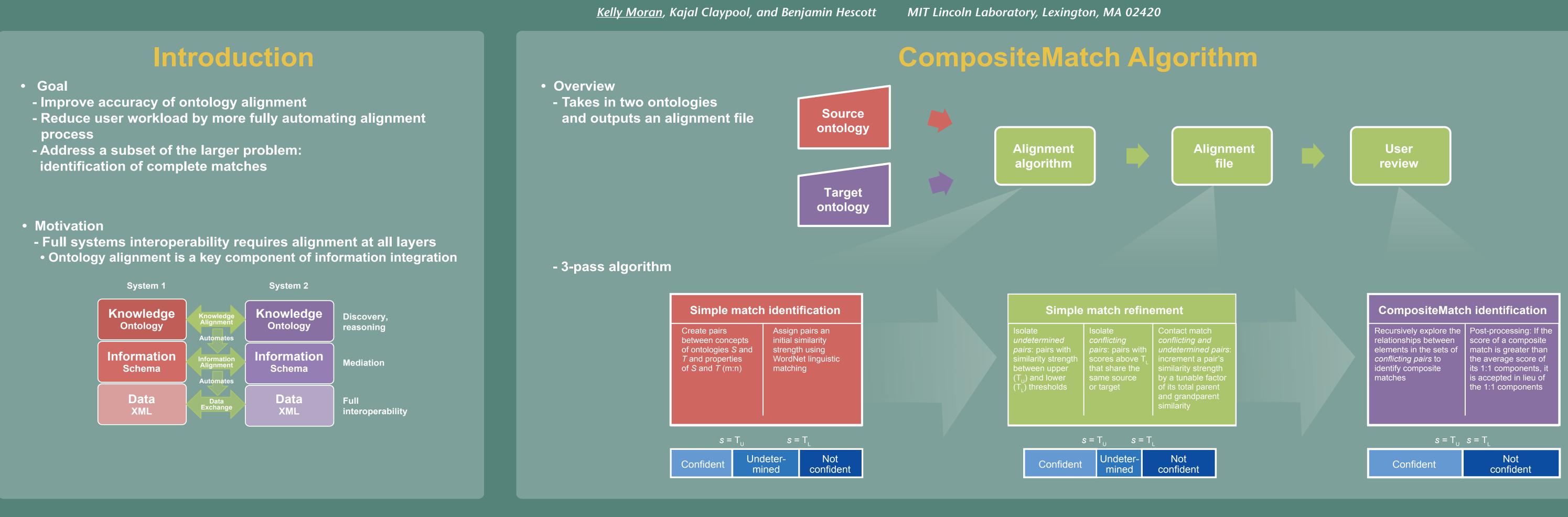
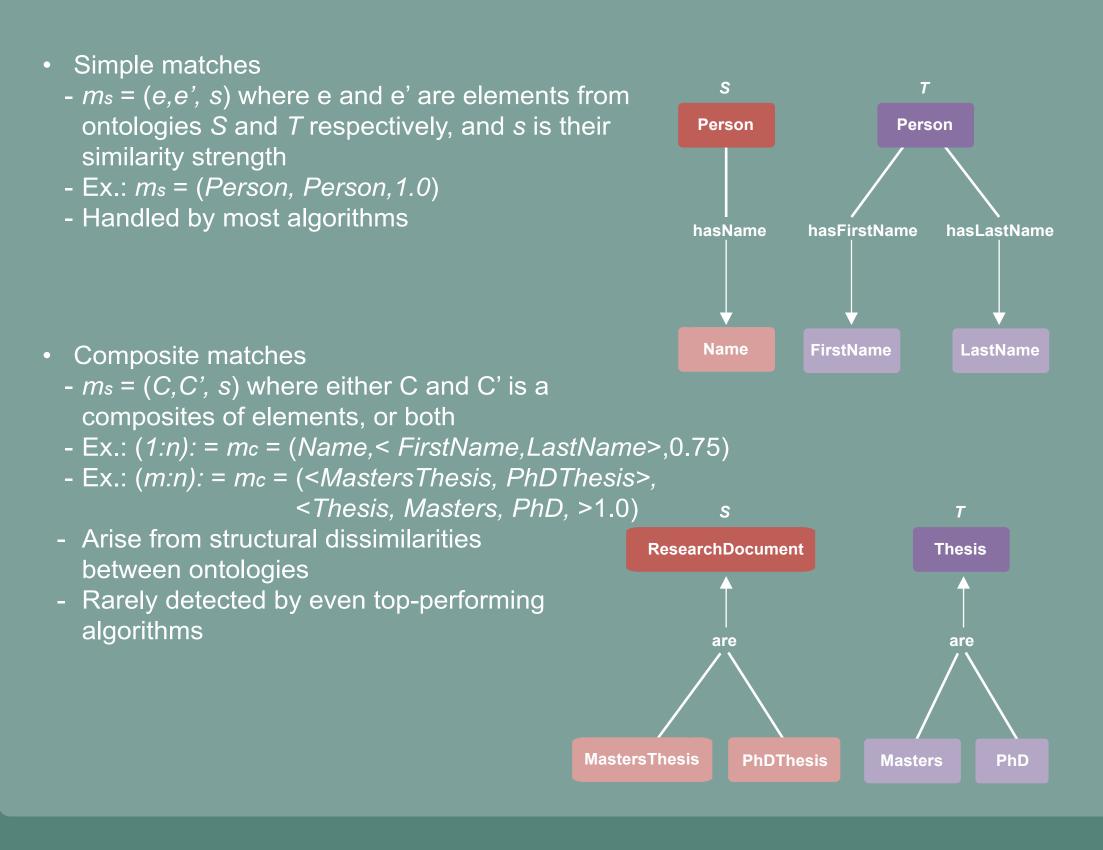
CompositeMatch: Detecting N-Ary Matches in Ontology Alignment



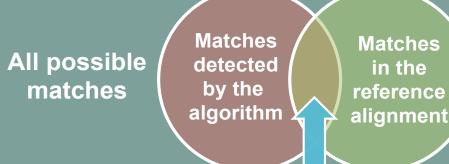
Types of Matches



	Evaluation
Performance of CompositeMatch and RiMOM OAEI 2008 Benchmark Full Benchmark	 Composite tests Compare OAEI benchmark test to modifications intended to introduce composite matches
1 0.8 0.6 0.4 0.2 0 Precision Recall	• Scored against hand-modified reference alignment
Benchmark Excluding Random Labels	
 1 0.8 0.6 0.4 0.2 0 Precision Recall 	 1:1 match detection Absense of composition incorrect 1:1 match
Composite Tests111 <td> Inclusion of compose and reducing user w Can aid in real-world structurally Can ultimately make information or share </td>	 Inclusion of compose and reducing user w Can aid in real-world structurally Can ultimately make information or share







Correct matches detected by the algorithm

Correct matches detected by the algorithm Precision = Matches detected by the algorithm Correct matches detected by the algorithm Matches in the reference alignment Recall =

Conclusion

- alone is insufficient
- site match detection results in missing matches or
- site matches is effective for increasing accuracy workload
- d applications where ontologies differ

e up a portion of techniques to accurately integrate re knowledge