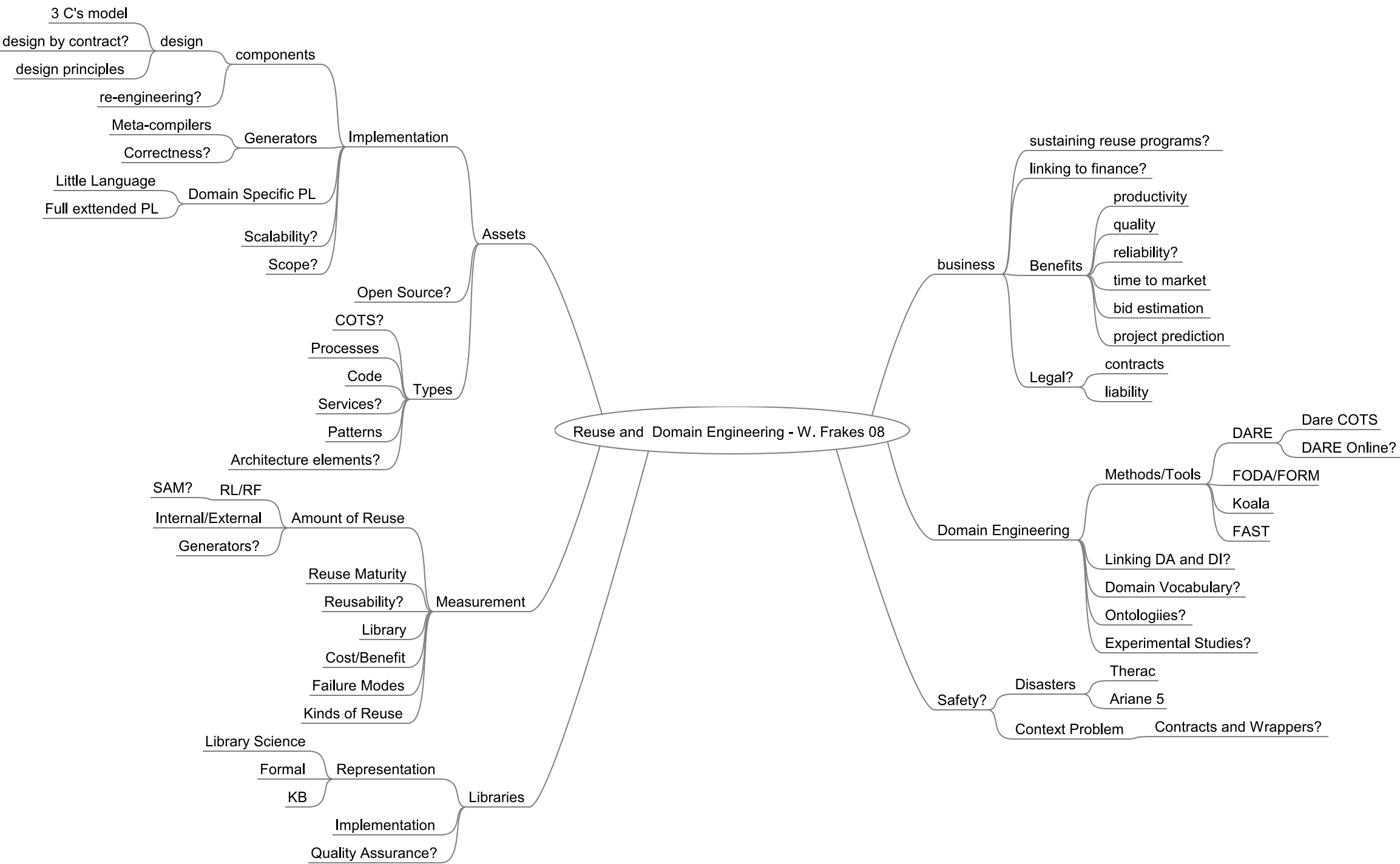
Reuse and Domain Engineering - W. Frakes 08
Assets
Implementation
components
design
3 C's model
design by contract?
design principles
re-engineering?
Generators
Meta-compilers
Correctness?
Domain Specific PL
Little Language
Full exttended PL
Scalability?
Scope?
Open Source?
Types
COTS?
Processes
Code
Services?
Patterns
Architecture elements?
Measurement
Amount of Reuse
RL/RF
SAM?
Internal/External
Generators?
Reuse Maturity
Reusability?
Library
Cost/Benefit
Failure Modes
Kinds of Reuse
Libraries
Representation
Library Science
Formal
KB
Implementation
Quality Assurance?
business
sustaining reuse programs?
linking to finance?
Benefits
productivity
quality
reliability?
time to market
bid estimation
project prediction
Legal?
contracts
liability
Domain Engineering
Methods/Tools
DARE
Dare COTS
DARE Online?
FODA/FORM
Koala
FAST
Linking DA and DI?
Domain Vocabulary?
Ontologiies?
Experimental Studies?
Safety?
Disasters
Therac
Ariane 5
Context Problem
Contracts and Wrappers?