

# The Theory & Measurement of Inter-Organizational Collaborative Capacity in Acquisition & Contracting

Erik Jansen, Susan Page Hocevar, Rene Rendon, Gail Fann Thomas

Naval Postgraduate School

### **Action Research Questions**

- How are some agencies able to develop successful collaborative relationships while others struggle?
- What factors contribute to or inhibit successful collaborations among organizations?
- How can leaders use survey results to:
  - Assess inter-organizational collaborative capacity?
  - Do action planning to develop the inter-organizational collaborative capacity of their individual organizations or a collective of homeland security organizations?

# Collaborative Capacity: The Construct and the Model



# **Definition of Collaborative Capacity**

"The ability of organizations to enter into, develop, and sustain inter-organizational systems in pursuit of collective outcomes."

Hocevar, Thomas & Jansen (2006)



# **Force Field Analysis**

Driving Forces	Restraining Forces	Strategies &  Actions to Build Collaborative Capability	
			Desired End-State
			Vision

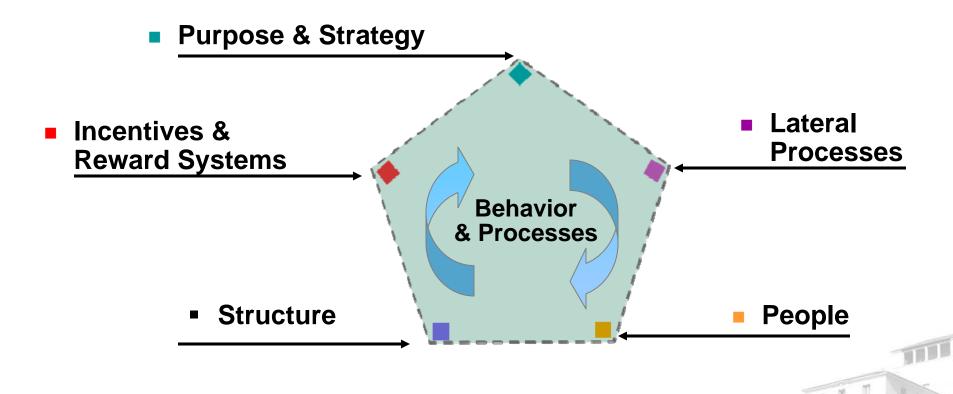
Organizational Domain	Success Factors for Interorg Collaboration
Purpose	<ul> <li>"Felt need" to collaborate</li> <li>Common goal</li> <li>Willingness to address other agency's interests or cross-agency goals versus local organizational goals</li> </ul>
Structure	<ul> <li>Formalized structure for coordination (e.g., liaison roles)</li> <li>Formalized processes (meetings, deadlines, agendas)</li> <li>Sufficient authority of participants</li> <li>Role clarity</li> <li>Dedicated assets (people, resources) for collaboration</li> </ul>
Lateral Mechanisms	<ul> <li>Social Capital (i.e., interpersonal networks)</li> <li>Effective communication and information exchange</li> <li>Technical interoperability</li> <li>Combined training events</li> </ul>
Incentives	<ul> <li>Collaboration as a prerequisite for funding or resources</li> </ul>
People Practices	<ul> <li>Respect for other parties' interests, expertise, roles, perspectives.</li> <li>Perseverance/Commitment</li> </ul>

From Hocevar, Thomas & Jansen. Building Collaborative Capacity An Innovative Strategy for Homeland Security Preparedness. (In M. Beyerlein [Ed.] Innovation Through Collaboration).

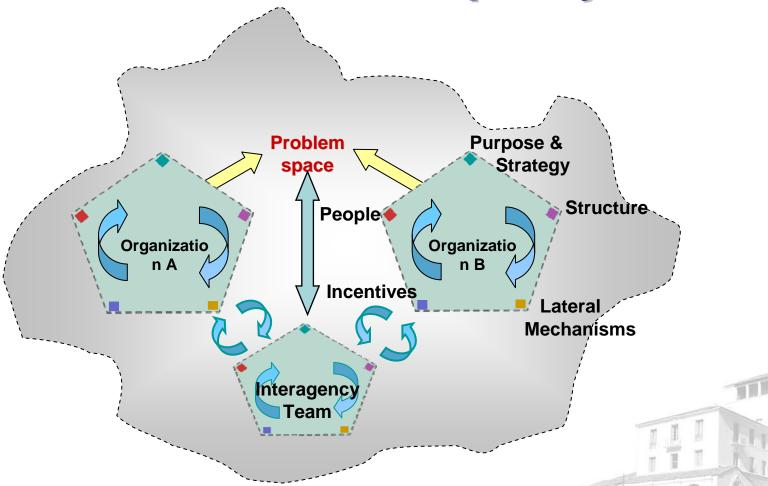
Organization Domain	"Barriers" to Interorg. Collaboration
Purpose	<ul> <li>Divergent goals</li> <li>Focus on regional or local agency concerns</li> <li>Lack of goal clarity</li> <li>Not adaptable to interests of other organization</li> </ul>
Structure	<ul> <li>Impeding rules or policies</li> <li>Inadequate authority of participants</li> <li>Inadequate resources</li> <li>Lack of accountability</li> <li>Lack of formal roles or procedures for collaborating</li> </ul>
Lateral Mechanisms	<ul> <li>Lack of familiarity with other organizations</li> <li>Inadequate communication and information sharing</li> </ul>
Incentives	<ul> <li>Competition for resources</li> <li>Territoriality</li> <li>Org level distrust &amp; lack of mutual respect</li> </ul>
People Practices	<ul> <li>Lack of competency</li> <li>Arrogance, hostility, animosity</li> </ul>

From Hocevar, Thomas & Jansen. Building Collaborative Capacity An innovative Strategy for Homeland Security Preparedness. (In M. Beyerlein [Ed.] Innovation Through Collaboration).

# **Organizational System**



# **Building Interorganizational Collaborative Capacity**



Hocevar, S.P., Jansen, E.; Thomas, G.F. (2004).

# Collaborative Capacity: The Survey & Survey-Guided Organizational Development (O.D.)



# Using the Survey to Build Collaborative Capacity

- Informs leaders and change agents of the strengths and weaknesses of their organization's collaborative systems.
- From resulting data, <u>specific interventions</u> can be identified and implemented.
- Improves organizational <u>learning</u> regarding inter-agency relationships.
- Provides a <u>baseline</u> for assessing improvements in collaborative capacity.

## **Diagnostic Process – How?**

1. Key agents tailor survey from item bank.

#### **Sample question format:**

My organization is flexible in adapting its procedures to better fit with those organizations with which we work or might work.

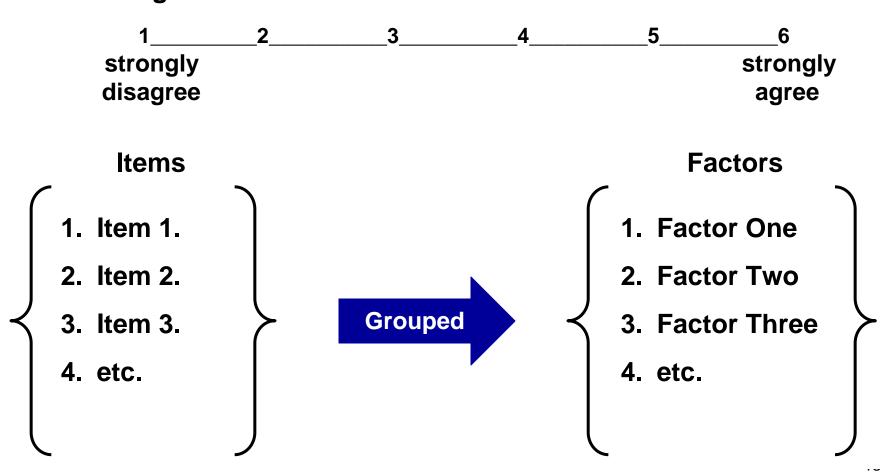
1	2	3	4	5	6
strongly					strongly
disagree					agree

- 2. Survey data gathered and analyzed.
- 3. Feedback meeting (Interpretation):
  - What do the results mean?
  - What can we learn from these findings?
- 4. Feedback meeting (Action Planning)
  - What are the implications for action?
  - How do we improve collaborative capacity based on the results?

#### **Survey Items Grouped into Factors**

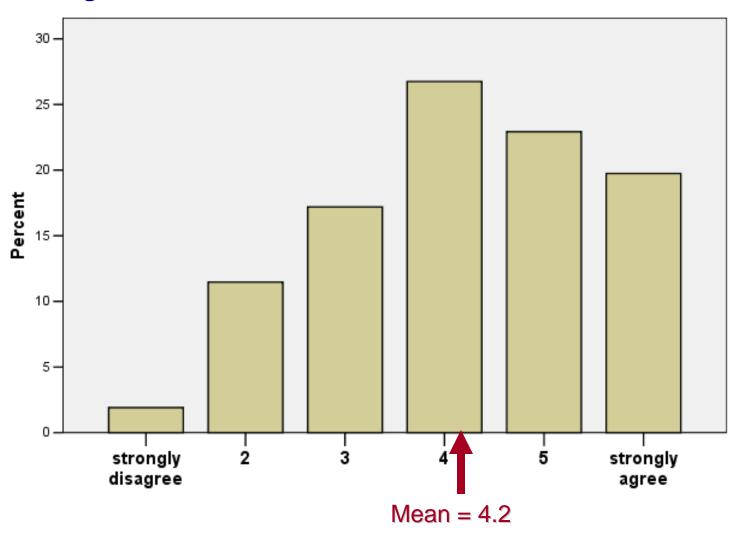
#### **Sample question format:**

My organization is flexible in adapting its procedures to better fit with those organizations with which we work or might work.



## **Structural Flexibility Items and Scale**

	Items				
	tion invests significant time and energy to xisting policies and processes that impede n.				
My organization is flexible in adapting its procedures to better fit with those organizations with which we work or might work.				1.3	
My organization is responsive to the requirements of other organizations with which we work.				1.1	
My organization can quickly form or modify partnerships as requirements change.			4.5	1.3	
	Scale	Statistics			
Mean	S.D.	Sample Size	Coef. Alpha		
4.1	1.2	135	.78		



#### **Descriptive Statistics for Collaborative Capacity Scales**

Scale	Mean	S.D.	<u>n</u>	# of Items	Coef. α
Need to Collaborate	4.7	1.3	307	3	.81
Strategic Collaboration	4.3	1.4	251	5	.85
Social Capital	4.2	1.3	307	2	.79
Interagency Team	4.2	1.3	193	2	.85
Structural Flexibility	4.1	1.2	135	4	.78
Information Sharing	4.1	1.4	226	3	.83
Individual Collab. Capacity	4.1	1.2	258	7	.86
Resource Investments	3.7	1.4	227	3	.88
Lack of Barriers to Collab.1	(3.7)1	1.4	136	4	.75
Collaborative Learning	3.5	1.4	225	3	.85
Reward Systems	3.4	1.5	268	4	.86
<b>Metrics for Collaboration</b>	3.0	1.5	264	2	.83

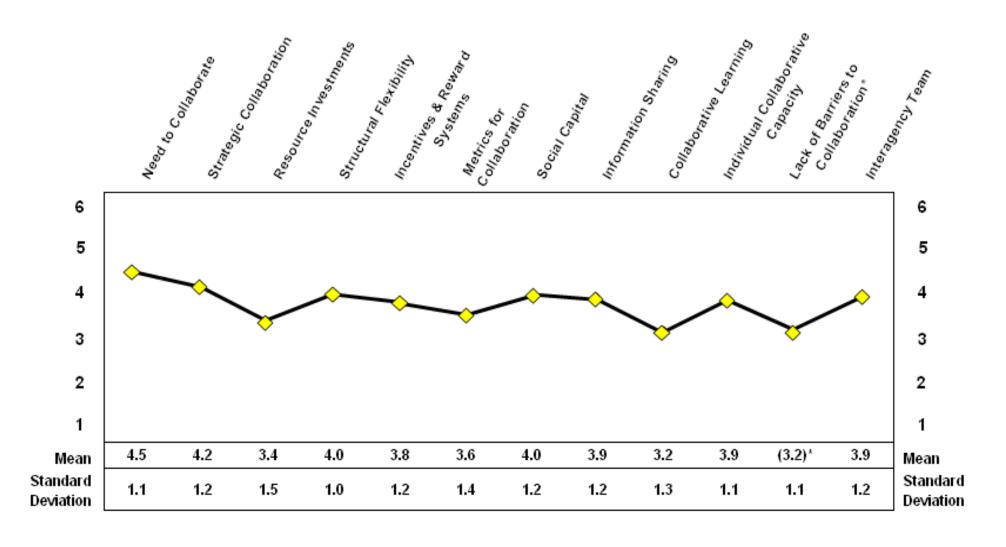
<sup>1</sup> The Barriers to Collaboration scale is the only scale in which a higher value represents a lower collaborative capacity. It is thus reversed so that it can be compared to the other scales and relabeled as Lack of Barriers to Collaboration.

#### Results for a Major DoD Contract Administration Org.

Scale	Mean	S.D.	<u>n</u>
Need to Collaborate	4.5	1.1	46
Strategic Collaboration	4.2	1.2	46
Resource Investments in Collab.	3.4	1.5	43
Structural Flexibility	4.0	1.0	46
Reward Systems	3.8	1.2	45
Metrics for Collab.	3.6	1.4	43
Social Capital	4.0	1.2	46
Information Sharing	3.9	1.2	46
Collaborative Learning	3.2	1.3	46
Individual Collab. Capacity	3.9	1.1	46
Lack of Barriers to Collab.1	$(3.2)^1$	1.1	46
Interagency Team	3.9	1.2	40

<sup>1</sup> The Barriers to Collaboration scale is the only scale in which a higher value represents a lower collaborative capacity. It is thus reversed so that it can be compared to the other scales and relabeled as Lack of Barriers to Collaboration.

#### Profiles for a Major DoD Contract Admin. Org.



#### Means for a Major DoD Contract Administration Org.

#### Purpose & Strategy

- Need to Collaborate (4.5)
- Strategic Collaboration (4.2)
- Resource Investments (3.4)

 Lack of Barriers to Collaboration (3.2\*)

Metrics (3.6)

#### Reward Systems

Incentives & Reward Systems (3.8) √ Behavior & Processes

Culture

#### Lateral Processes

- Social Capital (4.0)
- Information Sharing (3.9)
- Collaborative Learning (3.2)

Structure

Structural Flexibility (4.0)

People

· Indi∨idual Collaborati∨e Capacity (3.9)

Interagency Team Support (3.9)

# Collaborative Capacity Survey Items and Scales



#### **Need to Collaborate Items and Scale**

	Items			S.D.
Inter-organizational collaboration is a high priority for my organization.			4.8	1.4
	organization recognizes the importance of working with other agencies to achieve its mission.			1.3
	People in my organization understand the benefits of collaborating with other organizations.			1.2
	Sca	ale Statistics		
Mean S.D. Sample Size			Coef.	Alpha
4.7	1.3	307	.81	

<sup>1</sup> This item has been revised for current usage. It now reads: "My organization has committed adequate budget and resources to interorganizational collaboration." This statement removes the overlap between the first and third items in this Table.

# **Strategic Collaboration Items and Scale**

	Items		Mean	S.D.
We have clearly es	stablished goals f	or interorganizational	4.1	1.4
The leaders of my of collaboration	of my organization emphasize the importance oration.			
My organization is willing to address interorganizational goals.				1.2
My organization's leaders of other collaboration.	leaders meet and r organizations a		4.2	1.4
My organization co in its planning.	onsiders the inte	ests of other agencies	3.9	1.4
	Scale	Statistics		
Mean	S.D.	Sample Size	Coef. A	Alpha
4.3	1.4	251	.85	5

#### Resource Investment in Collab. Items and Scale

	Items				
, •		committed adequate time, budget, and 3.8 anizational collaboration.			
My organization is cross-agency goals	4.1	1.4			
My organization has assigned adequate personnel to the work required for effective interorganizational collaboration.				1.4	
	Scale	e Statistics			
Mean	Mean S.D. Sample Size Coef. Alph			Alpha	
3.7	1.4	227	.88.	3	

<sup>1</sup> This item has been revised for current usage. It now reads: "My organization has committed adequate budget and resources to interorganizational collaboration." This statement removes the overlap between the first and third items in this Table.

## **Structural Flexibility Items and Scale**

	Items		Mean	S.D.
	ation invests significant time and energy to existing policies and processes that impede on.			
My organization is flexible in adapting its procedures to better fit with those organizations with which we work or might work.				1.3
My organization is organizations with	•	e requirements of other	4.4	1.1
My organization ca as requirements ch	•	modify partnerships	4.5	1.3
	Scale	Statistics		
Mean	S.D.	Sample Size	Coef. Alpha	
4.1	1.2	135	.78	B

# **Reward Systems Items and Scale**

Items				S.D.
Engaging in interag	3.7	1.6		
My organization rewards employees for investing time and energy in building collaborative relationships.				1.5
My organization rewards members for their IA collaborative activities.				1.4
Collaborative talents and achievements are considered when people are reviewed for promotion.				1.6
	Scale	Statistics		
Mean	Mean S.D. Sample Size			Alpha
3.4	1.5	268	.86	6

#### **Metrics for Collaboration Items and Scale**

	Mean	S.D.		
My organization had evaluate interorga	3.0	1.5		
	My organization has established clear performance standards regarding interorganizational work. 1			
	Scale	Statistics		
Mean	Coef. A	Alpha		
3.0	1.5	264	.83	

<sup>1</sup> In the Homeland Security and Defense samples, the wording "interagency" was used rather than "interorganizational."

## **Information Sharing Items and Scale**

	Mean	S.D.		
My organization has sharing information	3.8	1.5		
My organization p access to informa work. 1	4.1	1.4		
People in my orga organizations.	4.4	1.2		
	Scale	Statistics		
Mean	Coef. A	Alpha		
4.1	1.4	226	.83	

## **Collaborative Learning Items and Scale**

	Items				
My organization co	3.3	1.4			
My organization had other organizations	3.6	1.4			
My organization wo identify lessons lea	3.5	1.3			
	Scale	Statistics			
Mean S.D. Sample Size Co				lpha	
3.5	1.4	225	.85		

# **Social Capital Items and Scale**

	Mean	S.D.			
Our employees kn for information or	<b>4.1</b> 1				
•	Members of my organization take the initiative to build elationships with their counterparts in other organizations.				
	Scale	Statistics			
Mean	Coef. A	Alpha			
4.2	1.3	307	.79		

Mean	S.D.
4.0	1.3
3.9	1.2
4.5	1.2
4.3	1.2
4.0	1.1
4.2	1.2
4.1	1.3
	4.0 3.9 4.5 4.3 4.0 4.2

#### J

Mean	S.D.	Sample Size	Coef. Alpha
4.1	1.2	258	.86

#### **Barriers to Collaboration Items and Scale**

		Mean	S.D.	
A history of interorginterorganizational	3.6	1.5		
People in my organ distrustful of their of	3.1	1.4		
I face incompatible requirements or requests when working with other organizations.				1.1
Conflicting organizational policies make collaboration difficult.				1.3
My organization's unique requirements make collaboration difficult.			2.7	1.5
	Scale	Statistics		
Mean	S.D.	Sample Size	Coef. Alpha	
3.3	1.4	136	.75	

## **Interagency Team Items and Scale**

	Mean	S.D.		
My organization gi (or tiger teams) ad the organization. <sup>1</sup>	4.2	1.4		
My organization supports the decisions and recommendations of the special project or tiger team. <sup>2</sup>				1.2
	Scale	Statistics		
Mean	Coef. A	Alpha		
4.2	1.3	193	.85	

# Using the Survey to Build Collaborative Capacity

- Informs leaders and change agents of the strengths and weaknesses of their organization's collaborative systems.
- From resulting data, <u>specific interventions</u> can be identified and implemented.
- Improves organizational <u>learning</u> regarding inter-agency relationships.
- Provides a <u>baseline</u> for assessing improvements in collaborative capacity.

# The Theory & Measurement of Inter-Organizational Collaborative Capacity in Acquisition & Contracting

Susan Page Hocevar

Erik Jansen

Rene Rendon

Gail Fann Thomas

- shocevar@nps.edu

ejansen@nps.edu

- rgrendon@nps.edu

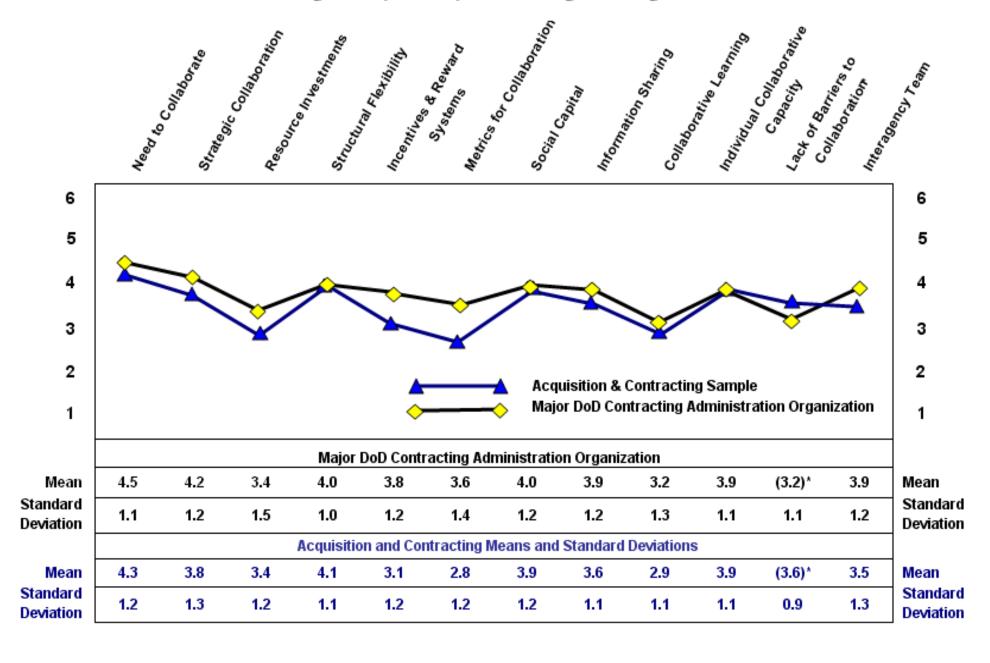
- gthomas@nps.edu



### **Extras - Outtakes**

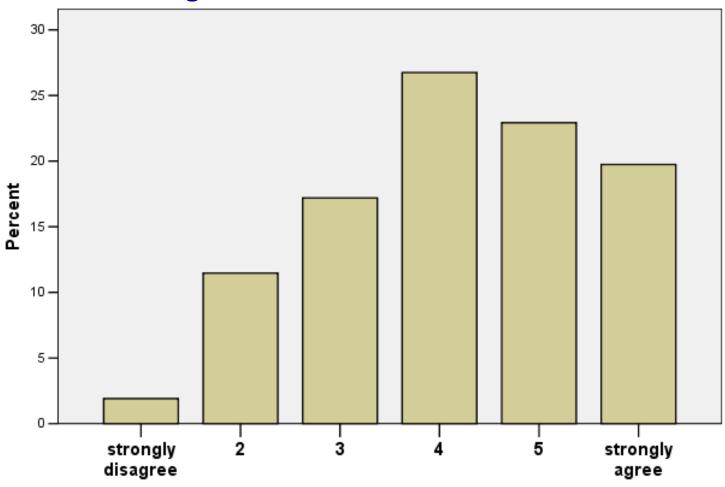


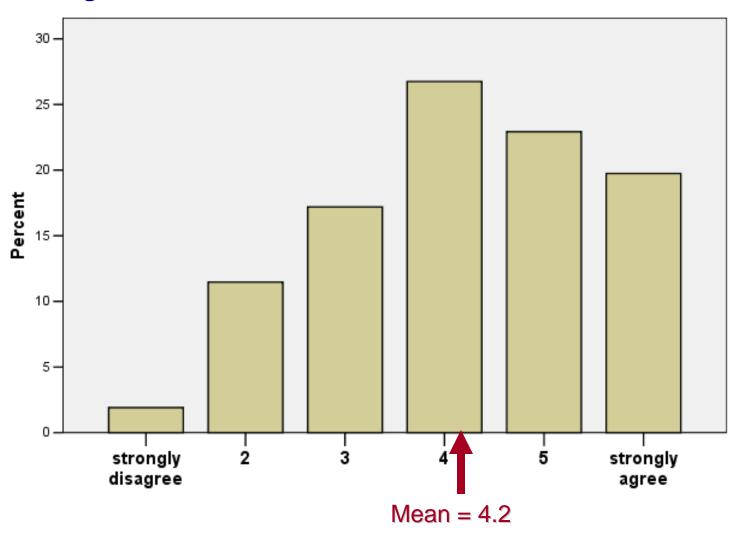
# Profiles for a Major DoD Contract Admin. Org. & an NPS Acquisition and Contracting Sample Representing an Organizational Set

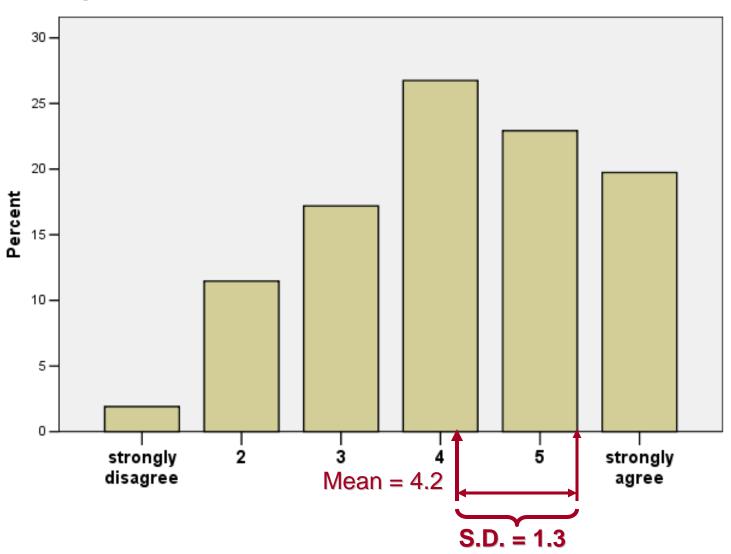


## **Structural Flexibility Items and Scale**

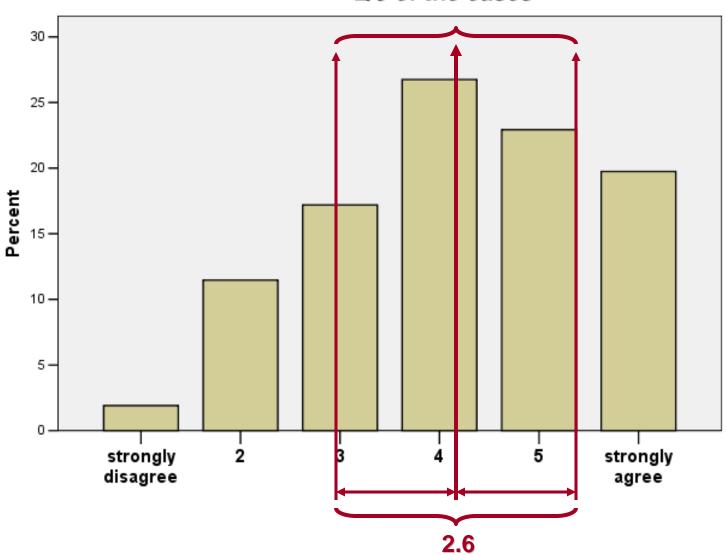
	Mean	S.D.			
My organization invideconflict existing collaboration.	3.4	1.3			
My organization is to better fit with those might work.	4.2	1.3			
My organization is organizations with	4.4	1.1			
My organization can quickly form or modify partnerships as requirements change.				1.3	
	Scale	Statistics			
Mean	S.D.	Sample Size	Coef. Alpha		
4.1	1.2	135	.78		



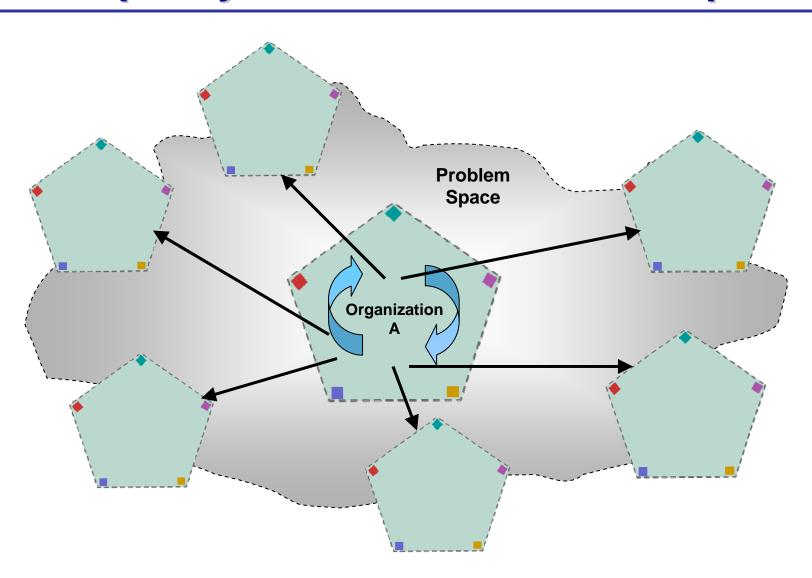




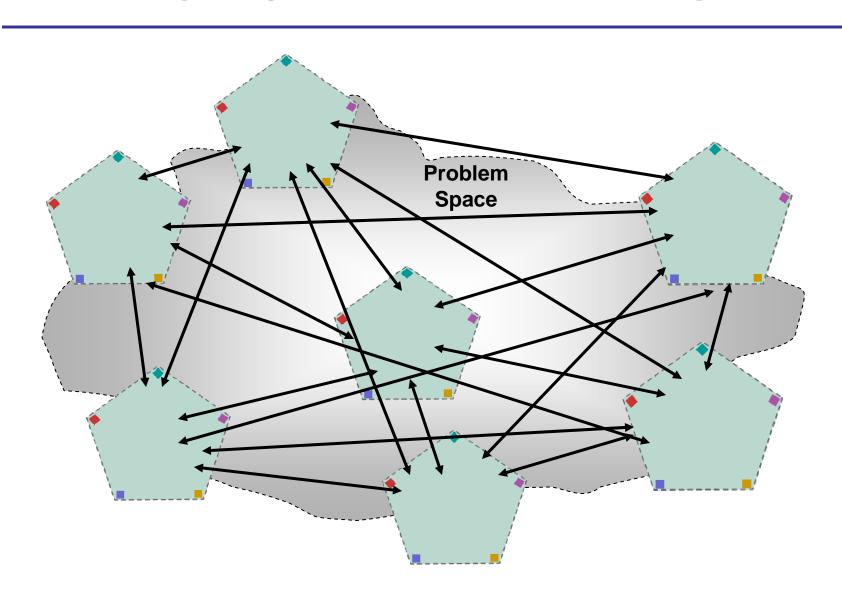
#### 2/3 of the cases



# Organization A's Collaborative Capacity in a Shared Problem Space



# An Inter-Organizational *System*'s Collaborative Capacity in a Shared Problem Space

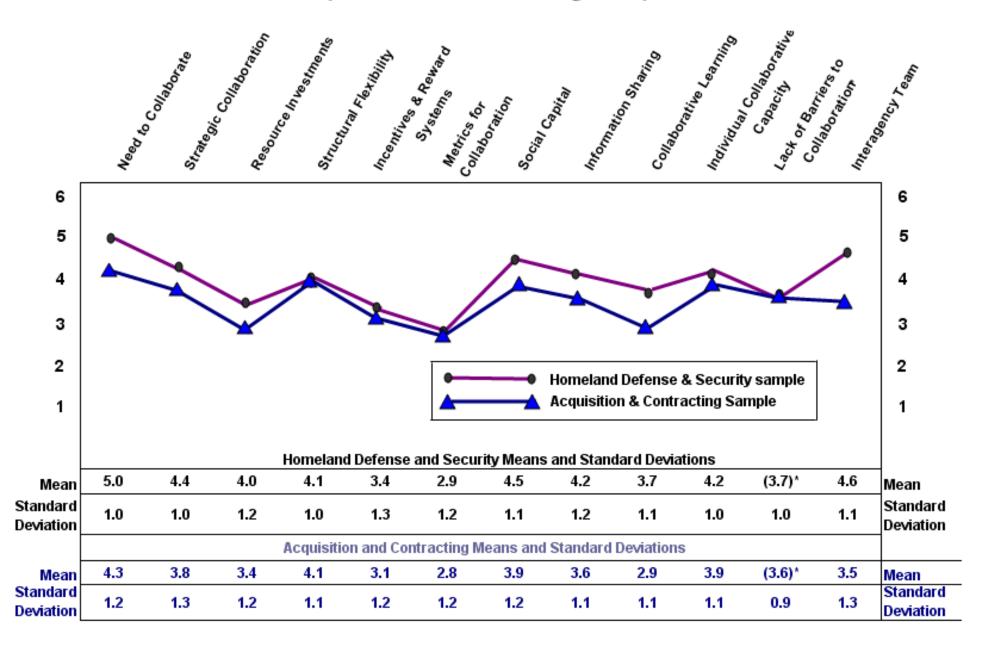


#### **Descriptive Statistics for Collaborative Capacity Scales**

	Homeland Defense & Security			Acquisition & Contracting		
Scale	Mean	S.D.	<u>n</u>	Mean	S.D.	<u>n</u>
Need to Collaborate	5.0	1.0	145	4.3	1.2	49
Strategic Collaboration	4.4	1.0	145	3.8	1.3	49
Resource Investments	4.0	1.2	144	3.4	1.2	49
Structural Flexibility	4.1	1.0	145	4.1	1.1	49
Reward Systems	3.4	1.3	145	3.1	1.2	49
<b>Metrics for Collaboration</b>	2.9	1.2	141	2.8	1.2	49
Social Capital	4.5	1.1	144	3.9	1.2	49
Information Sharing	4.2	1.2	145	3.6	1.1	49
Collaborative Learning	3.7	1.1	145	2.9	1.0	49
Individual Collab Capacity	4.2	1.0	144	3.9	1.0	49
Lack of Barriers to Collab <sup>1</sup>	(3.7)1	1.0	145	(3.6) <sup>1</sup>	.9	49
Interagency Team	4.6	1.1	117	3.5	1.3	48

<sup>1</sup> The Barriers to Collaboration scale is the only scale in which a higher value represents a lower collaborative capacity. It is thus reversed so that it can be compared to the other scales and relabeled as Lack of Barriers to Collaboration.

# Profiles for Homeland Defense & Security versus Acquisition & Contracting Samples



# Profiles for a Major DoD Contract Admin. Org. & an NPS Acquisition and Contracting Sample Representing an Organizational Set

