

The Donut of
Equivalence



A Recurrent
Pattern

A Consumer's View of Unbundling



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Three Short Cases

(of donuts)

The Original
Donut of
Equivalence



Extreme
Engineering

Aggregate
XML
Data Tables

TABLE I					
STANDARD NUMBER	NOMINAL THREAD SIZE UNF-3A	D/A ± .005		C	
		D/A + .000 - .015	MAX	MIN	
3	1900-32	364	290	297	
4	2000-28	470	312	347	
5	2125-24	580	375	424	
6	2375-20	684	437	507	
7	2625-18	785	500	581	
8	3000-16	823	562	651	
9	3625-14	933	625	724	
10	4250-12	1045	687	797	
12	7500-10	1225	812	940	
14	8750-10	1433	937	1080	
16	10000-12	1620	1062	1225	
18	11250-12	1870	1250	1444	
20	12500-12	2120	1312	1517	
22	13750-12	2380	1425	1682	
24	15000-12	2585	1550	1866	

The Donut of Equivalence



Part
Suppliers

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Dozens of different
XML representations

Part-type
specific
XML Editing

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Formatted
XML Tables



Two Global Lean
Manufacturing Awards



On Demand
Part Production

Assembly
Management



Enabling the
flow of
information

Continuous
transformation
& validation



“This was
hard”

“That’s nice.
We thought
it was
impossible”

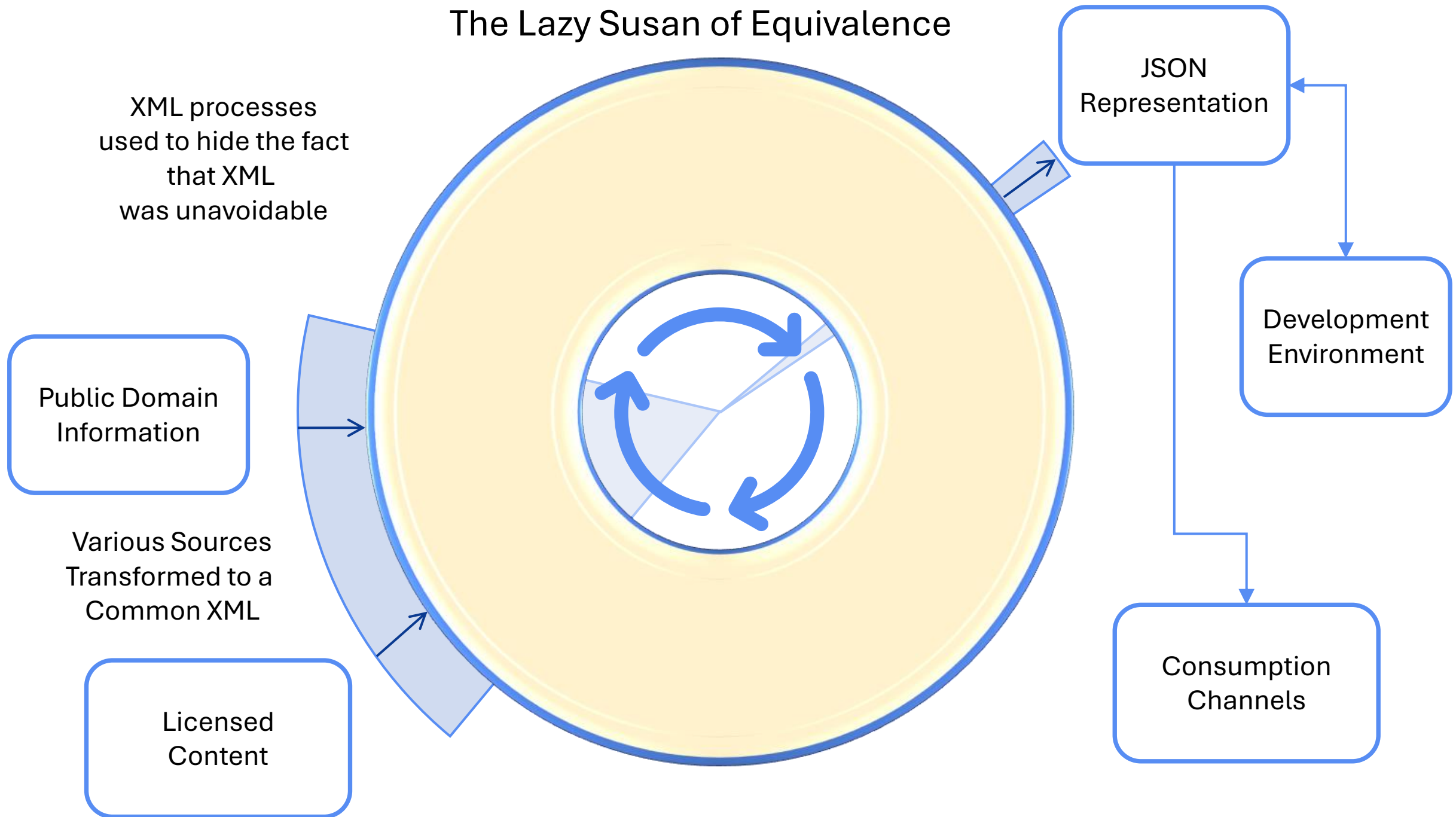
Silicon Valley
Start-up



“We hate
XML”

“That’s
only fair”

The Lazy Susan of Equivalence



XML
(intentionally)
kept on the
outside



Knowledge
of XML
& XML tools
was not
welcome

Digital
Humanities



XML to
the rescue

The Reference Desk of Equivalence

Digital Miscellanies Index

“Extended”
Data

Created by
Earnest Grad
Students

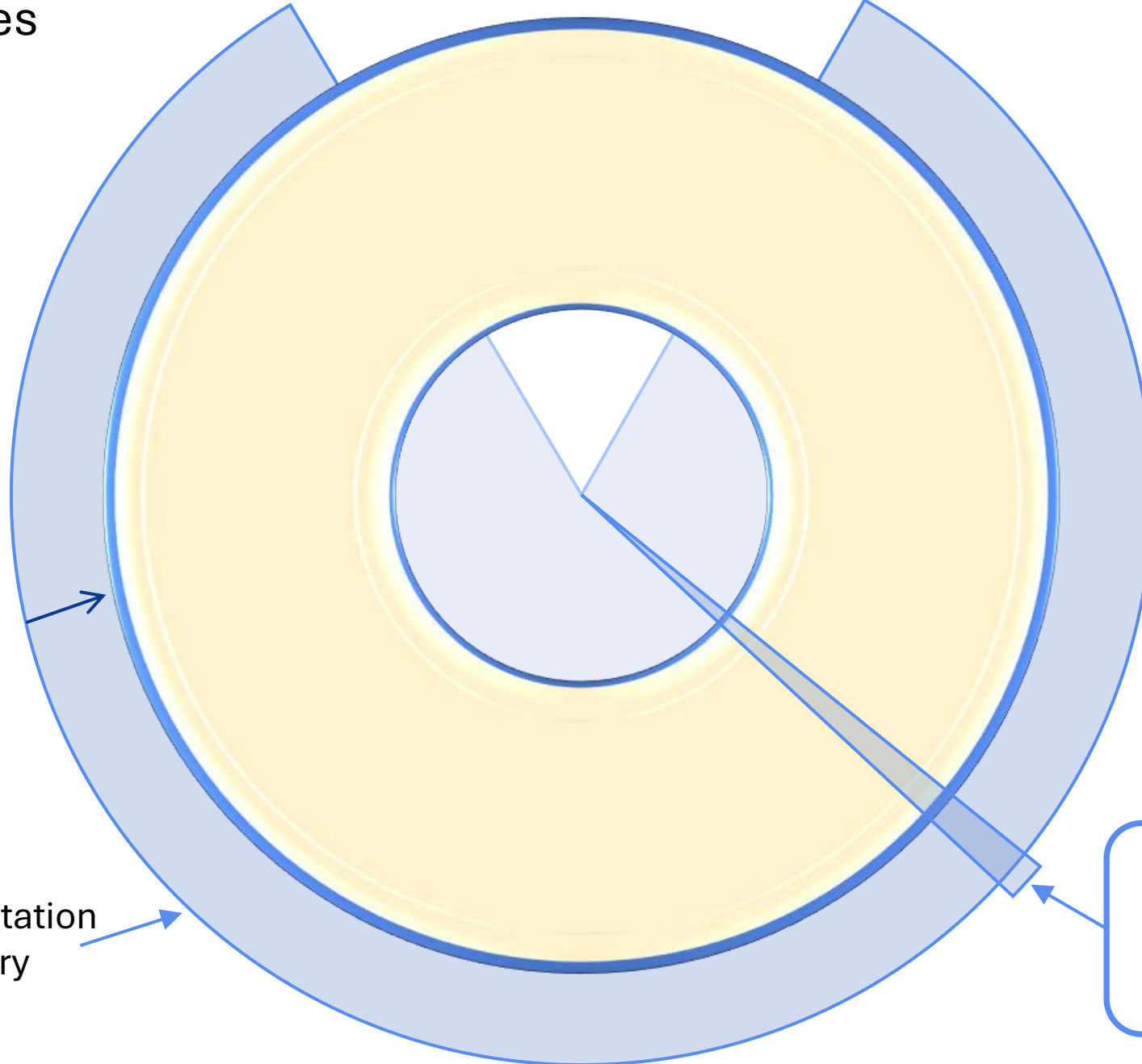
KAML

*Kings Arms
Markup Language*

Emergency Implementation
XML | XSLT | XQuery

XML solution
replaced with
revamped database
solution / Web UI

Lingering
XML Import
Channel for
New Sources



XML used to
rapidly realize
an operational
solution



Allowed
project to
understand
the data &
requirements

As solutions
grow in scale,
the role of XML
shrinks
- becoming
more selective
& specific



*Counter-
intuitively*, as
its role shrinks,
the potential
value of XML
increases

Value lies in finding ways to fit in