

Enterprise 2.0 Conference

Boston – June 12, 2008

Virtual Teams 2.0, 3.0, 4...

Jessica Lipnack and Jeffrey Stamps, PhD NetAge, Inc.

> www.netage.com +1.617.965.3340



What We're Doing Here Today

Session Title: Virtual Teams 2.0, 3.0, 4?

Date: 6/12/2008 Time: 10:45 AM

Session Description:

Virtual teams have always been in the 2.0 world, adding content to their shared online spaces, carrying on conversations after the lights have gone out, trying out new media. But the explosion of 2.0 technologies - and the advent of a generation that knows more about how to work online than their bosses - has altered (and will continue) to alter the virtual team landscape. What are the simple ideas that can slice through the complexity facing virtual teams? How can they easily form networks? How can they navigate among the multiple organizations that they serve? Hear the latest from the people who coined the term "virtual teams".

- Who Are We?
- Global Collaboration 2010 and beyond
- Virtual Teams 2.0 Combine Methodology and Innovation
- Team Rooms and Real-World Complexity
- Mapping Organizations as Networks
- Global Collaboration 2.0: When OrgScope and Wikis Combine



Who Are We?

Writers



Consultants





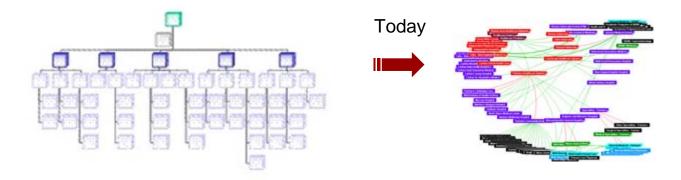


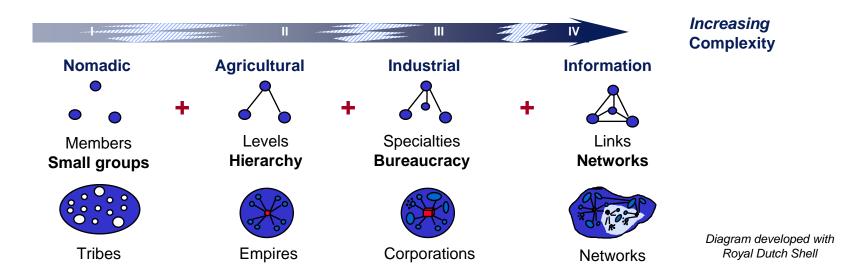
OrgScope

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From Tribes to Networks: Organizations Have Never Been More Complex





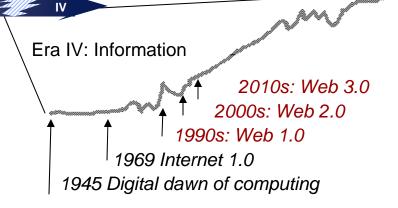
Internal complexity must match or exceed external complexity ("Requisite Variety" - Ross Ashby)



From Earliest Moments, Net User-Generated

1969: First Internet (DARPANET) connects UCLA and Doug Engelbart's SRI lab. Basic infrastructure for sharing computing power always vehicle for person-to-person collaboration

1969: Engelbart demos Augment, first "groupware"



1974-1991: Murray Turoff and Starr Roxanne Hiltz develop and launch EIES (Electronic Information Exchange System) forerunner of online discussions, forums, and communities of practice

1980s: Communities open online: Metanet, The Well, NE Commons, PresbyNet; discussion platforms like Participate, eForum; services like CompuServe, AOL

1980s: Internal forums and team room experimentation in high-tech companies like Digital Equipment Corp, HP, IBM

1986: LISTSERV, first electronic mailing list software application, sparks vast numbers of newsgroups and bulletin boards

1991: Tim Berners-Lee posts his tools for World-Wide Web on newsgroup. In a moment, emergent Information Era tips into growth phase towards global dominance. "Web is still in its infancy," Sir Tim Berners-Lee tells BBC, <u>April 2008</u>



Profound Shift in Way We Work in Just 10 Years

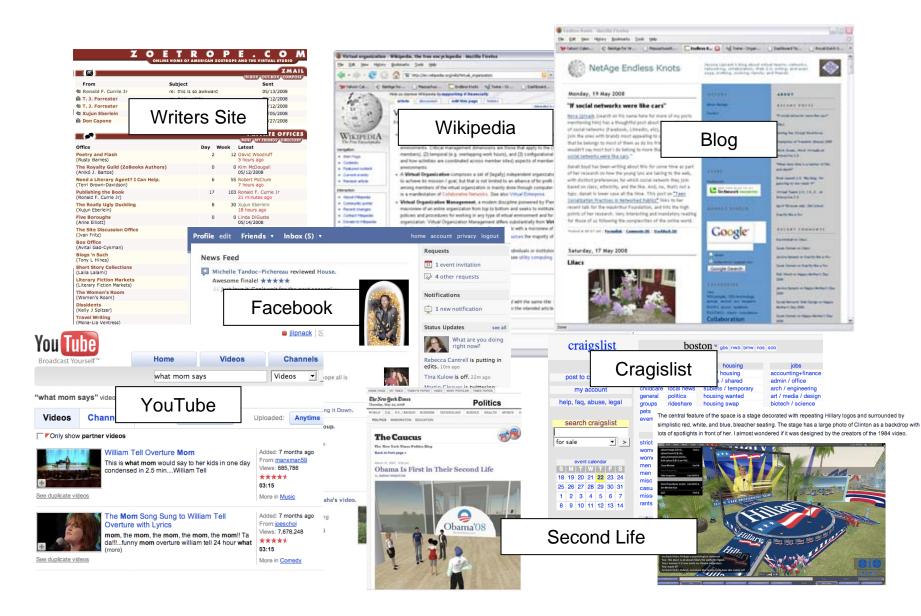
"We need to Equip Soldiers to engage the new media. If we educate them and encourage them, we need to trust them enough to give them the tools to properly tell/share their stories." --"Changing the Organizational Culture (Updated)," by Frontier 6, <u>Small Wars Journal Blog</u>, January 1, 2008

- <u>From</u>
- Face-to-face
- Go to a meeting
- Snail mail
- Attachments
- Filing cabinets
- Libraries
- Water cooler
- War rooms
- Memos and newsletters
- "I'm out"
- "I'm in"
- Wired
- **9-5**

- <u>To</u>
- Conference calls (and Facebook)
- gotomeeting.com
- Voicemail to email to "no mail!"
- Links
- Files in folders
- Search, Wikipedia, Intellipedia
- Online communities
- Virtual rooms
- Wikis, blogs, chat, podcasts, vlogs
- BRB
- IM
- Wireless
- 24/7 (Follow the Sun)



Some Faces of Web 2.0





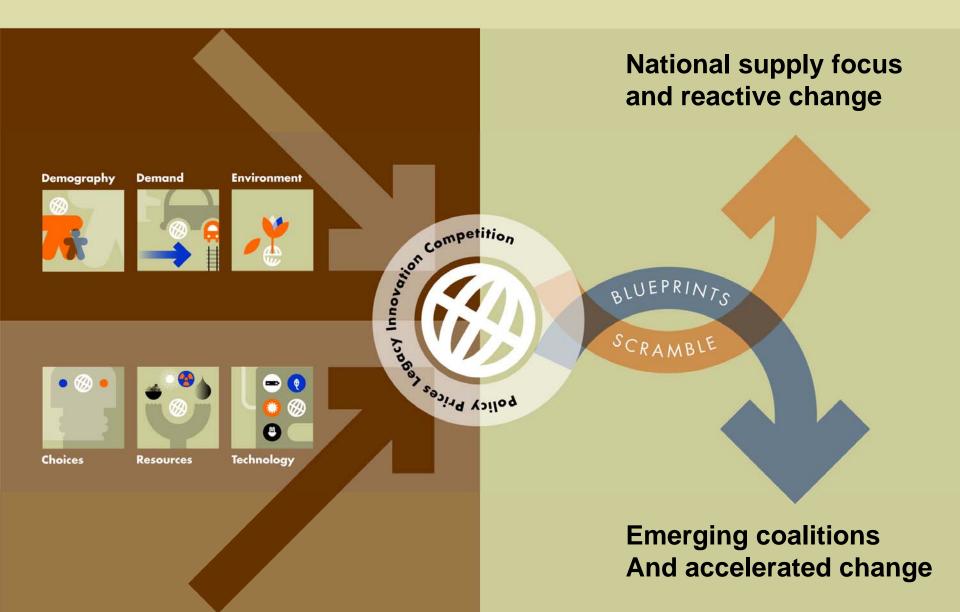
Virtual Teams 2.0 Means (at least) Two Big Things

- (1) Virtual Teams 2.0 enhanced with web 2.0 technologies
 - Essence of web 2.0 = user-generated content and relationships social, work (or both)
 - Teams generate core knowledge of organizations
 - Have always had member-generated stuff and real-time exchanges
 - Teams naturally 2.0-ready at heart of healthy Enterprise 2.0
- (2) Virtual Teams into second generation virtual team rooms
 - First generation (1969-1990s) comprised isolated online team room experiments for highvalue projects
 - As web exploded, model proliferated into vast numbers of individual team rooms
 - Wide range of platforms with little common internal architecture or attention to virtual team processes
 - Currently in transition to second generation of **networked** virtual teams
 - Set in larger environment of many collaborating teams within and between organizational networks
- By happy coincidence, each meaning reinforces other
 - Web 2.0 technologies enable full-spectrum collaboration across organizational, team, and individual scales
 - Second-generation virtual teams are "organizing middle"
 - Ties together large-scale virtual organizations with power of individual person

Urgency for Upgrading Global Collaboration to 2.0 at all Scales

- Horizon 2050: Humanity will have won or lost battle to save planet from worst-case global warming scenarios
- Shell has two "scenarios" for 2050: Scramble and Blueprints
 - Scramble = "National supply focus and reactive change"
 - Blueprints = "Emerging coalitions And accelerated change"
 - Shell calls for transition via collaborative "Blueprints"
- Window for making right collective decisions: Now-2014
 - Given extremely long timelines for energy and infrastructure investments to come online, near-term decisions will determine long-range outcome for 2050
 - Next five years critical for collaborative effort on vast collective scale
 - Need to support rapidly acceleration of cross-boundary work in increasingly complex contexts to innovate, negotiate, and operate sustainable world

Shell energy scenarios



In summary – what we have learned



- The three hard truths are very hard
 - Surge in energy use
 - Supply will struggle to keep pace
 - Environmental stresses are increasing
- Transition is both inevitable and necessary
- Technology plays a major role, but no silver bullets
- Political and regulatory choices are pivotal
- The next 5 years are critical

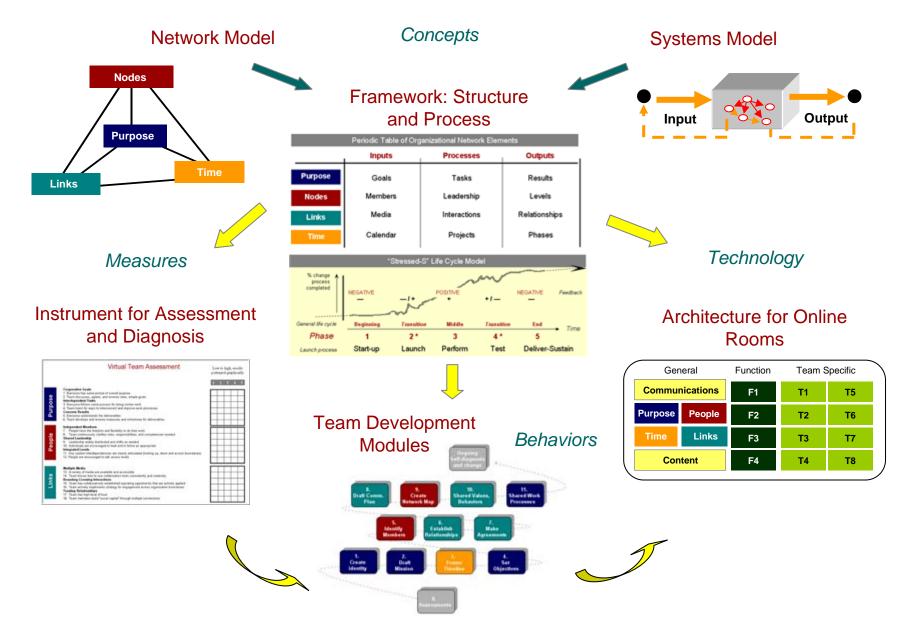
Red and bold emphasis added

Tackling all three hard truths TOGETHER is essential for a sustainable future



So How Do We Get There? Virtual Teams 2.0-Combining Methodology and Innovation

Methodology Integrates Team Development and Online Workspace

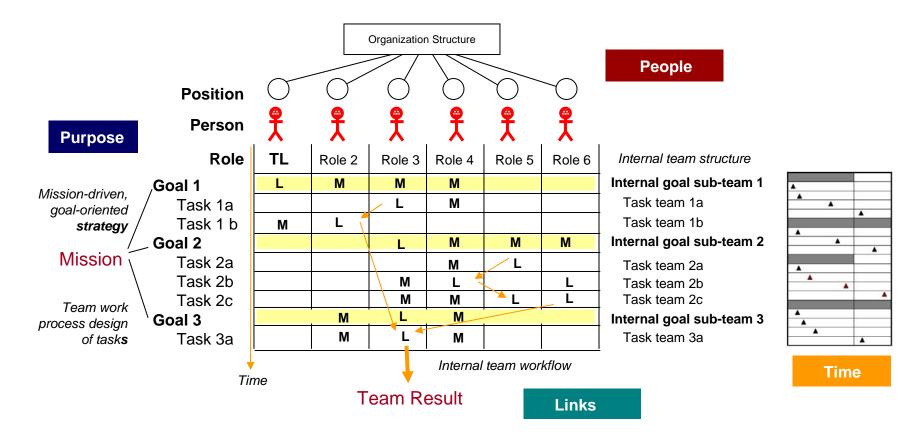




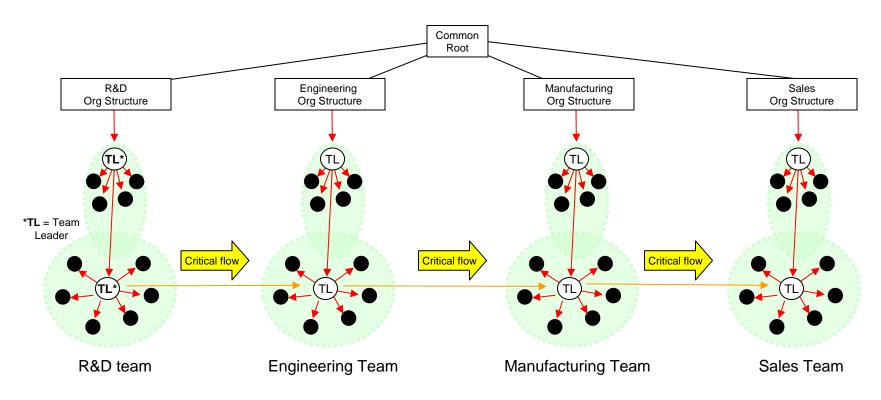
Recognize Role-Based Networks Inside Teams

Teams are source and repository of organization's "how-to" practical knowledge

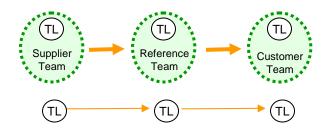
Enhanced Deployment Flow Chart connects Purposes with People in Complex Multi-level Organizational Structures



Understand Critical Path of Workflow Across Network of Teams ("Teamnet")



External inter-team critical-path workflow



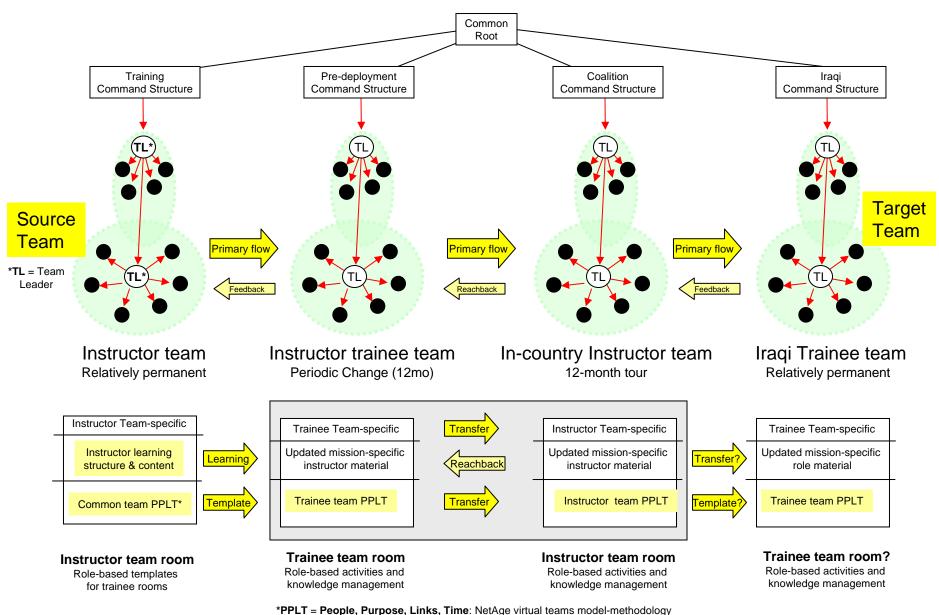
Tactical leadership workflow

Workflow links map flow between teams; adds up to overall input-output system of organization as whole

Complexity of team's internal workflow simplified as external process flow between two team leaders, representing respective supplier-customer teams



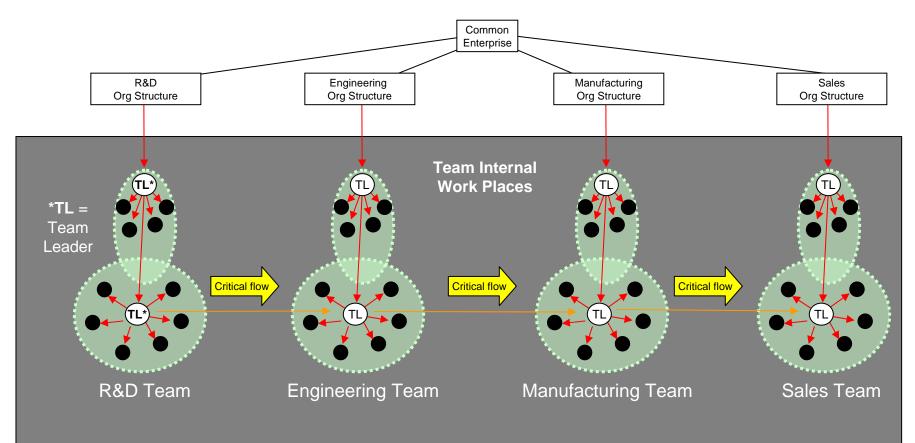
Real-world Example: Training Iraqi Teams



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Embed Virtual Team 2.0 Rooms in KM and Collaboration Platforms



Organization's Knowledge Management System and Collaboration Platform



NetAge Example: Livelink virtualteams - Links Wall

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BCKS Virtual Teams Net Room (in Development)

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Team Members Team Pictures People Docs Network Map		o Bob Dalton's fun initiative, we will soon be adding animation	to the ToL Dev	elopment ca;	abilities! Yeah!!!		
Purpose							
Mission / Values							
Objectives							
 Tasks 			9	0	9		
Links			25				
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Briefings	1.1	Create an online TeamsNet environment		In Process	John W. Kessler		
 White Papers 	1.2	Develop a TeamsNet SOP		Pending	Michelle Hannah		
and the second					John W. Kessler		
References		Develop a TeamsNet Training Program		Pending	Michelle Hannah		
Operating Definitions	1.3				and a state of the second state		
	1.3	Develop a TeamsNet Marketing and Communications program Write the Leader's Guide to High Performing Teams		Pending Pending	Michelle Hannah Michelle Hannah		_

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screen "fold"



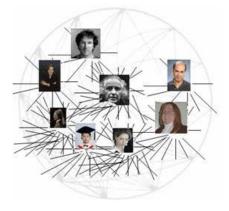
And They Map Multiple Networks



People in Organizations Work in Two Basic Networks

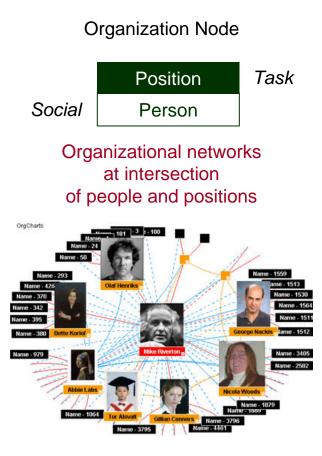
Social network

Position network



"Subjective" organization







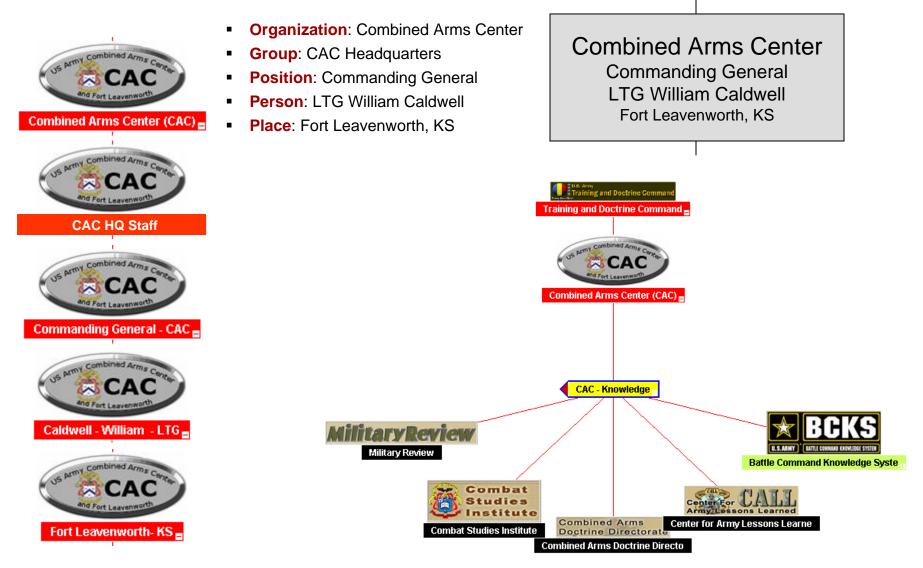
"Objective" organization

Position as Node



One Organization Node Represents Multiple Elements

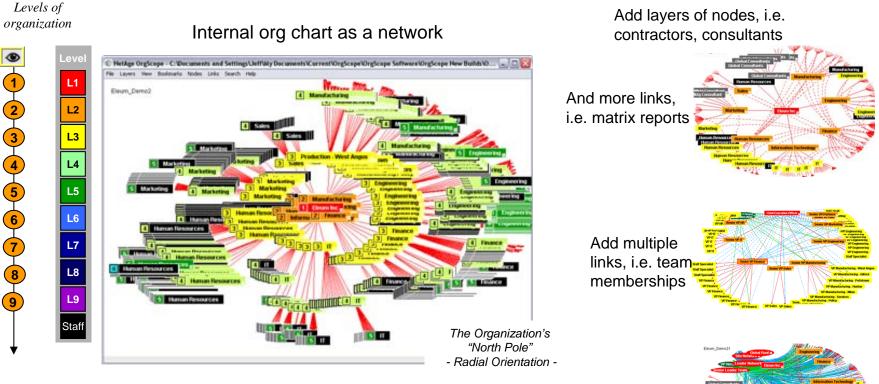
An org chart "box" as node





OrgScope: Map Organizational Networks and Add Layers

A classification hierarchy – e.g., a formal organization chart – provides network infrastructure for adding layers of nodes and links (i.e., other networks)

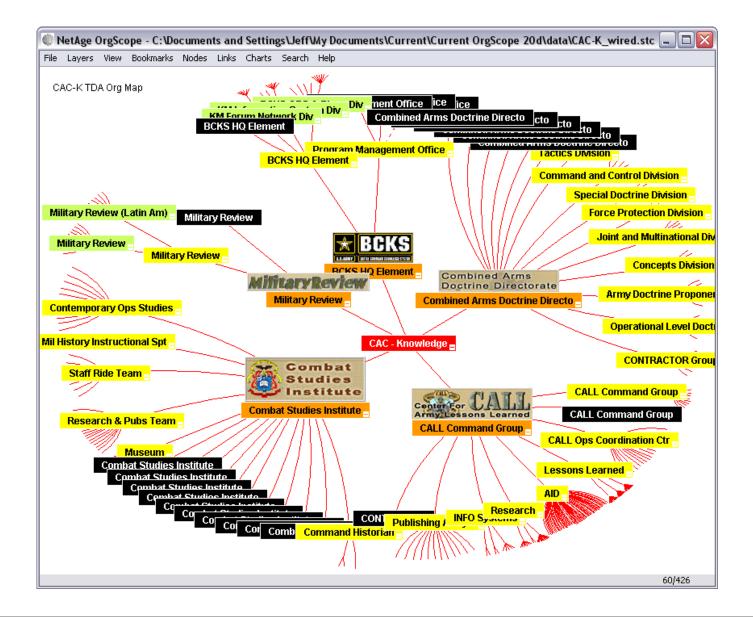


We map positions and organizations and color code them by level (in a nested hierarchy of whole-part relationships)

And cross-membership



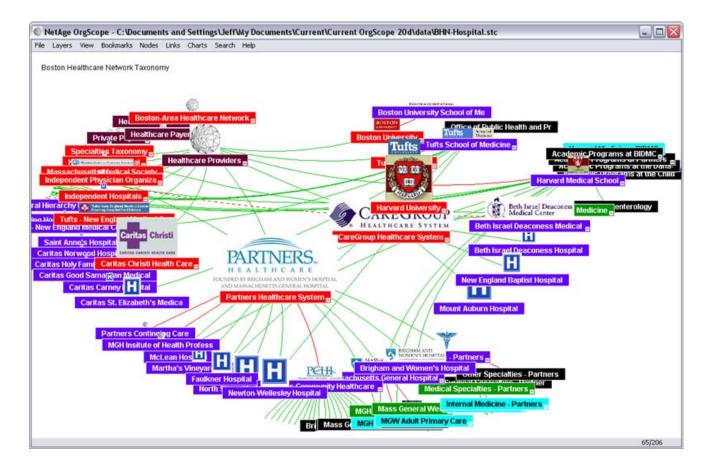
OrgScope Map of CAC - Knowledge Organization





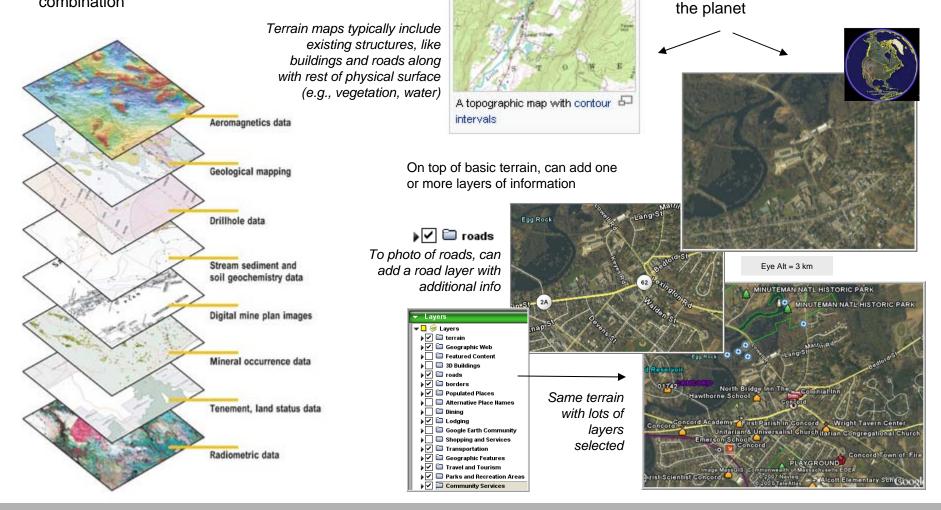
Boston Medical Network Showing Some Interrelationships

Skeleton framework of regional providers-network with institutional affiliations



Organizational Structure Like Physical Terrain - Just Add Layers

Topography begins with "ground truth," basic relief map. To one well-articulated terrain map, essentially unlimited number of layers may be added singularly or in combination



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Virtual Teams 2.0 in Enterprise 2.0 - June, 2008

Google Earth presents stitched-

together photograph of surface

terrain of earth, complete with

human structures that overlay



How One Organization Used OrgScope

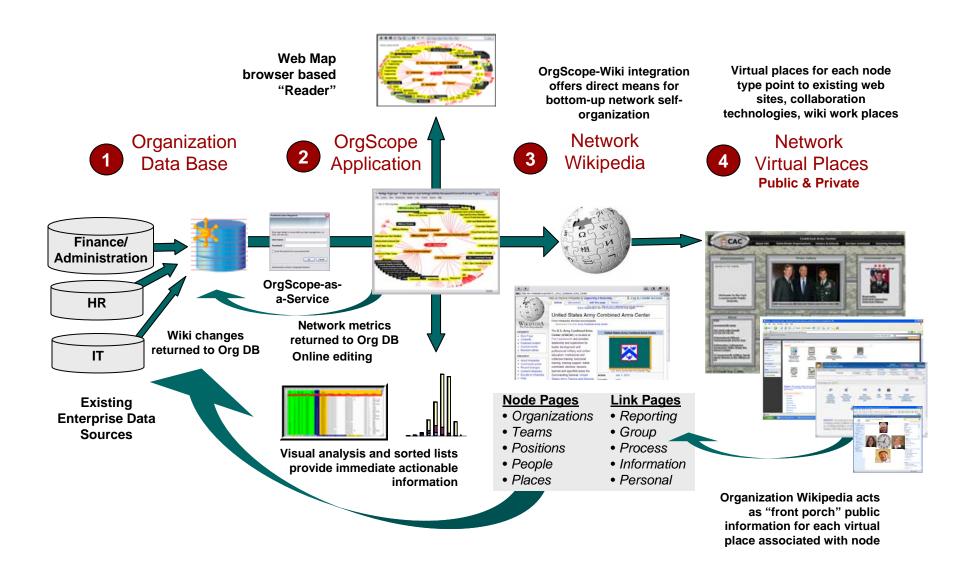
- Company of 5000 people, working across eight countries, mapped its formal hierarchy and found:
 - Shorter communication paths: direct to managers
 - Highly-connected managers: A few "span hubs" spoke to much of organization on a regular basis
 - Managers with largest organizations: Buried deep in hierarchy, these people were not part of existing leadership development programs
 - Managers missing from leadership forums: Again, because of their placement deep in organization, people with unusually large or complex leadership responsibilities were not visible
 - The truly virtual teams: By comparing locations of members, distributed management teams could be identified
 - The people at risk: By comparing measures of organization size, span, and physical distribution, they were able to spotlight positions where people's loads were unusually complex, dubbed "hotspots"



Global Collaboration 2.0: When OrgScope and Wikis Combine

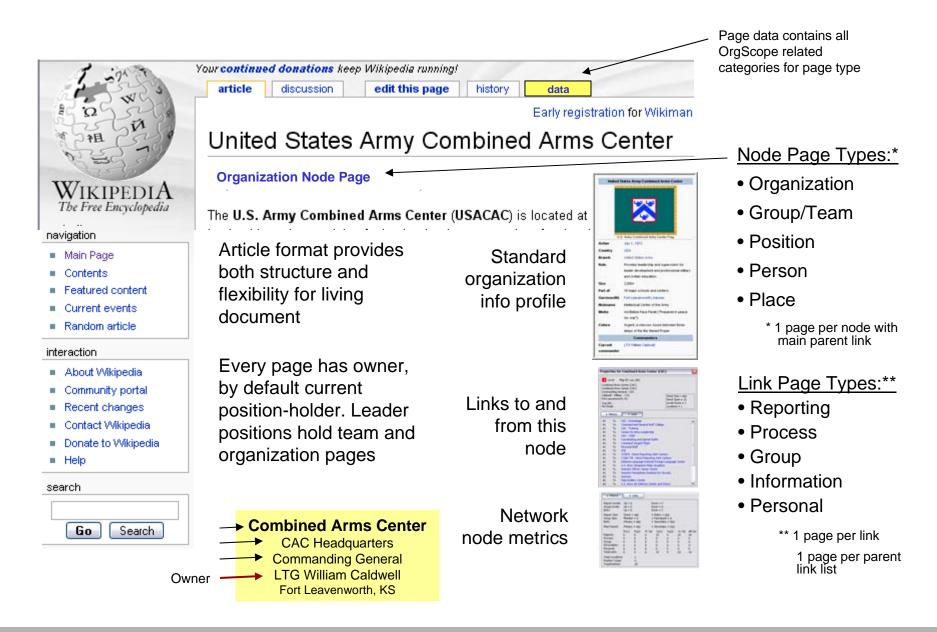


The Elements of Integrated OrgScope-Wiki System



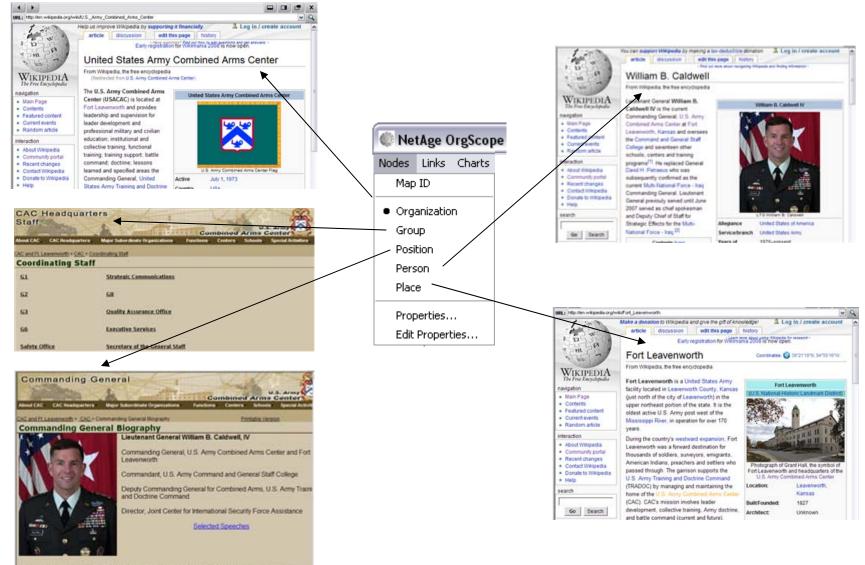


"Netpedia" - Wiki Page for Each Node & Link





One Node May Reference Multiple Wiki Pages



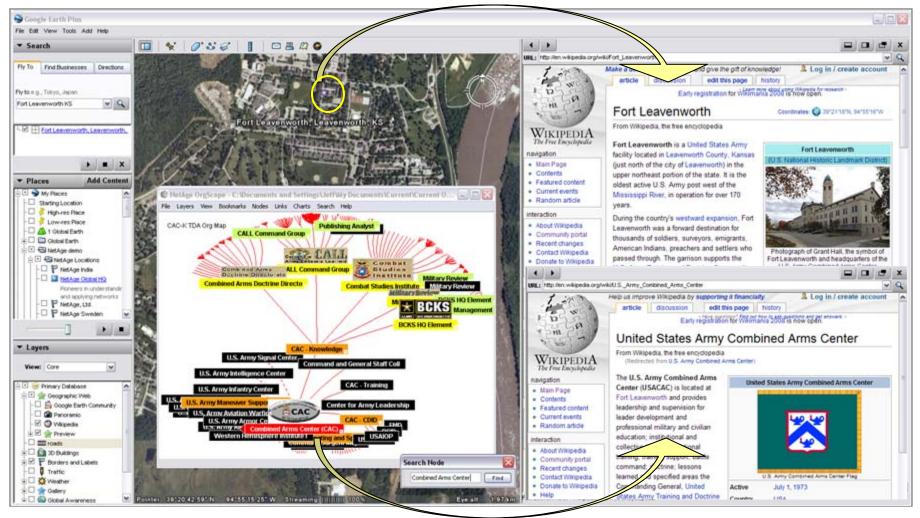
Lieutenant General Caldwell currently serves as the commander of the Combined Arms Center at Ft. Lieuwenworth, Kansas, the command that oversees the Command and General Staff College and 17 other



Combine Organizational and Situational Awareness

Place Layers Place Search

Hot button to Wikipedia entry on place



Org Layers

Organization Search

Hot button to Wikipedia entry on organization



"Only Connect"--E.M. Forster

"We are born to work and play together in teams, but we have to give enough of ourselves to let the filaments connect"

> Paul F. Levy, soccer coach; CEO, Beth Israel Deaconess Medical Center; and blogger: <u>Running a Hospital</u>

NetAge, Inc.

505 Waltham Street West Newton, MA 02465 USA +1.617.965.3340

www.netage.com

jessica.lipnack@netage.com

jeff.stamps@netage.com

