

CMMI® for Development SCAMPISM Class A Appraisal Results 2010 End-Year Update

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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-DEV

Describe results from Standard CMMI Appraisal Method for Process Improvement (SCAMPISM) v1.1/v1.2 Class A appraisals using Capability Maturity Model[®] Integration (CMMI-SE/SW/IPPD/SS v1.1 or CMMI - DEV v1.2)*

- * Organizations previously appraised against CMMI v1.0 and which have not reappraised against v1.1 or v1.2 are not included in this report.
- * SVC,ACQ,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 appraisal, since 2002, of reporting organizations

2. Community Trends

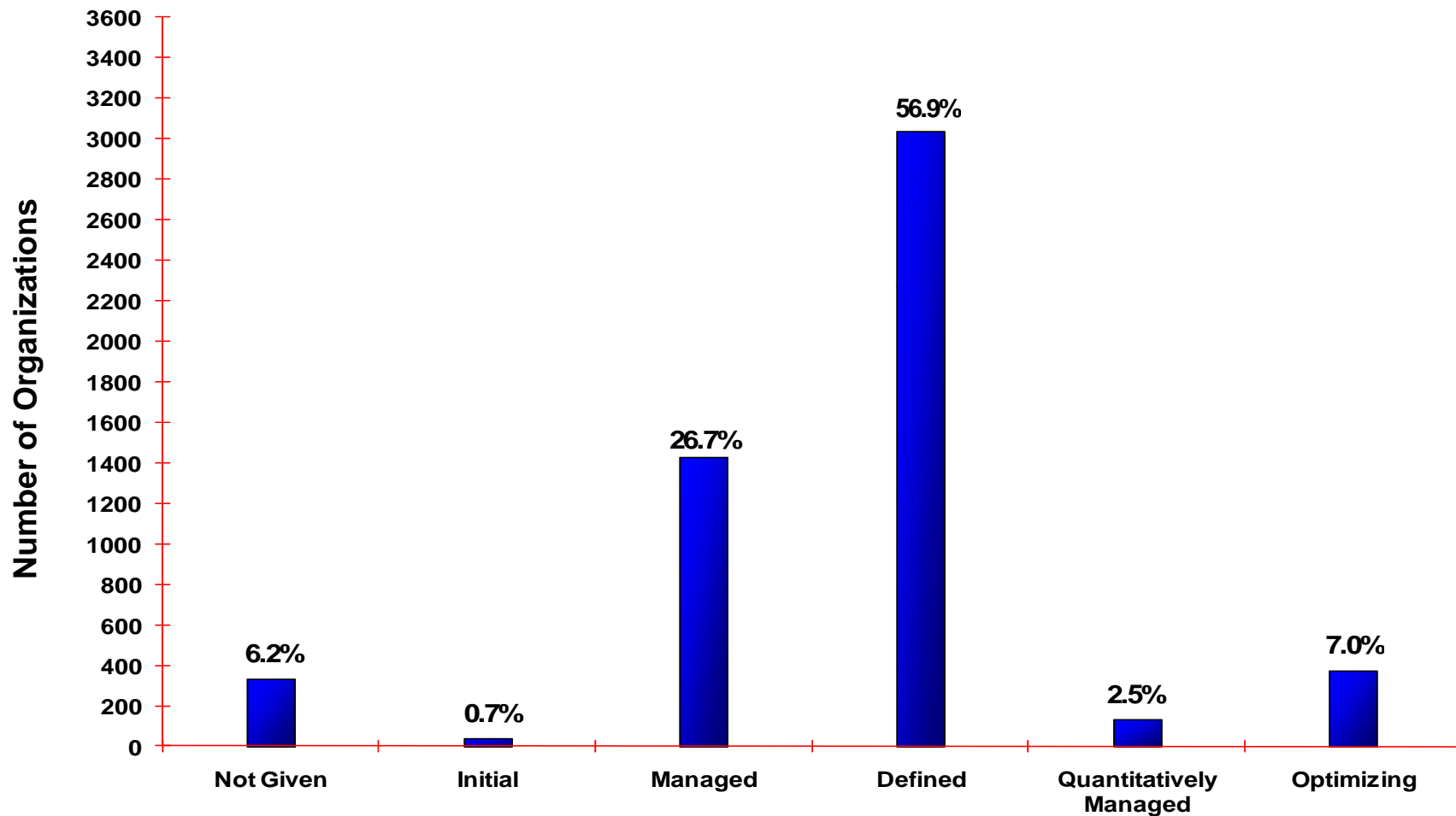
- Global distribution of appraisals
- Growth in the number of appraisals performed
- Shifts in the maturity profile over time

3. Organizational Trends

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



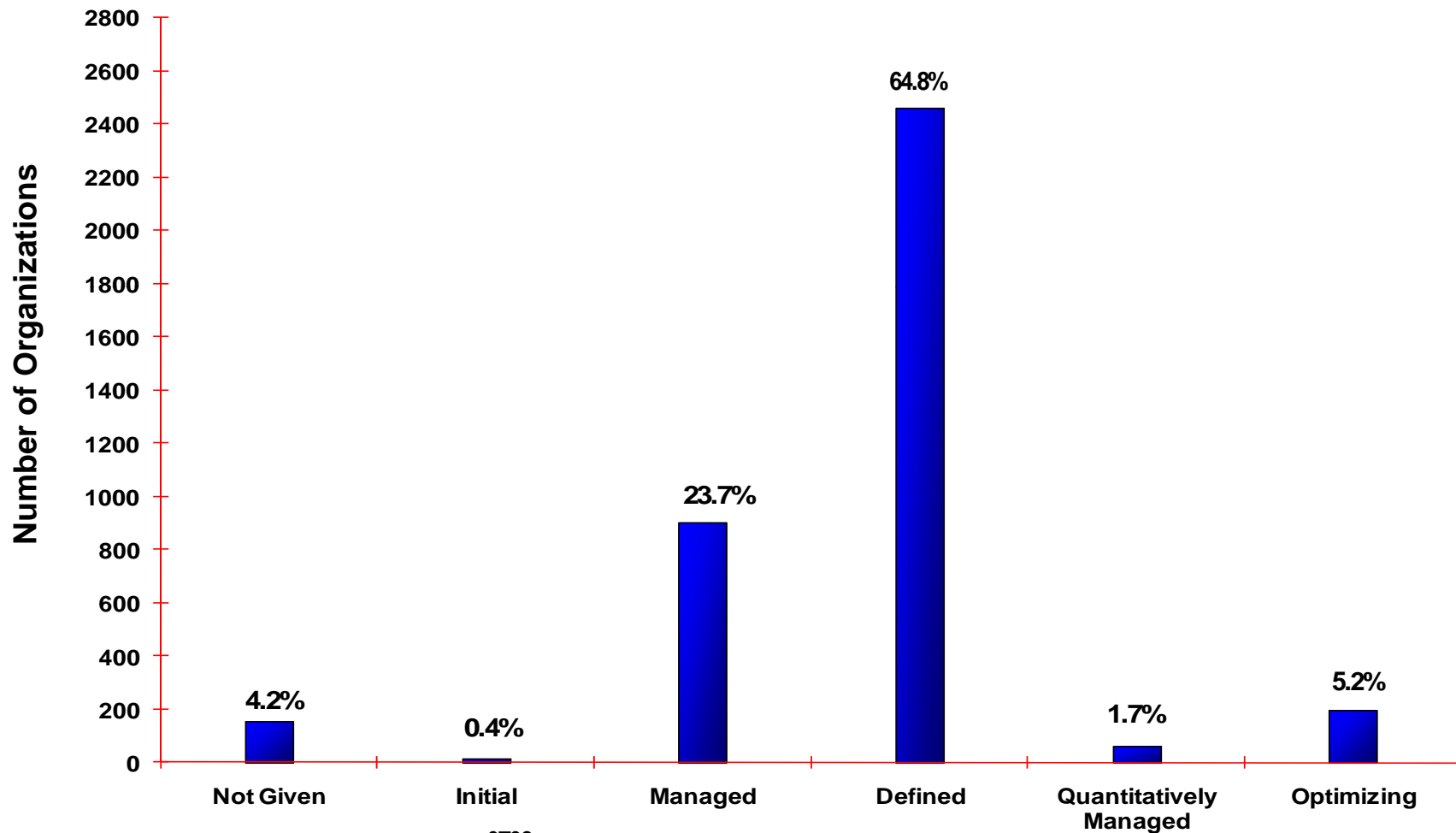
Process Maturity Profile by All Reporting Organizations



Based on most recent appraisal of **5346** organizations



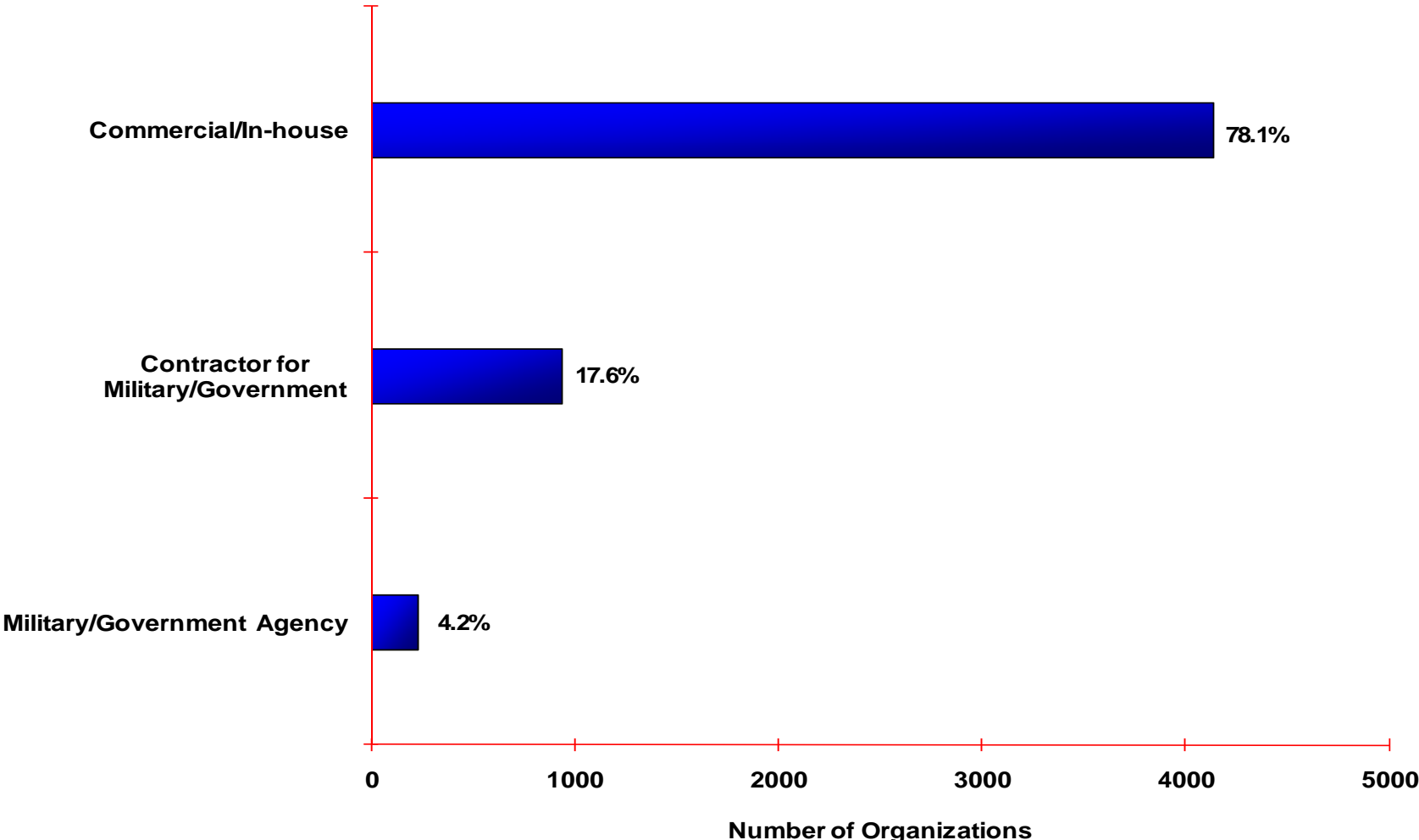
Process Maturity Profile (V1.2 Only) by All Reporting Organizations



Based on most recent appraisal of **3798** organizations



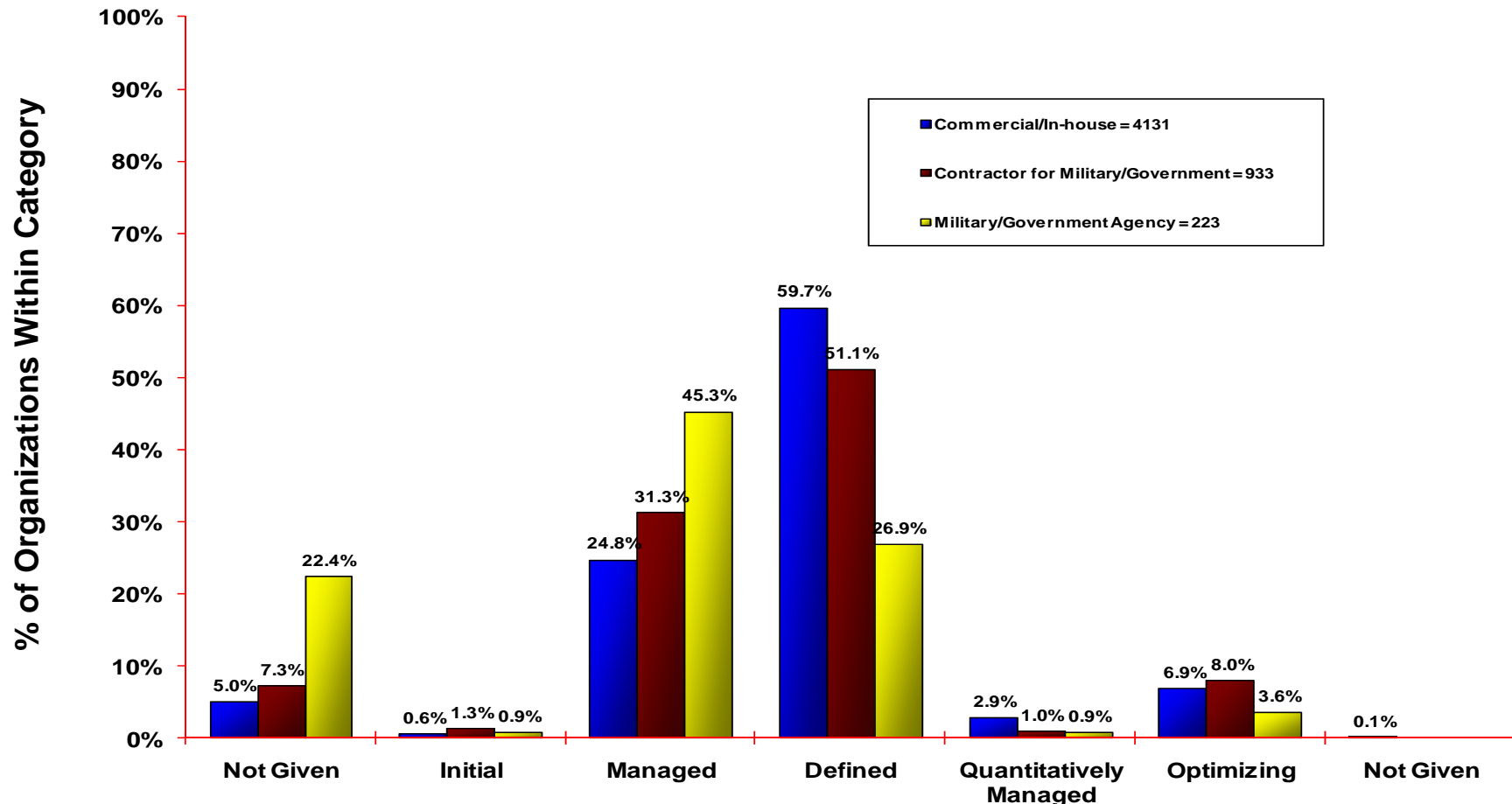
Reporting Organization Categories



Based on 5346 organizations reporting an organization category



Process Maturity Profile by Reporting Organization Categories

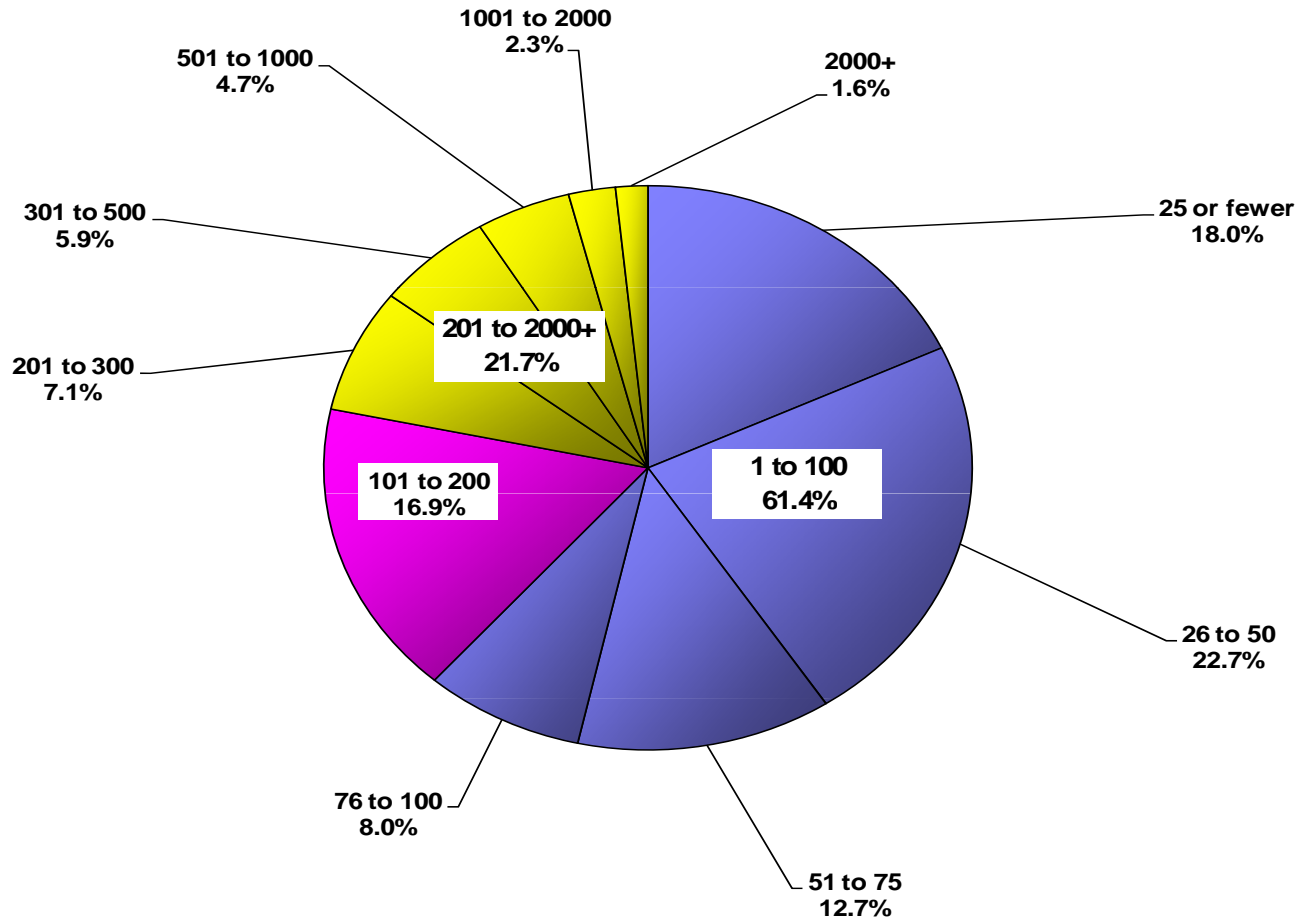


Based on most recent appraisal of **5287** organizations reporting an organization category



Organization Size

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

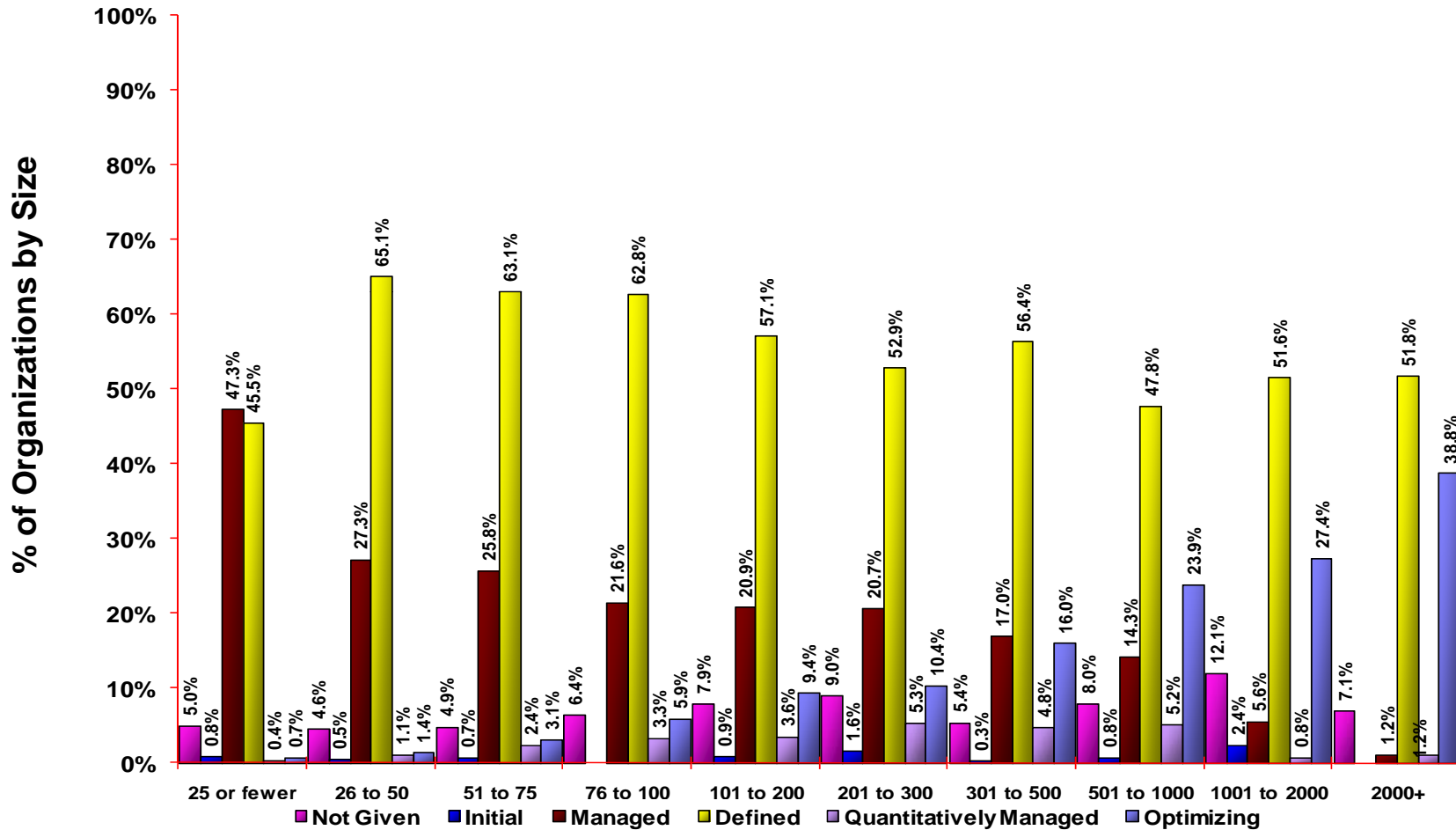


Based on **5301** organizations reporting size data



Maturity Profile by Organization Size

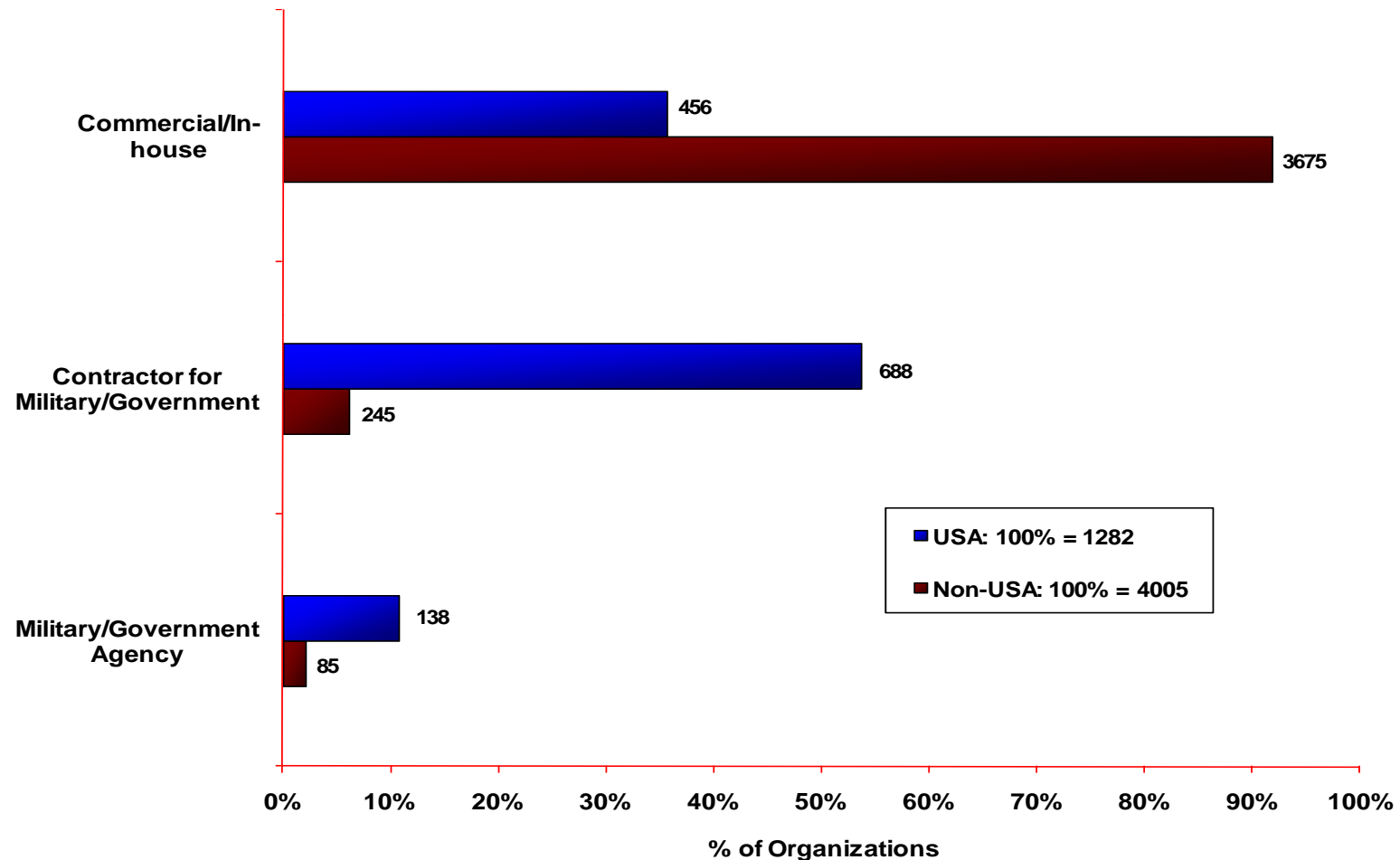
Based on the total number of employees within the area of the organization that was appraised



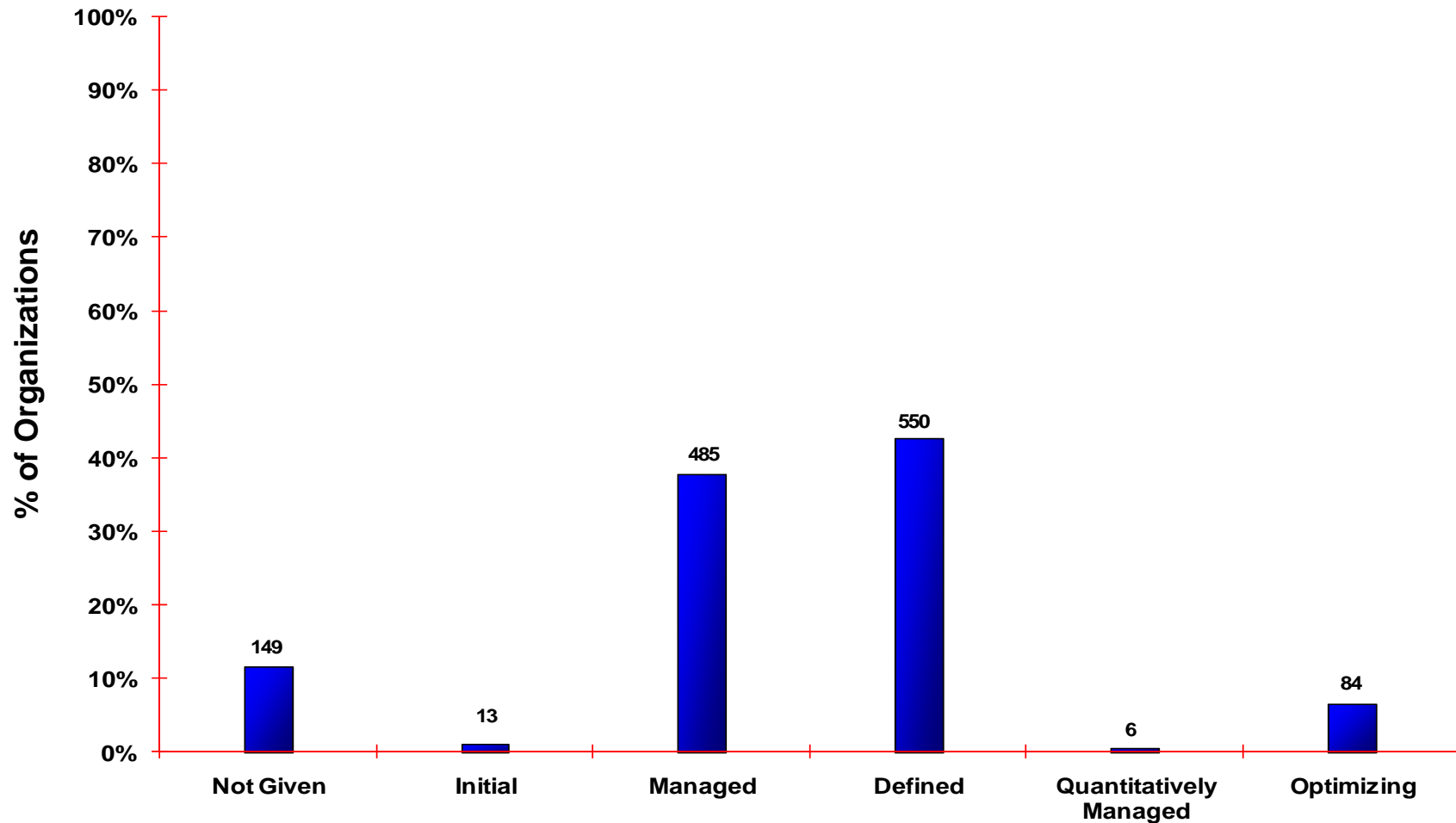
Based on 5301 organizations reporting size data



USA and Non-USA Reporting Organization Categories



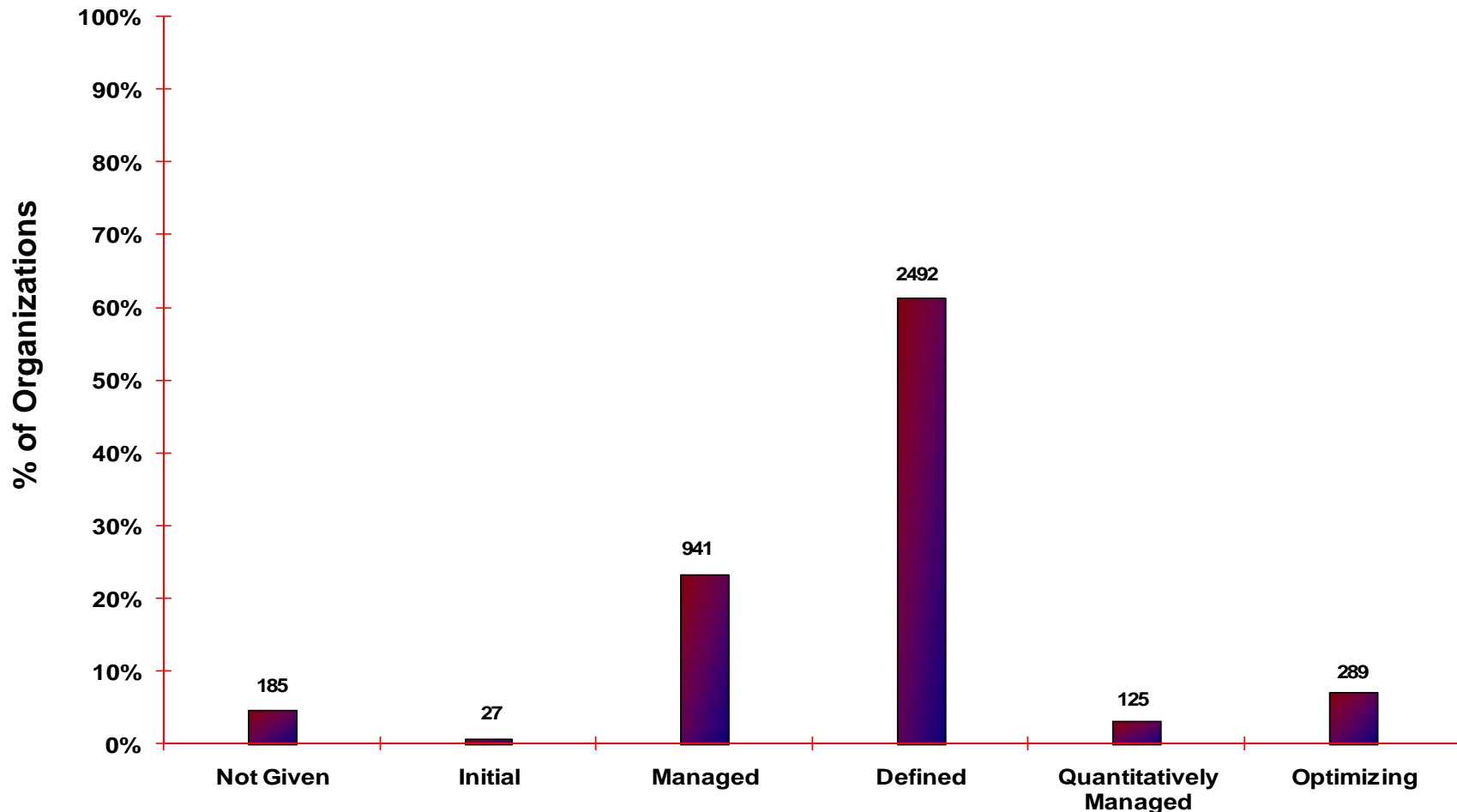
Maturity Profile by All Reporting Organizations in the USA



Based on 1287 organizations in the USA



Maturity Profile by All Reporting Organizations based outside the USA



Based on **4059** organizations outside the USA



Section 2—Community Trends

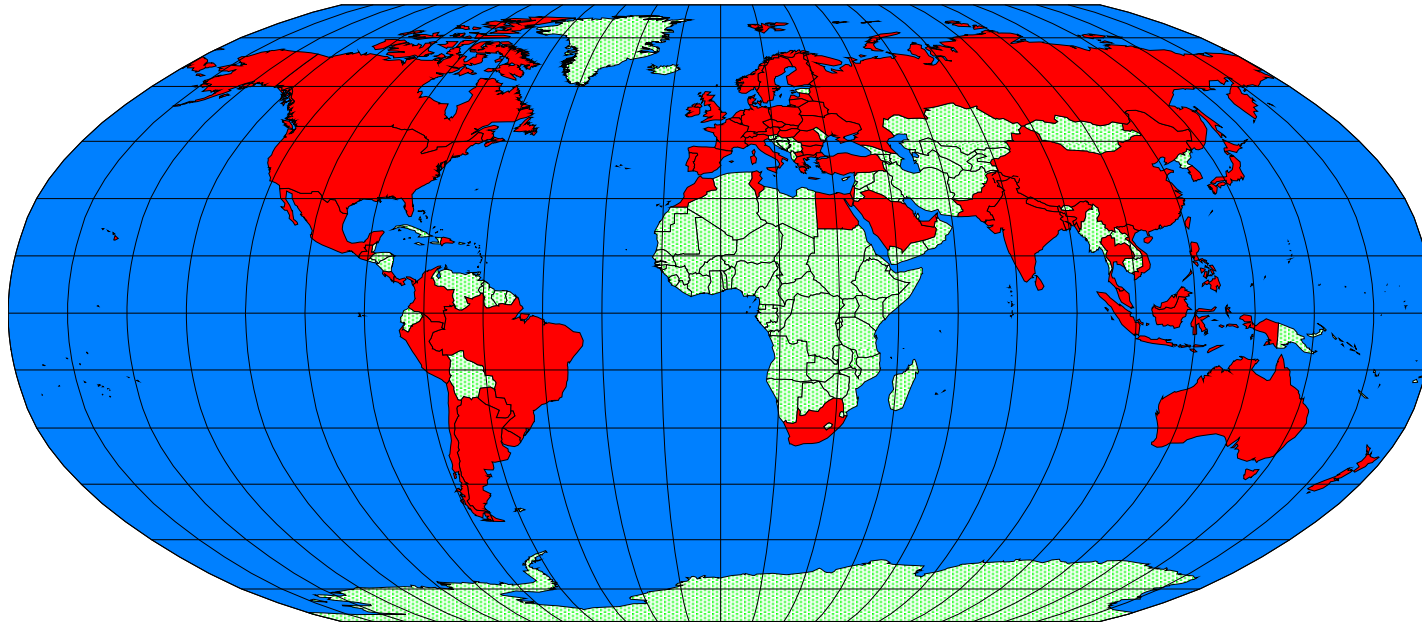
Appraisals are conducted through December 2010 and reported to the SEI by January 2011

- 74 countries reporting appraisals
 - Most of the appraisals are from Asia and North America.
- 5871 Appraisals posted on PARS
 - Expired appraisals are removed from PARS and replaced with the newest reappraisal result.

Please refer to Terms Used in this Report on page 25.



Countries Where Appraisals Have Been Performed and Reported to the SEI

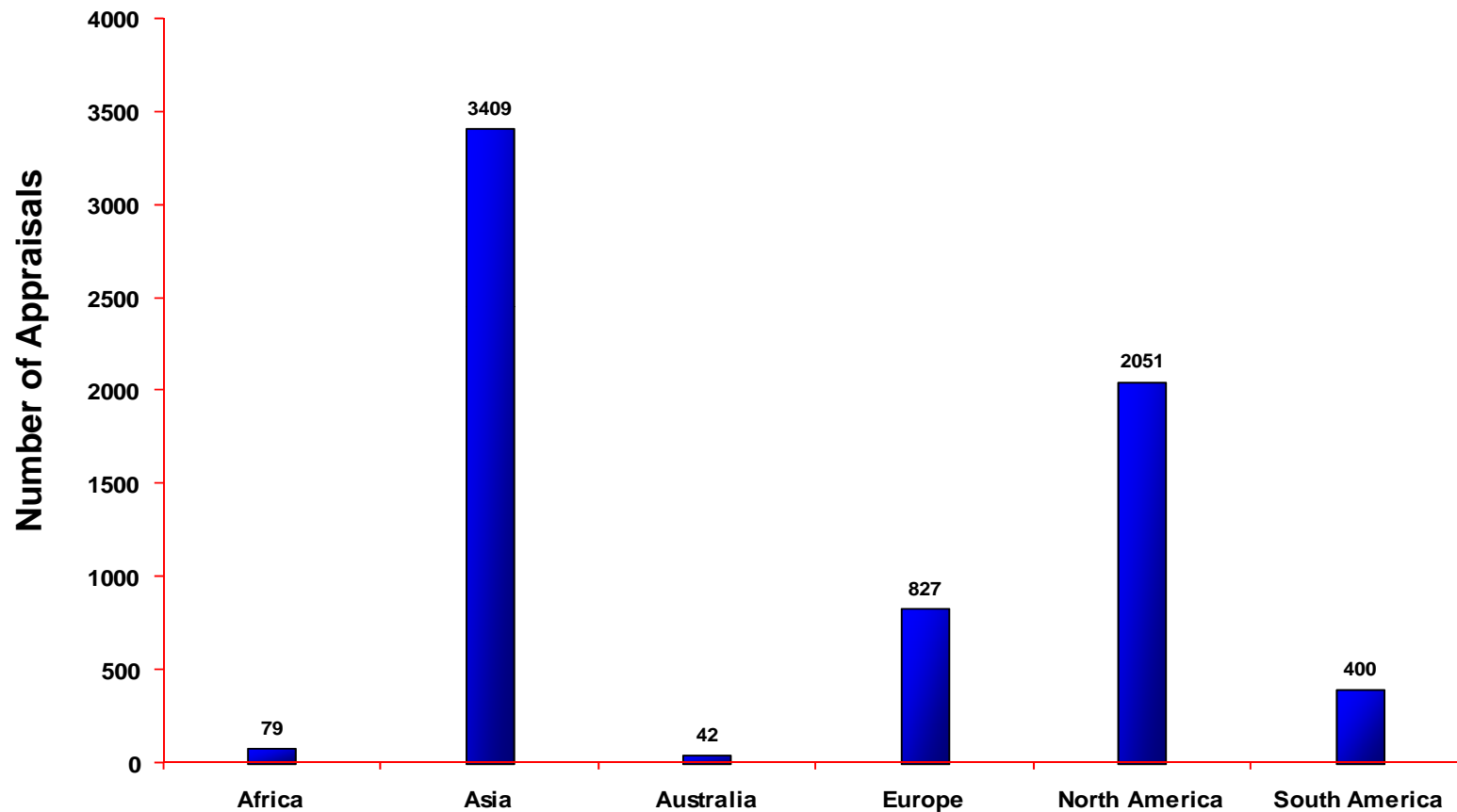


Argentina	Australia	Austria	Bahrain	Bangladesh	Belarus	Belgium	Brazil
Brunei Darussalam	Bulgaria	Canada	Chile	China	Colombia	Costa Rica	Czech Republic
Denmark	Dominican Republic	Egypt	Finland	France	Germany	Greece	Guatemala
Hong Kong	Hungary	India	Indonesia	Ireland	Israel	Italy	Japan
Korea, Republic 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 Emirates	United Kingdom	United States
Uruguay	Viet Nam						

Red country name: New additions with this reporting since September 2010



Number of Appraisals Reported to the SEI by Continent



Based on **6808** appraisals

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

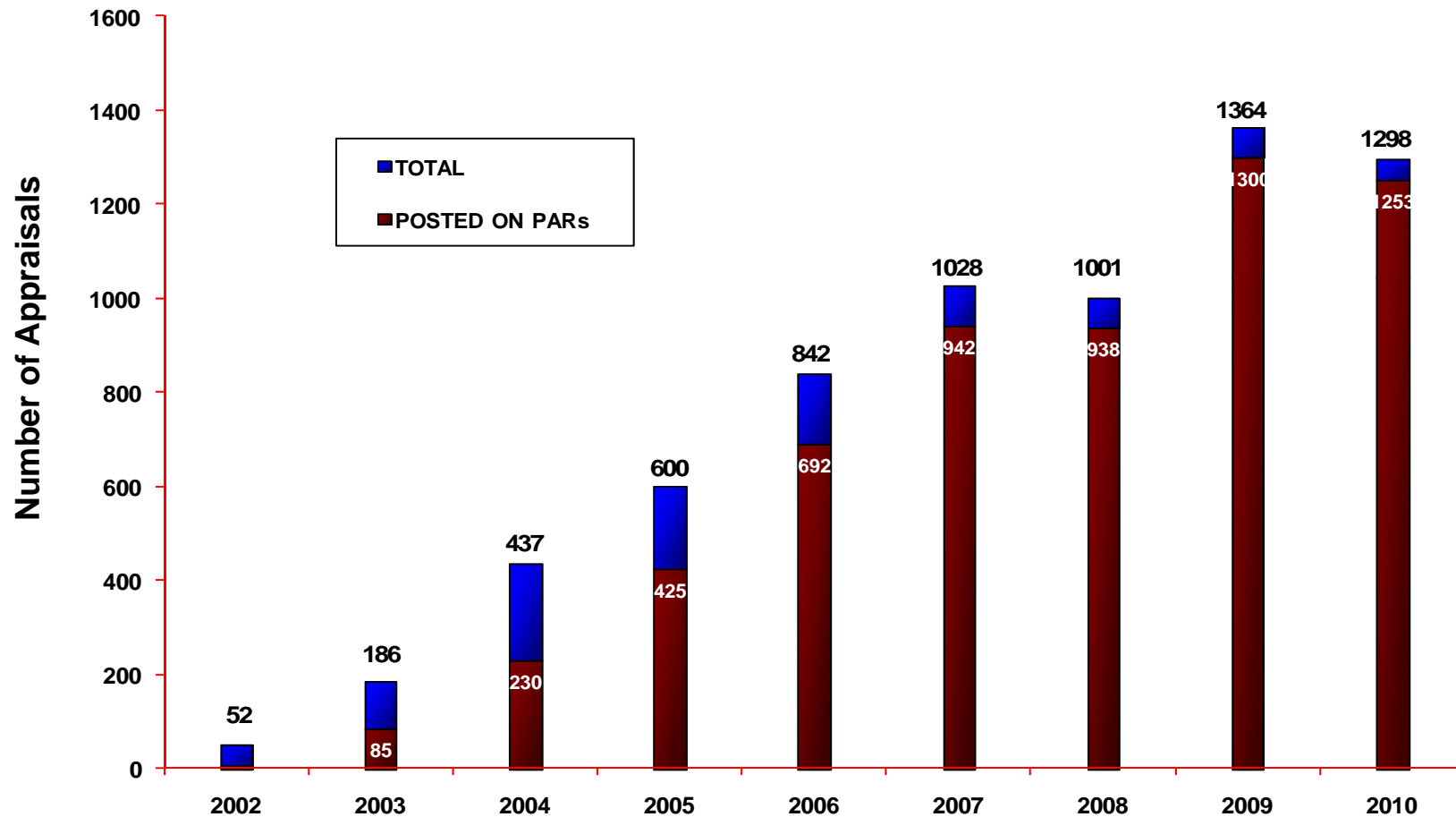


Number of Appraisals and Maturity Levels Reported to the SEI by Country

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	92		56	26	2	4	Macedonia	10 or fewer					
Australia	39	1	10	7	2	4	Malaysia	81		23	52		6
Austria	10 or fewer						Mauritius	10 or fewer					
Bahrain	10 or fewer						Mexico	115		50	50	4	9
Bangladesh	10 or fewer						Morocco	10 or fewer					
Belarus	10 or fewer						Nepal	10 or fewer					
Belgium	10 or fewer						Netherlands	15		5	7		1
Brazil	181	1	95	68	1	13	New Zealand	10 or fewer					
Brunei Darussalam	10 or fewer						Norway	10 or fewer					
Bulgaria	10 or fewer						Pakistan	31	1	23	4		2
Canada	65	1	17	27	5	4	Panama	10 or fewer					
Chile	45		27	15		2	Paraguay	10 or fewer					
China	1729	1	147	1436	56	64	Peru	16		7	8		
Colombia	51		20	16	4	4	Philippines	29		3	13	1	10
Costa Rica	10 or fewer						Poland	10 or fewer					
Czech Republic	10 or fewer						Portugal	16		6	8		1
Denmark	10 or fewer						Qatar	10 or fewer					
Dominican Republic	10 or fewer						Romania	10 or fewer					
Egypt	57	1	27	21	2	3	Russia	12			3	3	5
Finland	10 or fewer						Saudi Arabia	10 or fewer					
France	194	4	113	61	1	3	Singapore	24		5	13	1	4
Germany	89	9	40	20	1	1	Slovakia	10 or fewer					
Greece	10 or fewer						South Africa	10 or fewer					
Guatemala	10 or fewer						Spain	220	1	130	68	3	7
Hong Kong	21		4	11		6	Sri Lanka	15		2	13		
Hungary	10 or fewer						Sweden	10 or fewer					
India	630		20	352	26	215	Switzerland	12		8	2		
Indonesia	10 or fewer						Taiwan	157	1	83	64	4	2
Ireland	11		2	4			Thailand	44		15	26		2
Israel	23		3	12		4	Tunisia	10 or fewer					
Italy	51		22	25			Turkey	23			20		3
Japan	346	21	92	158	17	18	Ukraine	10 or fewer					
Korea, Republic Of	200	1	65	91	20	11	United Arab Emirates	10 or fewer					
Latvia	10 or fewer						United Kingdom	125	3	55	38	1	4
Lebanon	10 or fewer						United States	1871	30	668	759	23	159
Lithuania	10 or fewer						Uruguay	10 or fewer					
Luxembourg	10 or fewer						Viet Nam	20			15	2	3



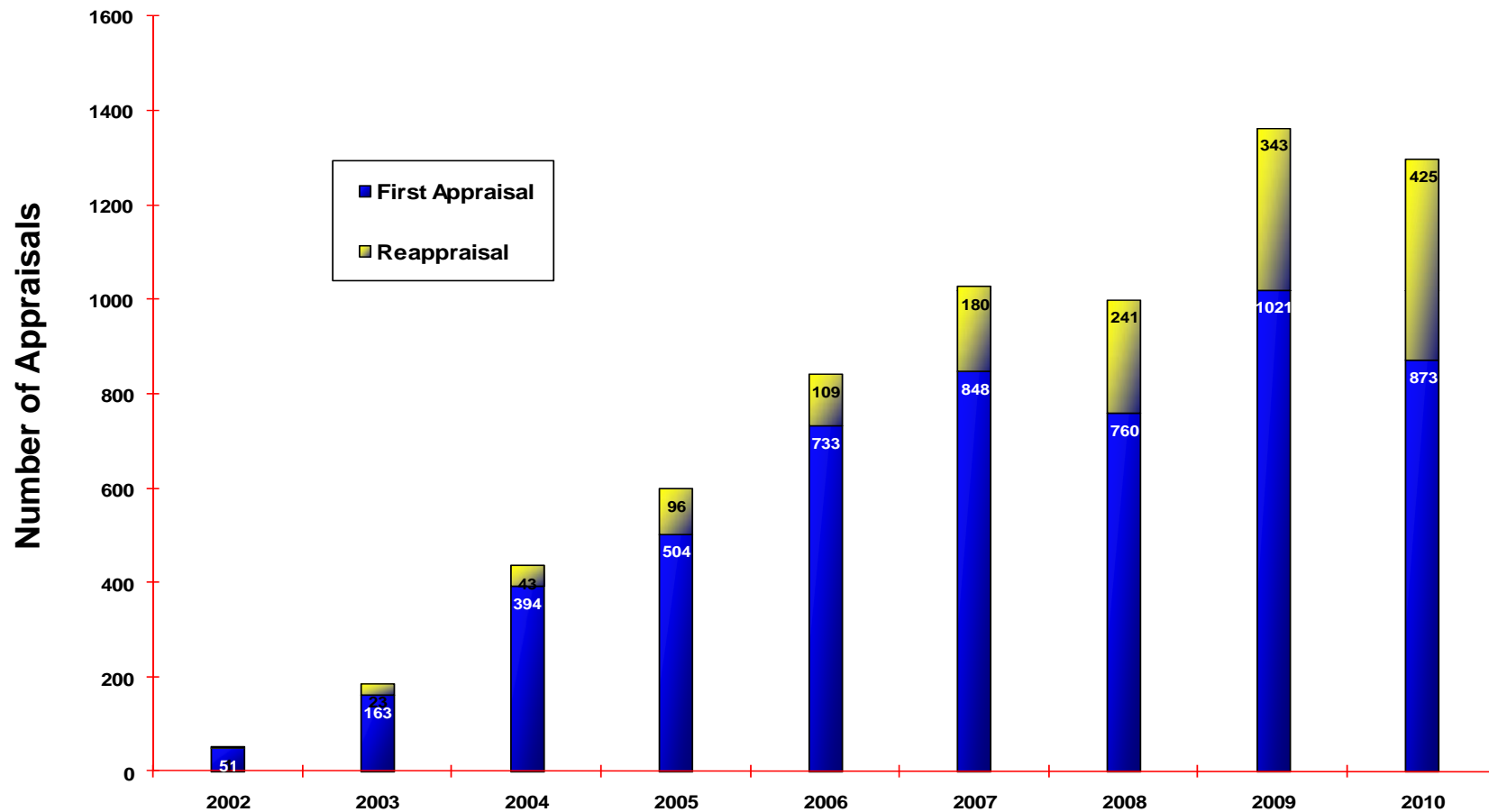
Number of SCAMPI A Appraisals Reported to SEI by Year



Based on 6808 appraisals



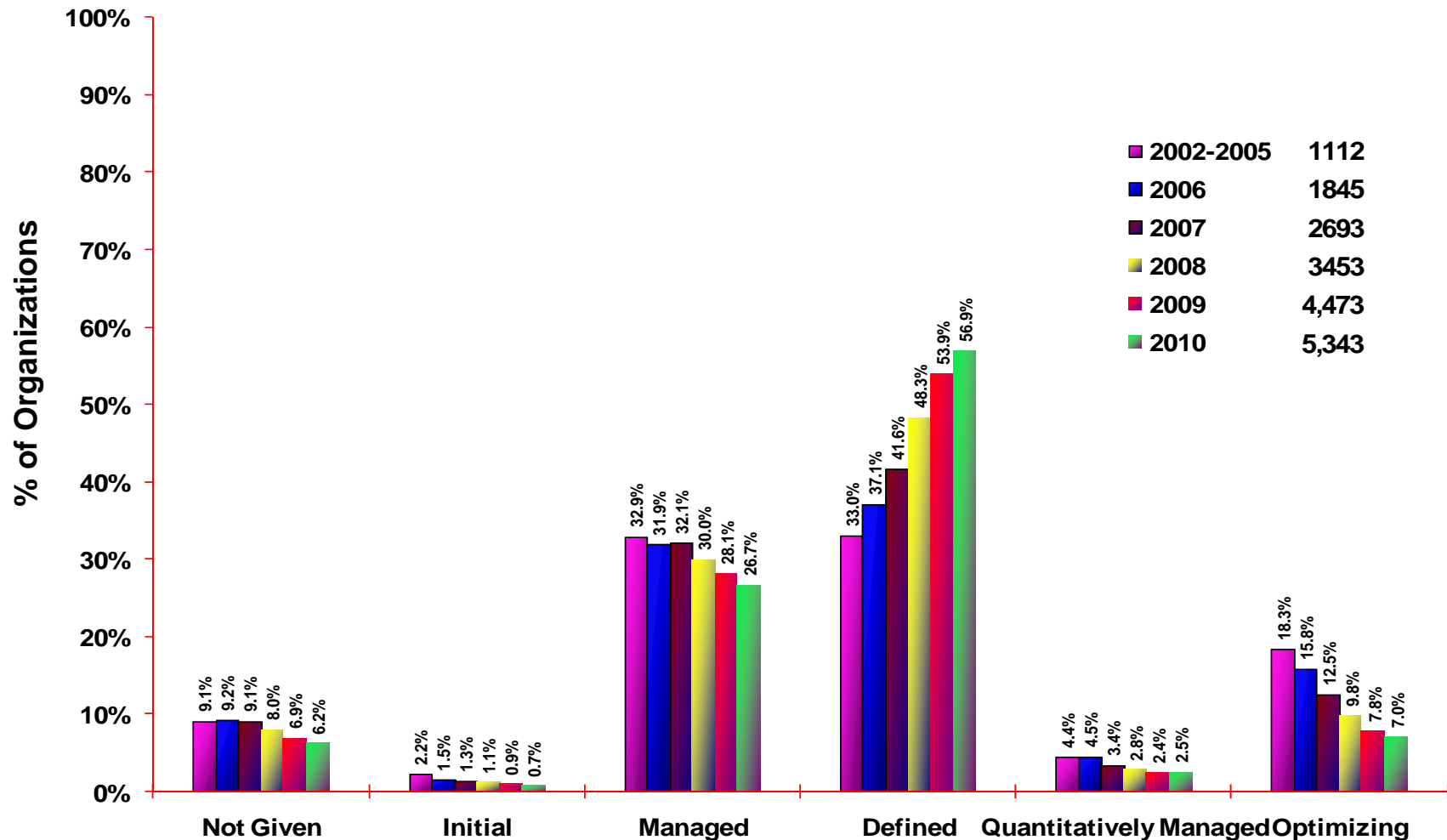
Number of SCAMPI A Appraisals Reported to SEI by Year



Based on 6808 appraisals



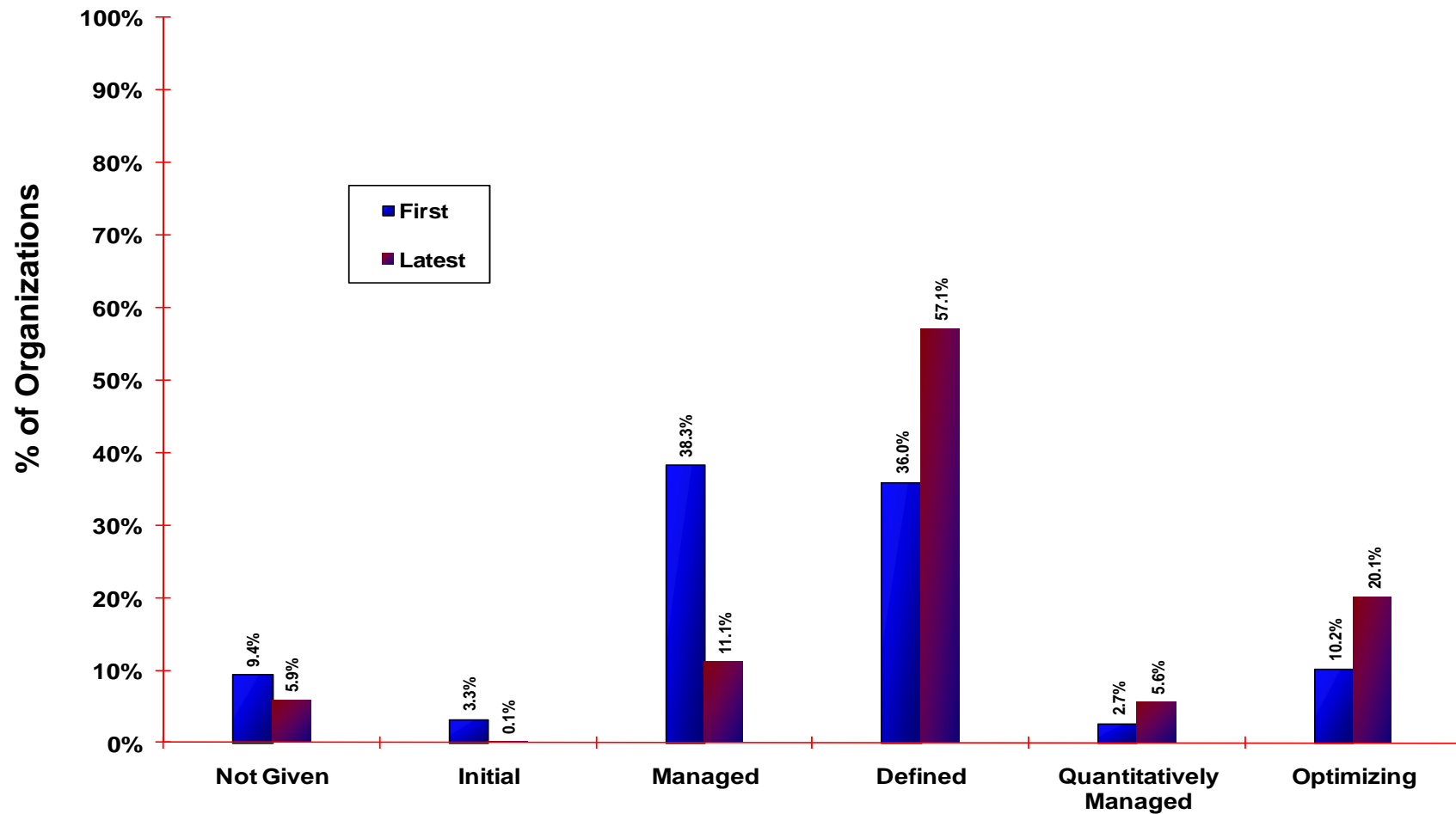
Trends in the Community Maturity Profile



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



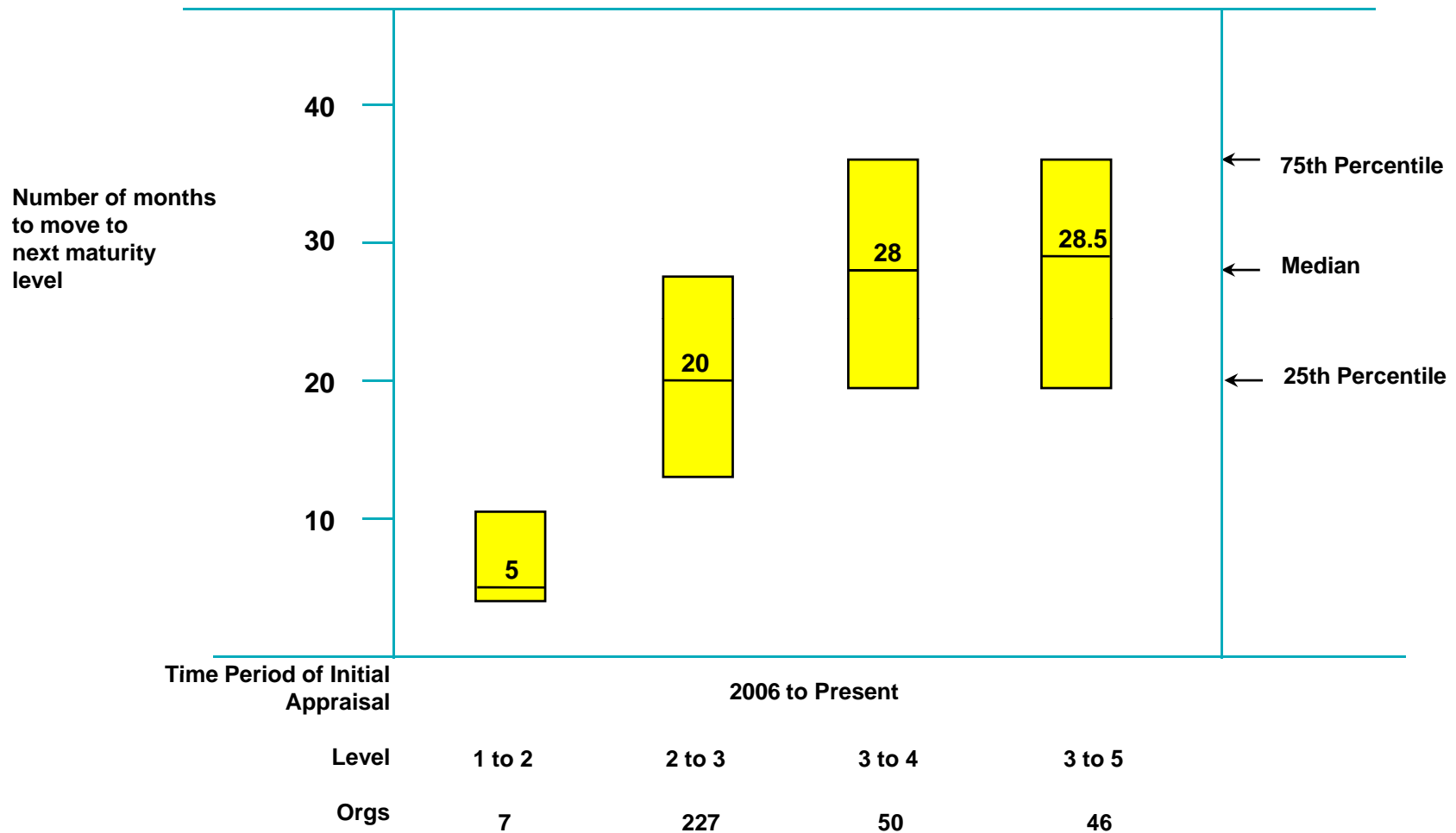
Maturity Level of First and Latest CMMI Appraisal



Based on 1131 reappraised organizations using their first and latest appraisal



Time to Move Up



Summary -1

Since 2002, 6808 appraisals have been reported to the SEI.

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

More than 61% 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 52% of the total number of appraisals.



Summary -2

For organizations that began their CMMI-based SCAMPI effort in 2006 or later, the median time to move from

- maturity level 2 to 3 is 20 months
- maturity level 3 to 4 is 28 months
- maturity level 3 to 5 is 28.5 months

Note:

Since the September 2010 report, the median time to move from maturity level 2 to 3 increased from 18.5 months to 20 months. The median time to move from maturity level 3 to 4 remains the same as 28 months. The median time to move from maturity level 3 to 5 increased from 28 months to 28.5 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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