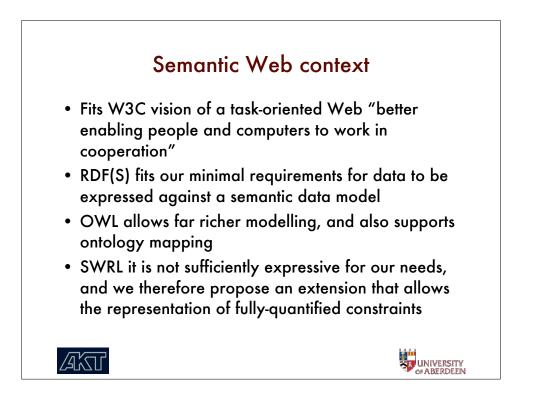
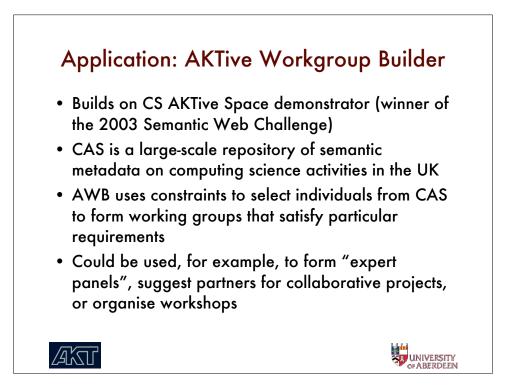
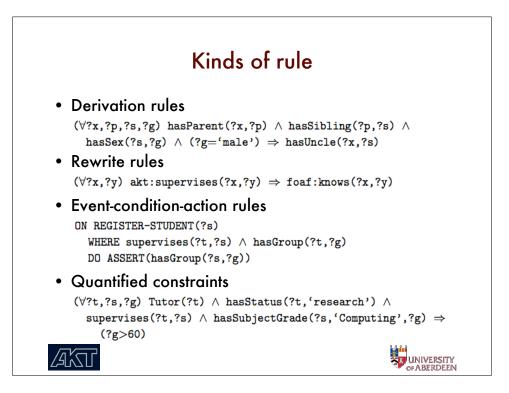


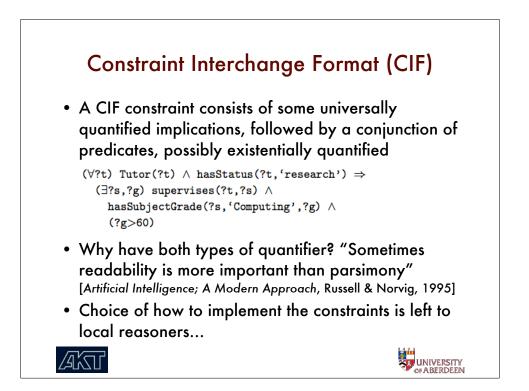
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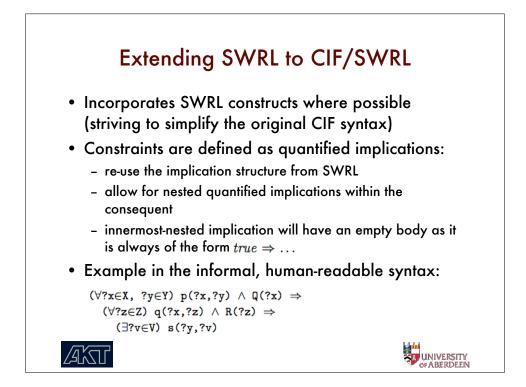


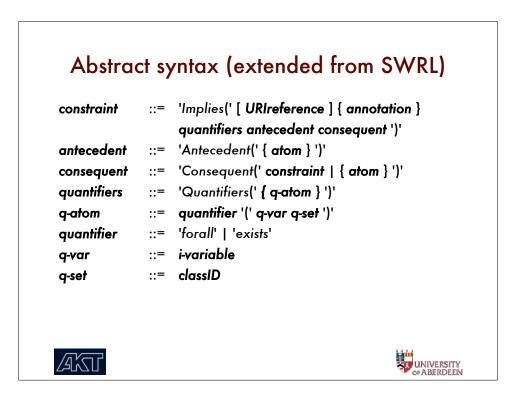


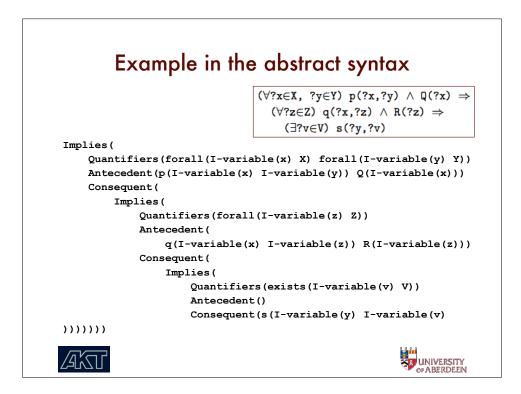
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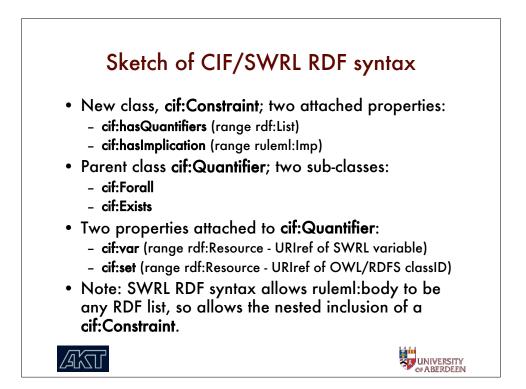




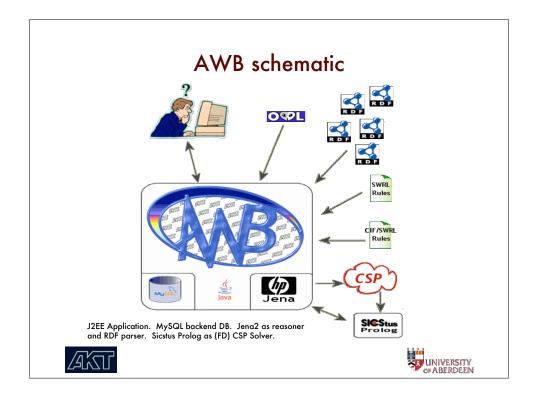


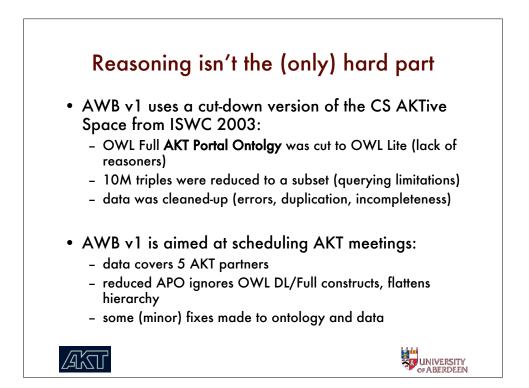


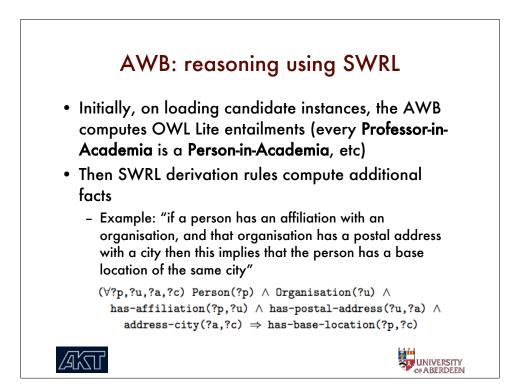


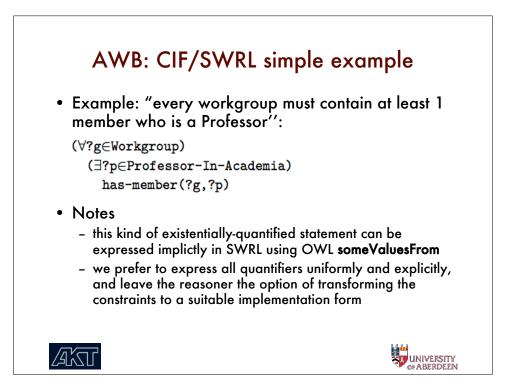




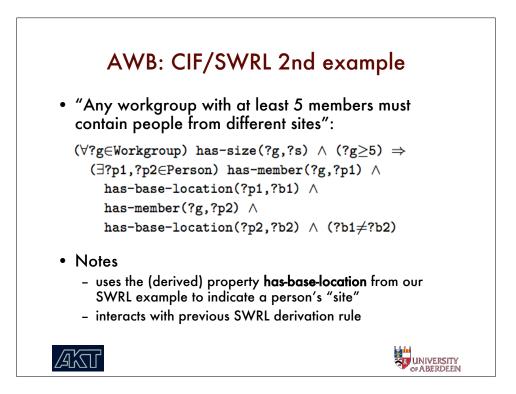


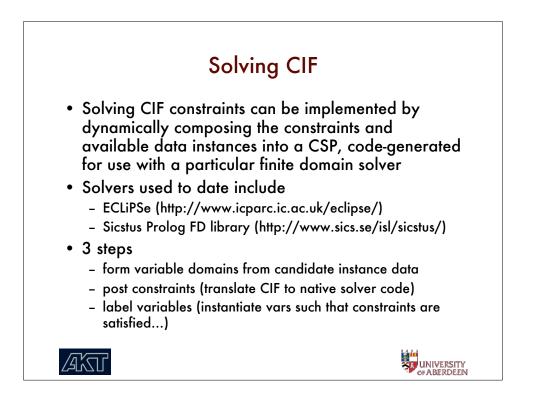


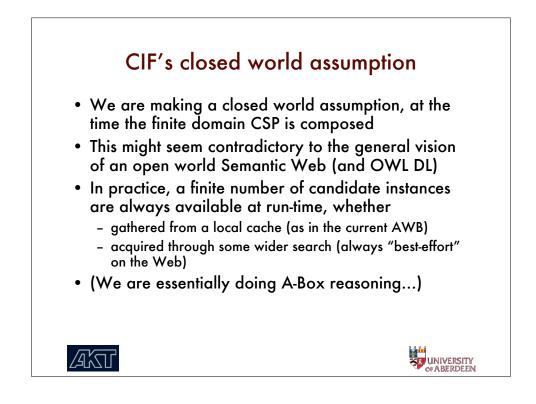


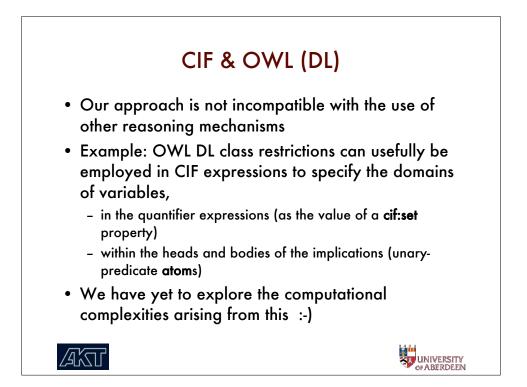


	<cif:Constraint $>$		
In RDF	<cif:hasQuantifiers rdf:parseType="Collection">		
	<cif:forall></cif:forall>		
	< cif: var rdf: resource = "#g"/>		
	<cif:set rdf:resource="&akt;#Workgroup"></cif:set>		
	<cif: $Exists>$		
	<cif:var rdf:resource="#p"></cif:var>		
	<cif:set rdf:resource="&akt;#Professor-In-Academia"></cif:set>		
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<swrl:imp> <swrl:body rdf:parsetype="Collection"></swrl:body></swrl:imp>			
	<swrl:individualpropertyatom></swrl:individualpropertyatom>		
Note: the (OWL Lite)	<swrl:classpredicate rdf:resource="&akt;#has-member"></swrl:classpredicate>		
ontology URI is	<swrl:argument1 rdf:resource="#g"></swrl:argument1>		
0,	<swrl:argument2 rdf:resource="#p"></swrl:argument2>		
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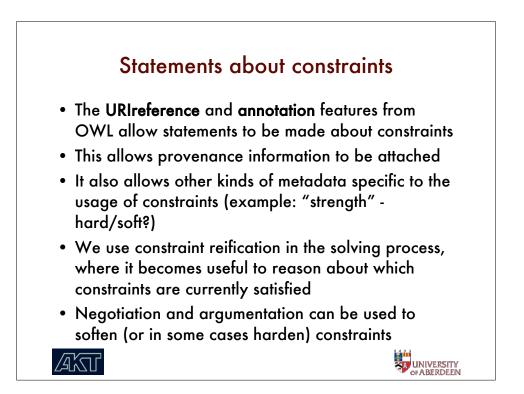








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Conclusion

- Contributions:
 - a representation for fully-quantified constraints at the Semantic Web logic layer, as an extension to SWRL
 - a realistic test-bed application: the AKTive Workgroup Builder
- Work on multi-strategy reasoning in the AWB is ongoing:
 - Jena 2 for OWL Lite reasoning
 - trials with Jena 2, Hoolet, Jess, & Prolog for SWRL inference
 calling SICStus Prolog FD library from Java via PrologBeans
- We aim to combine these into a practical hybrid reasoner, exploring complexity/scalability trade-offs



