IM_VTC_20100908

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• see Google presentation

model	s of database design
	loosely coupled individual with links by logic in applications
	e.g can't add to siteDB until are in Personnel database - enforced
	by software
	flexible - can alter modules as long as web service IO stays the
	same
	easy to extend
	easier to split up development work
	requires web services recommendations
	they need to play nicely together
	integrated - tightly coupled
	allows foreign keys and joins
	enforces consistency without business logic
	neither one precludes using CMS as client or use with PASTA
	discussion
	need to be realistic - this is not a "white room" redesign
	model to beat is loosely coupled - works better on moving
	forward existing systems
	Scope differences
	if biblio and personnel are tightly coupled - need
	personnel entries for everyone associated with
	publications
	work with other groups will lead to some scope issues
	g if work with NEON do we need to ingest
	all NEON poeop
	these are not exclusive options
	© could have siteDB and personnel integrated, but loosely
	coupled to biblio
	if went integrated may want to simply hire company that
	specializes in enterprise databases
	advantage of loosely coupled - can move modules forward one at a
	time
	important to avoid redundant and out of sync infomation - need to
	decide what goes where
	share keys across databases, not actual content
	in loosely coupled need to figure out how we will implement
	pseudo-foriegn key
	one business rule we may need is that nothing ever gets deleted -
IM ma	just marked as inactive
IM me	<u> </u>
П	working groups - 3 to choose from

	Mod afternoon
П	Wed afternoon
	everyone looking at Net database
	gesterday
	© could split into gathering requirments and use cases
	end user interfaces
	service interfaces for developers
	models for database desigh
	map out relationships between data
	types
	would prefer a common charge for 3 or 4 groups - get
	vision - what should system look like
	provides use cases
	later sessions can follow up on
	do NOT want to do around the room!
	would focus on requirements at ALL levels
	follow ons would address database questions
	questionaire with 3 to 5 questions to lead the discussion
	general - what are goals
	then perhaps explore more specifics
	What are the challenges
	want to get EVERYONE involved
	look at use cases - what can we DO with the databases
	want to anticipate what scientists will want
	discuss with PIs how they use net databases
	extent to which sites will use network capabilities vs site
	duplication
	where some of these efforts have already been made
	at site
	network DB can't provide LESS service than
	site service
	how do we integrate back into the LNO databases -
	synching site databases
	example - units database - bought some sites out
	for training 1:1
	also need some training on web service clients
	web services - plan is for read and write capable
	could have synchronization service
	still would be good to look at entire paraigm -
	synchronization
	now use Endnote for bibliographic database
	would depend on what sites want to continue or get
	away from it
	parts of requirements gathering
	usually one of 2 or 3 solutions will meet site needs
	some sites operate in larger context - use
	subsets to populate LTER

- this is a good example have examples of harvests etc. using Endnote as exchange service are there existing exchange formats we can use? examples from unit dictionary, projDB need to look at exchange formats XML provides lots of flexibility Can use EML modules as starting point other versions are just a stylesheet away ☐ if use RESTful structure - can support multiple exchange formats unit dictionary does this ClimDB, HydroDB another example Want to be inclusive of all the databases we have now and plan in the future these will become part of PASTA two sessions on Thursday NIS design web services
 - Mason working on outline of questions