

Webcom Montréal 6th International Conference May 13, 2009

The Digital Organization Chart:

Taking Large-scale Collaboration to the Next Level

Jessica Lipnack NetAge, Inc.

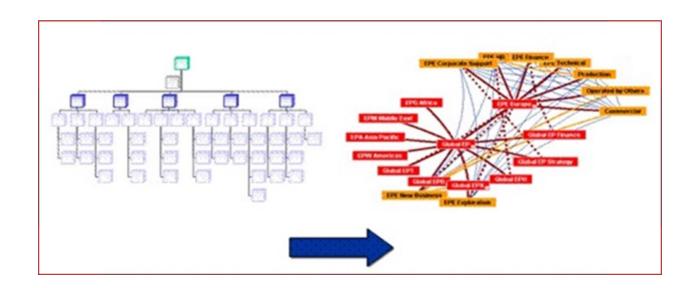
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Our Organizational Predicament

"We can't solve 21st-century problems with 19th-century organizations"





A Nobel Laureate's View of Organization Charts

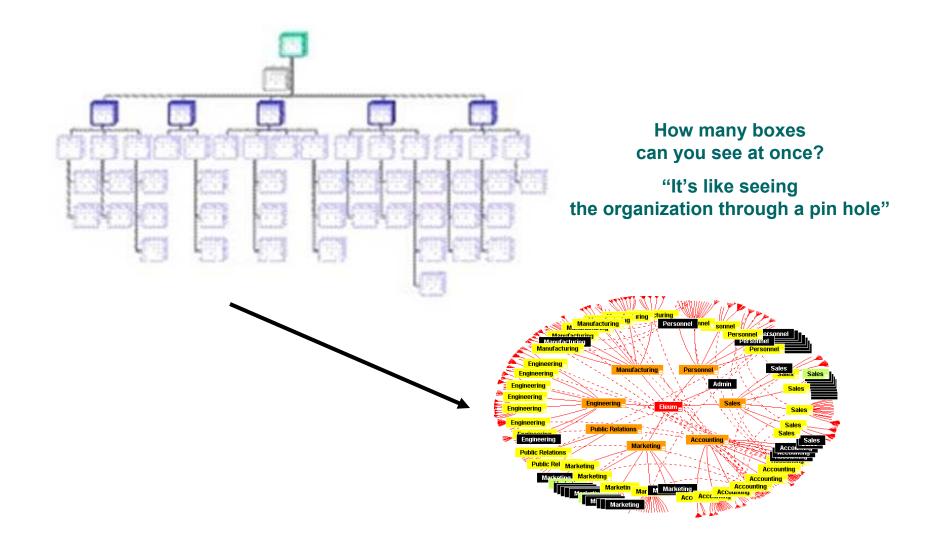
Anyone who has worked in a large organization — or, for that matter, reads the comic strip "Dilbert" — is familiar with the "org chart" strategy. To hide their lack of any actual ideas about what to do, managers sometimes make a big show of rearranging the boxes and lines that say who reports to whom.

—"The Dilbert Strategy" by Paul Krugman, March 31, 2008, The New York Times

But are we "throwing the baby out with the bathwater?"



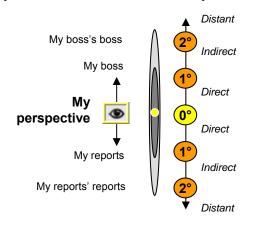
Which Resembles Your Organization?



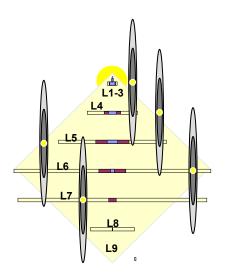


How Far Can We Really See?

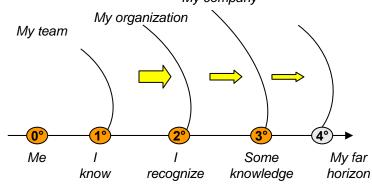
People see about two levels up and down



Zones of visibility across organization



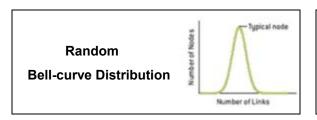
Environment
My company

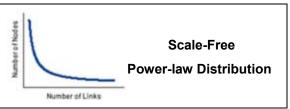


And people can see about two levels "out"



More to the Org Chart Than We Think? Consider "The New Science of Networks"





From "Scale-Free Networks" by Albert-László Barabási and Eric Bonabeau, Scientific American, May, 2003

Network	Туре	Nodes	Links
Cellular metabolism	Biology	Molecules involved in burning food for energy	Participation in same biochemical reaction
Protein regulatory network	Biology	Proteins that help to regulate a cell's activities	Interactions among proteins
Sexual relationships	People	People	Sexual contract
Hollywood	People	Actors	Appearance in same movie
Research collaborations	People	Scientists	Co-authorship of papers
Internet infrastructure	Technology	Routers	Optical and other physical connections
World Wide Web	Knowledge	Web pages	URLs

Might same principles apply to organizations?

Hierarchy (org chart)	Organization	Positions	Reporting relationships
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"Eleum's" Problem

- New multi-billion-dollar 5000-position, 8-country regional unit in 100,000-position global company
 - Managers and staff no longer in same place for many functions
- Complex organization in complex, dangerous industry
 - Thought they'd solved "visibility" problem through "flat organization"
- Highly experienced and thoughtful senior executives
 - Knew how to manage face-to-face but not virtually
- Executives wondered if they had the organization they wanted

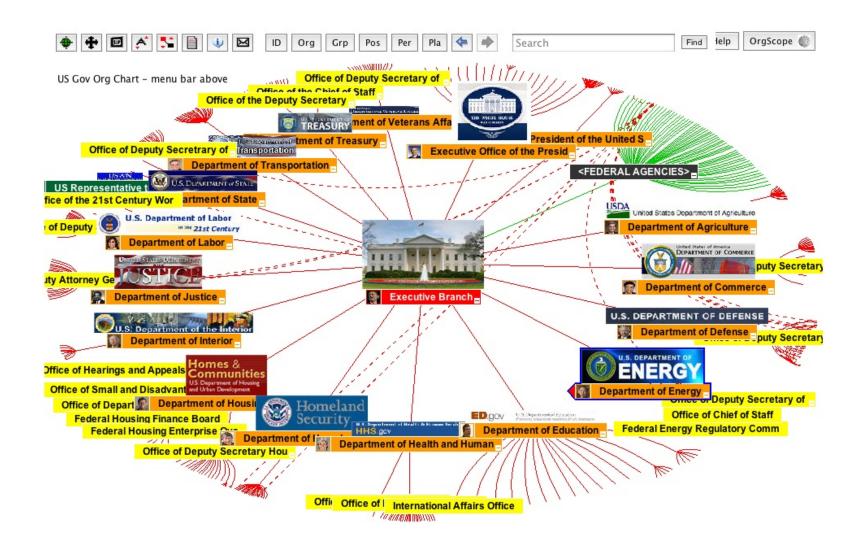


Decided to Map Eleum's Organization as a Network

- Pulled "who-reports-to-whom" data from enterprise HR system
- Each position reported to another position
- Each position held by unique person, or vacant
- Each position part of specific sub-organization
- Each position situated in specific location

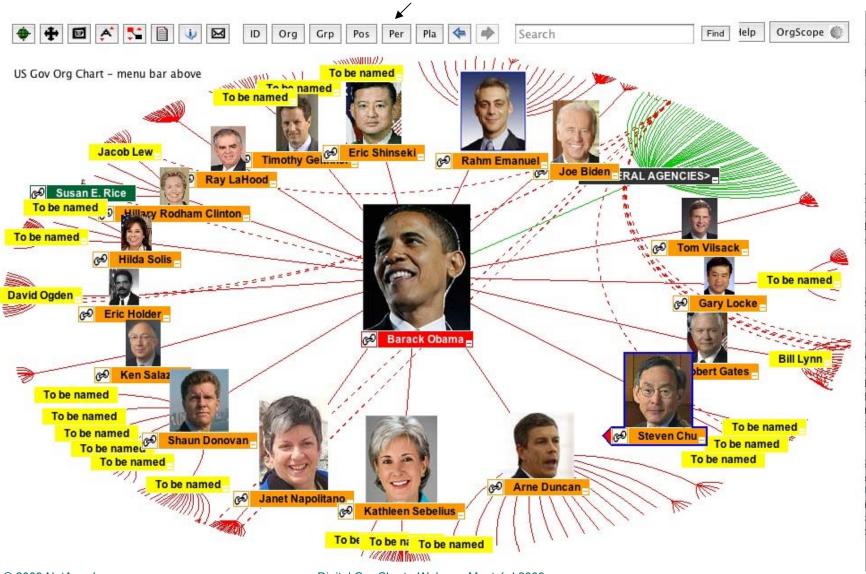


A Familiar Organization in OrgScope





Recognize Anyone?

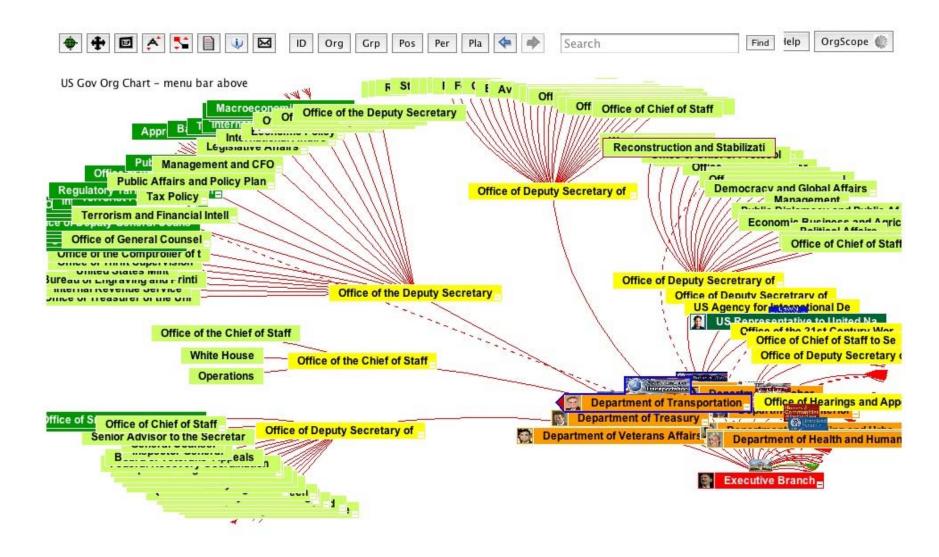


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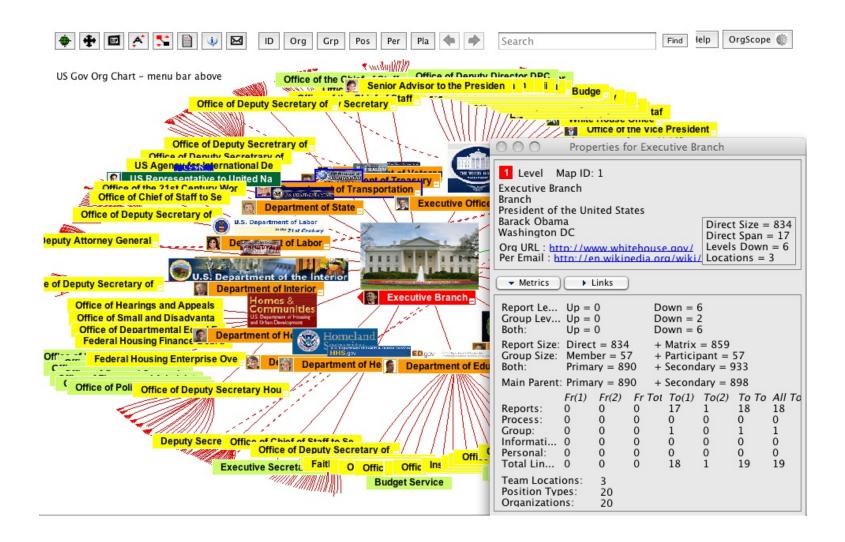


Drilling Down into Treasury





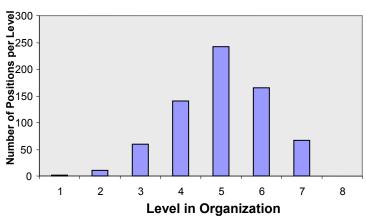
Some Metrics for the President



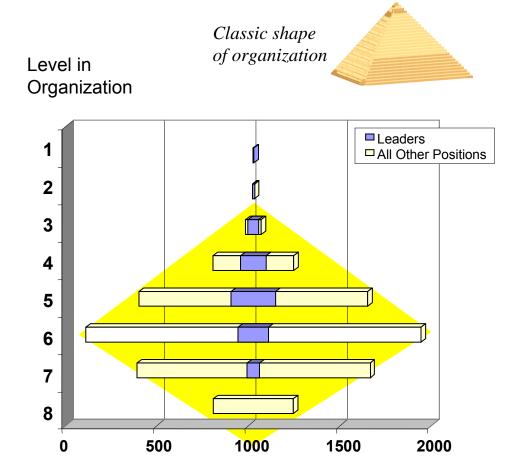


Surprise #1: Organizations Are Diamonds, Not Pyramids





Distribution of All Positions by Level



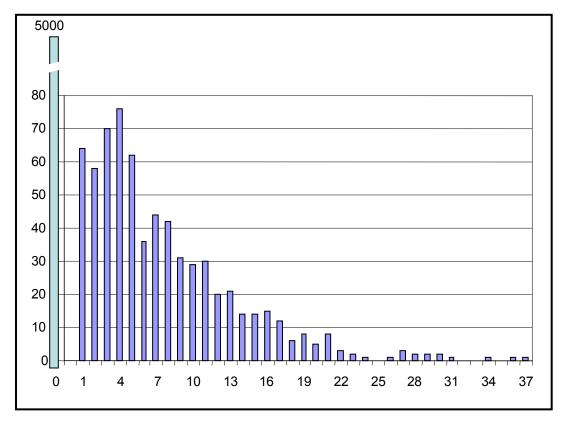
See "The Virtual, Networked Organization" book chapter

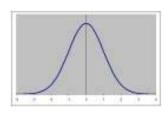
Number of Positions



Surprise #2: Leadership Distributed like Scale-free Network







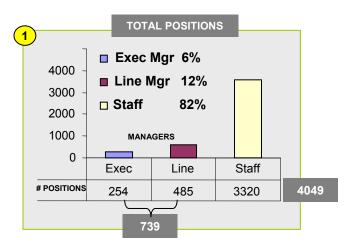
of Direct Reports (Leadership Span)

Myth of normal leadership span

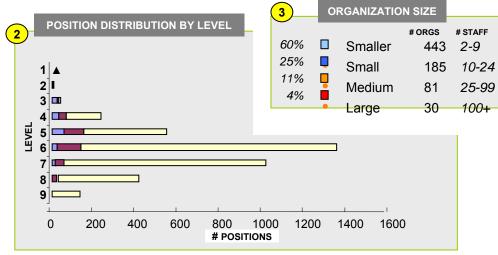
See <u>working paper</u> on "Principles for Reorganization: How to Mix Levels, Span, and Size to Maximize Communication and Decision-Making"



What Else Eleum Discovered

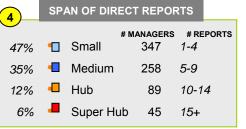


Analysis first tags positions as staff or managers (18%). "Executive" managers lead other managers; "Line" managers direct only staff.



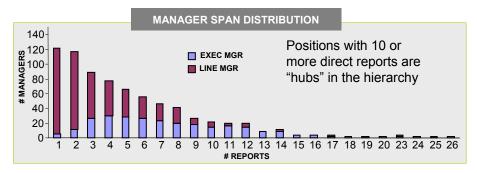
Most suborganizations are small, but 15% are 25 or larger; 4% are larger than 100.

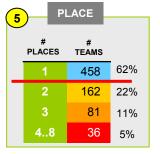
Shows 9-level organization with bulk of positions in middle.





Most (82%) managers have staffs smaller than 10. Some (6%), 45 managers, have direct report teams of 15+.





Most (62%) management teams are collocated; many (38%) are not.



6	_	HOTSPOTS	5
	HOT TEMP	TOT MGR	
	2-3	309	44% Cooler
	4-6	251	36% Cool
	7 . 9	116	17% Hot
	12	24	3% Hotter

Some positions are "hotspots" -- by measures of org size, span, and place more complex than the rest



Eleum's Executives Then Asked New Questions

- Are right people in leadership groups?
- Does our communication strategy reach everyone?
- Who are the "hubs" in organization? Where are they? Are they different?
- How many people are really have on the line?
- What happens when we add matrix reports?
 Contractors? The global organization we're part of?
- What is the leadership profile at each level?
- Where is our organizational center of gravity?
- What importance do levels have as organizing principle?



How Eleum Made Itself More Transparent

- Through network mapping, Eleum discovered:
 - Shorter communication paths
 - Highly-connected managers
 - Managers with largest organizations
 - Managers missing from leadership forums
 - The truly virtual teams
 - The people and positions at risk: "hotspots"



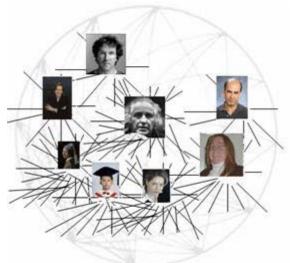
Management By Clicking Around

- Very difficult to "manage by walking around" in virtual world
 - Leaders cannot be everywhere
 - More globally distributed, less face-to-face contact
 - Travel an increasing hassle; sometimes banned
- The higher your position and larger the organization, the greater the difficulty of "grasping the whole" and "keeping in touch"
- Virtual organization tools let you be in many places at once without moving—or even while moving



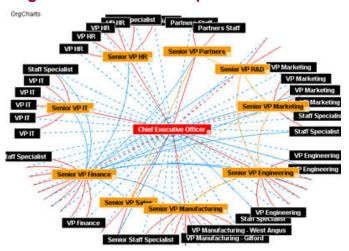
Two Key Networks: Person and Position

People with their social networks

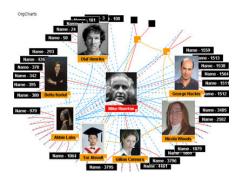


"Subjective" organization

Organizations with their position networks



"Objective" organization



Organization exists at intersection of people and positions



Four Networks Weave the Complex Organization



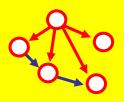
Network PUBLIC

My Position

Whom do I work for?







responses

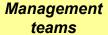
Functions flow as process network from suppliers to customers



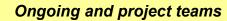
Working Networks

My Job

Whom do I work with?









Special **Events**





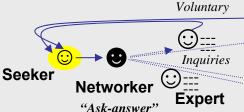
Knowledge **Networks**



Social **Networks**

My Topics

Who knows what?









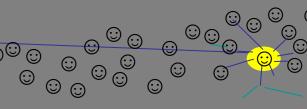


Who knows whom?

My Friends



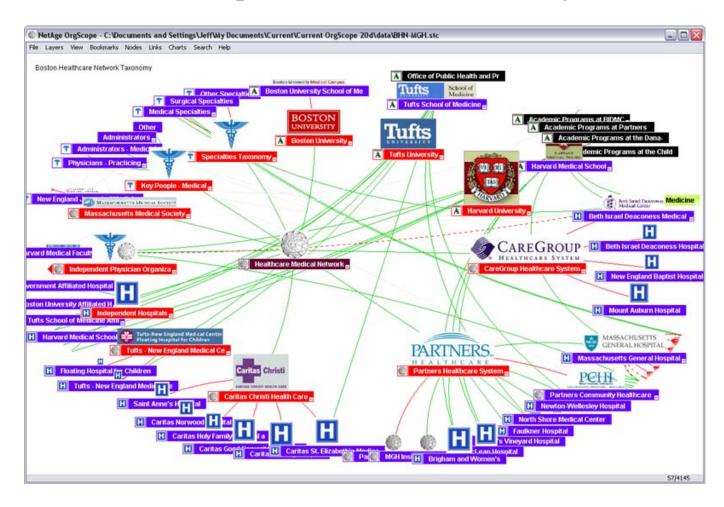




Opaque



A Slice of Boston Health Care Network Showing Some Interrelationships





Earth-OrgScope: Whole Planet, Whole Organization

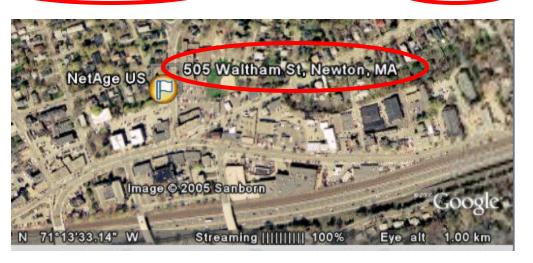


Every place has point-of-view, eye altitude





Every place has legal address

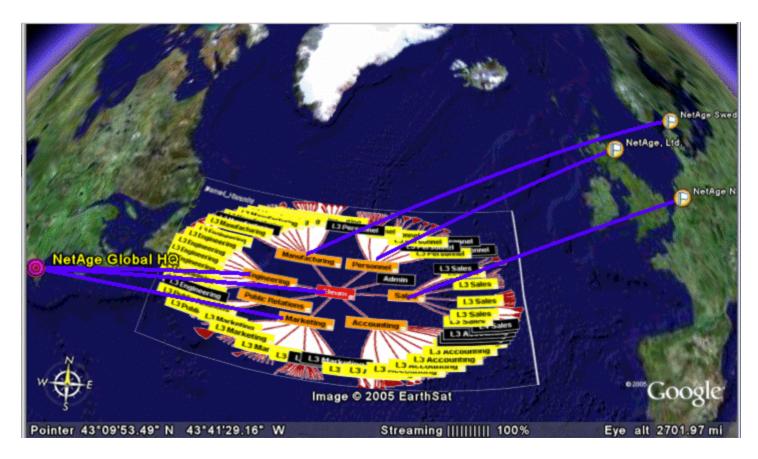


1.0 km





Organization Connects Physical Places

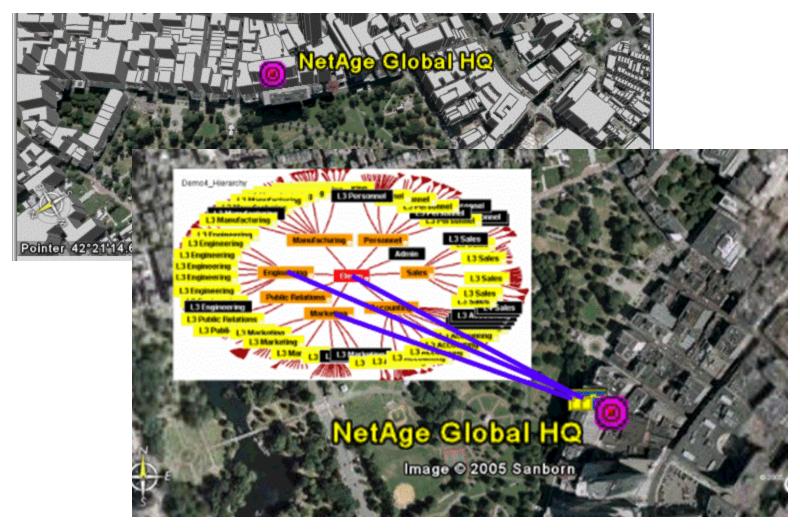




2701 km



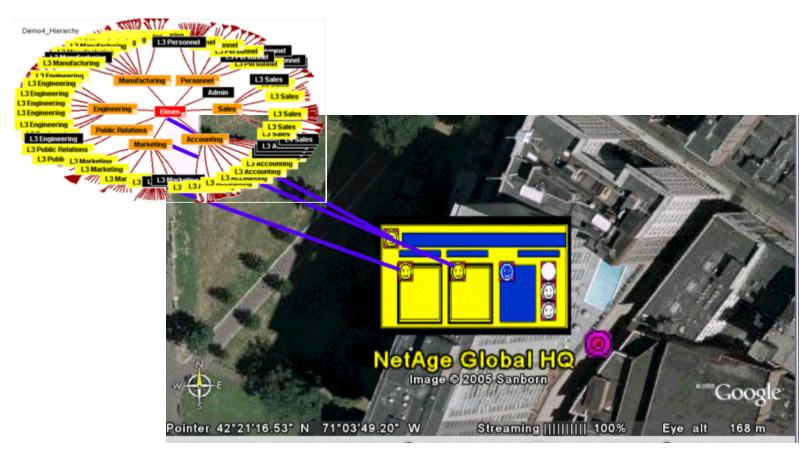
Positions in Organizations Also Can Be Physically Located and Addressed







Executive Floor Plan: Virtual and Physical







Decide to network
Use every letter you write
Every conversation you have
Every meeting you attend
To express your fundamental beliefs and dreams
Affirm to others the vision of the world you want
Network through thought
Network through action
Network through love
Network through the spirit
You are the center of the world
You are a free, immensely powerful source
of life and goodness

Affirm it Spread it Radiate it

Think day and night about it
And you will see a miracle happen:
the greatness of your own life.
In a world of big powers, media, and monopolies
But of six-and-a-half billion individuals
Networking is the new freedom
the new democracy
a new form of happiness.

Decide to Network By Robert Muller

Robert Muller is former Assistant Secretary-General of the United Nations and now Chancellor, UN University for Peace, Costa Rica. He wrote the poem for Jessica Lipnack and Jeffrey Stamps for their first book, Networking: The First Report and Directory (1982)



Decide to Network

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