Working Group C

Working Group Focus:

- Collaboration between US Gov't, other agencies, communities
 - Collaboration between US Gov't and International Organizations

Working Group C

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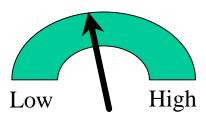
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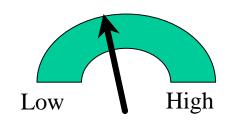
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The Collaboration Continuum: Measures of Success:



- Help in understand availability of resources in rest of community
 - Bringing right combination of assets to a task
- Time- collaboration can reduce time for some tasks
- Assessment of need: does collaboration fulfill the need
- Ensures coverage of humanitarian/security needs
- Confirmation of information
- Greater pool of information/data/ideas
 - Increasing experience of one or more parties involved

The Continuum Continued



- As a training tool
- Reduction of tensions/cultural barriers
- Management support
- Reliability
- •Quality of the resulting product
- Level of engagement
- Quality/effectiveness of user interface
 - Technical
 - Human
- Level of agreed processes/standards
 - Technical
 - Human

Barriers

- Lack of uniform standards across echelons with respect to what goes into collaborative efforts
- No fundamental shared document for response
- Uneven levels of capabilities (talent, intelligence, technology)
- Incentives:
 - Differing collaboration goals
 - Lack of sufficient benefits
- Information:
 - To be used as evidence (legal)
 - To be used as general knowledge

Barriers (II)

• Culture:

- Language barrier
- Inter-Branch culture problem
- IO's, NGO's, and other organizations
- Individual's ability/desire to use collaboration/tools
 - Personality type (e.g. extravert/intravert)
- Lack of trust/comfort level
- Lack of clearly defined Rules of Engagement
- Rice Bowl effect
- Need to maintain status quo/impartiality

Barriers (III)

• Security:

- Multi-level security
- Access restrictions
- Keeping hackers out
- Firewalls/network security
- Risk management vs risk aversion
- Personal risk -- need for impartiality/security
- Information over-classification

Barriers (IV)

- Cost vs. resources
 - Training, tools, time
 - Sunk costs
 - Budgeting- costs saved not put back into collaboration
- Organizational
 - Training in collaborative tools
 - Personnel Rotation
 - Lack of consistent management process
 - Cross-hierarchical communication
 - Policy definitions of type of operation (can information be shared by current rules?)

Barriers (V)

• Technical

- User interface
- Lack of consistent standards/system compatibility/protocols
 - Interoperability
- Lack of sufficient bandwidth/pipes
 - Flooding of existing networks- too many separate networks
- Level of latency
- Lack of training in use of technology
- Heterogeneous architectures
- Cost of technology upgrades/improvements
- Data mining capabilities
- Lack of sufficient research on Human-Machine-Human Interfaces
 - Man-Machine Interfaces (MMI)

Prescriptions for Improvement: Ways to Overcome Barriers

- The problem is complex and you must attack it one byte at a time
- Facilitate communication between involved parties
- Government support for baseline technology standards
 - move away from proprietary products & incompatibility
- Expand knowledge of each others' mission, structure, processes and practices
- Use of intelligent agents
- Identify motivating factors
- Need for collaboration facilitator
- Leveraging research done and identifying needs for future research
- Universal address book of people involved with collaboration

Ways to Overcome Technology Barriers

- Establish baseline inter-operability standards (hardware, software)
- Create and support groups to research the current situation of standards and where it is headed
 - Create Federal/World standards
- Training/familiarity

Ways to Overcome Organizational Barriers

- Develop joint crisis exercises and simulations that require personnel from State, the military, and other agencies to work together
 - Acquire funding to develop inter-agency exercises
 - Use collaborative environments to execute exercises
- Foster collaborative communities based around shared goals, interests and incentives
 - Functional and/or geographical areas of interest
 - Mission types (HADR, ETO, RDO, etc...)
- Training/familiarity

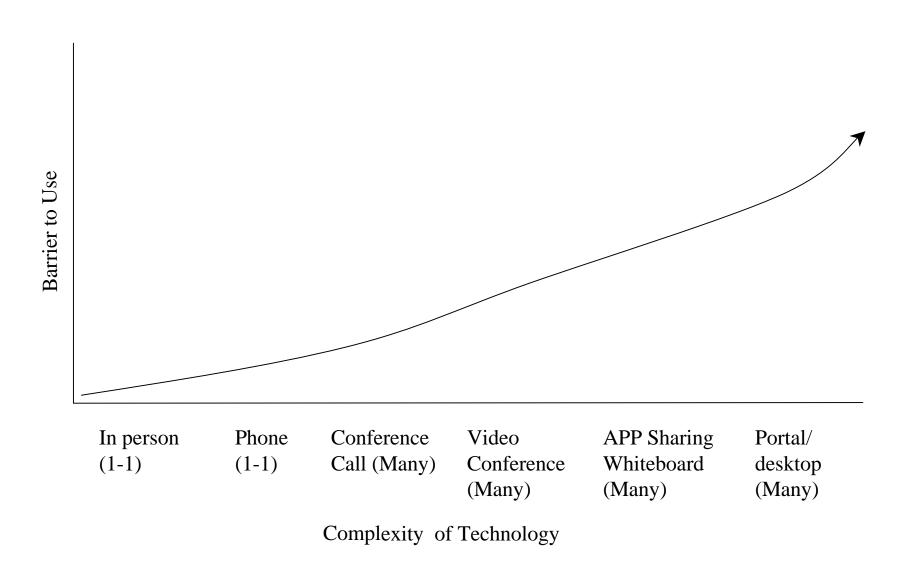
Ways to Overcome Policy Barriers

- Effective approved multi-level security standards
- Establish an inter-agency organization that is chartered and financially empowered to investigate and establish universal collaboration standards

Ways to Overcome Inter-personal Barriers

- Training/familiarity
 - Build trust/confidence of tools/process
- Comfort level/trust building
 - Frequency of contact, shared interest, gaming, etc...
- Understanding of others' cultures, situation, needs, goals

Advancing Technological Complexity



Barrier/Proposal

- Barrier: No one in charge at the top
 - Proposal: Establish agency/group to facilitate collaboration across IA;
 foster IA training coordination (NDU effort)
 - Proposal: This subject (policy for collab. issues/standards) should be addressed by one of the functional PCCs under the NSC or a similar subgroup reporting to the NEC
- Barrier: Interoperability
 - Proposal: Develop/adopt requirements for interoperability (Partnership w/ industry and USG)
- Barrier: No common pipe for service
 - Proposal: Accept Internet as common pipe;
 - Proposal: Need for multi-level security solutions Commercial standards do exist and USG should take another look (risk management vs. risk aversion)

Barrier/Proposal (II)

- Barrier: Lack of shared knowledge/understanding
 - Proposal: Develop portals for shared areas of interest; Pull together POC data; Internet-based exercises to stimulate the use of collab. tools; sharing LL re: collab.
- Barrier: Culture/trust
 - Interpersonal: Increase frequency of contact; exercises/games; focus collab. Track at big shows - e.g., AFCEA, AUSA, etc.
 - Tools: Frequency; training,

Supporting Multi-Org, Agency Collaboration

