Carnegie Mellon
Software Engineering Institute

Process Maturity Profile

CMMI® v1.1
SCAMPI^SM v1.1 Class A Appraisal Results
2006 End-Year Update

March 2007

We could not produce this report without the support of the organizations and lead appraisers who reported their appraisal results to the SEI^SM.

Our many thanks for their continuing cooperation with our data collection and analysis efforts.

CMMI Appraisal Program

Outline

Introduction

Current Status

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Terms used in this Briefing

How to Report your Appraisal Results to the SEI

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 lead appraisers, team leaders and certified 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.

Organizations performing source selection or verification should consider performing an evaluation appraisal. For more information on appraisal methods and for a directory of authorized lead appraisers who can perform them, visit:
http://www.sei.cmu.edu/appraisal-program/

Introduction: Purpose

Characterize the adoption of CMMI®

Describe results from Standard CMMI Appraisal Method for Process Improvement (SCAMPISM) v1.1 Class A appraisals using Capability Maturity Model® Integration (CMMI) v1.1 *

Encourage continued reporting of results

* Organizations previously appraised against CMMI v1.0 and which have not reappraised against v 1.1 are not included in this report

Please visit: http://www.sei.cmu.edu/appraisal-program/profile/about.html for additional information or questions you may have about this briefing before contacting the SEI directly

Current Status

SCAMPI v1.1 Class A appraisals conducted from its April 2002 release through December 2006 <u>and</u> reported to the SEI by January 2007

- **1,964 appraisals**
- **1,712 organizations**
- **1,084 participating companies**
- **208 reappraised organizations**
- **6,713 projects**
- **65.5% Non-USA organizations**

Please refer to: Terms Used in this Report on page 19

Additional charts providing different views and break down of this information will be added to this briefing as more appraisal data is reported to the SEI over time.

Process Maturity Profile
by All Reporting Organizations
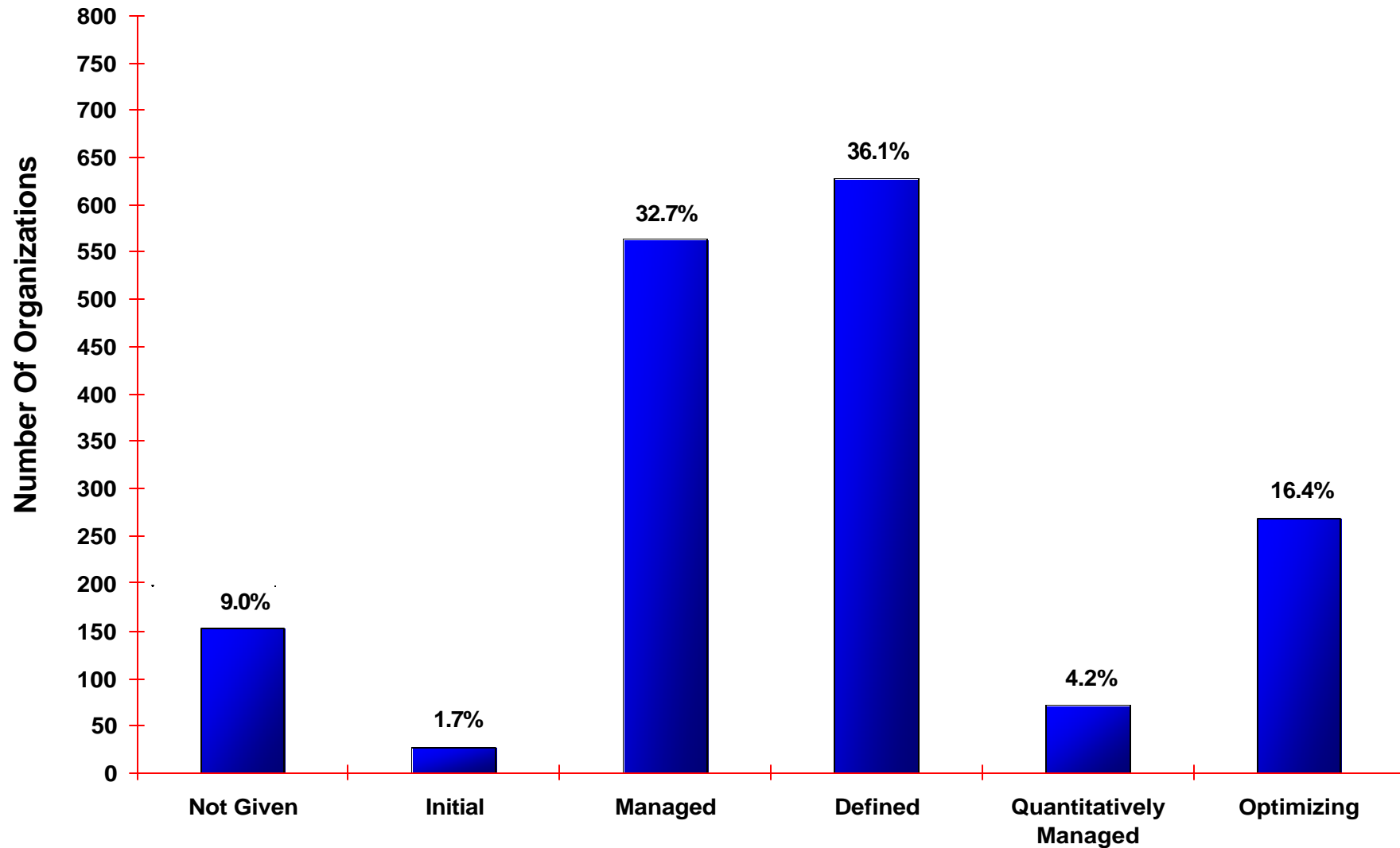
Based on most recent appraisal of **1712** organizations

Reporting Organization Categories

Commercial/In-house — 69.1%
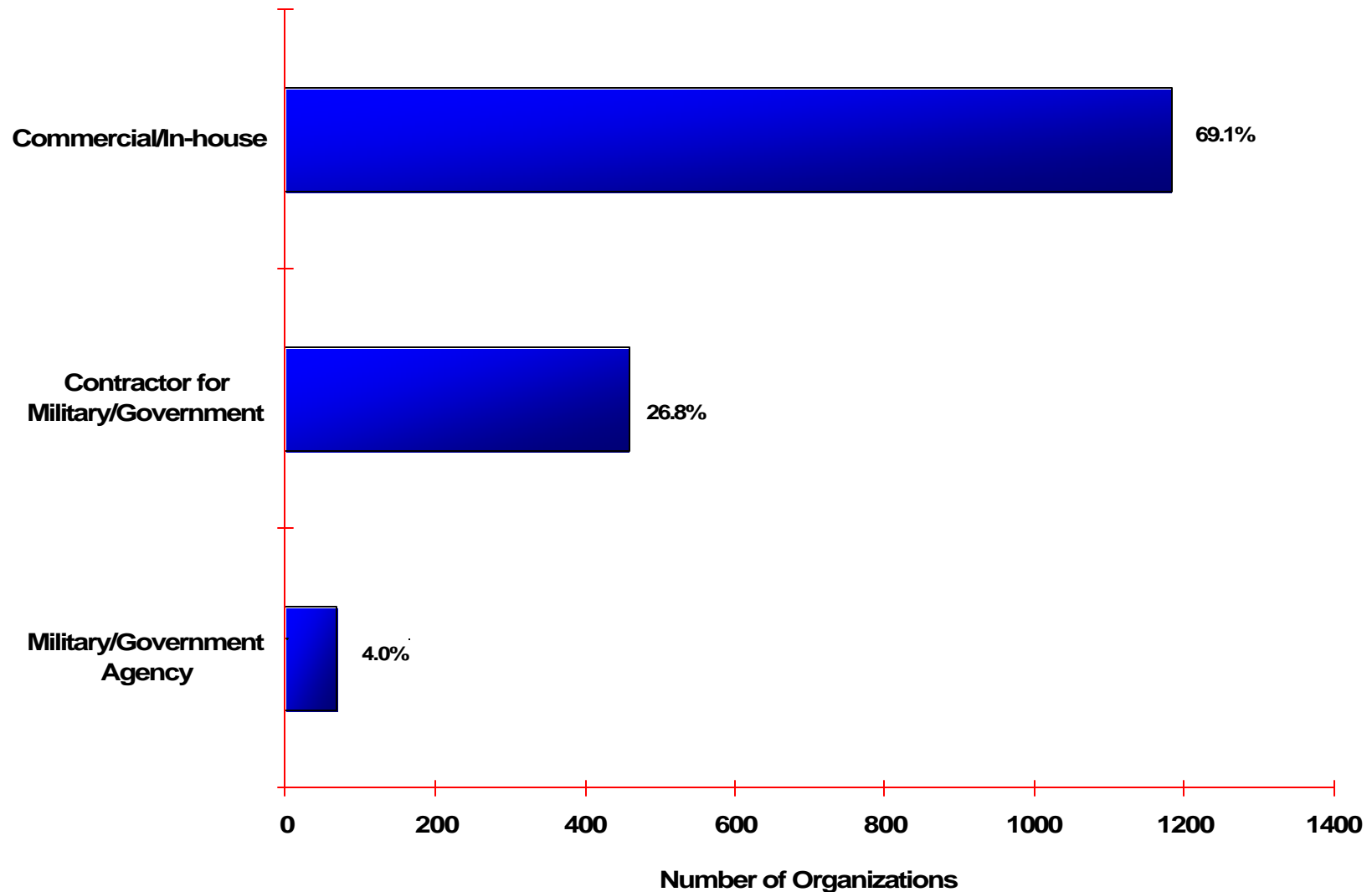
Contractor for Military/Government — 26.8%

Military/Government Agency — 4.0%
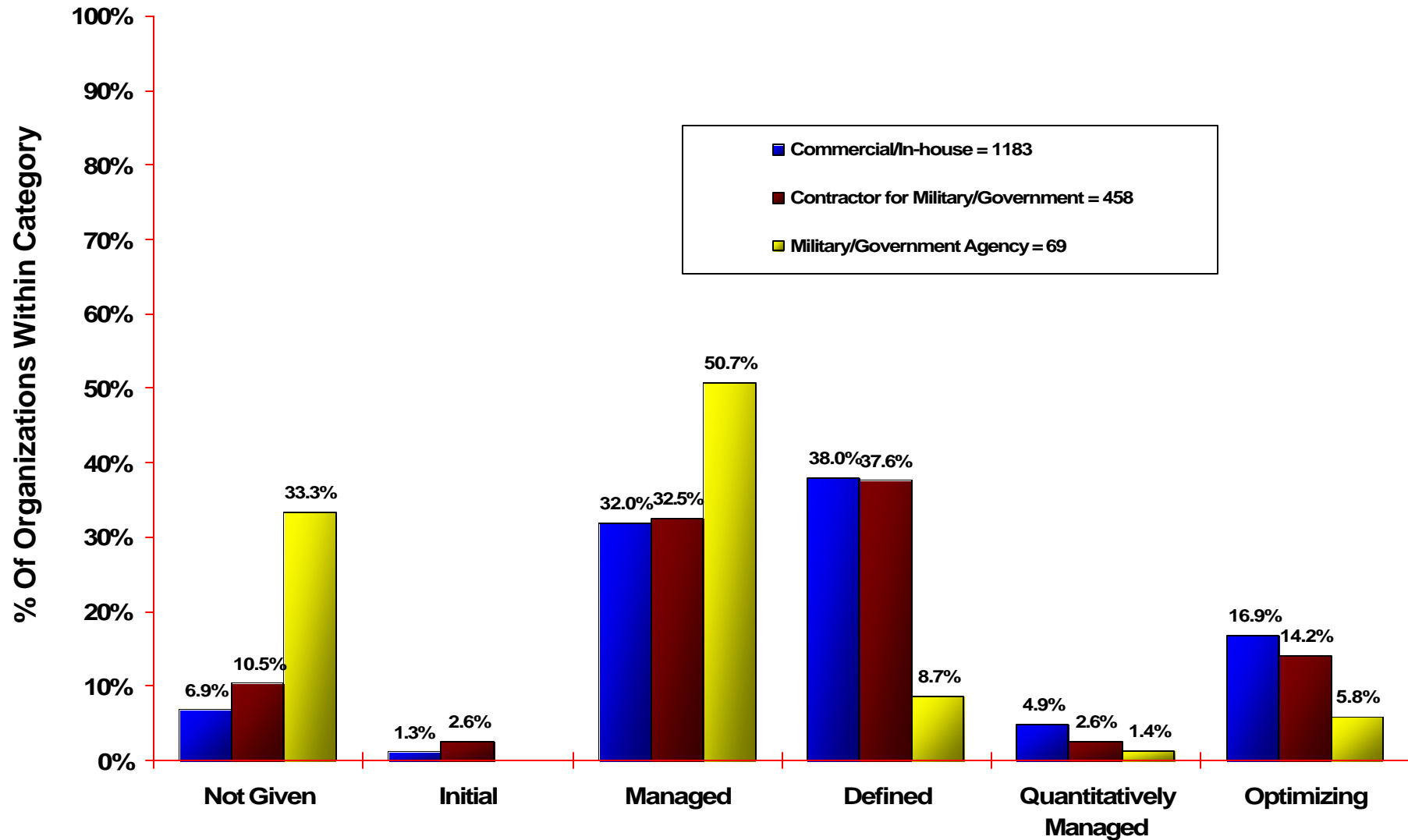
| 0 | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 |

Number of Organizations

Based on **1710** organizations reporting an organization category

Process Maturity Profile
by Reporting Organization Categories

Legend:
- ■ Commercial/In-house = 1183
- ■ Contractor for Military/Government = 458
- ■ Military/Government Agency = 69

Y-axis: % Of Organizations Within Category (0% to 100%)

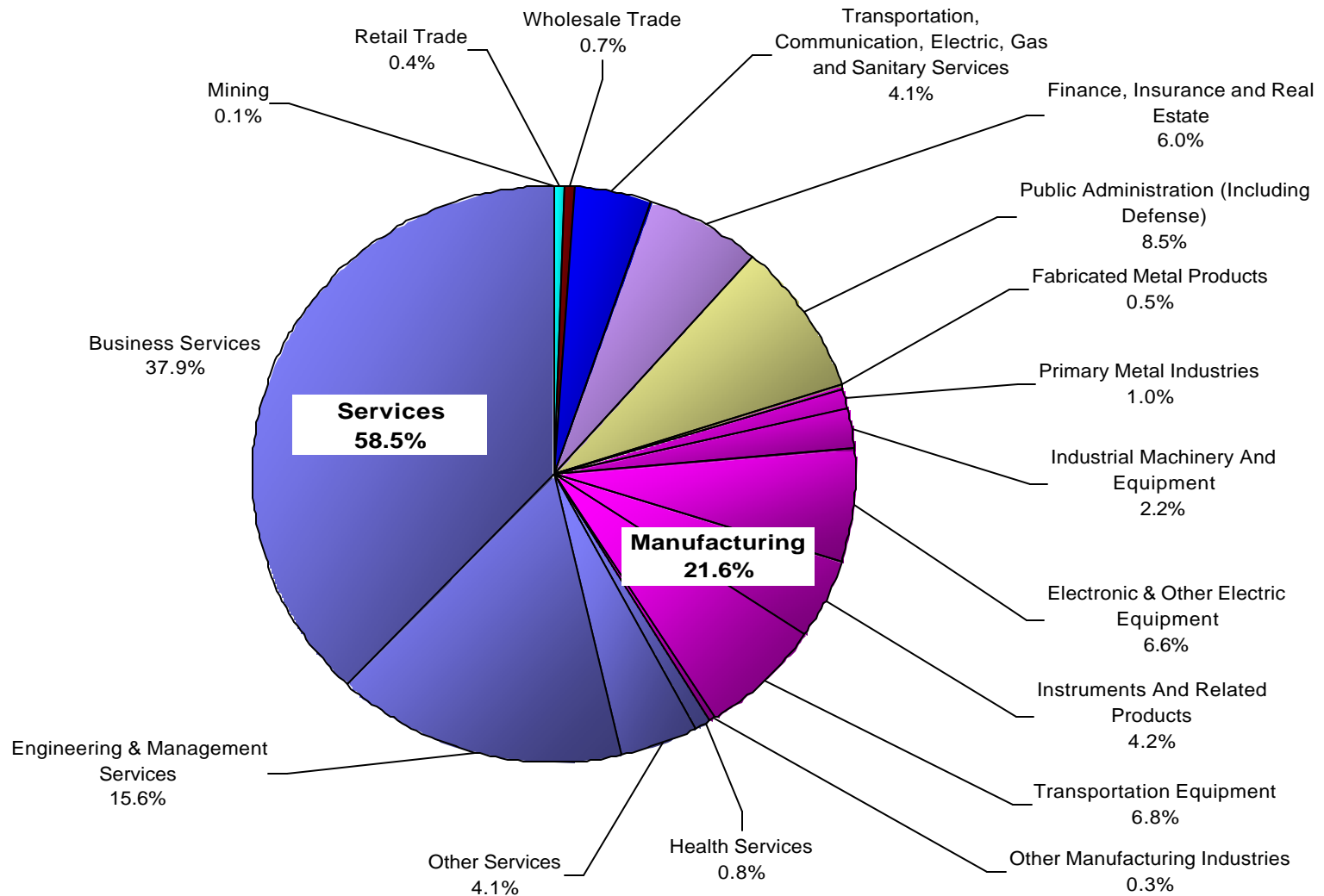| Category	Commercial/In-house	Contractor for Military/Government	Military/Government Agency
Not Given	6.9%	10.5%	33.3%
Initial	1.3%	2.6%	
Managed	32.0%	32.5%	50.7%
Defined	38.0%	37.6%	8.7%
Quantitatively Managed	4.9%	2.6%	1.4%
Optimizing	16.9%	14.2%	5.8%

Based on most recent appraisal of **1710** organizations reporting an organization category

Organization Type
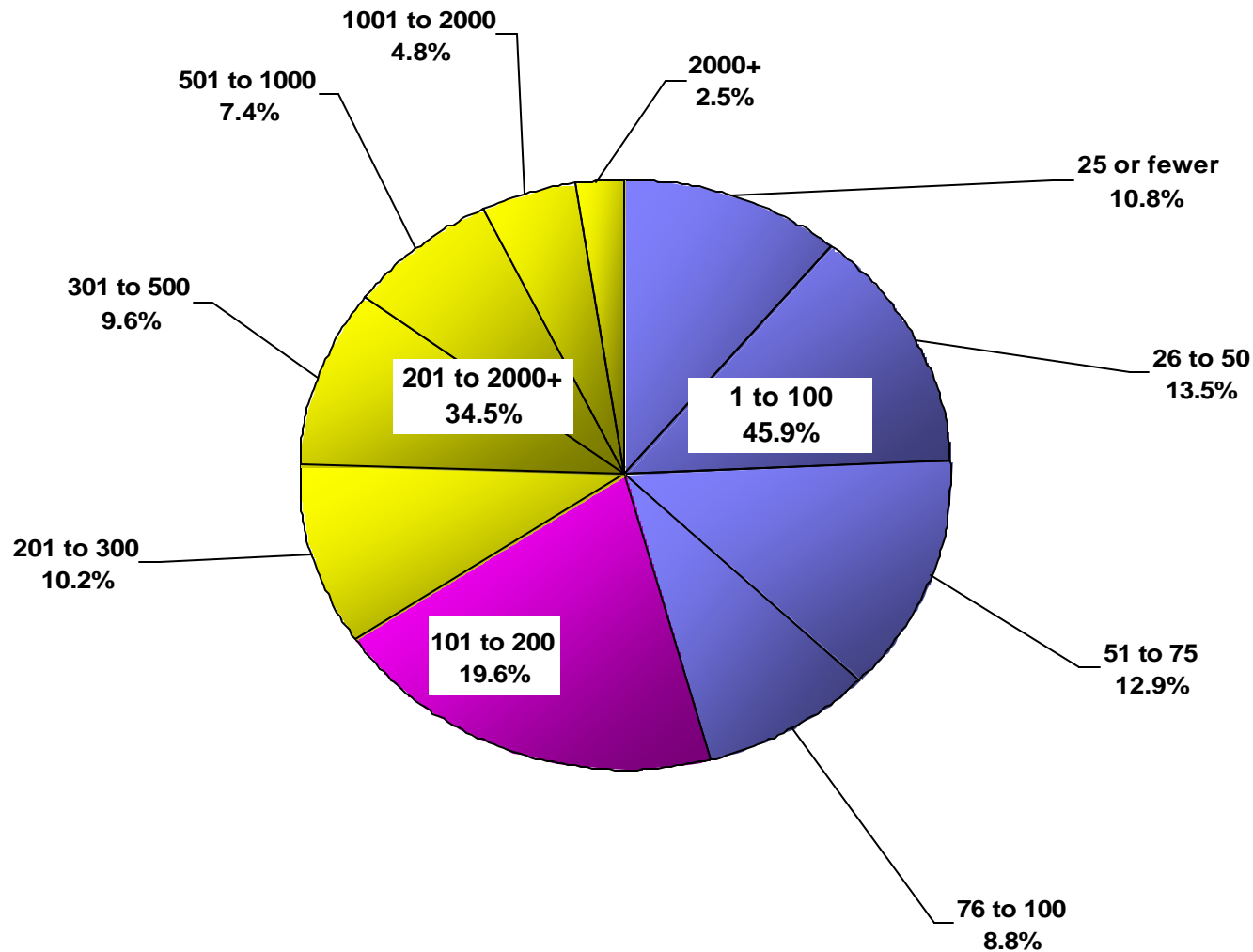Based on Primary Standard Industrial Classification (SIC) Code

Wholesale Trade 0.7%

Retail Trade 0.4%

Transportation, Communication, Electric, Gas and Sanitary Services 4.1%

Mining 0.1%

Finance, Insurance and Real Estate 6.0%

Public Administration (Including Defense) 8.5%

Business Services 37.9%

Services 58.5%

Fabricated Metal Products 0.5%

Primary Metal Industries 1.0%

Industrial Machinery And Equipment 2.2%

Manufacturing 21.6%

Electronic & Other Electric Equipment 6.6%

Instruments And Related Products 4.2%

Engineering & Management Services 15.6%

Transportation Equipment 6.8%

Other Services 4.1%

Health Services 0.8%

Other Manufacturing Industries 0.3%

Based on **730** organizations reporting SIC code. For more information visit: http://www.osha.gov/oshstats/sicser.html

Organization Size

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

1001 to 2000
4.8%

2000+
2.5%

501 to 1000
7.4%

25 or fewer
10.8%

301 to 500
9.6%

201 to 2000+
34.5%

1 to 100
45.9%

26 to 50
13.5%

201 to 300
10.2%

101 to 200
19.6%

51 to 75
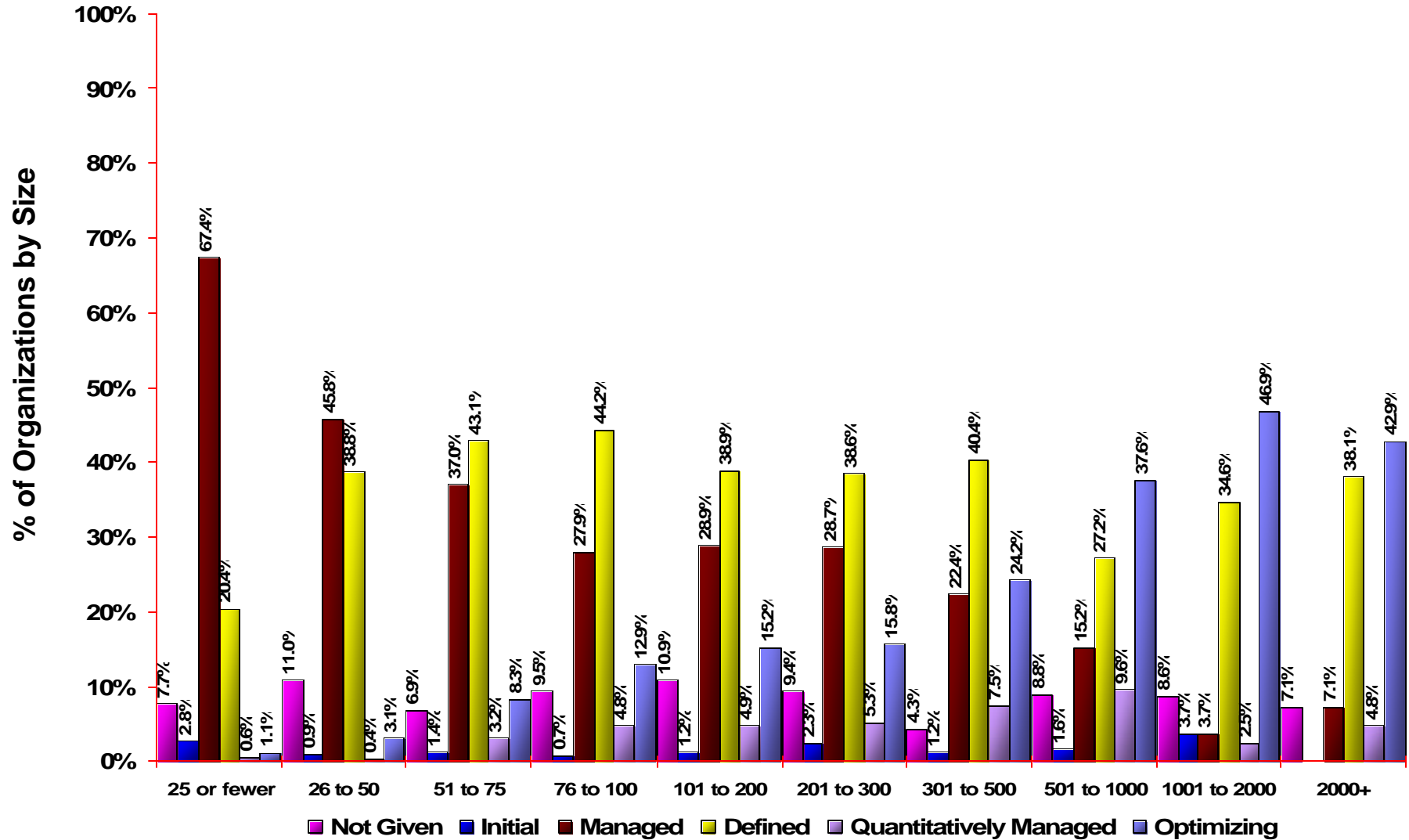**12.9%**

76 to 100
8.8%

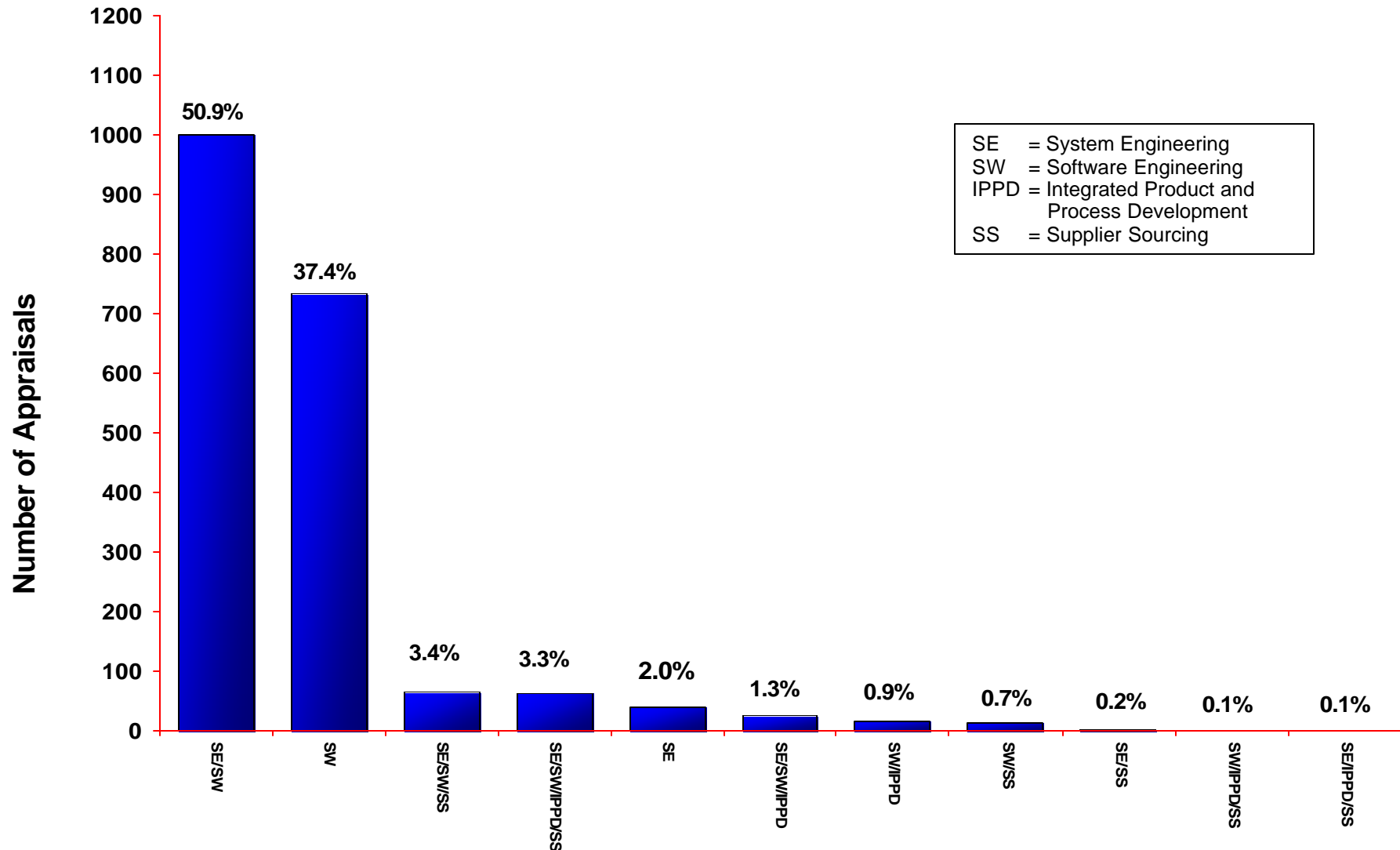Based on **1680** organizations reporting size data

Maturity Profile by Organization Size

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

% of Organizations by Size

Legend: ■ Not Given ■ Initial ■ Managed ■ Defined ■ Quantitatively Managed ■ Optimizing

Based on **1680** organizations reporting size data

Disciplines Selected for Appraisals

SE = System Engineering
SW = Software Engineering
IPPD = Integrated Product and
Process Development
SS = Supplier Sourcing

Based on **1,964** appraisals

For more information about Allowable Models & Combinations, visit: http://www.sei.cmu.edu/cmmi/background/aspec.html

Countries where Appraisals have been Performed <u>and</u> Reported to the SEI
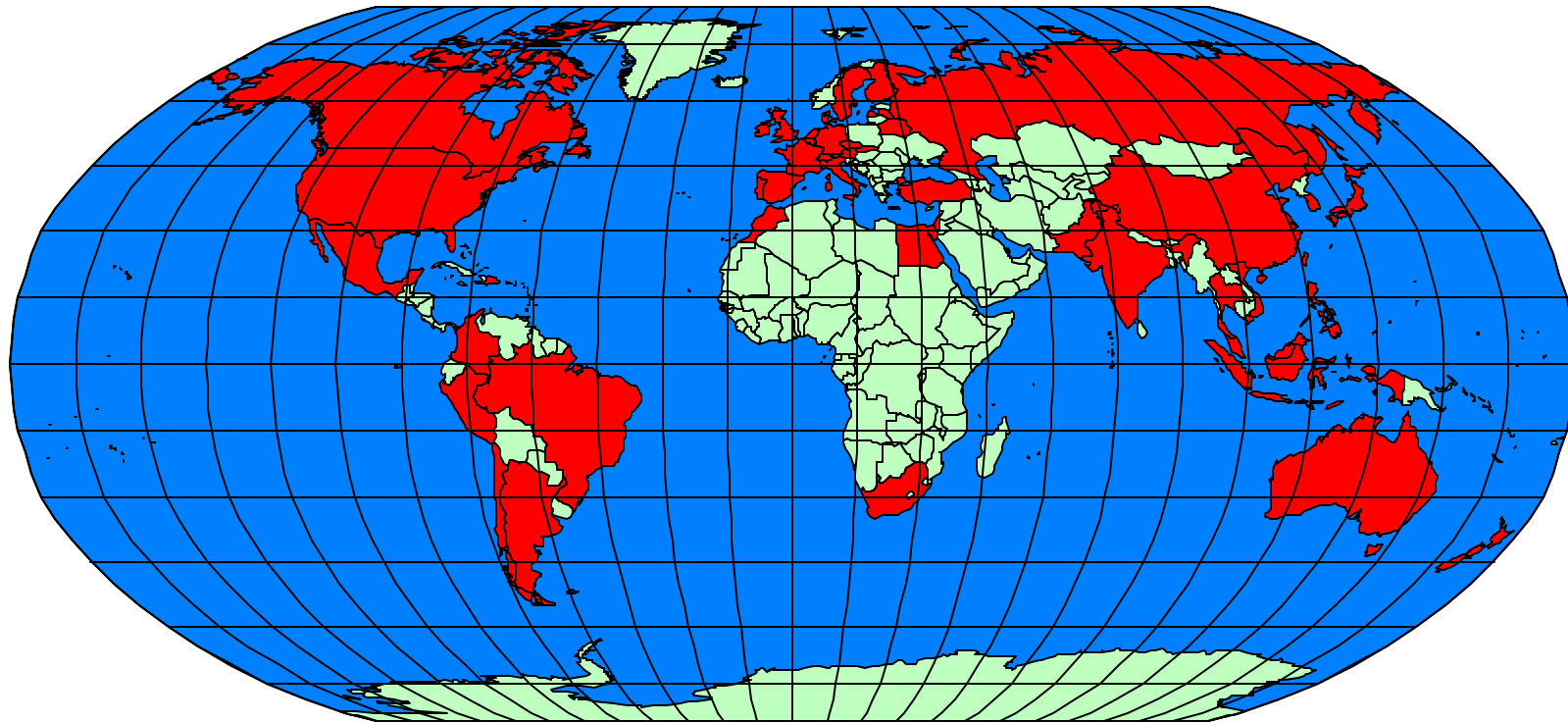
Argentina	**Australia**	**Austria**	**Bahrain**	**Belarus**	**Belgium**	**Brazil**	**Canada**
Chile	**China**	**Colombia**	**Czech Republic**	**Denmark**	**Dominican Republic**	**Egypt**	**Finland**
France	**Germany**	**Hong Kong**	**India**	**Indonesia**	**Ireland**	**Israel**	**Italy**
Japan	**Korea, Republic of**	**Latvia**	**Malaysia**	**Mauritius**	**Mexico**	**Morocco**	**Netherlands**
New Zealand	**Pakistan**	**Peru**	**Philippines**	**Portugal**	**Russia**	**Singapore**	**Slovakia**
South Africa	**Spain**	**Sweden**	**Switzerland**	**Taiwan**	**Thailand**	**Turkey**	**United Kingdom**
United States	**Vietnam**						

Red country name: New additions with this reporting

USA and Non-USA
Reporting Organization Categories

% of Organizations

Legend:
- USA: 100% = 590
- Non-USA: 100% = 1120

Categories:
- Commercial/In-house: 174, 1009
- Contractor for Military/Government: 359, 99
- Military/Government Agency: 57, 12
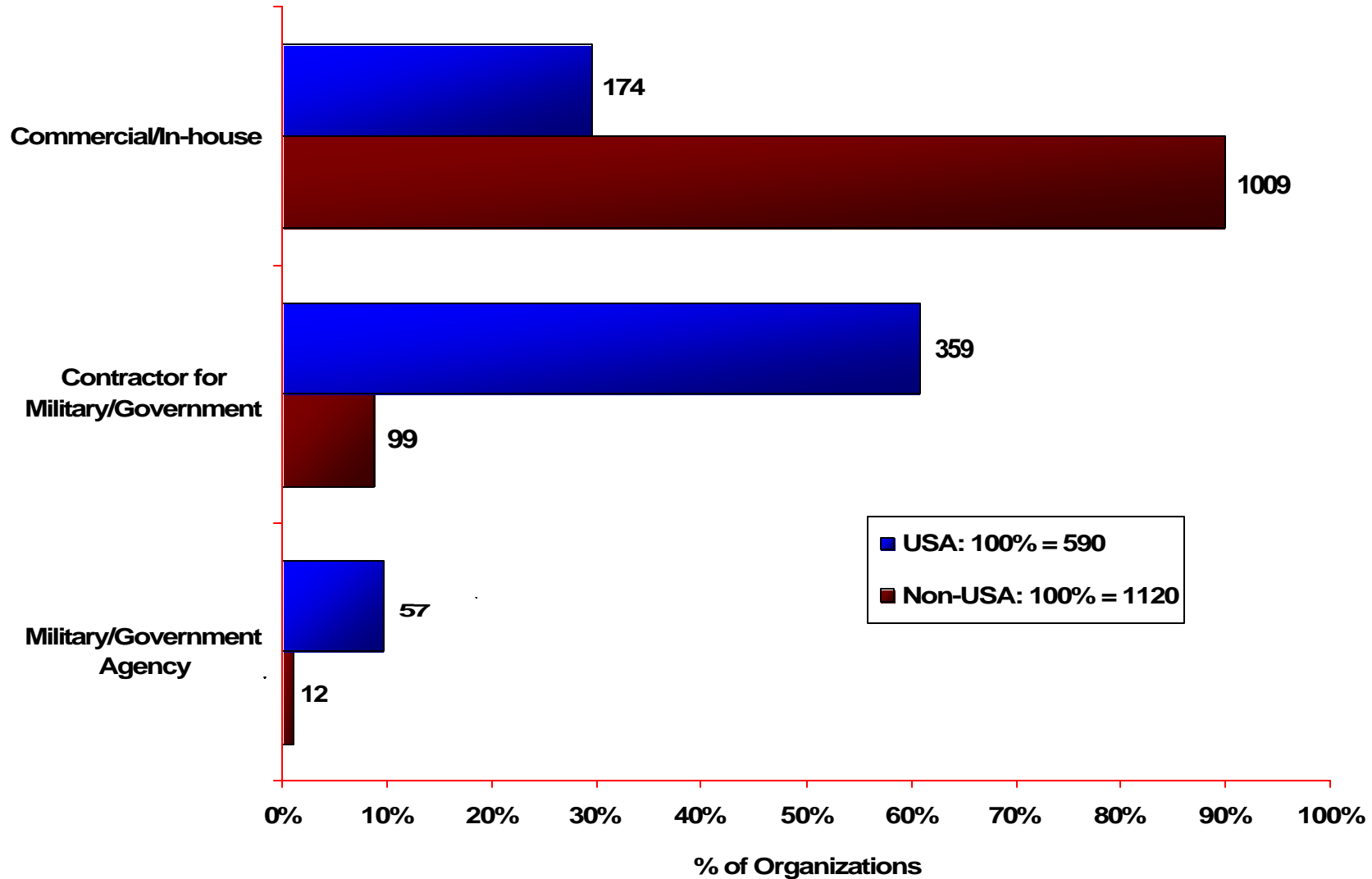
Based on **590** USA organizations and **1120** Non-USA organizations reporting an organization category

Maturity Profile by All Reporting USA and Non-USA Organizations

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	19	No	Yes	Yes	Yes	Yes	Korea, Republic Of	78	Yes	Yes	Yes	Yes	Yes
Australia	23	Yes	Yes	Yes	Yes	Yes	Latvia	10 or fewer					
Austria	10 or fewer						Malaysia	19	No	Yes	Yes	No	Yes
Bahrain	10 or fewer						Mauritius	10 or fewer					
Belarus	10 or fewer						Mexico	15	No	Yes	Yes	Yes	Yes
Belgium	10 or fewer						Morocco	10 or fewer					
Brazil	48	No	Yes	Yes	Yes	Yes	Netherlands	10 or fewer					
Canada	26	No	Yes	Yes	Yes	Yes	New Zealand	10 or fewer					
Chile	15	No	Yes	Yes	No	Yes	Pakistan	10 or fewer					
China	240	Yes	Yes	Yes	Yes	Yes	Peru	10 or fewer					
Colombia	10 or fewer						Philippines	16	No	Yes	Yes	No	Yes
Czech Republic	10 or fewer						Portugal	10 or fewer					
Denmark	10 or fewer						Russia	10 or fewer					
Dominican Republic	10 or fewer						Singapore	10 or fewer					
Egypt	17	No	Yes	Yes	Yes	Yes	Slovakia	10 or fewer					
Finland	10 or fewer						South Africa	10 or fewer					
France	75	Yes	Yes	Yes	Yes	Yes	Spain	31	No	Yes	Yes	No	Yes
Germany	35	Yes	Yes	Yes	Yes	Yes	Sweden	10 or fewer					
Hong Kong	10						Switzerland	10 or fewer					
India	204	No	Yes	Yes	Yes	Yes	Taiwan	46	No	Yes	Yes	No	Yes
Indonesia	10 or fewer						Thailand	10 or fewer					
Ireland	10 or fewer						Turkey	10 or fewer					
Israel	10						United Kingdom	48	Yes	Yes	Yes	Yes	No
Italy	10 or fewer						United States	718	Yes	Yes	Yes	Yes	Yes
Japan	172	Yes	Yes	Yes	Yes	Yes	Viet Nam	10 or fewer					

Process Area Profiles - 1
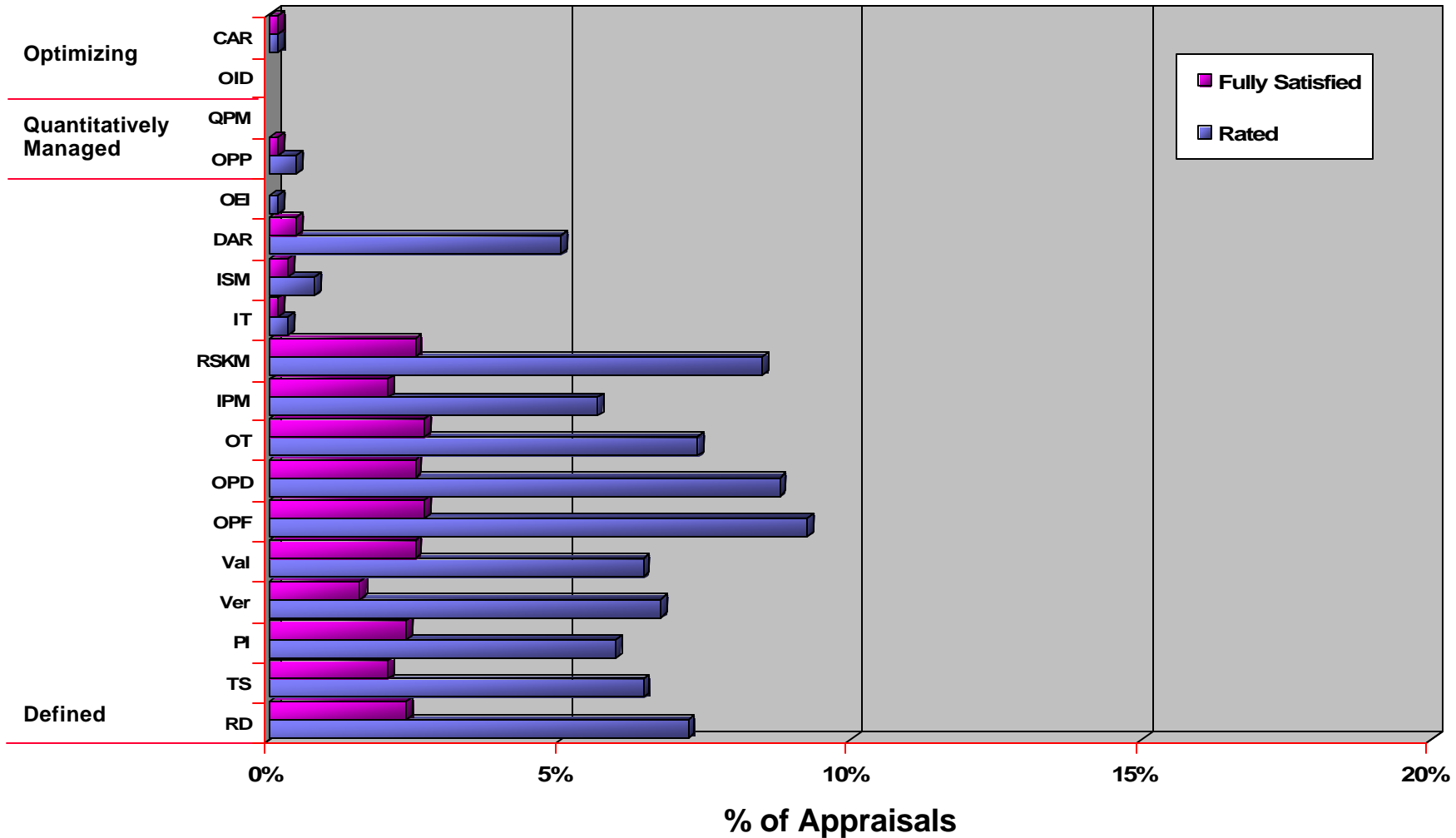# Organizations Appraised at Maturity Level 1
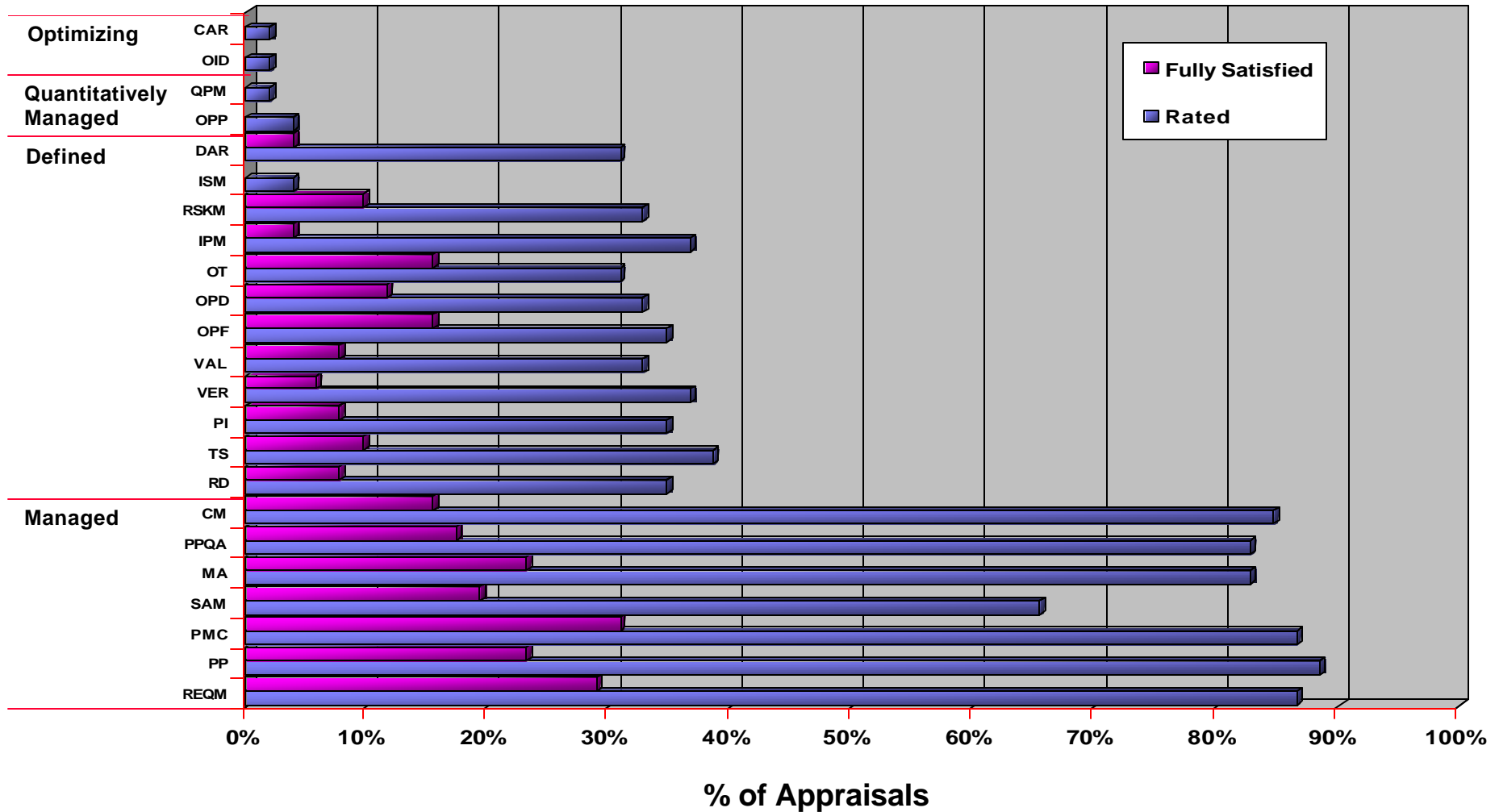
Based on **52** appraisals reporting a maturity level 1 rating

Process Area Profiles - 2
Organizations Appraised at Maturity Level 2

Based on **636** appraisals reporting a maturity level 2 rating

Summary

1964 appraisals have been reported to the SEI in 58 months

Organization Category Commercial/In-house reports most of the appraisals

The highest percentage of Commercial/In-house reporting appraisals is from outside the USA

The highest percentage of Military/Government Agency /reporting appraisals is from the USA

Outside the USA, China, India, Japan, and Korea reporting appraisals are increasing at a rapid rate

Comparing early reports of the SW-CMM maturity profile with early CMMI data reflects a more mature CMMI® profile

Additional information and charts will be added to this briefing as more appraisals are reported and more data is available to support the breakdowns

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.

Report your Appraisal Results to the SEI

The briefing is only possible due to the cooperation of organizations and individuals sending in their appraisal results to the SEI

In order to provide this information and service in the future, it will depend on this continued cooperation

Please visit:

http://www.sei.cmu.edu/appraisal-program/profile/about.html

for forms, information, and instructions on how to report appraisals to the SEI

Contact Information

Please visit:

http://www.sei.cmu.edu/appraisal-program/profile/about.html

and review the information provided before contacting:

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