From Push to Pull: The Evolution of Service Delivery

GIS Conference

Oklahoma City, OK

November 5, 2010



Alex Z. Pettit
Chief Information Officer
State of Oklahoma



What is this really about?

- Why is this so complicated?
 - ➤ Show me the money!
 - > Redefining the elements of service
 - F It's not only about processes, but transforming relationships with students, faculty, and staff
- Why is alignment so difficult?
 - > PER (or why can't we just buy this stuff?)
- Process vs. outcome orientation
 - ▶ Government runs on commitment more than control
 - ➤ Build bridges via deeper trusted communities
 - F How do you build trust in an online world?
 - F Online communities
 - ▶ Differences between the pioneer and the settler

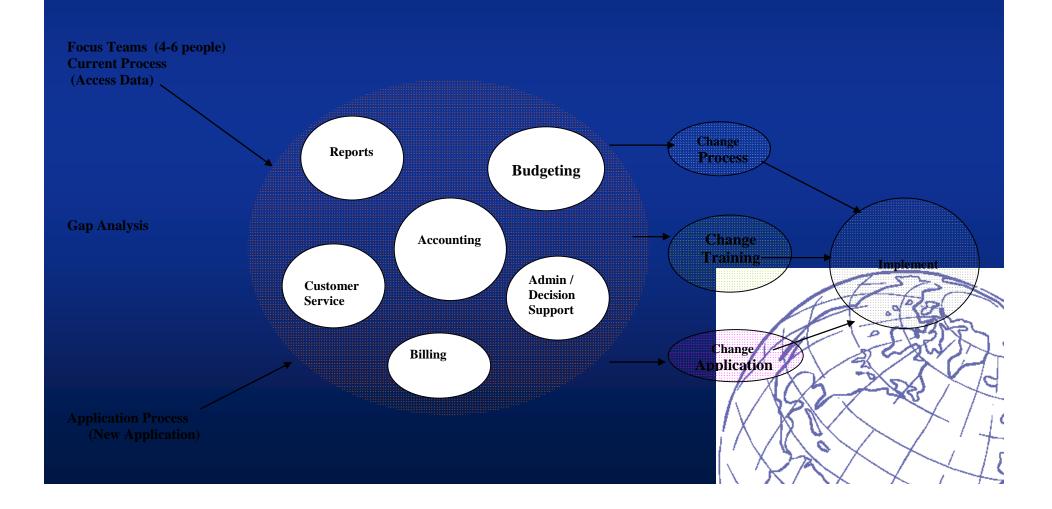


Alignment, alignment, my kingdom for alignment!

- All SIM surveys (20 years) alignment is top concern
 - ▶ The ball keeps moving
 - F Support the technology available to the citizen
- Moving Technology to the Front Lines
 - ► Elimination of the information specialists
 - F Access to information in a pre-determined structure
 - Information in a structured form (Eliot, 1901)
 - Wisdom = integration of knowledge into system (Cleveland, 1982)
 - > A significantly different role for the internal service
 - F Focus on essence, not accidents (Brooks, 1995)
 - Delivery of the education to the student
 - F On demand, at their location, using any access point

How did we get here?

■ Package Enabled Re-Engineering (COTS)



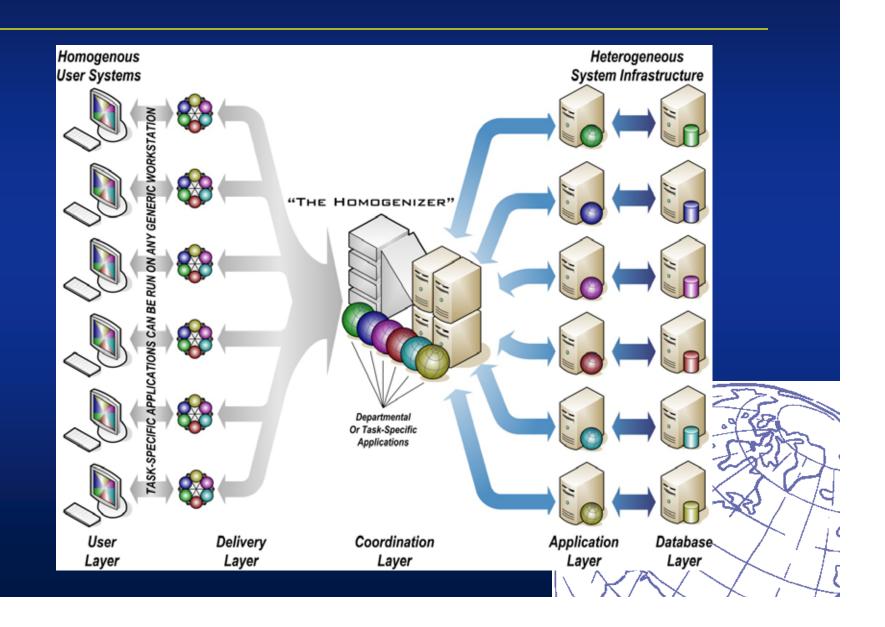
Using PER/COTS We Achieve:

- Department Alignment
- Short Term ROI/Reduced time to market
- Usability
- Quality
- "Best Practice Re-engineering"
- For organizations without much integration or CLO's who need short term results, this methodology is very appealing

Using PER/COTS We Forego

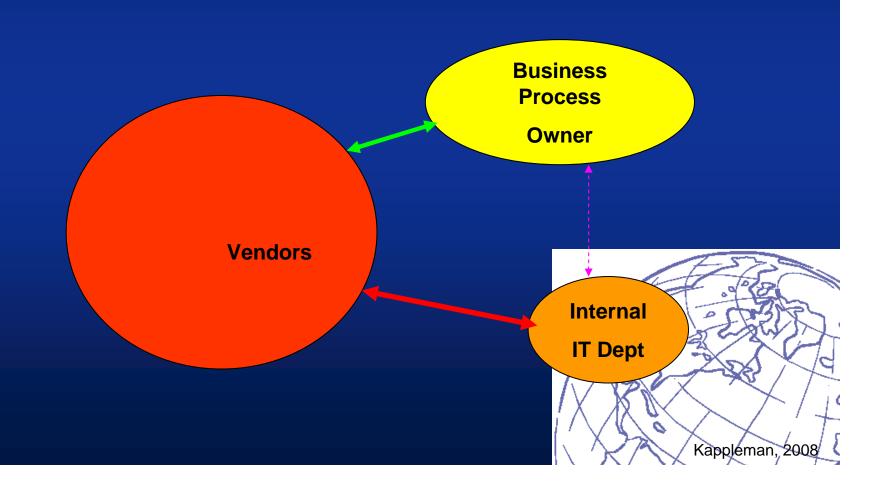
- Cross-Departmental Integration
- Flexibility
- Inter-operability
- **■** EDI Seamlessness
- Adaptability
- Re-usability
- Synergy and TCO
- These consequences are less visible the greater the stovepipe culture

Carr: IT Doesn't Matter



The Rise of the Vendor

Balance of Power



But Is that all there is to IT?

- Where is the Value in Information Technology?
- What is Information?
 - Expandable gets bigger as it is used
 - Compressible miniaturized
 - Substitutable replace capital, labor, physical materials
 - Transportable at the speed of light!
 - Diffusive tends to leak
 - Sharable we both have it after I give it to you
- What about Technology?
 - Human factor challenges
 - Content delivery challenges



Enterprise Architecture

- What Good, for Which People, at What Cost?
- Does this really address the problems in GIS?
- Un-federated Architecture



	What	How	Where	Who	When	Why	
Strategists interpreting the theorists							Identify the Scope Boundaries
Executive Leaders for the owners		Resource Ideas	е	Behaviour Ideas			define the Business Concepts
Architects as the designers	_	LIINIC	20	A C-	TIO	VIC.	represent the System Logic
Engineers as the builders		HING		AC		19	specify the Technology Physics
Technicians as the contractors	Resource Reality			Behaviour Reality			configure the Component Elements
Workers as the participants							operate the Enterprise
	of Inventory Sets	of Process Functions	of Network Positioning	of People Organizations	of the Timing	of Motivation Reasons	X

R

Federated Security?





132



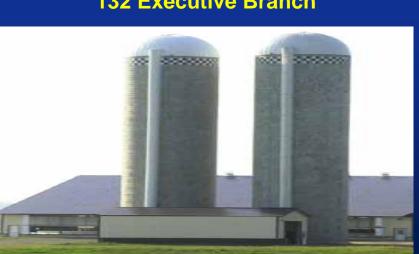


Un-Federated Security

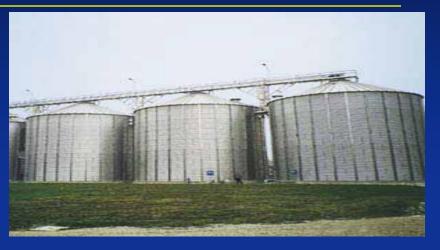
184 "IT Silos" in 4 Major Groups



132 Executive Branch



Legislative Branch (+LSB)

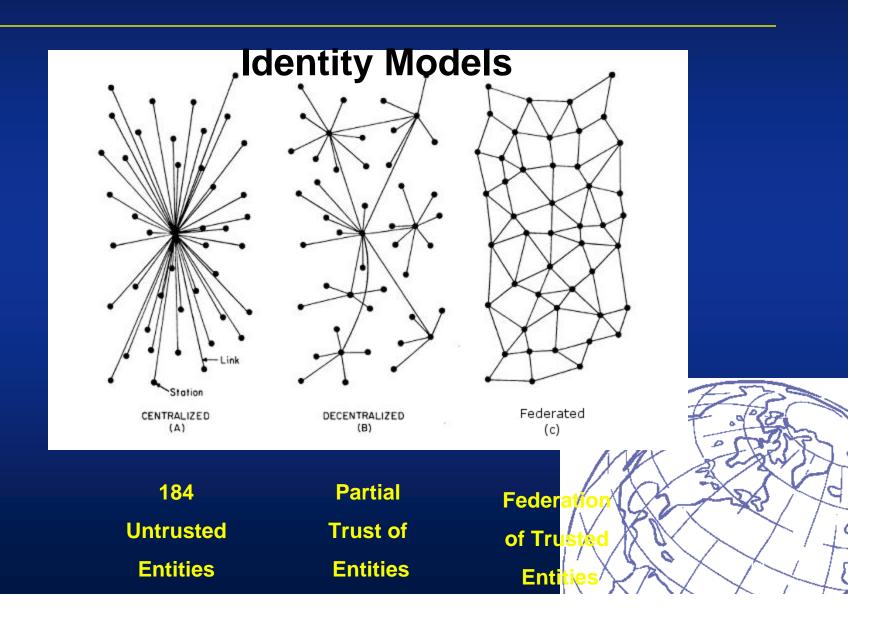


4 Judicial Branch



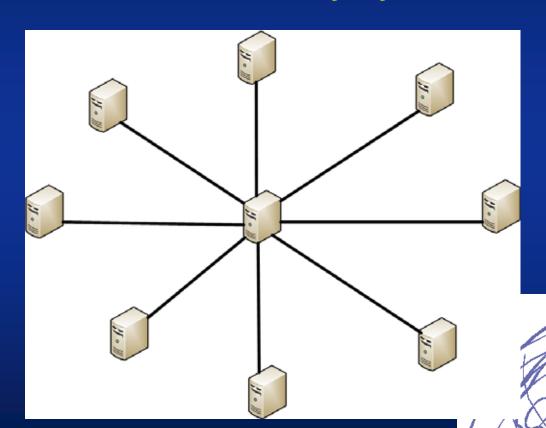
45 Higher Education

Federated Security



Federated Security

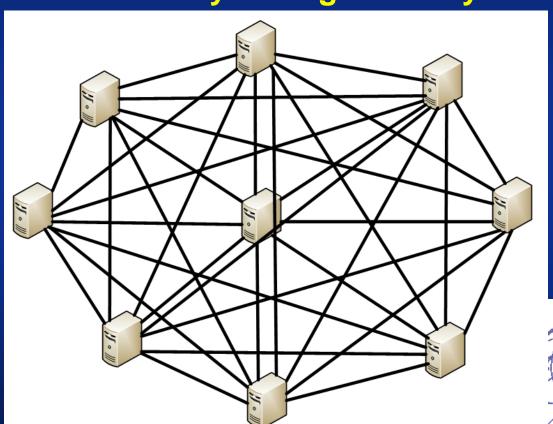
Shibboleth Identity System



Handles Identity Requests from LD

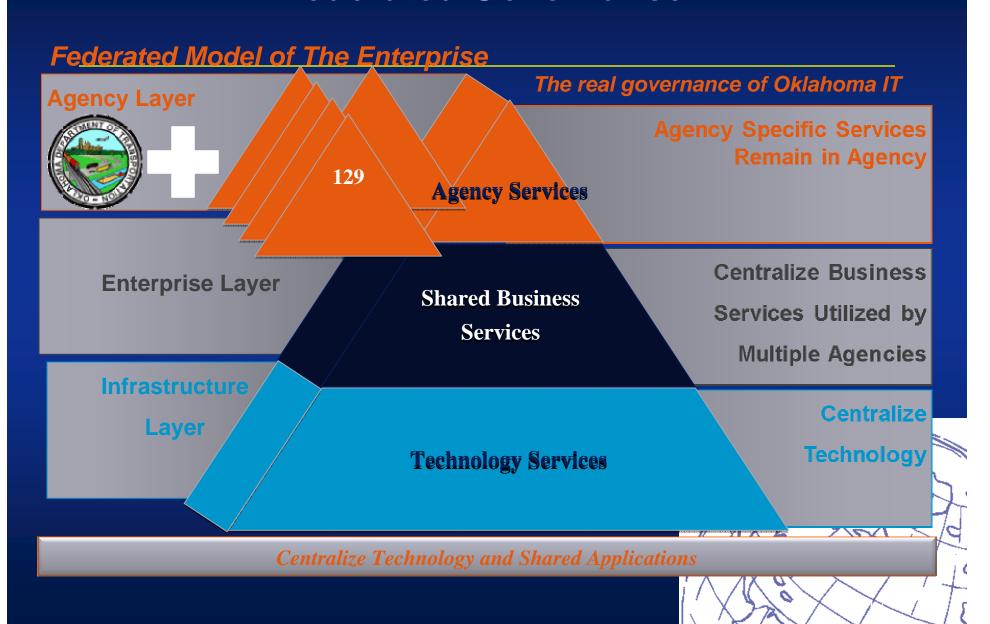
Federated Security

Federated Identity Management System



Works with Shibboleth to Form the Web of

Federated Governance



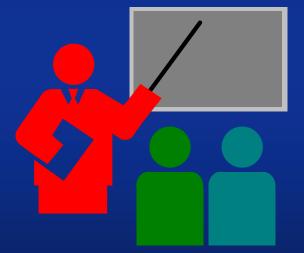
Why	Who	What	How
Resources Buy-In Strategy	Governance Council	Leadership • Pioneer • Settler	"Outside" Advisory Council • 2 ISD CIO appointments • 3 External Business People UN Model • 5 large • 2 rotate
How Well What Next	Business Council	Management • Delivery Partnership	Partnership Committee
Performance Improvement	CIO Process Council	Operations • Metrics • Process • Technology • Infrastructure • Organization – shadow staff • People	Working Groups and Communities

What Will We Do Differently?

- This is both a Technology and Policy Direction
 - ▶ Which elements are ready to go?
 - Efficiency and effectiveness issues to balance
 - F True assessment of where we are
 - F What additional services could we offer within the community?
- Transforming the Definition of E-gov
 - ► The transformation and integration of relationships
 - F How far are we willing to go?
 - The act of discovery consists not in the finding of new lands but in seeing with new eyes Marcel Project

Stump the CIO

Questions?



■ Thank You!



References

- Ambler, S. (1998). Process patterns: building large-scale systems using object technology: Sigs Pubns.
- Brooks, F.P. (1995). "No Silver Bullet Essence & Accidents of Software Engineering" in Information *Processing 86*. H.J. Kugler, ed., Elsevier, 1069-1076. (Invited paper, IFIP Congress '86, Dublin) Reprinted in *The Mythical Man-Month*, 20th Anniversary Edition, Addison-Wesley, 1995.
- Eliot, T. (1909). Choruses from "The Rock". The complete poems and plays, 1950, 96.
- **Kappelman, L. (2010).** The SIM Guide to Enterprise Architecture, CRC Press, 2010
- Pettit, A. (2007). Bridging the Technomic Divide: Using Kiosks and Enterprise Architecture to Deliver Services and Expand Citizen Payment Options in the City of Denton, Texas. *Journal of Enterprise Architecture*, 3 (3), 44-55/
- Zachman, J. A. (1982). Business Systems Planning and Business Information Control Study: A comparison. *IBM Journal of Research and Development*, 21(1), 31.