the market place
- Market validation to create the real working environment, system and network – **Harmo-Ten**