

# CMMI® for SCAMPI<sup>SM</sup> Class A Appraisal Results 2011 Mid-Year Update

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September 2011



**Software Engineering Institute**

**Carnegie Mellon**

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# Outline

Introduction

Current Status

Community Trends

Organizational Trends

Summary and Terms Used in this Briefing

This briefing is based solely on the appraisals reported to the SEI. It cannot be used as a source for an exact indicator of all organizations in the world using CMMI models or appraisal methods nor can it be used for certification or verification purposes.

The SEI does not certify appraisal results or organizations. The SEI licenses SEI Partners, authorizes/certifies lead appraisers, team leaders and high maturity lead appraisers to conduct appraisals. Neither the SEI nor any other organization is a “certifying authority” of the results from a SCAMPI appraisal. Therefore requests to the SEI to provide information to be used for this purpose can not be fulfilled. Information provided by the SEI, such as this briefing, is to demonstrate reported results of the use of CMMI products and services only.



# Introduction - Purpose

Characterize the adoption of CMMI

Describe results from Standard CMMI Appraisal Method for Process Improvement (SCAMPI<sup>SM</sup>) v1.2/v1.3 Class A appraisals using Capability Maturity Model<sup>®</sup> Integration (CMMI v1.2/ v1.3)\*

- \* Organizations previously appraised against CMMI v1.0 /v1.1 and which have not reappraised against v1.2 or v1.3 are not included in this report.
- \* SVC,ACQ appraisals are included in this report, P-CMM appraisals are not included in this report,



# Introduction - Briefing Contents

This briefing includes three primary sections:

## 1. Current Status

- Snapshot of the development community based on the most recent appraisals, since SCAMPI V 1.2 release, of reporting organizations

## 2. Community Trends

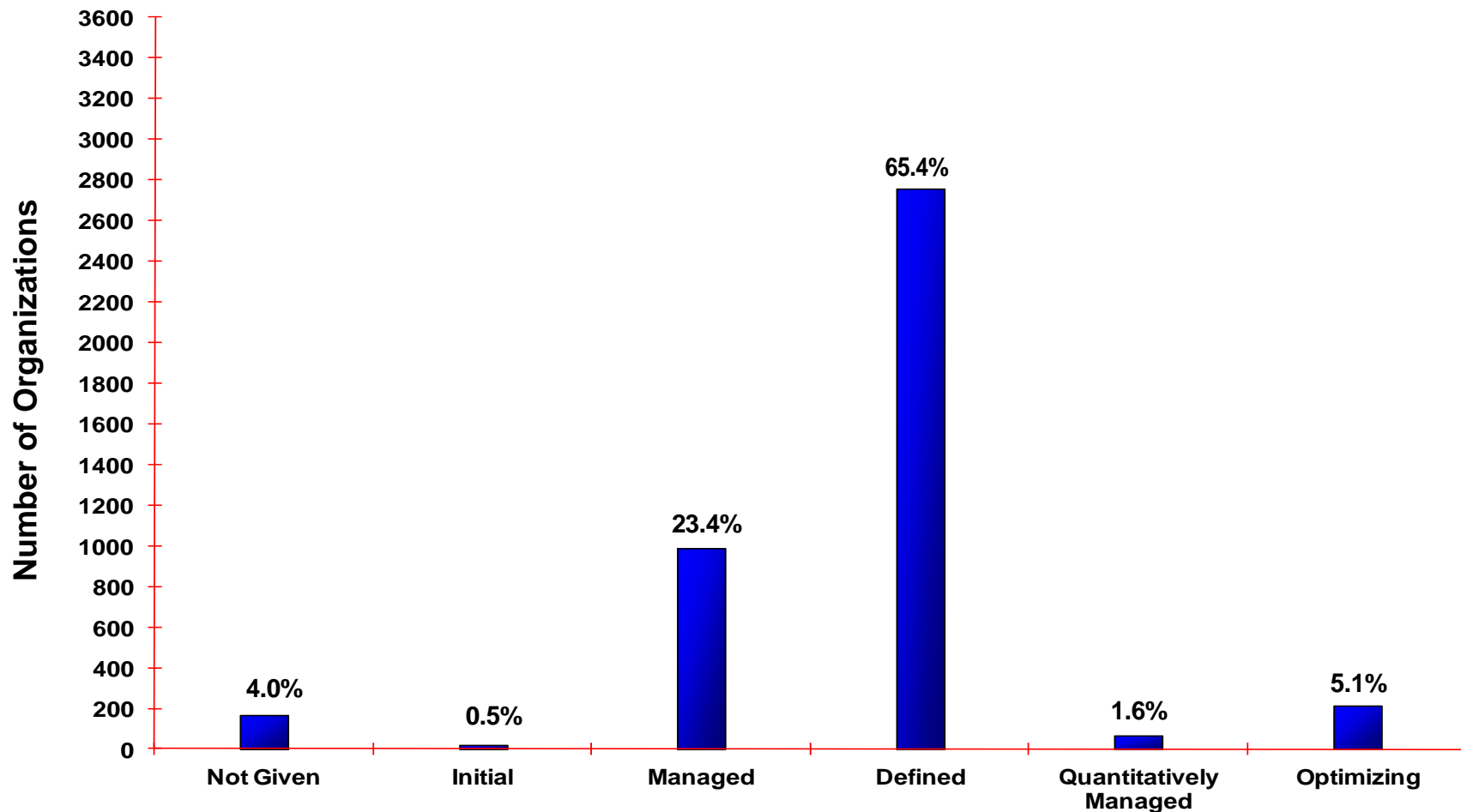
- Global distribution of appraisals
- Growth in the number of appraisals performed
- Shifts in the maturity profile over time

## 3. Organizational Trends

- Time to move up in maturity based on change in maturity level and time between appraisals



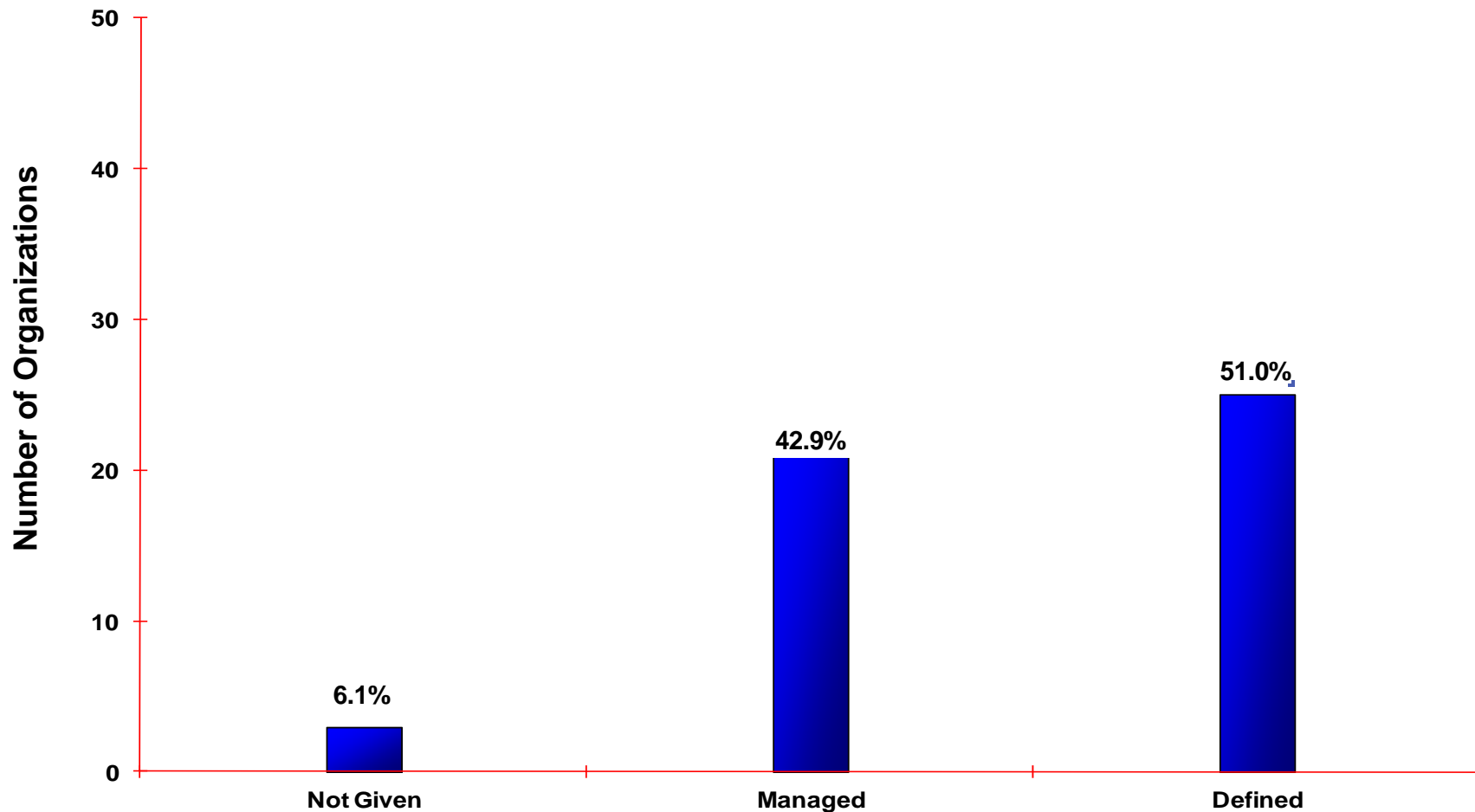
# Process Maturity Profile by All Reporting Organizations



Based on most recent appraisal of 4220 organizations



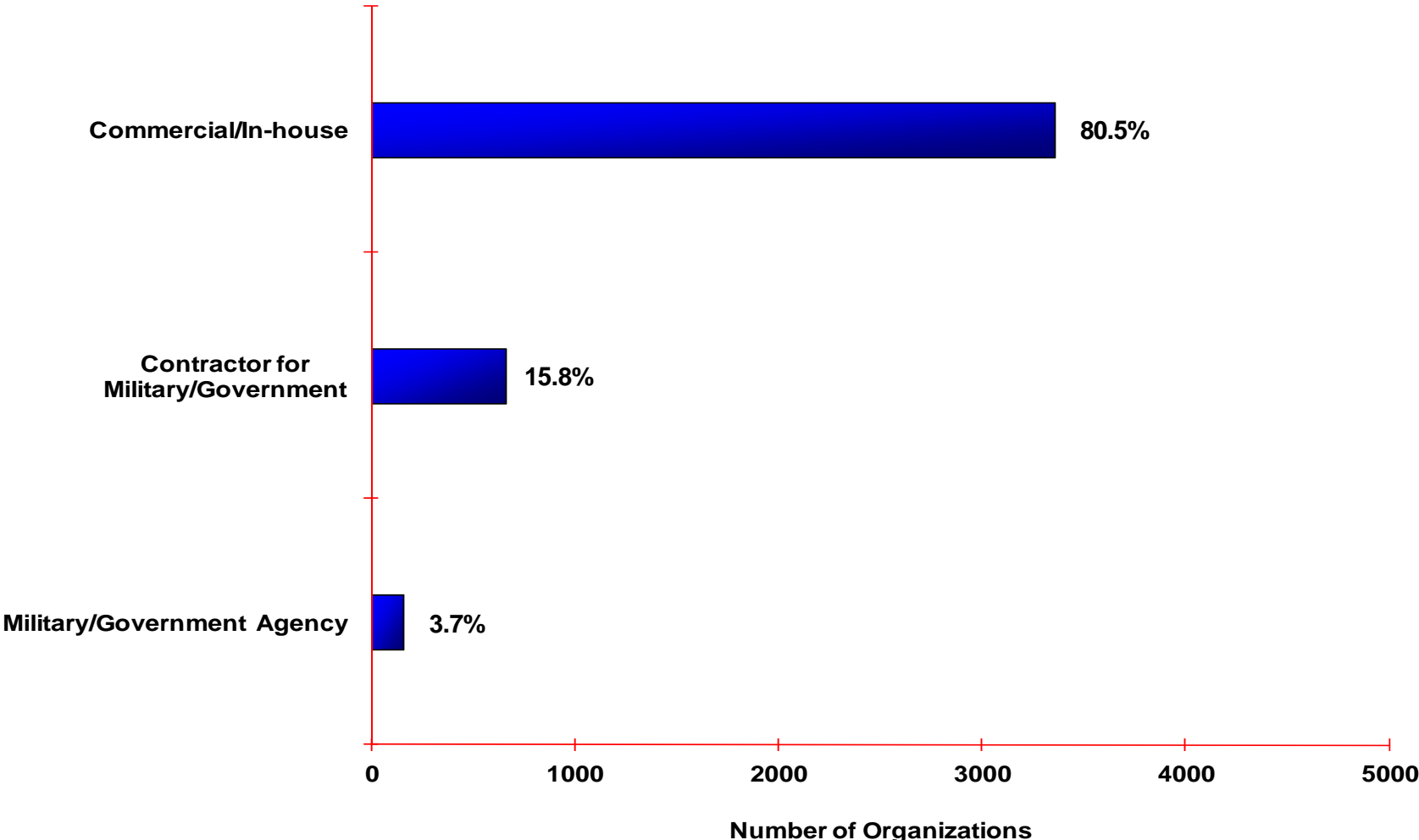
# Process Maturity Profile (SVC Only) by All Reporting Organizations



Based on most recent appraisal of 49 organizations



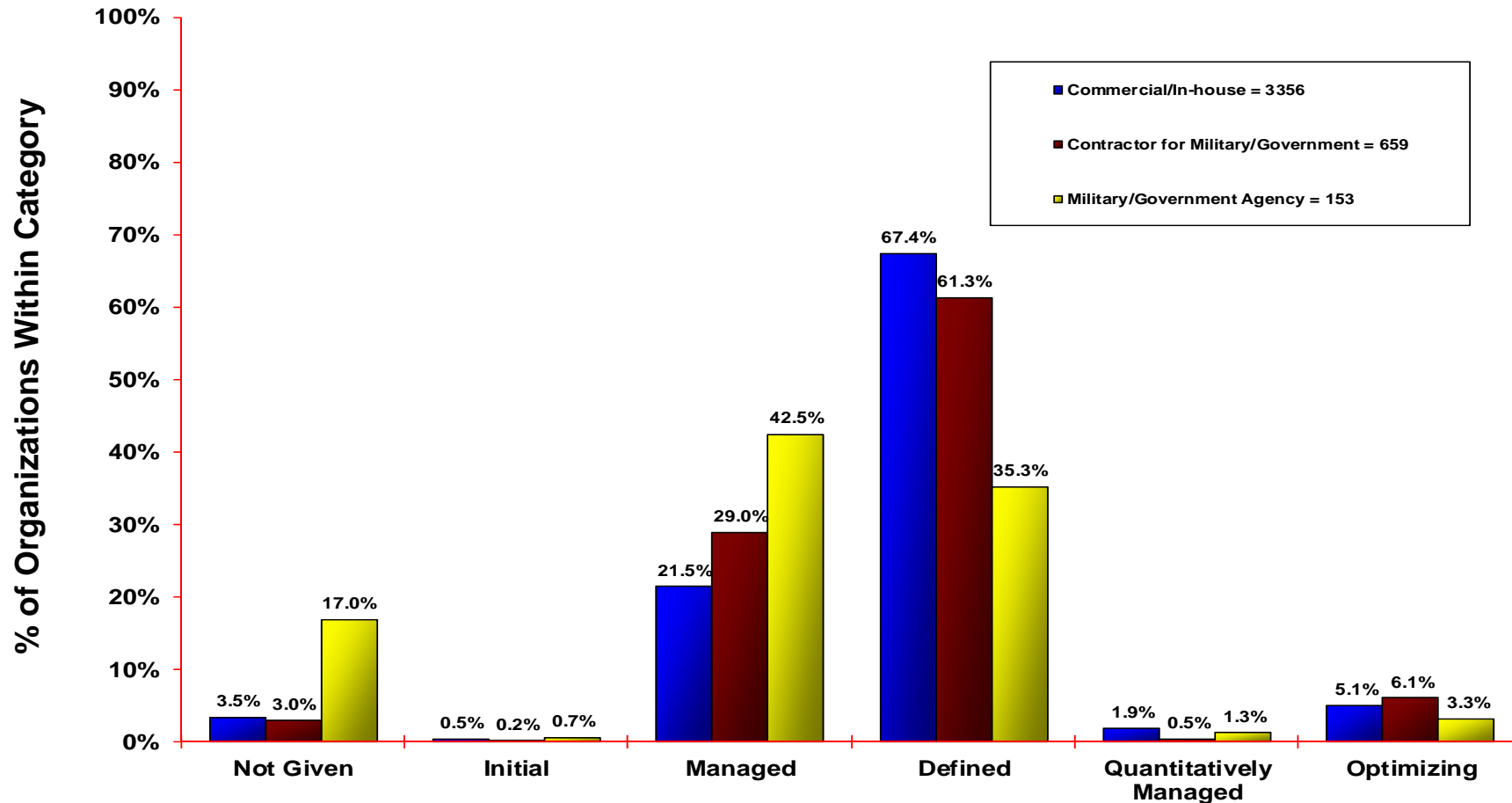
# Reporting Organization Categories



Based on 4220 organizations reporting an organization category



# Process Maturity Profile by Reporting Organization Categories



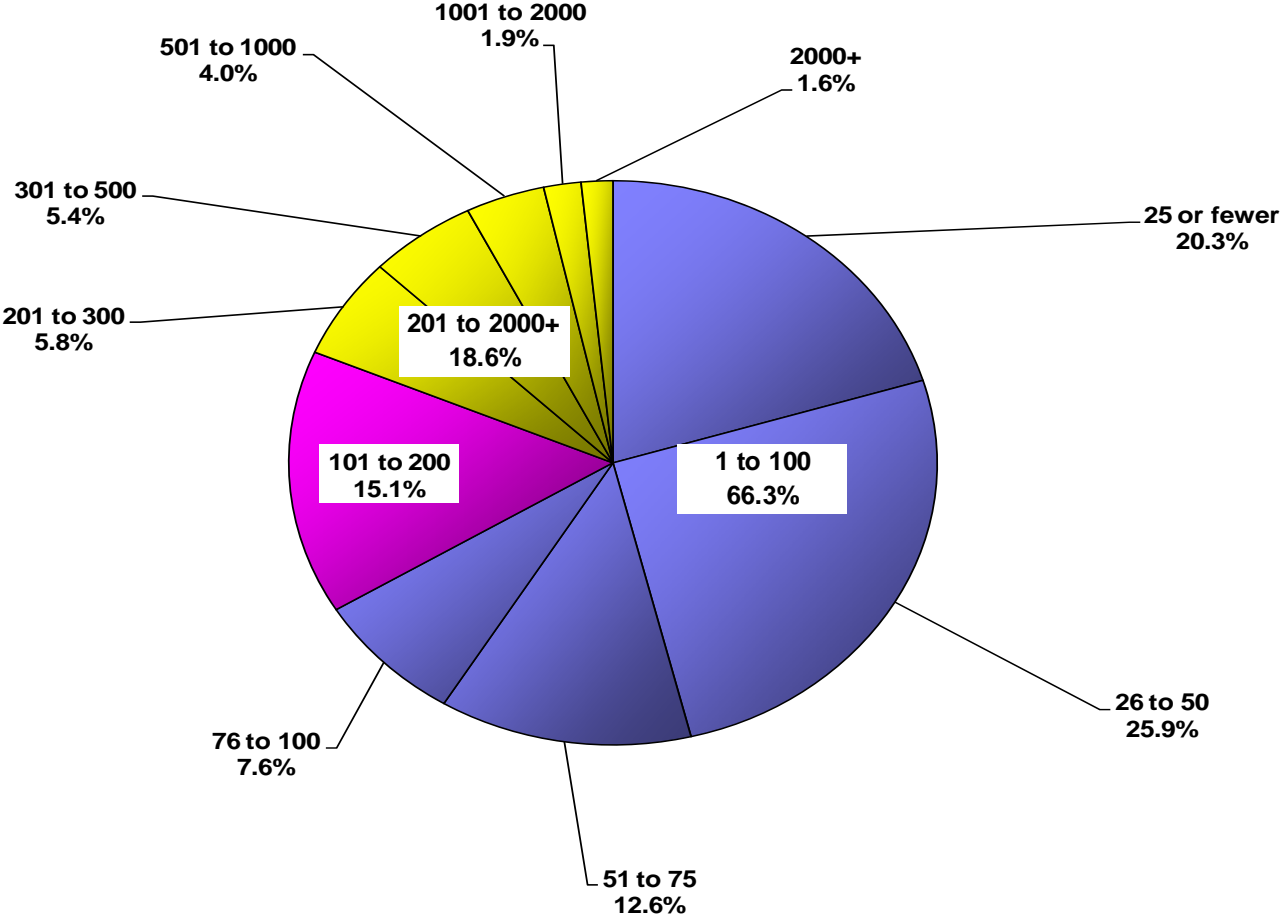
Based on most recent appraisal of 4168 organizations reporting an organization category





# Organization Size

Based on the total number of employees within the area of the organization that was appraised

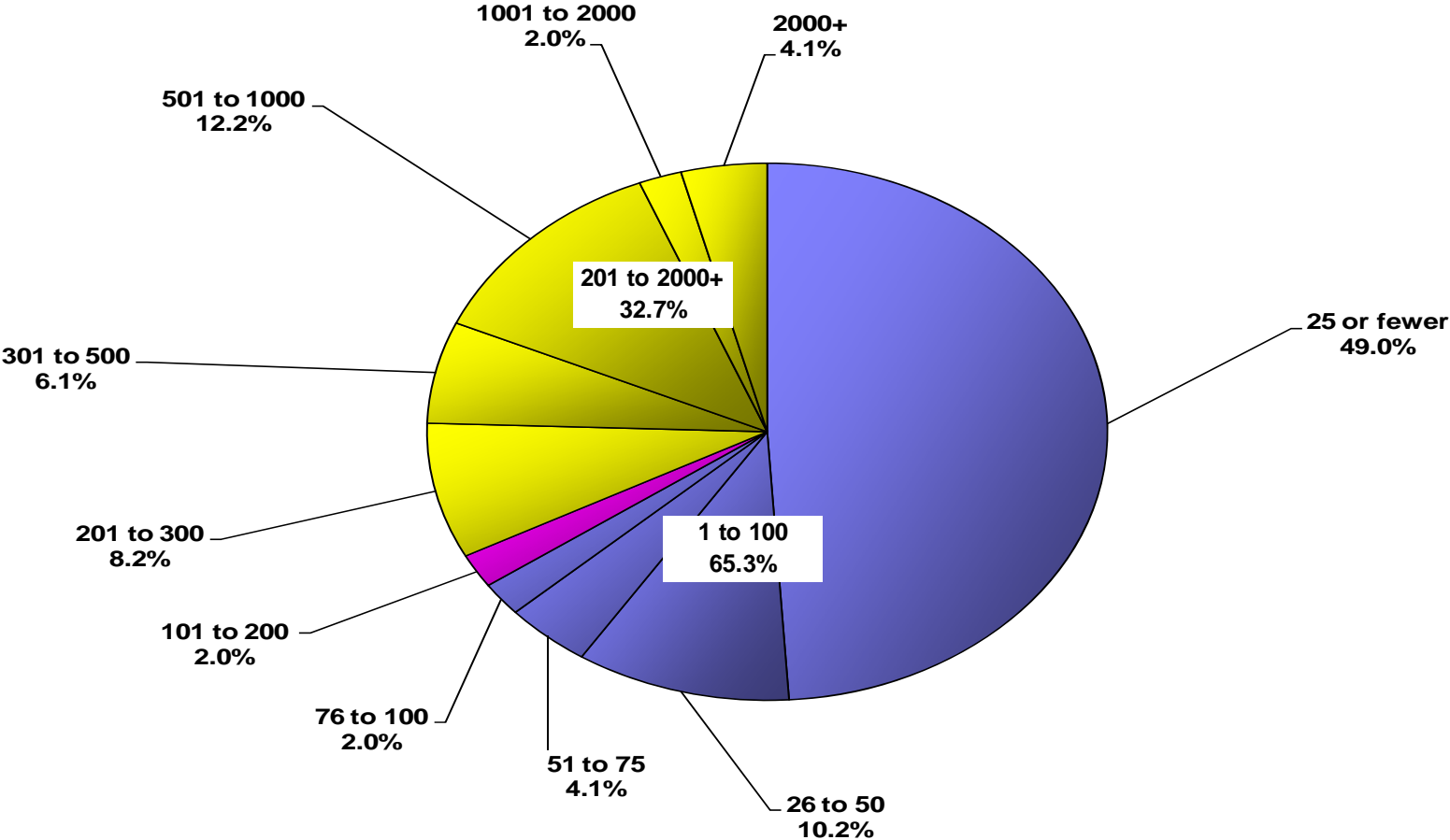


Based on 4197 organizations reporting size data



# Organization Size (SVC Only)

Based on the total number of employees within the area of the organization that was appraised

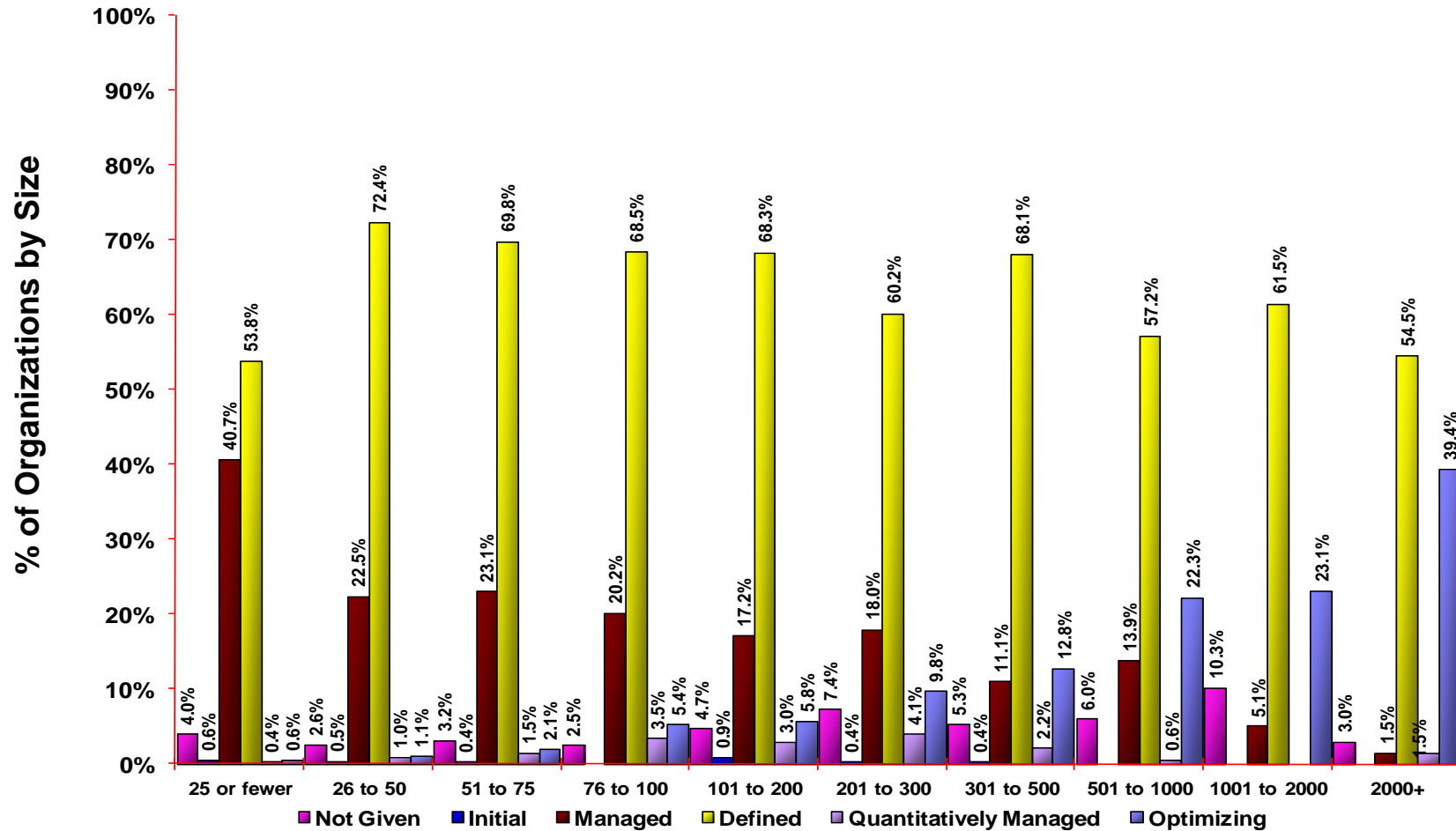


Based on 49 organizations reporting size data



# Maturity Profile by Organization Size

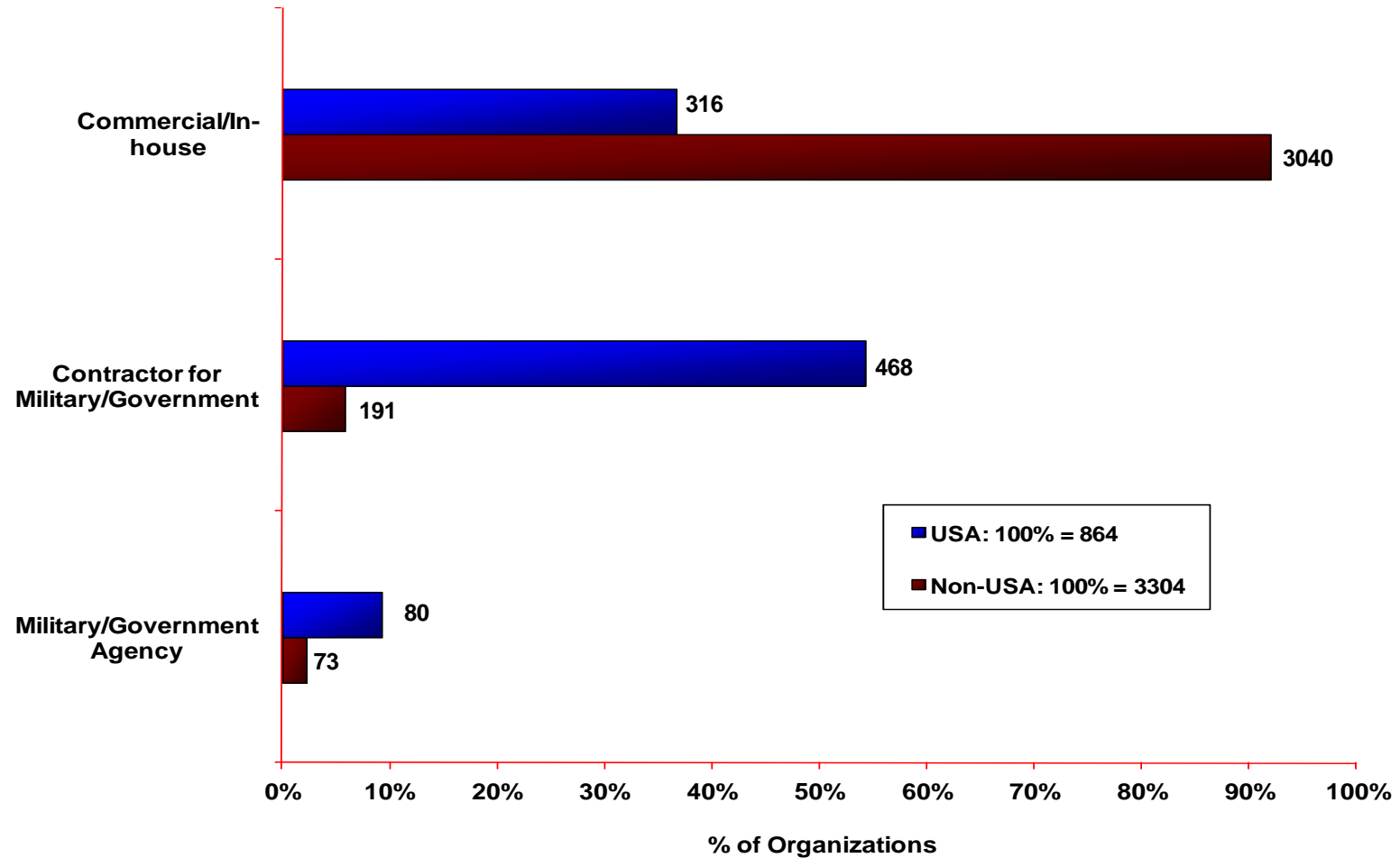
Based on the total number of employees within the area of the organization that was appraised



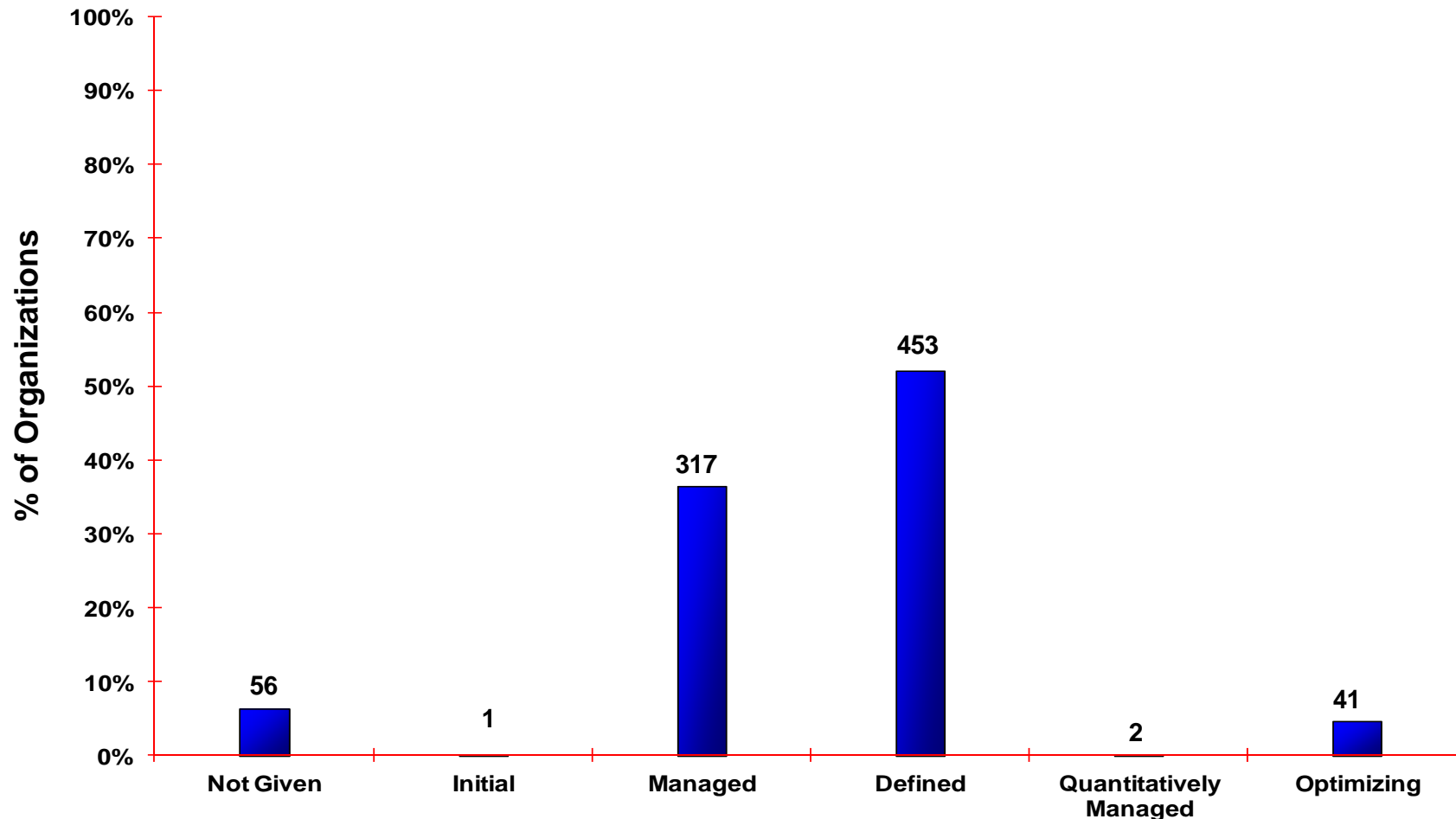
Based on 4197 organizations reporting size data



# USA and Non-USA Reporting Organization Categories



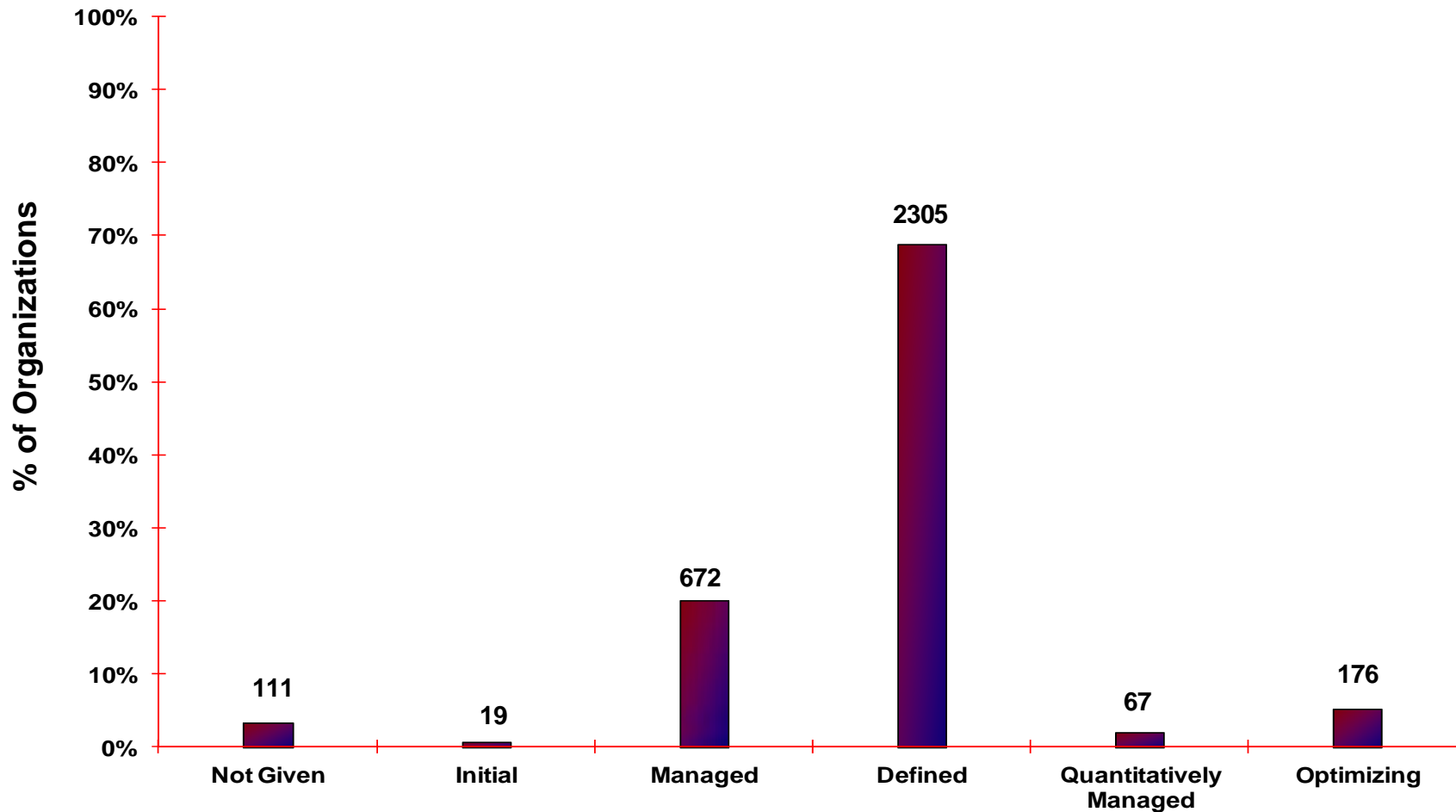
# Maturity Profile by All Reporting Organizations in the USA



Based on 870 organizations in the USA



# Maturity Profile by All Reporting Organizations based outside the USA



Based on 3350 organizations outside the USA



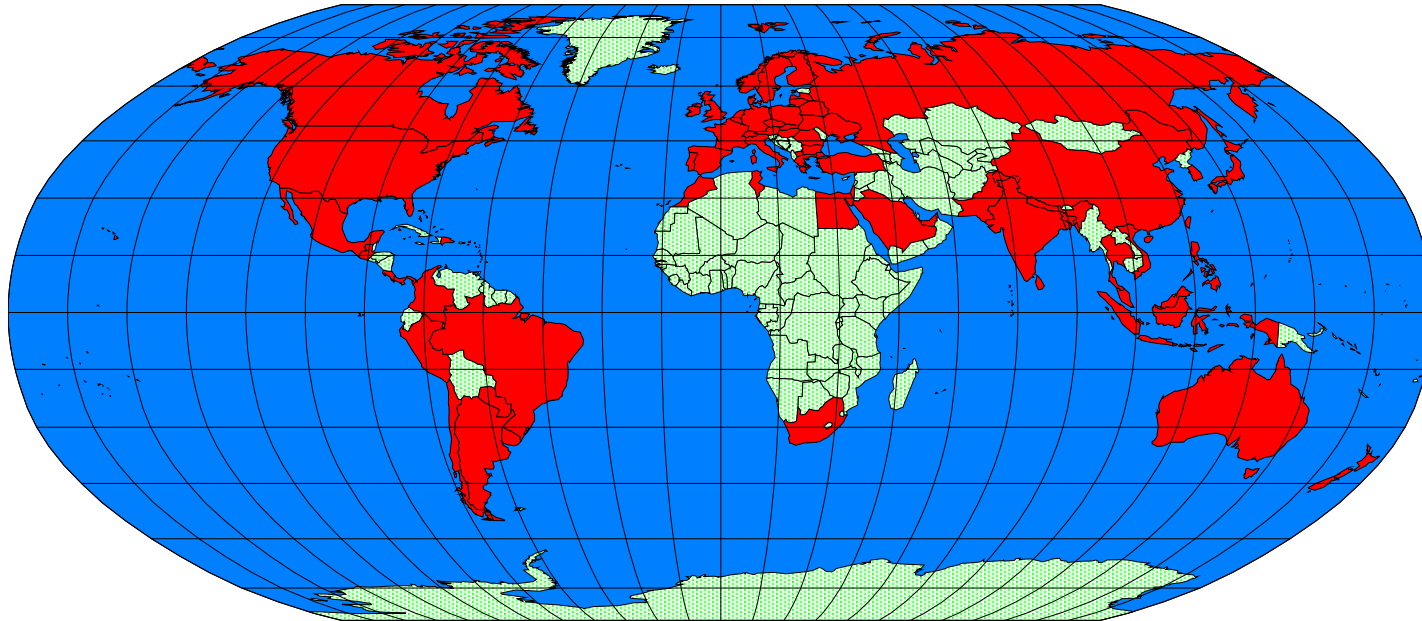
## Section 2—Community Trends

Appraisals are conducted through June 2011 and reported to the SEI by July 2011

- 73 countries reporting appraisals
  - Most of the appraisals are from Asia and North America.
- 4612 Appraisals posted on PARS
  - Expired appraisals are removed from PARS and replaced with the newest reappraisal result.



# Countries Where Appraisals Have Been Performed and Reported to the SEI



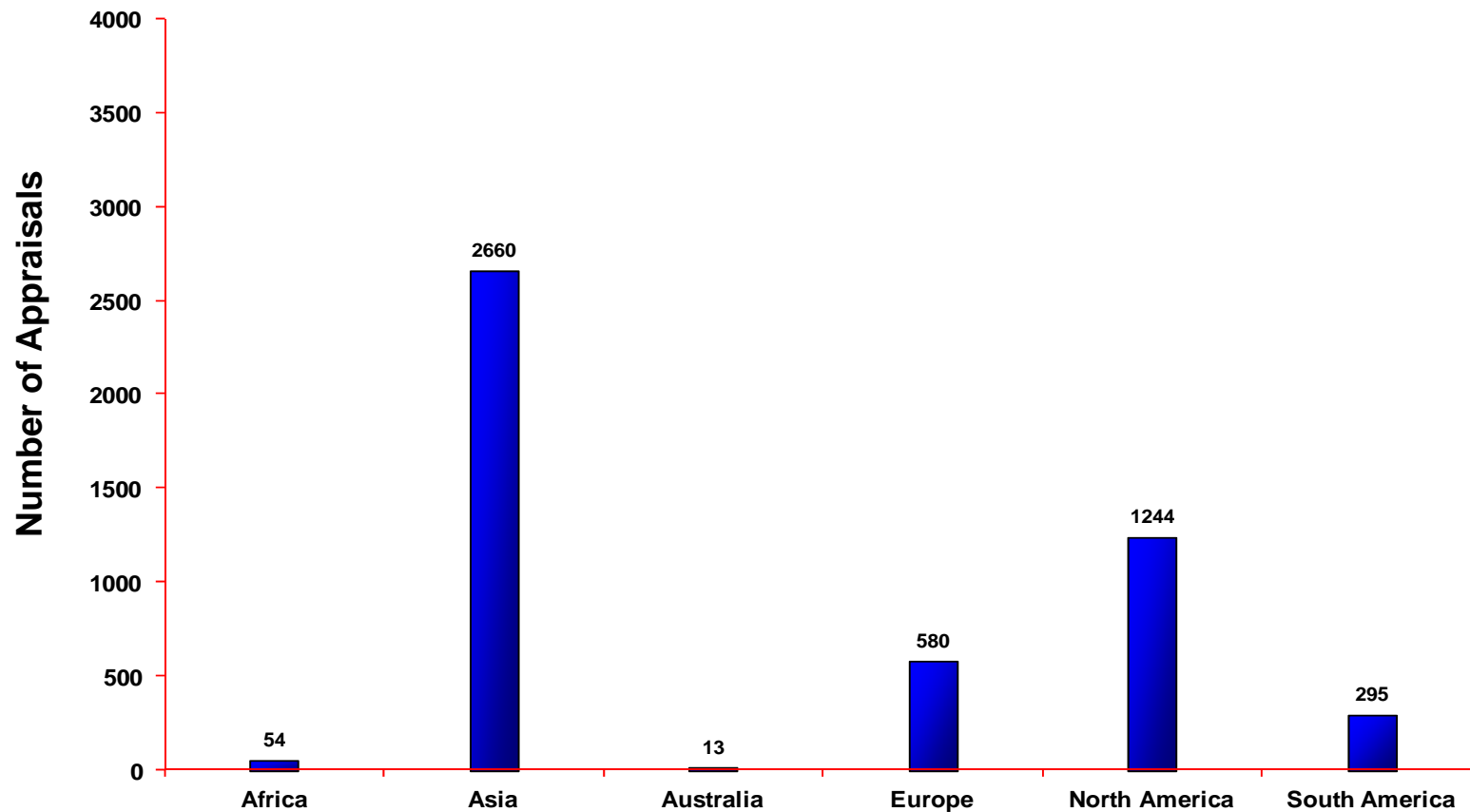
Argentina	Australia	Austria	Bahrain	Bangladesh	Belgium	Brazil	Brunei Darussalam
Bulgaria	Canada	Chile	China	Colombia	Costa Rica	Czech Republic	Denmark
Egypt	Finland	France	Germany	Greece	Guatemala	Hong Kong	Hungary
India	Indonesia	Ireland	Israel	Italy	Japan	<b>Jordan</b>	Korea, Republic Of
Latvia	Lebanon	Lithuania	Luxembourg	Macedonia	Malaysia	Mauritius	Mexico
Morocco	Nepal	Netherlands	New Zealand	Norway	Pakistan	Panama	Paraguay
Peru	Philippines	Poland	Portugal	Qatar	Romania	Russia	Saudi Arabia
Singapore	Slovakia	South Africa	Spain	Sri Lanka	Sweden	Switzerland	Taiwan
Thailand	Tunisia	Turkey	Ukraine	United Arab E	United Kingdom	United States	Uruguay
Viet Nam							

Red country name: New additions with this reporting since March 2011





# Number of Appraisals Reported to the SEI by Continent



Based on 4846 appraisals

North America includes Canada, the USA, and Mexico; South America includes Central America and the Caribbean ; Australia includes New Zealand

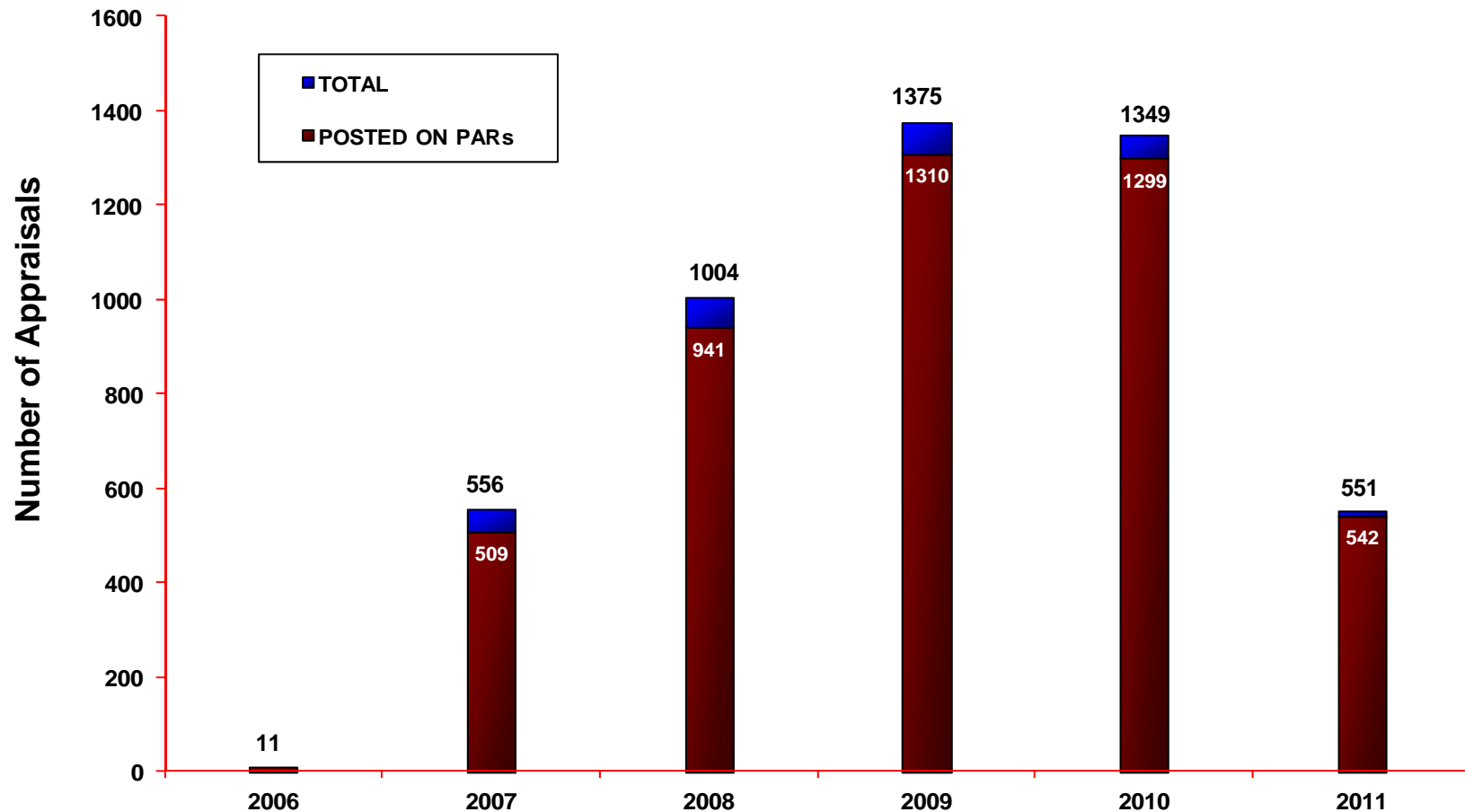


# Number of Appraisals and Maturity Levels Reported to the SEI by Country

Country	Number of Appraisals	Maturity Level 1 Reported	Maturity Level 2 Reported	Maturity Level 3 Reported	Maturity Level 4 Reported	Maturity Level 5 Reported	Country	Number of Appraisals	Maturity Level 1 Reported	Maturity Level 2 Reported	Maturity Level 3 Reported	Maturity Level 4 Reported	Maturity Level 5 Reported
Argentina	66		37	23		2	Malaysia	45		8	35		2
Australia	11		3	3			Mauritius	10 or fewer					
Austria	10 or fewer						Mexico	95	43		45	1	5
Bahrain	10 or fewer						Morocco	10 or fewer					
Bangladesh	10 or fewer						Nepal	10 or fewer					
Belgium	10 or fewer						Netherlands	11	1	3	6		
Brazil	125	1	67	48		7	New Zealand	10 or fewer					
Brunei Darussalam	10 or fewer						Norway	10 or fewer					
Bulgaria	10 or fewer						Pakistan	24	1	21	1		1
Canada	30	1	9	12		3	Panama	10 or fewer					
Chile	33	1	21	10		1	Paraguay	10 or fewer					
China	1557		63	1409	43	35	Peru	18	10	7			
Colombia	40	1	15	8	3	5	Philippines	11	1	4	1	4	
Costa Rica	10 or fewer						Poland	10 or fewer					
Czech Republic	10 or fewer						Portugal	16	6	9			1
Denmark	10 or fewer						Qatar	10 or fewer					
Egypt	40	1	24	11		1	Romania	10 or fewer					
Finland	10 or fewer						Russia	10 or fewer					
France	111		66	34		1	Saudi Arabia	11	2	6	1	1	
Germany	55	6	19	16			Singapore	14	4	8	1		
Greece	10 or fewer						Slovakia	10 or fewer					
Guatemala	10 or fewer						South Africa	10 or fewer					
Hong Kong	10 or fewer						Spain	186	1	106	62	2	4
Hungary	10 or fewer						Sri Lanka	15	2	13			
India	462		12	330	3	108	Sweden	10 or fewer					
Indonesia	10 or fewer						Switzerland	10 or fewer					
Ireland	10 or fewer						Taiwan	98	1	42	50	4	
Israel	13			7		4	Thailand	38	12	25			1
Italy	45		18	23			Tunisia	10 or fewer					
Japan	165	7	39	85	6	7	Turkey	22		19			3
Jordan	10 or fewer						Ukraine	10 or fewer					
Korea, Republic Of	128		49	59	10	4	United Arab Emirates	10 or fewer					
Latvia	10 or fewer						United Kingdom	74	1	21	26		5
Lebanon	10 or fewer						United States	1119	5	417	550	3	60
Lithuania	10 or fewer						Uruguay	10 or fewer					
Luxembourg	10 or fewer						Viet Nam	17			14	1	2
Macedonia	10 or fewer												



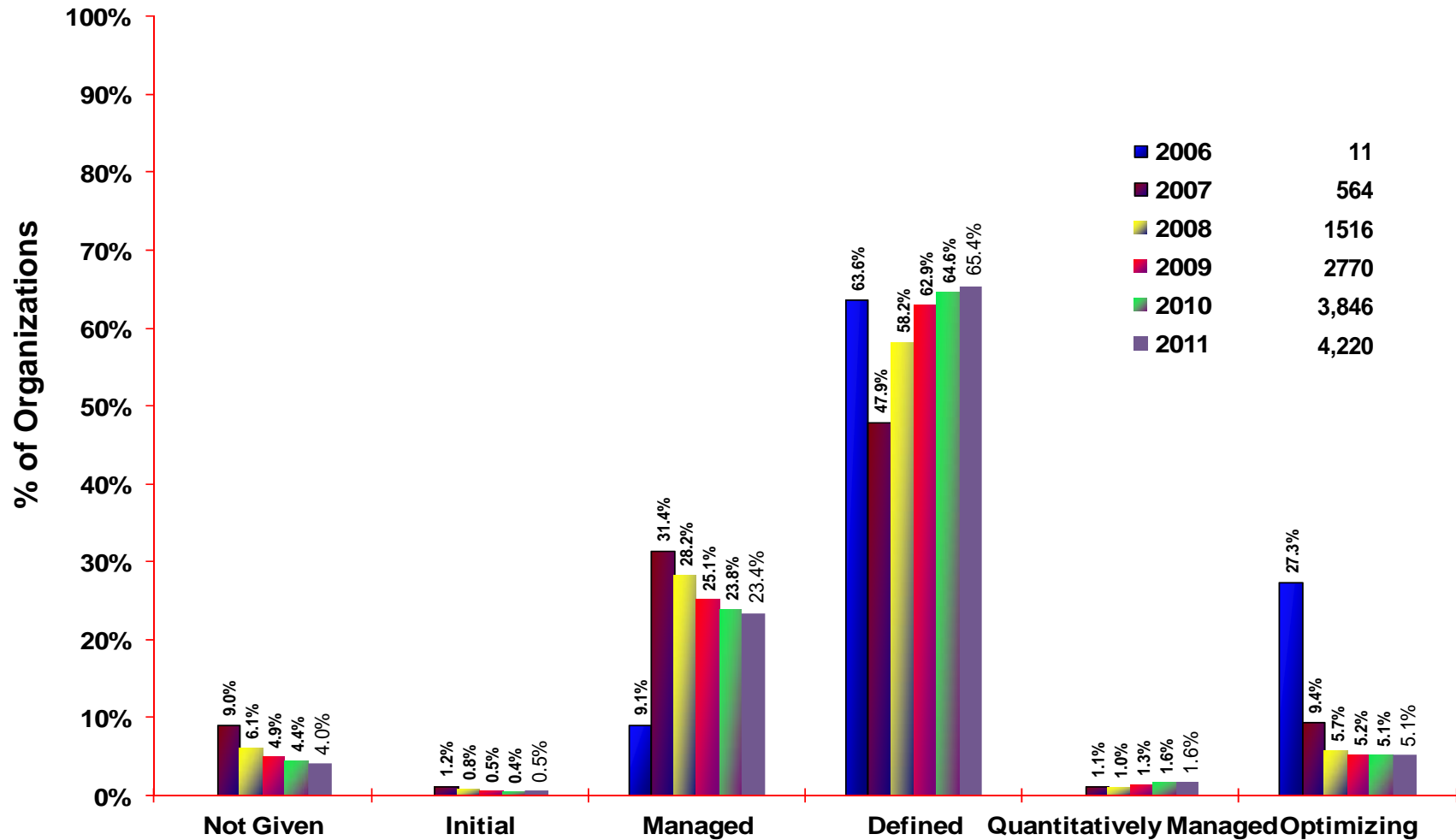
# Number of SCAMPI A Appraisals Reported to SEI by Year



Based on 4846 appraisals



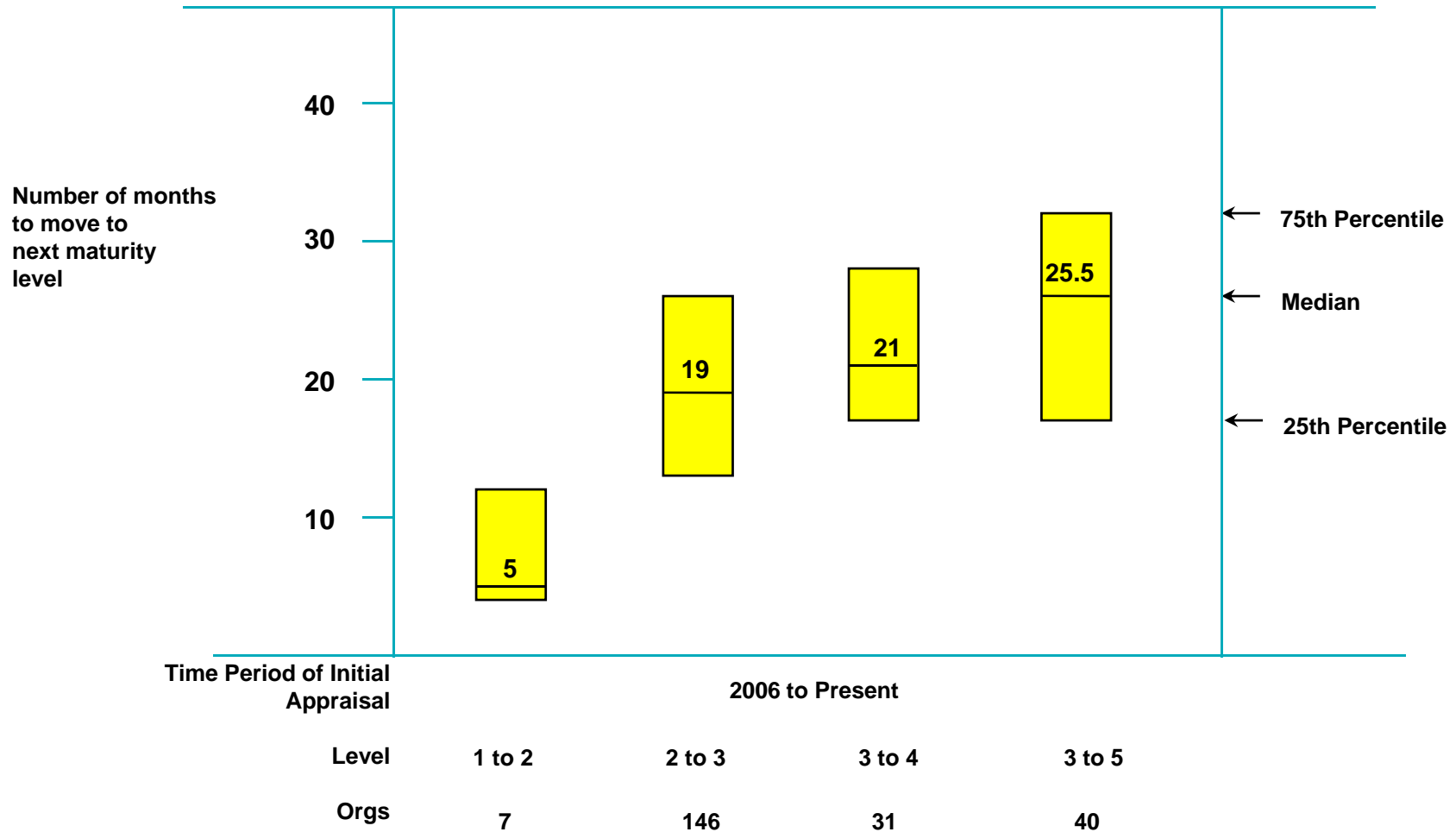
# Trends in the Community Maturity Profile



Based on a cumulative view of the most recent appraisals of organizations up through the year indicated



# Time to Move Up



# Summary -1

Since 2006, 4846 SCAMPI v1.2/1.3 appraisals have been reported to the SEI.

Appraisals report from China, Spain, Brazil, Argentina, and India are increasing at a rapid rate.

More than 66% of appraised organizational units have 100 or fewer employees. The percentage is increasing steadily.

The majority of reported appraisals are maturity level 2 and 3 organizations.

The number of appraisals in the USA and China represent more than 55% of the total number of appraisals.

China is now reporting more appraisals than USA



# Summary -2

For organizations that began their CMMI-based SCAMPI effort with V1.2 or later, the median time to move from

- maturity level 2 to 3 is 19 months
- maturity level 3 to 4 is 21 months
- maturity level 3 to 5 is 25.5 months



# Terms Used in this Report

- Company** - Parent of the appraised entity  
A company can be a commercial or non-commercial firm, for-profit or not for-profit business, a research and development unit, a higher education unit, a government agency, or branch of service, etc.
- Organization** - a.k.a. Appraised entity  
The organization unit to which the appraisal results apply. An appraised entity can be the entire company, a selected business unit, units supporting a particular product line or service, etc.
- Non-USA** - Appraised entity whose geographic location is not within the United States. The parent of the appraised entity may or may not be based within the United States.
- PARS** - Published Appraisal Results webpage contains CMMI® appraisals published at the request of the appraisal sponsor.  
The link is: <http://sas.sei.cmu.edu/pars/>





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