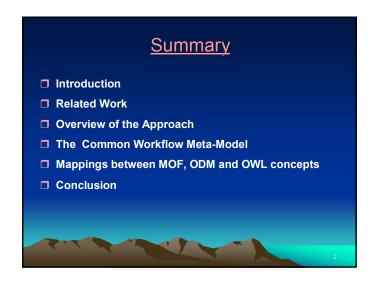
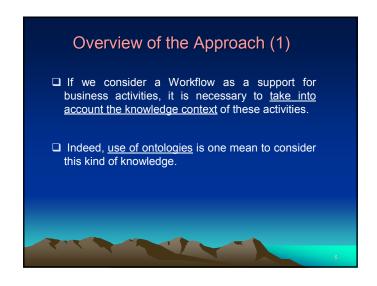
An Approach for Building an OWL Ontology for Workflow Interoperability S. Hamri¹, N. Boudjlida², M. Boufaida¹ ¹LIRE Laboratory, Mentouri University of Constantine, Algeria ²Loria Laboratory, Poincarré University of Nancy1, France



Untroduction Workflow interoperability: Models Engines In the field of Workflow interoperability (or business process), several modeling languages have been proposed: XPDL, WSFL, XLANG, BPEL, WSCI, WSCL, ebXML, BPML, etc. However, no language has been adopted as a standard for Workflow interoperability and no common meta-model has been agreed upon.

Related Work (1) Several works related to Workflow interoperability have been conducted leading to multiple process modeling languages (XPDL, XLANG, WSFL, BPEL4WS, WSCI, ...) Although these works have treated the interoperability in Workflow domain, there is no semantics at higher levels of abstraction. Indeed, they generally provide a canonical model, which is insufficient, such as XPDL, BPEL4WS, etc.

Related Work (2) ✓ No Common standard has been agreed upon and No formal Semantics for the concepts of these languages. ✓ Furthermore, no common meta-model (XPDL, PIF (Process Interchange Format), etc.) has been adopted. ✓ Hence, the approach that we propose, supports the semantic interoperability.



Overview of the Approach (2) We propose an ontology-based approach for building an OWL Workflow ontology for Workflow interoperability. It constitutes then, a common ontology that aims at making Workflow models understand each other. To give meaning to the exchanged information by using a shared ontology between Workflows

